# Washington

**1997 Economic Census** *Manufacturing* Geographic Area Series



Issued May 2000

EC97M31A-WA

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#### ACKNOWLEDGMENTS

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

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

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

coordination of the publication process. Kim Credito, Patrick Duck, Chip Murph, Wanda Sledd, and Veronica White provided primary staff assistance. The Economic Planning and Coordination Division, Lawrence A. Blum, Assistant Chief for Collection Activities and Shirin A. Ahmed, Assistant Chief for Post-Collection Processing, assisted by **Dennis** Shoemaker, Chief, Post-Collection Census Processing Branch, Brandy Yarbrough, Section Chief, Sheila Proudfoot, Richard Williamson, Keith Fuller, Andrew W. Hait, and Jennifer E. Lins, was responsible for developing the systems and procedures for data collection, editing, review, correction, and dissemination

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

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

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

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

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

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## 1997 Economic Census

*Manufacturing* Geographic Area Series





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## Introduction to the Economic Census

### PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

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

#### ALL-NEW INDUSTRY CLASSIFICATIONS

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

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

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

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

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

## **RELATIONSHIP TO SIC**

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

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

#### **GEOGRAPHIC AREA CODING**

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

#### 1997 ECONOMIC CENSUS

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

### **BASIS OF REPORTING**

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

## **DOLLAR VALUES**

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

All dollar values are shown in thousands of dollars.

## AVAILABILITY OF ADDITIONAL DATA

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

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

## **Special Tabulations**

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

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

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

#### **HISTORICAL INFORMATION**

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

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

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

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

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

#### SOURCES FOR MORE INFORMATION

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

#### **ABBREVIATIONS AND SYMBOLS**

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

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

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

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## Manufacturing

#### SCOPE

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

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

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

#### GENERAL

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

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

State reports, which include the District of Columbia, present similar statistics at the "all manufacturing" level for each state and its metropolitan areas (MAs) with 250 employees or more, and for counties, consolidated cities, and places with 500 employees or more. The state reports also include six-digit NAICS level data for industries with 100 employees or more in the state.

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

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

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

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

#### **GEOGRAPHIC AREAS COVERED**

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

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

Data are available for the metropolitan areas (MAs) with 250 employees or more. The term MA is a general term used to encompass all of the specifically defined metropolitan areas. A consolidated metropolitan statistical area (CMSA) is made up of two or more contiguous primary metropolitan statistical areas (PMSAs) with a combined population of at least 1 million. A PMSA is a subdivision of a CMSA that demonstrates very strong internal economic and social links separate from the ties to other portions of the CMSA. A metropolitan statistical area (MSA) is an integrated economic and social unit with a population of at least 50,000. An MA is made up of one or more counties meeting standards of metropolitan character. In New England, cities and towns, rather than counties, are the component geographic units. Determination of the MAs was made by the Office of Management and Budget (OMB) as of June 30, 1997. The population estimates were from the 1990 Census of Population or a subsequent special census. When applicable, the make-up of an MA is included in Appendix E. Changes to geographical boundaries are noted in Appendix D.

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

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

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

#### COMPARABILITY OF THE 1992 AND 1997 CENSUSES

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

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those leaving manufacturing are logging and portions of publishing. Prominent among the industries coming into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. Data for the industries coming into manufacturing as well as those leaving manufacturing are included in the manufacturing industry report series for 1997. However, the state and summary reports only include data for industries in the NAICS definition of manufacturing. Another change resulting from the conversion to NAICS is that data for central administrative offices (CAOs) associated with manufacturing are not included along side the manufacturing data. This change affects data in the state reports and the general summary.

#### DISCLOSURE

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

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

# AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

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

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

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

## Table 1. Industry Statistics for the State: 1997

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

| and Syn          | ndois, see introductory text]                          |        |            |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
|------------------|--|--------|------------|---|---------------------|----------------------|--------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                  |  |        | establis   | All<br>shments                            | All emp             | ployees              | Pr           | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code    | Geographic area and industry                           | E1     | Total      | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number       | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                  | WASHINGTON   |        |            |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
| 31-33            | Manufacturing  | 1      | 7 801      | 2 159                                     | 328 511             | 13 004 063           | 213 330      | 425 003          | 7 046 371          | 30 434 838                                 | 49 023 723                        | 78 852 486                         | 2 640 230                                       |
| 311              | Food mfg   | 1      | 734        | 283                                       | 36 066              | 947 376              | 27 977       | 54 491           | 649 406            | 3 391 853                                  | 5 307 402                         | 8 692 715                          | 247 081   |
| 3111<br>31111    | Animal food mfg  | _      | 31<br>31   | 9<br>9                                    | 477<br>477          | 15 037<br>15 037     | 292<br>292   | 567<br>567       | 8 037<br>8 037     | 142 322<br>142 322                         | 198 241<br>198 241                | 339 479<br>339 479                 | 6 682<br>6 682                                  |
| 311119           | Other animal food<br>mfg                               | 1      | 29         | 7   | е                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 3112<br>31121    | Grain & oilseed milling<br>Flour milling & malt mfg .  | _      | 23<br>12   | 7<br>3                                    | 564<br>374          | 22 223<br>15 781     | 342<br>244   | 718<br>515       | 12 393<br>9 155    | 75 575<br>45 516                           | 181 941<br>158 501                | 255 244<br>203 994                 | 22 162<br>13 786                                |
| 311211<br>311213 | Flour milling<br>Malt mfg                              | _      | 10         | 2   | c                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 31122            | Starch & vegetable fats &                              |        |            |   |                     | _                    | _            | _                | _                  | _  | _                                 | _                                  | _   |
| 3113             | oils mfg<br>Sugar & confectionery                      | 1      | 9          | 4   | с                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 31133            | product mfg<br>Confectionery mfg from                  | 1      | 47         | 8   | 769                 | 16 593               | 574          | 912              | 9 218              | 47 631                                     | 33 081                            | 81 224                             | 1 555   |
| 311330           | purchased chocolate<br>Confectionery mfg               | 1      | 29         | 4   | 424                 | 10 263               | 293          | 550              | 5 010              | 29 966                                     | 21 192                            | 51 134                             | 879   |
|                  | from purchased chocolate                               | 1      | 29         | 4   | 424                 | 10 263               | 293          | 550              | 5 010              | 29 966                                     | 21 192                            | 51 134                             | 879   |
| 31134            | Nonchocolate   |        | 14         | 2   | 280                 | 4 667                | 004          | 287              | 0.005              | 14.001                                     | 9 378                             | 04,000                             | D   |
| 311340           | confectionery mfg<br>Nonchocolate<br>confectionery mfg | 2<br>2 | 14         | 2   | 280<br>280          | 4 667                | 234<br>234   | 287              | 3 095<br>3 095     | 14 281<br>14 281                           | 9 378                             | 24 230<br>24 230                   | D   |
| 3114             | Fruit & vegetable                                      | 2      | 14         | 2   | 200                 | 4 007                | 204          | 207              | 0 000              | 14 201                                     | 5 5/6                             | 24 200                             | D   |
|                  | preserving & specialty food mfg                        | -      | 90         | 59  | 11 797              | 298 146              | 10 447       | 20 270           | 227 954            | 1 183 539                                  | 1 370 143                         | 2 566 124                          | 94 555  |
| 31141<br>311411  | Frozen food mfg<br>Frozen fruit, juice, &              |        | 41         | 30  | 7 269               | 183 995              | 6 441        | 12 311           | 141 309            | 708 179                                    | 695 817                           | 1 412 977                          | 66 069  |
| 311412           | vegetable mfg<br>Frozen specialty food                 | 1      | 30<br>11   | 26<br>4                                   | 6 934<br>335        | 175 365<br>8 630     | 6 169<br>272 | 11 785<br>526    | 135 297<br>6 012   | 671 962<br>36 217                          | 672 718<br>23 099                 | 1 353 660<br>59 317                | 65 434<br>635                                   |
| 31142            | mfg<br>Fruit & vegetable                               | -      | 11         | 4   | 335                 | 8 630                | 212          | 520              | 6 012              | 30 217                                     | 23 099                            | 59 317                             | 635   |
|                  | canning, pickling, & drying                            | _      | 49         | 29  | 4 528               | 114 151              | 4 006        | 7 959            | 86 645             | 475 360                                    | 674 326                           | 1 153 147                          | 28 486  |
| 311421           | Fruit & vegetable canning                              | _      | 35         | 19  | 3 183               | 76 495               | 2 833        | 5 413            | 55 721             | 236 422                                    | 399 806                           | 635 258                            | 15 659  |
| 311422<br>311423 | Specialty canning<br>Dried & dehydrated                | -      | 1          | 1   | e                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 3115             | food mfg<br>Dairy product mfg                          | 2      | 13<br>36   | 9<br>22                                   | t<br>1 998          | D<br>64 018          | D<br>1 276   | D<br>2 458       | D<br>43 928        | D<br>242 569                               | D<br>759 616                      | D<br>999 349                       | D<br>28 800                                     |
| 31151            | Dairy product (except<br>frozen) mfg                   | 1      | 25         | 17  | 1 631               | 51 165               | 977          | 1 825            | 33 453             | 208 643                                    | 671 755                           | 875 897                            | 25 273  |
| 311511<br>311512 | Fluid milk mfg<br>Creamery butter mfg                  | 2      | 13<br>2    | 11  | 1 049<br>c          | 31 916<br>D          | 516<br>D     | 947<br>D         | 17 723<br>D        | 105 934<br>D                               | 251 259<br>D                      | 354 643<br>D                       | D<br>D  |
| 311513<br>311514 | Cheese mfg<br>Dry, condensed, &                        | -      | 6          | 3   | e                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
|                  | evaporated dairy<br>product mfg                        | -      | 4          | 2   | с                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 31152            | Ice cream & frozen dessert mfg                         | 7      | 11         | 5   | 367                 | 12 853               | 299          | 633              | 10 475             | 33 926                                     | 87 861                            | 123 452                            | 3 527   |
| 311520           | Ice cream & frozen<br>dessert mfg                      | 7      | 11         | 5   | 367                 | 12 853               | 299          | 633              | 10 475             | 33 926                                     | 87 861                            | 123 452                            | 3 527   |
| 3116             | Meat product mfg                                       | 1      | 62         | 28  | 4 396               | 99 581               | 3 685        | 7 318            | 75 487             | 336 970                                    | 1 318 730                         | 1 656 675                          | 22 355  |
| 31161            | Animal slaughtering & processing                       | 1      | 62         | 28  | 4 396               | 99 581               | 3 685        | 7 318            | 75 487             | 336 970                                    | 1 318 730                         | 1 656 675                          | 22 355  |
| 311611           | Animal (except poultry)<br>slaughtering                | -      | 25         | 9   | 2 464               | 51 354               | 2 168        | 4 685            | 43 190             | 163 279                                    | 1 052 151                         | 1 211 485                          | 12 620  |
| 311612<br>311613 | Meat processed from<br>carcasses                       | 4      | 30         | 12  | 1 152               | 29 024               | 963          | 1 726            | 23 099             | 121 619                                    | 176 270                           | 303 564                            | 6 621   |
| 311013           | Rendering & meat<br>byproduct<br>processing            | 5      | 3          | 3   | с                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 311615           | Poultry processing                                     | 5      | 4          | 4   | f                   | Ď                    | Ď            | Ď                | D                  | Ď  | Ď                                 | Ď                                  | D   |
| 3117             | Seafood product<br>preparation & packaging             | 1      | 120        | 78  | 7 299               | 186 226              | 6 206        | 12 205           | 146 137            | 485 694                                    | 686 284                           | 1 170 892                          | 26 100  |
| 31171            | Seafood product<br>preparation &                       |        | 100        | 70  | 7 000               | 100,000              | C 000        | 10,005           | 140 107            | 405 004                                    | COC 004                           | 1 170 000                          | 00,100  |
| 311711<br>311712 | packaging<br>Seafood canning<br>Fresh & frozen         | 1<br>3 | 120<br>27  | 78<br>10                                  | 7 299<br>593        | 186 226<br>11 933    | 6 206<br>446 | 12 205<br>676    | 146 137<br>6 982   | 485 694<br>31 394                          | 686 284<br>40 290                 | 1 170 892<br>71 593                | 26 100<br>1 676                                 |
| 011/12           | seafood processing                                     | 1      | 93         | 68  | 6 706               | 174 293              | 5 760        | 11 529           | 139 155            | 454 300                                    | 645 994                           | 1 099 299                          | 24 424  |
| 3118<br>31181    | Bakeries & tortilla mfg<br>Bread & bakery product      | 1      | 254        | 52  | 6 776               | 185 047              | 3 639        | 7 008            | 89 899             | 511 514                                    | 411 019                           | 921 078                            | 30 694  |
| 311811           | mfg<br>Retail bakeries                                 | 2<br>5 | 219<br>136 | 38<br>5                                   | 5 403<br>f          | 146 032<br>D         | 2 689<br>D   | 5 313<br>D       | 69 568<br>D        | 314 451<br>D                               | 234 147<br>D                      | 549 458<br>D                       | 16 957<br>D                                     |
| 311812<br>311813 | Commercial bakeries .<br>Frozen cakes, pies, &         | 2      | 79         | 31  | 4 518               | 131 855              | 2 081        | 4 409            | 61 288             | 275 659                                    | 202 116                           | 477 359                            | 15 136  |
| 31182            | other pastries mfg<br>Cookie, cracker, & pasta         | -      | 4          | 2   | с                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 311821           | mfg  | -3     | 32<br>17   | 12<br>5                                   | g<br>f              | D<br>D               | D<br>D       | D<br>D           | D<br>D             | D  | D<br>D                            | D<br>D                             | D<br>3 294                                      |
| 311822           | Flour mixes & dough<br>mfg from purchased              |        |            |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
| 311823           | flour<br>Dry pasta mfg                                 | -      | 7<br>8     | 4<br>3                                    | 475<br>182          | 19 166<br>4 900      | 314<br>122   | 631<br>249       | 8 870<br>2 826     | 125 743<br>38 771                          | 121 680<br>19 117                 | 242 172<br>60 200                  | 9 363<br>D                                      |
| 31183<br>311830  | Tortilla mfg<br>Tortilla mfg                           | -      | 3          | 2   | c<br>c              | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 011000           |  | . –    | . 3        | . <u></u>                                 | C I                 |                      | U            | . 01             | D                  | . 01                                       |                                   |                                    | U   |

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

| Model         Docymptre annu ant hattyr         Final methods         Pinal matures         Pina   | and syn          |  |             | 4     |                        |                     |         |        |                |                    |                  |           |                  |   |
|--|------------------|--|-------------|-------|------------------------|---------------------|---------|--------|----------------|--------------------|------------------|-----------|------------------|---|
| 0.000         0.00000000000000000000000000000000000  |                  |  |             |       |                        | All emp             | oloyees | Pr     | oduction worke | ers                |                  |           |                  |   |
| 313         Interpretations         1         Point of continue         1         1         Point of continue         Point of contin         Point of contin  |                  | Geographic area and industry                           | E1          | Total | em-<br>ploy-<br>ees or | Number <sup>2</sup> |         | Number |                | Wages<br>(\$1,000) | manufacture      | materials | shipments        | Total capital<br>expendi-<br>tures<br>(\$1,000) |
| 1118<br>31180<br>31180<br>31180<br>31180<br>31180<br>31180<br>31180<br>31180<br>31180<br>31180<br>31180<br>31180<br>31180<br>31180<br>31180<br>31180<br>31180<br>30000000000   | 31-33            | Manufacturing-   |             |       |                        |                     |         |        |                |                    |                  |           |                  |   |
| 31310         Section definition of the section   |                  | e e  |             |       |                        |                     |         |        |                |                    |                  |           |                  |   |
| 111100         Cathe & Iun fing, inc.         i         1         3         e         D<   | 31191            | Snack food mfg   | -           | 6     | 3                      | 1 990<br>f<br>f     | D       | D      | D              | D<br>D             | D                | D         | D                | 14 178<br>D<br>D                                |
| ansate         ansate         ansate         b         b         b         c         b         b         c         b         c         b         c         b         c <thc< th=""> <thc< th="">         c        &lt;</thc<></thc<>   |                  | Coffee & tea mfg<br>Coffee & tea mfg                   | -           |       |                        |                     |         |        |                |                    |                  |           |                  | 429<br>429                                      |
| 311141         Montrealer, meaning, and a series of the series of th | 31194            |  | _           | 18    | 5                      | 376                 | 9 998   | 233    | 377            | 4 892              | 25 760           | 38 839    | 64 712           | 1 690   |
| 11199       All other load may interaction       2       35       a       44       44       10       500       151       5765       55       33       348       66       67       2         31199       And may interaction       a       12       a       22       4       204       307       161       202       265       13       206       15       206       15       206       15       206       15       206       15       206       16       20       4       4       4       4       30       307       16       206       15       16       20       20       16       20   |                  | Mayonnaise, dressing,<br>& other prepared<br>sauce mfg | 1           | 9     | 1                      | 146                 | 3 689   | 112    | 198            | 2 175              | 4 951            | 17 363    | 22 314           | 533   |
| 31199         Prestable present         1         1         1         2         1         2         1         2         1         2         1         2         1         2         2         4         2         1         2         2         2         4         2         2         4         2         3  |                  |  | 2           |       |                        |                     |         |        |                |                    |                  |           |                  | 1 157<br>2 486                                  |
| 31199         All other misuressimal         a         2         4         200         3 937         161         263         2 685         13 280         17 253         30 371           12         Perspect A blockom relation model         1         90         34         3003         90 496         1718         3101         44 772         646 70         647 70         640 70         640 70         640 70         640 70         640 70         640 70         640 70         640 70  |                  | Perishable prepared                                    | -           |       | -                      |                     |         |        |                |                    |                  |           |                  | 1 604   |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$  | 311999           | All other miscellaneous                                | 3           | 22    | 4                      | 204                 | 3 937   | 161    | 263            | 2 656              | 13 290           | 17 253    | 30 571           | 882   |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | 312              | Beverage & tobacco product                             | 1           | 99    | 34                     | 3 603               | 99 496  | 1 718  | 3 101          | 48 762             | 548 727          | 646 008   | 1 161 349        | 41 611  |
| 31213       bernfg.       -       8       2       103       2.124       40       96       83       3.40       1.647       5.483         31210       Breweires       1       34       13       1.360       32.821       663       1.265       20.018       117.7541       147.479       302.580       7         31213       Winners       -       -       38       4       f       D  |                  | Beverage mfg   | 1           | 99    | 34                     | 3 603               | 99 496  | 1 718  | 3 101          | 48 762             | 548 727          | 646 008   | 1 161 349        | 41 611  |
| 312120       Breweries       1       34       13       1 360       32 221       683       1 265       20 518       157       11       147       70       302 580       7         312131       Wineries       -       38       4       f       D <t< td=""><td>312111</td><td>Soft drink mfg</td><td>2<br/>2<br/>-</td><td>18</td><td>15</td><td>1 623</td><td>49 560</td><td>795</td><td>1 434</td><td>22 966</td><td>261 263</td><td>411 998</td><td>668 156</td><td>D<br/>13 245<br/>D</td></t<>   | 312111           | Soft drink mfg   | 2<br>2<br>- | 18    | 15                     | 1 623               | 49 560  | 795    | 1 434          | 22 966             | 261 263          | 411 998   | 668 156          | D<br>13 245<br>D                                |
| 31213       Owneries       -       -       38       44       f       D   |                  | BreweriesBreweries                                     |             |       |                        |                     |         |        |                |                    |                  |           |                  | 7 234<br>7 234                                  |
| 313       Textle mile       1       48       7       928       26       64       715       1       1033       19       362       62       171       121       1095       182.288       20         31321       Bunchwein tathe mile       1       16       2       383       18       12       333       641       12       638       34809       57.760       177.48       20005         31323       Demotive tathe mile       1       16       2       383       8 621       308       447       6 468       9 674       16 7.46       20005       39 663       61 7.43       39 663       61 7.43       39 663       61 7.43       39 663       61 7.43       39 663       61 7.43       39 663       61 7.43       39 673       39 673       44 7.6       46 80       22.001       39 663       61 7.43       30 7.53   |                  |  | -           |       |                        | f                   |         |        |                |                    |                  |           |                  | 20 653<br>20 653                                |
| 31321<br>31321       Broadworn habric mills<br>mills       1       16       2       388<br>388<br>38621       8621       308<br>308       447       6 468<br>6 468       9 874       16 746       28 020         31320<br>mills       moreoven fabric mills<br>to converve fabric mills<br>to converve fabric mills<br>to moreoven fabric mills<br>to moreoven fabric mills<br>to converve fabric mills<br>to moreoven fabric mills<br>to moreoven fabric mills<br>to converve fabric mills<br>to converve<br>to converve fabric mills<br>to converve<br>to converve fabric mills<br>to converve<br>to conv   |                  |  | 1           |       | 7                      | 928                 |         |        |                |                    |                  |           |                  | 20 508  |
| 313210       Brackwoven fabric       1       1       1       2       383       8       6       21       303       447       6       466       9       877       16       26       200         31323       Norwoven flabric milis       -       5       1       200       8       307       160       379       6       660       22       001       39       663       61743       33       33       225       6       728       140       20       28       4171       20       22       55       451       75       307       4         3132       Fabric coating mils       1       3       3       225       6       728       144       288       4       171       20       221       55       451       75       307         3141       Textle product milis       1       38       4       297       9       07       211       472       6       670       112       340       94       407       3096       141       141       141       141       141       141       141       141       141       141       141       141       141       141       141  |                  |  |             |       |                        |                     |         |        |                |                    |                  |           |                  | D<br>645  |
| 313230       Nonwork blue rulls       -       5       1       200       8 307       160       378       6 080       22 001       39 663       6 1743         31333       Textle & table rulls       1       17       3       225       6 726       149       286       4 171       20 221       55 451       75 307         31333       Textle & trainbing mils       1       177       29       2 173       54 031       1 677       3 167       32 500       112 340       94 470       206 308       4         31412       Textle writelings mils       1       38       4       297       9 057       211       477       3 167       32 500       112 340       94 470       206 308       4         31412       Textle writelings mils       1       30       2       c       D <t< td=""><td></td><td>Broadwoven fabric</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>645</td></t<>  |                  | Broadwoven fabric                                      |             |       |                        |                     |         |        |                |                    |                  |           |                  | 645   |
| 1332       Interface conting mills   |                  | Nonwoven fabric mills                                  | -           |       | 1<br>1                 |                     |         |        |                |                    |                  |           |                  | D<br>D  |
| 31320       Fabric coafing mils       -       -       3       3       225       6 726       149       288       4 171       20 221       55 451       77 5 97         314       Textile product mills       1       1       77       29       2 173       54 031       1 6 77       3 167       32 500       112 340       94 470       206 308       4         31412       Curtan & Iner mils       1       36       4       297       9 057       211       47 73       6 160       13 755       17 74       3 0 90       0       D  |                  | fabric coating mills                                   | 1           |       |                        |                     |         |        |                |                    |                  |           |                  | D   |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $  | 31332<br>313320  | Fabric coating mills<br>Fabric coating mills           | -           |       |                        |                     |         |        |                |                    | 20 221<br>20 221 |           | 75 307<br>75 307 | D<br>D  |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $  |                  |  |             |       |                        |                     |         |        |                |                    |                  |           |                  | 4 546   |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$   | 31412            | Curtain & linen mills                                  |             |       |                        |                     |         |        |                |                    |                  |           |                  | 332<br>D  |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$  |                  | mills  | 1           | 30    | 2                      | с                   | D       | D      | D              | D                  | D                | D         | D                | D   |
| 31491       Textile bag & carwas       1       7       13       1005       20       751       831       1463       13       686       42       600       35       012       43       593       1         314911       Textile bag mills       1       22       8       572       9       359       498       872       6       834       24       023       19       623       43       593       1         314912       Carvas & related       product mills       1       62       12       871       24       23       635       1       232       12       64       55       985       41       71       97       771       2         314991       All other textile product mills       4       50       6       441       977       296       633       7       290       37       897       27       394       65       401       1         314991       mills       mills       -       1       170       52       4       918       94       244       4       367       8       559       71       944       177       343       209       803       385       01       0 <td></td> <td>product mills</td> <td></td> <td>166</td>  |                  | product mills  |             |       |                        |                     |         |        |                |                    |                  |           |                  | 166   |
| 314911       Textile bag mils  |                  | Textile bag & canvas                                   |             |       |                        |                     |         |        |                |                    |                  |           |                  | 4 214<br>1 784                                  |
| product mils         3         55         5         433         11         392         333         591         6         852         18         577         15         389         34         038         1           31499         All other textile product<br>mills         1         62         12         871         24         223         635         1         232         12         664         55         985         41         71         97         771         2           31499         All other miscellaneous<br>textile product mills         -         12         6         430         14         977         290         378         97         27         394         665         401         1           31499         All other miscellaneous<br>textile product mills         -         1         170         52         4         918         94         244         4         367         8         559         71         944         177         34         209         803         385         016         4           3151         Apparel hriting mills         7         6         2         138         2 976         124         291         2 152         6 030         2 176<   | 314911<br>314912 | Textile bag mills                                      |             | 22    |                        |                     | 9 359   |        | 872            | 6 834              | 24 023           | 19 623    | 43 593           | 426   |
| mills         mills <th< td=""><td></td><td>product mills</td><td>3</td><td>55</td><td>5</td><td>433</td><td>11 392</td><td>333</td><td>591</td><td>6 852</td><td>18 577</td><td>15 389</td><td>34 038</td><td>1 358</td></th<>  |                  | product mills  | 3           | 55    | 5                      | 433                 | 11 392  | 333    | 591            | 6 852              | 18 577           | 15 389    | 34 038           | 1 358   |
| 314999         Intermise         -         12         6         430         14 977         296         633         7 290         37 897         27 394         65 401         1           314999         All other miscellances         4         50         6         441         9 246         339         599         5 374         18 088         14 321         32 370           315         Apparel mfg         1         170         52         4 918         94 244         4 367         8 559         71 944         177 343         209 803         385 016         4           3151         Apparel knitting mills         7         6         2         138         2 976         124         291         2 152         6 030         2 176         8 205           31519         Outer apparel knitting mills         7         6         2         138         2 976         124         291         2 152         6 030         2 176         8 205           31521         Cut & sew apparel mfg         1         128         43         4 385         82 178         3 910         7 560         63 365         155 990         195 086         349 225         3           31521         Men's & boys'cut &  |                  | mills  | 1           | 62    | 12                     | 871                 | 24 223  | 635    | 1 232          | 12 664             | 55 985           | 41 715    | 97 771           | 2 430   |
| textile product mills       4       50       6       441       9 246       339       599       5 374       18 088       14 321       32 370         315       Apparel mfg       1       170       52       4 918       94 244       4 367       8 559       71 944       177 343       209 803       385 016       4         3151       Apparel mfg       7       6       2       138       2 976       124       291       2 152       6 030       2 176       8 205         315191       Outerwear knitting mills  |                  | twine mills  | -           | 12    | 6                      | 430                 | 14 977  | 296    | 633            | 7 290              | 37 897           | 27 394    | 65 401           | 1 709   |
| Apparet knitting mills       7       6       2       138       2 976       124       291       2 152       6 030       2 176       8 205         31519       Other apparet knitting<br>mills       7       6       2       138       2 976       124       291       2 152       6 030       2 176       8 205         315191       Outerwark knitting<br>mills       7       6       2       138       2 976       124       291       2 152       6 030       2 176       8 205         315191       Outerwark knitting<br>mills       7       6       2       138       2 976       124       291       2 152       6 030       2 176       8 205         31521       Cut & sew apparel<br>contractors       1       128       43       4 385       82 178       3 910       7 560       63 365       155 990       195 086       349 225       3         31521       Men's & boys' cut &<br>sew apparel       2       62       21       1 859       29 630       1 770       3 312       26 482       48 751       9 035       57 702         315212       Men's & boys' cut &<br>sew apparel contractors       -       17       15       1 219       20 128       1 164       2 259       <   |                  | textile product mills                                  |             |       |                        |                     |         |        |                |                    |                  |           |                  | 721   |
| 31519       Other apparel knitting<br>mills       7       6       2       138       2 976       124       291       2 152       6 030       2 176       8 205         315191       Outerwear knitting<br>mills       7       6       2       138       2 976       124       291       2 152       6 030       2 176       8 205         31521       Cut & sew apparel<br>contractors       1       128       4 385       82 178       3 910       7 560       63 365       155 990       195 086       349 225       3         31521       Men's & boys' cut &<br>sew apparel<br>contractors       2       62       21       1 859       29 630       1 770       3 312       26 482       48 751       9 035       57 702         31521       Men's & boys' cut &<br>sew apparel<br>contractors       -       17       15       1 219       20 128       1 164       2 259       18 366       32 364       4 464       36 821         315212       Womer's, girls, &<br>infants' cut & sew<br>apparel contractors       5       45       6       640       9 502       606       1 053       8 116       16 387       4 571       20 881         31522       Men's & boys' cut &<br>sew trouser, slack, &<br>igan mfg       -       20       9   |                  |  |             |       |                        |                     |         |        |                |                    |                  |           |                  | 4 142<br>111                                    |
| 315191       Outerwear knitting<br>mills       7       6       2       138       2 976       124       291       2 152       6 030       2 176       8 205         31521       Cut & sew apparel mfg       1       128       4 385       82 178       3 910       7 560       63 365       155 990       195 086       349 225       3         31521       Men's & boys' cut &<br>sew apparel<br>contractors       2       62       21       1 859       29 630       1 770       3 312       26 482       48 751       9 035       57 702         315212       Men's & boys' cut &<br>sew apparel<br>contractors       -       17       15       1 219       20 128       1 164       2 259       18 366       32 364       4 464       36 821         315212       Women's, girls', &<br>infants' cut & sew<br>apparel contractors       -       17       15       1 219       20 128       1 164       2 259       18 366       32 364       4 464       36 821         315212       Women's, girls', &<br>infants' cut & sew<br>apparel contractors       -       7       6       640       9 502       606       1 053       8 116       16 387       4 571       20 881         31522       Men's & boys' cut &<br>sew trouser, slack, &<br>igan mfg       - <td>31519</td> <td>Other apparel knitting mills</td> <td></td> <td>111</td>   | 31519            | Other apparel knitting mills                           |             |       |                        |                     |         |        |                |                    |                  |           |                  | 111   |
| 31521       Cut & sew apparel<br>contractors       2       62       21       1       859       29       630       1       770       3       312       26       48       751       9       035       57       702         315211       Men's & boys' cut &<br>sew apparel       -       -       17       15       1       219       20       128       1       164       2       259       18       366       32       364       4       464       36       821         315212       Women's, girls', &<br>infants' cut & sew<br>apparel contractors       -       17       15       1       219       20       128       1       164       2       259       18       366       32       364       4       464       36       821         315212       Women's, girls', &<br>infants' cut & sew<br>apparel contractors       5       45       6       640       9       502       606       1       053       8       116       16       387       4       571       20       881         315224       Men's & boys' cut &<br>sew trouser, slack, &<br>igen mfg       -       2       1       c       D       D       D       D       D       D       D <t< td=""><td>315191</td><td></td><td>7</td><td>6</td><td>2</td><td>138</td><td>2 976</td><td>124</td><td>291</td><td>2 152</td><td>6 030</td><td>2 176</td><td>8 205</td><td>111</td></t<>  | 315191           |  | 7           | 6     | 2                      | 138                 | 2 976   | 124    | 291            | 2 152              | 6 030            | 2 176     | 8 205            | 111   |
| 315211       Men's & boys' cut & sew apparel       2       62       21       1       859       29       630       1       770       3       312       26       482       48       751       9       035       57       702         315211       Men's & boys' cut & sew apparel       -       17       15       1       219       20       128       1       164       2       259       18       366       32       364       4       464       36       821         315212       Women's, girls', & infants' cut & sew apparel contractors       -       17       15       1       219       20       128       1       164       2       259       18       366       32       364       4       464       36       821         315212       Men's & boys' cut & sew apparel mg   |                  |  | 1           | 128   | 43                     | 4 385               | 82 178  | 3 910  | 7 560          | 63 365             | 155 990          | 195 086   | 349 225          | 3 162   |
| 315212       Women's, girls', & infants' cut & sew apparel contractors       5       45       6       640       9 502       606       1 053       8 116       16 387       4 571       20 881         31522       Men's & boys' cut & sew apparel mg   |                  | contractors<br>Men's & boys' cut &<br>sew apparel      | 2           |       |                        |                     |         |        |                |                    |                  |           |                  | 957   |
| 31522     Men's & boys' cut & sew<br>apparel mig   | 315212           | Women's, girls', &<br>infants' cut & sew               | - 5         |       |                        |                     |         |        |                |                    |                  |           |                  | 462<br>495                                      |
| 315224     Men's & boys' cut & sew trouser, slack, & jean mfg  | 31522            | Men's & boys' cut & sew                                |             |       |                        |                     |         |        |                |                    |                  |           |                  |   |
| 315228 Men's & boys' cut &   | 315224           | Men's & boys' cut &<br>sew trouser, slack, &           | _           |       | -                      |                     |         |        |                |                    |                  |           |                  | 1 010<br>D                                      |
| sew other outer wear mfg – 16 7 886 23 573 721 1 478 15 453 37 174 79 519 118 347  | 315228           | Men's & boys' cut &<br>sew other outerwear             | _           |       |                        |                     |         |        |                |                    |                  |           |                  |   |

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

|                  |   |          |            | All                                       | All emp             | oloyees              | Pr             | oduction work    | ers                |  |                                   |                                    |   |
|------------------|---|----------|------------|---|---------------------|----------------------|----------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code    | Geographic area and industry  | E1       | Total      | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number         | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                  | WASHINGTON-Con.   |          |            |   |                     |                      |                |                  | ,                  |  |                                   |                                    |   |
| 31-33            | Manufacturing—<br>Con.  |          |            |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 315              | Apparel mfg—Con.  |          |            |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 3152             | Cut & sew apparel mfg-  |          |            |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 31523<br>315234  | Con.<br>Women's & girls' cut &<br>sew apparel mfg<br>Women's & girls' cut & | -        | 28         | 10  | 1 153               | 22 009               | 1 002          | 2 078            | 16 199             | 60 778                                     | 94 148                            | 151 471                            | 768   |
| 315239           | sew suit, coat, skirt<br>mfg<br>Women's & girls' cut &                      | -        | 5          | 1   | с                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 105   |
| 515255           | sew other outerwear<br>mfg  | -        | 11         | 6   | 854                 | 16 054               | 757            | 1 621            | 12 484             | 46 589                                     | 62 595                            | 107 590                            | 607   |
| 31529            | Other cut & sew apparel   |          |            |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 315299           | mfg<br>All other cut & sew  | 6        | 18         | 3   | 290                 | 4 056                | 233            | 403              | 2 797              | 7 355                                      | 6 286                             | 13 467                             | 427   |
|                  | apparel mfg   | 6        | 14         | 2   | 239                 | 3 196                | 193            | 330              | 2 119              | 5 401                                      | 2 807                             | 8 077                              | 384   |
| 3159             | Apparel accessories & other apparel mfg                                     | 1        | 36         | 7   | 395                 | 9 090                | 333            | 708              | 6 427              | 15 323                                     | 12 541                            | 27 586                             | 869   |
| 31599            | Apparel accessories & other apparel mfg                                     | 1        | 36         | 7   | 395                 | 9 090                | 333            | 708              | 6 427              | 15 323                                     | 12 541                            | 27 586                             | 869   |
| 315992<br>315999 | Glove & mitten mfg<br>Other apparel   | -        | 4          | 3   | 125                 | 2 268                | 108            | 210              | 1 854              | 2 049                                      | 5 125                             | 7 395                              | 28  |
|                  | accessories & other apparel mfg   | 1        | 26         | 3   | 227                 | 6 005                | 193            | 420              | 4 093              | 11 587                                     | 6 641                             | 17 758                             | 816   |
| 316              | Leather & allied product mfg .  | _        | 31         | 7   | 775                 | 15 117               | 556            | 1 065            | 9 256              | 78 350                                     | 66 749                            | 140 457                            | 1 072   |
| 3162             | Footwear mfg  | 1        | 4          | 1   | с                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 31621<br>316213  | Footwear mfg<br>Men's footwear<br>(except athletic) mfg .                   | 1        | 4          | 1   | c<br>c              | D<br>D               | D              | D<br>D           | D                  | D  | D<br>D                            | D                                  | D   |
| 3169             | Other leather & allied  |          |            |   | 500                 |                      |                |                  | 0.007              | 00.050                                     | 50.000                            | 404 700                            |   |
| 31699            | Other leather & allied  | -        | 23         | 6   | 599                 | 11 281               | 418            | 803              | 6 627              | 69 853                                     | 59 300                            | 124 726                            | 770   |
| 316991           | product mfg<br>Luggage mfg  | _        | 23<br>8    | 6<br>4                                    | 599<br>389          | 11 281<br>7 022      | 418<br>266     | 803<br>490       | 6 627<br>4 215     | 69 853<br>61 507                           | 59 300<br>49 081                  | 124 726<br>105 468                 | 770<br>346                                      |
| 321              | Wood product mfg  | 1        | 589        | 216                                       | 22 196              | 647 891              | 18 817         | 38 246           | 502 998            | 1 451 407                                  | 2 993 752                         | 4 415 151                          | 165 094   |
| 3211             | Sawmills & wood preservation  | 1        | 201        | 84  | 10 271              | 344 373              | 8 863          | 18 762           | 276 444            | 830 562                                    | 1 877 382                         | 2 681 775                          | 121 171   |
| 32111            | Sawmills & wood<br>preservation   | 1        | 201        | 84  | 10 271              | 344 373              | 8 863          | 18 762           | 276 444            | 830 562                                    | 1 877 382                         | 2 681 775                          | 121 171   |
| 321113<br>321114 | Sawmills  | i<br>  - | 189<br>12  | 74<br>10                                  | 9 664<br>607        | 325 194<br>19 179    | 8 389<br>474   | 17 837<br>925    | 263 857<br>12 587  | 759 440<br>71 122                          | 1 740 864<br>136 518              | 2 472 190<br>209 585               | 119 938<br>1 233                                |
| 3212             | Veneer, plywood, &<br>engineered wood product<br>mfg                        | _        | 82         | 47  | 4 214               | 118 245              | 3 483          | 7 202            | 91 312             | 221 450                                    | 462 887                           | 685 219                            | 16 005  |
| 32121            | Veneer, plywood, &<br>engineered wood<br>product mfg                        | _        | 82         | 47  | 4 214               | 118 245              | 3 483          | 7 202            | 91 312             | 221 450                                    | 462 887                           | 685 219                            | 16 005  |
| 321211           | Hardwood veneer & plywood mfg   | _        | 5          | 3   | 578                 | 14 807               | 496            | 1 069            | 11 188             | 22 488                                     | 50 252                            | 70 488                             | 2 033   |
| 321212<br>321213 | Softwood veneer &<br>plywood mfg<br>Engineered wood                         | -        | 17         | 14  | 1 899               | 60 239               | 1 704          | 3 618            | 52 256             | 95 942                                     | 282 329                           | 382 361                            | 7 309   |
| 321214           | member (except<br>truss) mfg<br>Truss mfg                                   | -2       | 3<br>48    | 3<br>23                                   | 156<br>1 156        | 3 473<br>27 555      | 124<br>808     | 268<br>1 518     | 2 723<br>16 002    | 8 474<br>57 463                            | 18 340<br>53 975                  | 26 810<br>111 366                  | 537<br>1 917                                    |
| 321219           | Reconstituted wood<br>product mfg   | -        | 9          | 4   | 425                 | 12 171               | 351            | 729              | 9 143              | 37 403                                     | 57 991                            | 94 194                             | 4 209   |
| 3219<br>32191    | Other wood product mfg<br>Millwork  | 1<br>1   | 306<br>147 | 85<br>53                                  | 7 711<br>4 760      | 185 273<br>120 795   | 6 471<br>4 104 | 12 282<br>8 228  | 135 242<br>93 900  | 399 395<br>271 612                         | 653 483<br>462 078                | 1 048 157<br>730 571               | 27 918<br>22 966                                |
| 321911<br>321912 | Wood window & door<br>mfg<br>Cut stock, resawing                            | 1        | 65         | 23  | 2 164               | 56 785               | 1 815          | 3 506            | 42 644             | 122 742                                    | 173 001                           | 296 270                            | 3 742   |
|                  | lumber, & planing   | -        | 50         | 21  | 1 818               | 43 854               | 1 651          | 3 348            | 37 211             | 109 225                                    | 228 188                           | 334 470                            | 14 814  |
| 321918           | Other millwork<br>(including flooring)                                      | 2        | 32         | 9   | 778                 | 20 156               | 638            | 1 374            | 14 045             | 39 645                                     | 60 889                            | 99 831                             | 4 410   |
| 32192            | Wood container & pallet<br>mfg  | _        | 47         | 14  | 914                 | 18 122               | 752            | 1 307            | 11 986             | 31 919                                     | 50 906                            | 81 871                             | 1 562   |
| 321920           | Wood container & pallet mfg   | -        | 47         | 14  | 914                 | 18 122               | 752            | 1 307            | 11 986             | 31 919                                     | 50 906                            | 81 871                             | 1 562   |
| 32199            | All other wood product  |          | 110        | 40  | 0.007               | 46 050               | 1 015          | 0 747            | 00.050             | 05.004                                     | 140 400                           | 005 745                            | 0.000   |
| 321991           | mfg<br>Manufactured home<br>(mobile home) mfg                               | 1        | 112<br>6   | 18<br>4                                   | 2 037<br>889        | 46 356<br>23 283     | 1 615<br>718   | 2 747<br>1 202   | 29 356<br>13 679   | 95 864<br>45 448                           | 140 499<br>62 697                 | 235 715<br>108 781                 | 3 390<br>550                                    |
| 321992           | (mobile home) mfg<br>Prefabricated wood<br>building mfg                     | 4        | 35         | 4   | 432                 | 23 283<br>9 006      | 302            | 523              | 5 233              | 45 448<br>21 140                           | 62 697<br>23 995                  | 45 157                             | 1 346   |
| 321999           | All other miscellaneous<br>wood product mfg                                 |          |            | 10  | 716                 | 9 008<br>14 067      | 595            | 1 022            | 10 444             |  | 23 995<br>53 807                  | 43 137<br>81 777                   | 1 346   |
|                  | wood product mig  | . 2      | . /1       | . 101                                     | /101                | 14 00/1              | 595            | 1 0221           | 10 444             | 29 210                                     | 55 607 1                          | 01 ///                             | 1 494   |

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|                  |  |                |                  | All<br>shments                            | All emp             | oloyees                   | Pr                | oduction work         | ers                       |  |                                   |                                    |   |
|------------------|--|----------------|------------------|---|---------------------|---------------------------|-------------------|-----------------------|---------------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code    | Geographic area and industry                             | E <sup>1</sup> | Total            | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000)      | Number            | Hours<br>(1,000)      | Wages<br>(\$1,000)        | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                  | WASHINGTON-Con.  |                |                  |   |                     |                           |                   |                       |                           |  |                                   |                                    |   |
| 31-33            | Manufacturing—<br>Con.                                   |                |                  |   |                     |                           |                   |                       |                           |  |                                   |                                    |   |
| 322              | Paper mfg  | -              | 118              | 80  | 14 958              | 675 477                   | 11 585            | 23 522                | 489 160                   | 2 167 824                                  | 2 565 769                         | 4 719 501                          | 320 206   |
| 3221             | Pulp, paper, & paperboard mills                          | _              | 19               | 19  | 9 941               | 499 157                   | 7 865             | 16 148                | 372 453                   | 1 684 370                                  | 1 794 241                         | 3 464 778                          | 266 004   |
| 32211<br>322110  | Pulp mills<br>Pulp mills                                 | -              | 2<br>2           | 2<br>2                                    | e<br>e              | D<br>D                    | D<br>D            | D<br>D                | D<br>D                    | D  | D<br>D                            | D<br>D                             | D<br>D  |
| 32212<br>322121  | Paper mills<br>Paper (except                             | -              | 12               | 12  | 6 229               | 305 523                   | 5 094             | 10 462                | 233 573                   | 1 267 987                                  | 1 211 213                         | 2 452 478                          | D   |
| 322122           | newsprint) mills<br>Newsprint mills                      | -              | 7<br>5           | 7<br>5                                    | 4 830<br>1 399      | 220 534<br>84 989         | 4 028<br>1 066    | 8 135<br>2 327        | 171 442<br>62 131         | 841 508<br>426 479                         | 763 911<br>447 302                | 1 578 092<br>874 386               | 108 021<br>D                                    |
| 32213<br>322130  | Paperboard mills<br>Paperboard mills                     | -              | 5<br>5           | 5<br>5                                    | h<br>h              | D<br>D                    | D<br>D            | D<br>D                | D<br>D                    | D<br>D                                     | D<br>D                            | D<br>D                             | 119 460<br>119 460                              |
| 3222             | Converted paper product                                  | _              | 99               | 61  | 5 017               | 176 320                   | 3 720             | 7 374                 | 116 707                   | 483 454                                    | 771 528                           | 1 254 723                          | 54 202  |
| 32221<br>322211  | Paperboard container<br>mfg<br>Corrugated & solid        | -              | 42               | 36  | 2 957               | 111 841                   | 2 207             | 4 505                 | 75 306                    | 241 773                                    | 473 985                           | 713 971                            | 38 748  |
| 322211           | fiber box mfg<br>Folding paperboard                      | -              | 27               | 22  | 2 043               | 79 886                    | 1 513             | 3 079                 | 52 611                    | 170 188                                    | 364 755                           | 532 852                            | 28 967  |
| 322214           | box mfg<br>Fiber can, tube, drum,                        | -              | 7                | 7   | 540                 | 18 589                    | 395               | 841                   | 12 593                    | 38 153                                     | 50 553                            | 88 897                             | 3 691   |
| 322215           | & similar products<br>mfg<br>Nonfolding sanitary         | -              | 3                | 3   | с                   | D                         | D                 | D                     | D                         | D  | D                                 | D                                  | D   |
|                  | food container mfg                                       | -              | 2                | 1   | с                   | D                         | D                 | D                     | D                         | D  | D                                 | D                                  | D   |
| 32222            | Paper bag & coated & treated paper mfg                   | _              | 19               | 8   | 842                 | 28 393                    | 678               | 1 322                 | 20 210                    | 80 715                                     | 164 709                           | 245 993                            | 9 255   |
| 322222<br>322224 | Coated & laminated<br>paper mfg<br>Uncoated paper &      | 2              | 11               | 3   | с                   | D                         | D                 | D                     | D                         | D  | D                                 | D                                  | 5 850   |
| 02222            | multiwall bag mfg  | -              | 5                | 4   | 587                 | 18 072                    | 491               | 934                   | 13 199                    | 46 993                                     | 46 984                            | 93 084                             | D   |
| 32223<br>322232  | Stationery product mfg<br>Envelope mfg                   | 1<br>2         | 18<br>8          | 8<br>6                                    | 656<br>502          | 18 442<br>13 878          | 414<br>302        | 827<br>588            | 11 161<br>8 596           | 47 474<br>35 463                           | 57 211<br>30 198                  | 104 397<br>64 576                  | 1 637<br>1 229                                  |
| 32229            | Other converted paper product mfg                        | _              | 20               | 9   | 562                 | 17 644                    | 421               | 720                   | 10 030                    | 113 492                                    | 75 623                            | 190 362                            | 4 562   |
| 322291           | Sanitary paper product                                   | -              | 1                | 1   | с                   | D                         | D                 | D                     | D                         | D  | D                                 | D                                  | D   |
| 322299           | All other converted<br>paper product mfg                 | -              | 19               | 8   | е                   | D                         | D                 | D                     | D                         | D  | D                                 | D                                  | D   |
| 323              | Printing & related support<br>activities                 | 2              | 857              | 135                                       | 11 735              | 357 586                   | 7 935             | 13 996                | 208 415                   | 726 131                                    | 412 978                           | 1 140 940                          | 53 337  |
| 3231<br>32311    | Printing & related support<br>activities<br>Printing     | 2              | 857<br>780       | 135<br>120                                | 11 735<br>10 544    | 357 586<br>311 132        | 7 935<br>7 074    | 13 996<br>12 296      | 208 415<br>179 689        | 726 131<br>630 598                         | 412 978<br>397 353                | 1 140 940<br>1 030 185             | 53 337<br>50 030                                |
| 323110           | Commercial<br>lithographic printing                      | 2              | 362              | 69  | 5 834               | 188 620                   | 3 794             | 7 069                 | 106 768                   | 359 936                                    | 229 161                           | 589 715                            | 34 696  |
| 323112<br>323113 | Commercial<br>flexographic printing<br>Commercial screen | -              | 12               | 7   | 302                 | 9 738                     | 161               | 309                   | 4 251                     | 14 639                                     | 12 455                            | 27 018                             | 707   |
| 323114<br>323115 | printing<br>Quick printing<br>Digital printing           | 3<br>1<br>4    | 105<br>179<br>14 | 12<br>8<br>3                              | 907<br>1 121<br>152 | 19 938<br>26 858<br>3 713 | 636<br>798<br>111 | 1 033<br>1 252<br>180 | 10 976<br>17 399<br>2 187 | 43 433<br>58 172<br>7 646                  | 28 065<br>29 682<br>3 297         | 71 560<br>87 725<br>10 827         | 2 792<br>4 715<br>641                           |
| 323116           | Manifold business form<br>printing                       | -              | 19               | 11  | 911                 | 29 936                    | 694               | 1 158                 | 20 127                    | 86 035                                     | 43 119                            | 129 824                            | 3 521   |
| 323117<br>323119 | Book printing<br>Other commercial<br>printing            | 4              | 10<br>71         | 4   | 774<br>489          | 17 890<br>12 723          | 491<br>347        | 558<br>639            | 9 140<br>7 801            | 25 686<br>30 137                           | 26 760<br>23 578                  | 54 185<br>53 206                   | 1 147<br>1 740                                  |
| 32312            | Support activities for                                   |                |                  |   |                     |                           | -                 |                       |                           |  |                                   |                                    |   |
| 323121           | printing<br>Tradebinding & related                       | -              | 77               | 15  | 1 191               | 46 454                    | 861               | 1 700                 | 28 726                    | 95 533                                     | 15 625                            | 110 755                            | 3 307   |
| 323122           | work<br>Prepress services                                | -              | 28<br>49         | 7<br>8                                    | 366<br>825          | 9 702<br>36 752           | 294<br>567        | 548<br>1 152          | 6 374<br>22 352           | 17 439<br>78 094                           | 2 640<br>12 985                   | 20 056<br>90 699                   | 704<br>2 603                                    |
| 324              | Petroleum & coal products<br>mfg                         | -              | 31               | 16  | 2 185               | 115 743                   | 1 320             | 3 195                 | 64 959                    | 820 860                                    | 4 573 547                         | 5 393 828                          | 83 370  |
| 3241             | Petroleum & coal products<br>mfg                         | -              | 31               | 16  | 2 185               | 115 743                   | 1 320             | 3 195                 | 64 959                    | 820 860                                    | 4 573 547                         | 5 393 828                          | 83 370  |
| 32411<br>324110  | Petroleum refineries<br>Petroleum refineries             | -              | 8<br>8           | 7<br>7                                    | 1 675<br>1 675      | 99 031<br>99 031          | 974<br>974        | 2 471<br>2 471        | 53 638<br>53 638          | 734 550<br>734 550                         | 4 468 411<br>4 468 411            | 5 202 126<br>5 202 126             | 79 152<br>79 152                                |
| 32412            | Asphalt paving, roofing,<br>& saturated materials        |                |                  | _   |                     |                           |                   |                       | 0 705                     | 75 00.                                     | 01 055                            |                                    | -   |
| 324121           | mfg<br>Asphalt paving mixture<br>& block mfg             | 1              | 17<br>14         | 7<br>5                                    | 434<br>c            | 14 359<br>D               | 285<br>D          | 611<br>D              | 9 720<br>D                | 75 881<br>D                                | 81 259<br>D                       | 157 410<br>D                       | D   |
| 324122           | Asphalt shingle &<br>coating materials                   |                |                  |   |                     |                           |                   |                       |                           |  |                                   |                                    |   |
|                  | mfg  |                | 3                | 2   | с                   | D                         | D                 | D                     | D                         | D  | D                                 | D                                  | D   |

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

|                         |  |             |                | All<br>shments                            | All emp             | bloyees                    | Pr                | oduction work       | ers                      |  |                                   |                                    |   |
|-------------------------|--|-------------|----------------|---|---------------------|----------------------------|-------------------|---------------------|--------------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code           | Geographic area and industry                                   | E1          | Total          | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000)       | Number            | Hours<br>(1,000)    | Wages<br>(\$1,000)       | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                         | WASHINGTON-Con.  |             |                |   |                     |                            |                   |                     |                          |  |                                   |                                    |   |
| 31-33                   | Manufacturing—<br>Con.   |             |                |   |                     |                            |                   |                     |                          |  |                                   |                                    |   |
| 325                     | Chemical mfg   | 1           | 230            | 70  | 5 558               | 256 202                    | 3 154             | 7 154               | 115 145                  | 965 184                                    | 922 457                           | 1 891 543                          | 93 475  |
| 3251<br>32512<br>325120 | Basic chemical mfg<br>Industrial gas mfg<br>Industrial gas mfg | -<br>1<br>1 | 45<br>12<br>12 | 17<br>3<br>3                              | 1 898<br>169<br>169 | 104 687<br>7 550<br>7 550  | 1 092<br>64<br>64 | 2 631<br>150<br>150 | 51 705<br>2 501<br>2 501 | 423 807<br>50 514<br>50 514                | 294 336<br>15 661<br>15 661       | 733 861<br>66 156<br>66 156        | 49 669<br>12 720<br>12 720                      |
| 32518                   | Other basic inorganic chemical mfg                             | _           | 19             | 8   | 1 365               | 79 089                     | 815               | 2 008               | 39 444                   | 266 054                                    | 194 710                           | 476 009                            | 29 481  |
| 325181                  | Alkalies & chlorine<br>mfg                                     | _           | 2              | 2   | c                   | D                          | D                 | _ 000               | D                        | D  | D                                 | D                                  | D   |
| 325188                  | All other basic<br>inorganic chemical<br>mfg                   | _           | 17             | 6   | g                   | D                          | D                 | D                   | D                        | D  | D                                 | D                                  | D   |
| 32519                   | Other basic organic  |             |                |   |                     |                            |                   |                     |                          |  |                                   |                                    |   |
| 325199                  | chemical mfg<br>All other basic organic<br>chemical mfg        | 1           | 14<br>9        | 6   | 364<br>334          | 18 048<br>16 596           | 213<br>191        | 473<br>425          | 9 760<br>8 880           | 107 239<br>95 320                          | 83 965<br>72 283                  | 191 696<br>167 885                 | 7 468<br>D                                      |
| 3252                    | Resin, syn rubber, &   | 2           | 5              |   | 004                 | 10 330                     | 131               | 423                 | 0.000                    | 33 320                                     | 72 200                            | 107 000                            |   |
|                         | artificial & syn fibers & filaments mfg                        | 1           | 14             | 3   | 179                 | 5 374                      | 141               | 263                 | 3 451                    | 22 052                                     | 18 707                            | 41 222                             | 2 386   |
| 32521                   | Resin & synthetic rubber mfg                                   | 1           | 13             | 3   | с                   | D                          | D                 | D                   | D                        | D  | D                                 | D                                  | D   |
| 325211                  | Plastics material & resin mfg                                  | -           | 7              | 3   | 160                 | 4 761                      | 128               | 243                 | 3 051                    | 19 809                                     | 15 056                            | 35 334                             | D   |
| 3253                    | Pesticide, fertilizer, & other agricultural chemical mfg.      | 2           | 27             | 8   | 540                 | 21 265                     | 375<br>338        | 875<br>804          | 12 944                   | 104 165                                    | 237 817                           | 330 909                            | 5 434<br>4 648                                  |
| 32531<br>325312         | Fertilizer mfg<br>Phosphatic fertilizer<br>mfg                 | 1           | 18<br>2        | 7   | 472<br>c            | 19 275<br>D                | 338<br>D          | 804<br>D            | 12 050<br>D              | 93 691<br>D                                | 230 585<br>D                      | 312 900<br>D                       | 4 648<br>D                                      |
| 325314                  | Fertilizer (mixing only)<br>mfg                                | 3           | 13             | 5   | e                   | D                          | D                 | D                   | D                        | D  | D                                 | D                                  | 2 429   |
| 3254                    | Pharmaceutical & medicine mfg                                  | 1           | 30             | 12  | 1 243               | 61 928                     | 741               | 1 810               | 21 933                   | 143 745                                    | 105 030                           | 243 927                            | 22 935  |
| 32541                   | Pharmaceutical & medicine mfg                                  | 1           | 30             | 12  | 1 243               | 61 928                     | 741               | 1 810               | 21 933                   | 143 745                                    | 105 030                           | 243 927                            | 22 935  |
| 325412                  | Pharmaceutical preparation mfg                                 | 2           | 8              | 1   | 109                 | 5 441                      | 57                | 105                 | 2 109                    | 18 150                                     | 7 422                             | 25 625                             | 2 002   |
| 325413<br>325414        | In-vitro diagnostic<br>substance mfg                           | 3           | 6              | 2   | 141                 | 6 239                      | 56                | 67                  | 1 402                    | 20 492                                     | 7 162                             | 26 039                             | D   |
| 323414                  | Biological product<br>(except diagnostic)<br>mfg               | _           | 9              | 7   | 922                 | 47 673                     | 573               | 1 572               | 17 329                   | 99 342                                     | 83 768                            | 179 869                            | D   |
| 3255                    | Paint, coating, & adhesive mfg                                 | 1           | 44             | 15  | 959                 | 36 529                     | 404               | 802                 | 12 978                   | 119 168                                    | 144 961                           | 266 687                            | 7 050   |
| 32551<br>325510         | Paint & coating mfg<br>Paint & coating mfg                     | -           | 31<br>31       | 12<br>12                                  | 663<br>663          | 23 062<br>23 062<br>23 062 | 240<br>240        | 450<br>450          | 7 678<br>7 678           | 76 045<br>76 045                           | 98 750<br>98 750                  | 177 685<br>177 685                 | 3 467<br>3 467                                  |
| 32552<br>325520         | Adhesive mfg   | 3<br>3      | 13<br>13       | 3<br>3                                    | 296<br>296          | 13 467<br>13 467           | 164<br>164        | 352<br>352          | 5 300<br>5 300           | 43 123<br>43 123                           | 46 211<br>46 211                  | 89 002<br>89 002                   | 3 583<br>3 583                                  |
| 3256                    | Soap, cleaning compound,<br>& toilet preparation mfg           | 2           | 31             | 6   | 265                 | 7 894                      | 151               | 261                 | 3 647                    | 48 821                                     | 23 838                            | 72 935                             | 1 121   |
| 32561<br>325611         | Soap & cleaning<br>compound mfg<br>Soap & other                | 1           | 21             | 5   | 215                 | 7 028                      | 115               | 219                 | 3 147                    | 45 372                                     | 21 364                            | 67 004                             | 896   |
| 525011                  | detergent mfg  | 1           | 15             | 4   | 151                 | 5 306                      | 73                | 153                 | 2 256                    | 39 404                                     | 14 312                            | 53 784                             | 718   |
| 3259<br>32599           | Other chemical product<br>mfg<br>All other chemical            | 1           | 39             | 9   | 474                 | 18 525                     | 250               | 512                 | 8 487                    | 103 426                                    | 97 768                            | 202 002                            | 4 880   |
| 325998                  | product & preparation<br>mfg                                   | 1           | 35             | 6   | 395                 | 15 254                     | 210               | 412                 | 6 501                    | 94 943                                     | 87 400                            | 182 816                            | 4 559   |
| 323330                  | chemical product &<br>preparation mfg                          | 1           | 19             | 6   | 321                 | 13 092                     | 160               | 342                 | 5 298                    | 89 139                                     | 80 569                            | 170 093                            | 4 052   |
| 326                     | Plastics & rubber products<br>mfg                              | 1           | 268            | 120                                       | 11 604              | 322 101                    | 8 799             | 17 663              | 210 184                  | 796 329                                    | 816 293                           | 1 606 616                          | 111 112   |
| 3261<br>32611           | Plastics product mfg<br>Unsupported plastics                   | 1           | 236            | 110                                       | 10 999              | 306 629                    | 8 319             | 16 759              | 198 788                  | 755 794                                    | 790 431                           | 1 539 626                          | 109 321   |
| 326111                  | film, sheet, & bag mfg<br>Unsupported plastics<br>bag mfg      | -           | 16             | 7   | 1 303               | 40 298                     | 1 084             | 2 290               | 29 838                   | 98 790                                     | 179 748                           | 276 201                            | 13 568  |
| 326113                  | Unsupported plastics<br>film & sheet (except<br>packaging) mfg | _           | 6<br>10        | 3   | 742<br>561          | 19 826<br>20 472           | 634<br>450        | 1 247               | 14 595<br>15 243         | 44 606<br>54 184                           | 85 190<br>94 558                  | 128 368<br>147 833                 | 7 102<br>6 466                                  |
| 32612                   | Plastics pipe, pipe fitting,<br>& unsupported profile          |             |                |   |                     |                            |                   |                     |                          |  | 0.000                             |                                    |   |
| 326121                  | shape mfg<br>Unsupported plastics                              | -           | 28             | 11  | 1 203               | 34 639                     | 743               | 1 459               | 18 500                   | 98 947                                     | 109 517                           | 212 265                            | 23 857  |
| 326122                  | profile shape mfg<br>Plastics pipe & pipe<br>fitting mfg       | -           | 18             | 6   | 889                 | 24 374                     | 507               | 1 003               | 11 439                   | 70 740                                     | 55 891                            | 126 981                            | 21 274  |
| 32614                   | fitting mfg<br>Polystyrene foam                                |             | 10             | 5   | 314                 | 10 265                     | 236               | 456                 | 7 061                    | 28 207                                     | 53 626                            | 85 284                             | 2 583   |
| 32614                   | Product mfg<br>Polystyrene foam                                | 2           | 10             | 6   | 360                 | 10 393                     | 310               | 673                 | 7 879                    | 34 135                                     | 38 695                            | 71 969                             | 1 913   |
|                         | product mfg  | 2           | 10             | 6   | 360                 | 10 393                     | 310               | 673                 | 7 879                    | 34 135                                     | 38 695                            | 71 969                             | 1 913   |

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| and Syn                 | nbols, see introductory text]   |             | A             | AII .                                     | All omr             |                           | Dr                  | aduction work       | 070                       |  |                                   |                                    |   |
|-------------------------|---|-------------|---------------|---|---------------------|---------------------------|---------------------|---------------------|---------------------------|--|-----------------------------------|------------------------------------|---|
|                         |   |             | establis      | shments                                   | All emp             | noyees                    | PI                  | oduction work       | ers                       |  |                                   |                                    |   |
| NAICS                   | Geographic area and industry  | E1          | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000)      | Number              | Hours<br>(1,000)    | Wages<br>(\$1,000)        | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                         | WASHINGTON-Con.   |             |               |   |                     |                           |                     |                     |                           |  |                                   |                                    |   |
| 31-33                   | Manufacturing—<br>Con.  |             |               |   |                     |                           |                     |                     |                           |  |                                   |                                    |   |
| 326                     | Plastics & rubber products mfg-Con.                                   |             |               |   |                     |                           |                     |                     |                           |  |                                   |                                    |   |
| 3261<br>32615           | Plastics product mfg—Con.<br>Urethane & other foam<br>product (except |             |               |   |                     |                           |                     |                     |                           |  |                                   |                                    |   |
| 326150                  | polystyrene) mfg<br>Urethane & other foam<br>product (except          | -           | 9             | 4   | 486                 | 17 909                    | 373                 | 859                 | 11 211                    | 41 956                                     | 57 357                            | 99 494                             | 13 862  |
|                         | polystyrene) mfg  | -           | 9             | 4   | 486                 | 17 909                    | 373                 | 859                 | 11 211                    | 41 956                                     | 57 357                            | 99 494                             | 13 862  |
| 32616<br>326160         | Plastics bottle mfg<br>Plastics bottle mfg                            | 2<br>2      | 11<br>11      | 9<br>9                                    | 558<br>558          | 15 926<br>15 926          | 485<br>485          | 962<br>962          | 12 481<br>12 481          | 63 780<br>63 780                           | 68 111<br>68 111                  | 129 570<br>129 570                 | 18 612<br>18 612                                |
| 32619                   | Other plastics product<br>mfg   | 2           | 153           | 72  | 7 018               | 185 526                   | 5 284               | 10 456              | 117 975                   | 414 012                                    | 333 318                           | 742 254                            | 37 259  |
| 326191                  | Plastics plumbing<br>fixture mfg                                      | 1           | 13            | 4   | 334                 | 8 745                     | 274                 | 516                 | 6 541                     | 23 067                                     | 16 876                            | 40 117                             | 696   |
| 326199                  | All other plastics<br>product mfg                                     | 2           | 140           | 68  | 6 684               | 176 781                   | 5 010               | 9 940               | 111 434                   | 390 945                                    | 316 442                           | 702 137                            | 36 563  |
| 3262                    | Rubber product mfg  | 4           | 32            | 10  | 605                 | 15 472                    | 480                 | 904                 | 11 396                    | 40 535                                     | 25 862                            | 66 990                             | 1 791   |
| 32629                   | Other rubber product<br>mfg   | 4           | 24            | 10  | 524                 | 13 227                    | 410                 | 768                 | 9 467                     | 34 513                                     | 20 312                            | 55 267                             | 1 553   |
| 326299                  | All other rubber<br>product mfg                                       | 4           | 18            | 9   | 440                 | 11 226                    | 347                 | 659                 | 8 198                     | 31 221                                     | 17 683                            | 49 356                             | 1 445   |
| 327                     | Nonmetallic mineral product mfg                                       | -           | 334           | 101                                       | 7 776               | 259 024                   | 6 122               | 12 306              | 185 414                   | 726 850                                    | 611 020                           | 1 347 073                          | 65 717  |
| 3271                    | Clay product & refractory<br>mfg                                      | 4           | 48            | 8   | 574                 | 13 545                    | 455                 | 853                 | 8 987                     | 29 485                                     | 19 909                            | 49 952                             | 4 385   |
| 32711                   | Pottery, ceramics, &<br>plumbing fixture mfg                          | 4           | 35            | 3   | 224                 | 4 457                     | 180                 | 288                 | 2 833                     | 9 346                                      | 3 570                             | 13 154                             | 1 653   |
| 327112                  | Vitreous china, fine<br>earthenware, & other<br>pottery product mfg   | 2           | 34            | 2   | с                   | D                         | D                   | D                   | D                         | D  | D                                 | D                                  | D   |
| 32712                   | Clay building material & refractories mfg                             | 4           | 13            | 5   | 350                 | 9 088                     | 275                 | 565                 | 6 154                     | 20 139                                     | 16 339                            | 36 798                             | 2 732   |
| 327121                  | Brick & structural clay<br>tile mfg                                   | 9           | .0            | 3   | c                   | D                         | <br>D               | D                   | D                         | D  | D                                 | D                                  | D   |
| 3272                    | Glass & glass product mfg.  | _           | 74            | 17  | 2 442               | 71 764                    | 1 972               | 3 890               | 54 064                    | 211 124                                    | 140 468                           | 359 077                            | 30 581  |
| 32721                   | Glass & glass product   | _           | 74            | 17  | 2 442               | 71 764                    | 1 972               | 3 890               | 54 064                    | 211 124                                    | 140 468                           | 359 077                            | 30 581  |
| 327211<br>327212        | Flat glass mfg<br>Other pressed & blown<br>glass & glassware          | -           | 1<br>22       | 1   | c                   | D                         | D                   | D                   | D                         | D  | D                                 | D                                  | D   |
| 327213<br>327215        | mfg<br>Glass container mfg<br>Glass product mfg<br>made of purchased  | -           | 1             | 1   | c<br>f              | D                         | D<br>D              | D<br>D              | D                         | D  | D                                 | D<br>D                             | D   |
|                         | glass   | -           | 50            | 12  | 1 443               | 37 192                    | 1 122               | 2 199               | 25 939                    | 77 224                                     | 81 943                            | 158 744                            | 3 349   |
| 3273<br>32731<br>327310 | Cement & concrete product<br>mfg<br>Cement mfg<br>Cement mfg          |             | 176<br>8<br>8 | 68<br>3<br>3                              | 4 051<br>239<br>239 | 147 318<br>9 704<br>9 704 | 3 198<br>178<br>178 | 6 568<br>354<br>354 | 105 760<br>6 481<br>6 481 | 389 100<br>39 636<br>39 636                | 353 291<br>50 999<br>50 999       | 743 566<br>93 273<br>93 273        | 26 403<br>4 308<br>4 308                        |
| 32732                   | Ready-mix concrete mfg.   | _           | 89            | 37  | 2 121               | 81 814                    | 1 779               | 3 725               | 64 521                    | 214 472                                    | 195 494                           | 410 687                            | 13 179  |
| 327320                  | Ready-mix concrete mfg  | -           | 89            | 37  | 2 121               | 81 814                    | 1 779               | 3 725               | 64 521                    | 214 472                                    | 195 494                           | 410 687                            | 13 179  |
| 32733                   | Concrete pipe, brick, & block mfg                                     | 4           | 24            | 8   | 347                 | 11 477                    | 252                 | 479                 | 6 447                     | 27 378                                     | 21 187                            | 47 449                             | 1 790   |
| 327331                  | Concrete block & brick  | 5           | 17            | 6   | 213                 | 7 505                     | 158                 | 325                 | 4 614                     | 19 289                                     | 15 361                            | 33 567                             | 949   |
| 327332                  | Concrete pipe mfg   | 1           | 7             | 2   | 134                 | 3 972                     | 94                  | 154                 | 1 833                     | 8 089                                      | 5 826                             | 13 882                             | 841   |
| 32739                   | Other concrete product mfg  | 1           | 55            | 20  | 1 344               | 44 323                    | 989                 | 2 010               | 28 311                    | 107 614                                    | 85 611                            | 192 157                            | 7 126   |
| 327390                  | Other concrete product<br>mfg   | 1           | 55            | 20  | 1 344               | 44 323                    | 989                 | 2 010               | 28 311                    | 107 614                                    | 85 611                            | 192 157                            | 7 126   |
| 3274                    | Lime & gypsum product   |             |               |   |                     | _                         | _                   | _                   | _                         | _  | _                                 | _                                  |   |
| 32742<br>327420         | mfg   |             | 4<br>3<br>3   | 4<br>3<br>3                               | e<br>299<br>299     | D<br>14 041<br>14 041     | D<br>215<br>215     | D<br>429<br>429     | D<br>8 545<br>8 545       | D<br>64 604<br>64 604                      | D<br>67 437<br>67 437             | D<br>131 803<br>131 803            | 2 317<br>D<br>D                                 |
| 3279                    | Other nonmetallic mineral product mfg                                 | 3           | 30            | 4   | е                   |                           | п                   |                     | л                         | D  | D                                 | D                                  | 2 031   |
| 32791<br>327910         | Abrasive product mfg<br>Abrasive product mfg .                        | 3<br>1<br>1 | 32<br>5<br>5  | 4<br>2<br>2                               | e<br>c<br>c         | D<br>D<br>D               | D<br>D<br>D         | D<br>D<br>D         | D<br>D<br>D               | ם<br>ם                                     | D<br>D<br>D                       | D<br>D<br>D                        | 2 031<br>D<br>D                                 |
| 32799                   | All other nonmetallic mineral product mfg                             | 5           | 27            | 2   | с                   | D                         | D                   | D                   | D                         | D  | D                                 | D                                  | D   |

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|                         |   |             |                | All<br>shments                            | All emp             | loyees                | Pr              | oduction work       | ers                   |  |                                   |                                    |   |
|-------------------------|---|-------------|----------------|---|---------------------|-----------------------|-----------------|---------------------|-----------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code           | Geographic area and industry  | E1          | Total          | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000)  | Number          | Hours<br>(1,000)    | Wages<br>(\$1,000)    | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                         | WASHINGTON-Con.   |             |                |   |                     |                       |                 |                     |                       |  |                                   |                                    |   |
| 31-33                   | <b>Manufacturing</b> —<br>Con.  |             |                |   |                     |                       |                 |                     |                       |  |                                   |                                    |   |
| 331                     | Primary metal mfg   | -           | 87             | 55  | 12 125              | 502 063               | 9 774           | 20 551              | 358 343               | 1 450 616                                  | 2 174 528                         | 3 651 986                          | 162 121   |
| 3311                    | Iron & steel mills & ferroalloy mfg   | _           | 2              | 2   | e                   | D                     | D               | D                   | D                     | D  | D                                 | D                                  | D   |
| 33111                   | Iron & steel mills & ferroalloy mfg   | -           | 2              | 2   | е                   | D                     | D               | D                   | D                     | D  | D                                 | D                                  | D   |
| 331111                  | Iron & steel mills  | -           | 2              | 2   | e                   | D                     | D               | D                   | D                     | D  | D                                 | D                                  | D   |
| 3312<br>33122           | Steel product mfg from<br>purchased steel   | -           | 3              | 1   | с                   | D                     | D               | D                   | D                     | D  | D                                 | D                                  | D   |
| 33122                   | Rolling & drawing of<br>purchased steel<br>Steel wire drawing                       | -           | 3<br>2         | 1   | c<br>c              | D                     | D<br>D          | D                   | D                     | D  | D                                 | D                                  | D   |
| 3313                    | Alumina & aluminum  |             |                |   |                     |                       |                 |                     |                       |  |                                   |                                    |   |
| 33131                   | production & processing<br>Alumina & aluminum<br>production &                       | -           | 12             | 12  | 6 831               | 315 891               | 5 588           | 11 845              | 230 764               | 728 116                                    | 1 670 745                         | 2 417 357                          | 104 880   |
| 331312                  | processing<br>Primary aluminum  | -           | 12             | 12  | 6 831               | 315 891               | 5 588           | 11 845              | 230 764               | 728 116                                    | 1 670 745                         | 2 417 357                          | 104 880   |
| 331315                  | Aluminum sheet, plate,<br>& foil mfg  | _           | 6              | 6<br>1                                    | h                   | D                     | D               | D                   | D                     | D  | D                                 | D                                  | D   |
| 331319                  | Other aluminum rolling<br>& drawing   | _           | 2              | 2   | e                   | D                     | D               | D                   | D                     | D  | D                                 | D                                  | D   |
| 3314                    | Nonferrous metal (except  |             |                |   |                     |                       |                 |                     |                       |  |                                   |                                    |   |
| 33141                   | aluminum) production &<br>processing<br>Nonferrous metal (except                    | -           | 18             | 9   | 1 958               | 73 706                | 1 458           | 2 995               | 49 412                | 402 846                                    | 246 114                           | 653 979                            | 34 874  |
| 331419                  | aluminum) smelting &<br>refining<br>Other nonferrous metal                          | -           | 5              | 4   | 869                 | 35 273                | 607             | 1 309               | 24 394                | 136 563                                    | 118 788                           | 254 757                            | 23 429  |
|                         | primary smelting & refining   | -           | 5              | 4   | 869                 | 35 273                | 607             | 1 309               | 24 394                | 136 563                                    | 118 788                           | 254 757                            | 23 429  |
| 33149                   | Other nonferrous metal rolling, drawing,  |             |                |   |                     |                       |                 |                     |                       |  |                                   |                                    |   |
| 331491                  | extruding, & alloying<br>Other nonferrous metal<br>rolling, drawing, &<br>extruding |             | 13             | 5   | 1 089<br>1 025      | 38 433<br>35 697      | 851<br>803      | 1 686<br>1 598      | 25 018<br>23 693      | 266 283<br>260 896                         | 127 326<br>120 204                | 399 222<br>386 670                 | 11 445<br>10 720                                |
| 3315                    | Foundries   | _           | 52             | 31  | 2 711               | 82 163                | 2 255           | 4 618               | 57 656                | 189 907                                    | 102 466                           | 292 627                            | 15 150  |
| 33151<br>331511         | Ferrous metal foundries .<br>Iron foundries   | -           | 23<br>7        | 20<br>7                                   | 1 370<br>f          | 43 266<br>D           | 1 136<br>D      | 2 392<br>D          | 31 993<br>D           | 99 409<br>D                                | 52 345<br>D                       | 152 108<br>D                       | 6 887<br>4 081                                  |
| 331513                  | Steel foundries (except investment)   | -           | 13             | 10  | 773                 | 26 524                | 665             | 1 415               | 20 204                | 62 343                                     | 33 044                            | 95 921                             | D   |
| 33152                   | Nonferrous metal  |             |                |   |                     |                       |                 |                     |                       |  |                                   |                                    |   |
| 331524                  | foundries<br>Aluminum foundries<br>(except die-casting)                             | _           | 29<br>12       | 11<br>7                                   | 1 341<br>1 095      | 38 897<br>30 212      | 1 119<br>926    | 2 226<br>1 848      | 25 663<br>20 421      | 90 498<br>75 274                           | 50 121<br>42 054                  | 140 519<br>117 391                 | 8 263<br>6 875                                  |
| 332                     | Fabricated metal product  | -           | 12             | ·   | 1 095               | 30 212                | 520             | 1 040               | 20 421                | 75 214                                     | 42 004                            | 117 391                            | 0 0/3   |
|                         | mfg   | 1           | 1 184          | 269                                       | 22 037              | 706 731               | 16 710          | 31 441              | 460 221               | 1 544 085                                  | 1 212 399                         | 2 721 826                          | 105 652   |
| 3321<br>33211<br>332111 | Forging & stamping<br>Forging & stamping<br>Iron & steel forging                    | 1<br>1<br>9 | 33<br>33<br>10 | 14<br>14<br>2                             | 976<br>976<br>C     | 30 283<br>30 283<br>D | 776<br>776<br>D | 1 477<br>1 477<br>D | 20 319<br>20 319<br>D | 59 117<br>59 117<br>D                      | 56 549<br>56 549<br>D             | 114 895<br>114 895<br>D            | 3 628<br>3 628<br>D                             |
| 332114<br>332116        | Custom roll forming<br>Metal stamping   | -           | 9<br>12        | 4<br>7                                    | 306<br>527          | 9 488<br>16 463       | 252<br>410      | 516<br>771          | 6 960<br>10 337       | 16 486<br>33 832                           | 22 212<br>27 314                  | 38 218<br>60 826                   | 690<br>2 246                                    |
| 3322<br>33221           | Cutlery & handtool mfg<br>Cutlery & handtool mfg                                    | 5<br>5      | 33<br>33       | 4<br>4                                    | 461<br>461          | 12 641<br>12 641      | 386<br>386      | 781<br>781          | 9 353<br>9 353        | 27 024<br>27 024                           | 16 057<br>16 057                  | 43 007<br>43 007                   | 1 523<br>1 523                                  |
| 332212<br>332213        | Hand & edge tool mfg .<br>Saw blade & handsaw<br>mfg                                | 2<br>9      | 26<br>2        | 3<br>1                                    | 314<br>c            | 8 119<br>D            | 269<br>D        | 540<br>D            | 6 204<br>D            | 15 374<br>D                                | 8 894<br>D                        | 24 232<br>D                        | 748<br>D  |
| 3323                    | Architectural & structural  | 1           | 000            |   | 7 000               | 217 324               | E 050           | 10.074              | 140 705               | 439 242                                    | 474 700                           | 909 670                            | 00 404  |
| 33231                   | metals mfg<br>Plate work & fabricated<br>structural product mfg                     | 1           | 308<br>117     | 97<br>33                                  | 7 026<br>2 059      | 65 946                | 5 250<br>1 484  | 10 074<br>2 763     | 140 725<br>40 852     | 439 242                                    | 471 762<br>133 555                | 268 534                            | 23 131<br>5 066                                 |
| 332311                  | Prefabricated metal<br>building & component   |             |                |   |                     |                       |                 |                     |                       |  |                                   |                                    |   |
| 332312                  | mfg<br>Fabricated structural  | -           | 9<br>88        | 4<br>24                                   | 294<br>1 527        | 9 996<br>48 573       | 172<br>1 127    | 373<br>2 092        | 5 028<br>30 947       | 19 183<br>102 793                          | 20 989<br>104 317                 | 40 243<br>207 383                  | 725<br>3 966                                    |
| 332313                  | metal mfg<br>Plate work mfg   | 3           | 20             | 24<br>5                                   | 238                 | 48 573<br>7 377       | 185             | 2 092 298           | 30 947<br>4 877       | 12 738                                     | 8 249                             | 207 383 20 908                     | 3 966<br>375                                    |
| 33232                   | Ornamental &<br>architectural metal<br>products mfg                                 | 1           | 191            | 64  | 4 967               | 151 378               | 3 766           | 7 311               | 99 873                | 304 528                                    | 338 207                           | 641 136                            | 18 065  |
| 332321                  | Metal window & door<br>mfg  | 1           | 28             | 11  | 1 269               | 35 900                | 953             | 1 962               | 22 736                | 72 180                                     | 102 611                           | 175 373                            | 1 870   |
| 332322<br>332323        | Sheet metal work mfg .<br>Ornamental &<br>architectural metal                       | -           | 113            | 44  | 2 938               | 89 051                | 2 246           | 4 231               | 57 855                | 193 167                                    | 180 555                           | 371 671                            | 11 100  |
|                         | work mfg  | 1           | 50             | 9   | 760                 | 26 427                | 567             | 1 118               | 19 282                | 39 181                                     | 55 041                            | 94 092                             | 5 095   |

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|                         |   |             |                   | ll<br>hments                   | All emp                 | loyees                        | Pro                     | oduction worke          | ers                           |  |                                   |                                    |   |
|-------------------------|---|-------------|-------------------|--------------------------------|-------------------------|-------------------------------|-------------------------|-------------------------|-------------------------------|--|-----------------------------------|------------------------------------|---|
| NAICS                   |   |             | establis          | With 20                        |                         | -                             |                         |                         |                               |  |                                   |                                    |   |
| code                    | Geographic area and industry  | E1          | Total             | em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup>     | Payroll<br>(\$1,000)          | Number                  | Hours<br>(1,000)        | Wages<br>(\$1,000)            | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                         | WASHINGTON-Con.   |             |                   |                                |                         |                               |                         |                         |                               |  |                                   |                                    |   |
| 31-33                   | Manufacturing—<br>Con.  |             |                   |                                |                         |                               |                         |                         |                               |  |                                   |                                    |   |
| 332                     | Fabricated metal product mfg—Con.   |             |                   |                                |                         |                               |                         |                         |                               |  |                                   |                                    |   |
| 3324                    | Boiler, tank, & shipping container mfg  | _           | 34                | 19                             | 1 368                   | 53 013                        | 1 073                   | 2 178                   | 40 548                        | 156 772                                    | 260 770                           | 403 280                            | 5 423   |
| 33241                   | Power boiler & heat<br>exchanger mfg  | 1           | 8                 | 3                              | 138                     | 4 594                         | 109                     | 209                     | 2 734                         | 7 813                                      | 6 938                             | 14 788                             | 344   |
| 332410                  | Power boiler & heat<br>exchanger mfg  | 1           | 8                 | 3                              | 138                     | 4 594                         | 109                     | 209                     | 2 734                         | 7 813                                      | 6 938                             | 14 788                             | 344   |
| 33242                   | Metal tank (heavy gauge)<br>mfg   | _           | 12                | 6                              | 243                     | 8 349                         | 153                     | 293                     | 4 855                         | 13 824                                     | 13 377                            | 26 770                             | 1 238   |
| 332420                  | Metal tank (heavy<br>gauge) mfg   | _           | 12                | 6                              | 243                     | 8 349                         | 153                     | 293                     | 4 855                         | 13 824                                     | 13 377                            | 26 770                             | 1 238   |
| 33243                   | Metal can, box, & other   |             |                   |                                |                         |                               |                         |                         |                               |  |                                   |                                    |   |
| 000404                  | metal container (light gauge) mfg   | -           | 14                | 10                             | 987                     | 40 070                        | 811                     | 1 676                   | 32 959                        | 135 135                                    | 240 455                           | 361 722                            | 3 841   |
| 332431<br>332439        | Metal can mfg<br>Other metal container<br>mfg   | -           | 7<br>7            | 7                              | 871<br>116              | 35 730<br>4 340               | 729<br>82               | 1 484<br>192            | 30 695<br>2 264               | 127 319<br>7 816                           | 234 141<br>6 314                  | 347 094<br>14 628                  | 3 403<br>438                                    |
| 3325                    | Hardware mfg  | 1           |                   | 6                              | 362                     | 10 394                        | 271                     | 501                     | 6 325                         | 32 062                                     | 18 199                            | 49 544                             | 1 858   |
| 33251<br>332510         | Hardware mfg<br>Hardware mfg  | 1           | 22<br>22<br>22    | 6<br>6                         | 362<br>362              | 10 394<br>10 394              | 271<br>271              | 501<br>501              | 6 325<br>6 325                | 32 062<br>32 062                           | 18 199<br>18 199                  | 49 544<br>49 544                   | 1 858<br>1 858                                  |
| 3326<br>33261           | Spring & wire product mfg .<br>Spring & wire product  | 2           | 23                | 6                              | 384                     | 12 691                        | 284                     | 524                     | 7 654                         | 25 167                                     | 14 861                            | 39 199                             | 3 058   |
| 332618                  | other fabricated wire   | 2           | 23                | 6                              | 384                     | 12 691                        | 284                     | 524                     | 7 654                         | 25 167                                     | 14 861                            | 39 199                             | 3 058   |
| 2207                    | product mfg   | 3           | 19                | 4                              | 278                     | 8 870                         | 202                     | 380                     | 5 198                         | 18 210                                     | 11 058                            | 29 000                             | D   |
| 3327<br>33271<br>332710 | Machine shops, turned<br>product, & screw, nut, &<br>bolt mfg<br>Machine shops<br>Machine shops | 1<br>1<br>1 | 523<br>484<br>484 | 68<br>58<br>58                 | 6 660<br>5 848<br>5 848 | 214 964<br>182 873<br>182 873 | 5 296<br>4 629<br>4 629 | 9 371<br>8 022<br>8 022 | 146 500<br>123 466<br>123 466 | 449 076<br>387 930<br>387 930              | 194 856<br>159 339<br>159 339     | 629 679<br>533 771<br>533 771      | 47 273<br>39 184<br>39 184                      |
| 33272                   | Turned product & screw,   |             |                   |                                |                         |                               |                         |                         |                               |  |                                   |                                    |   |
| 332721                  | nut, & bolt mfg<br>Precision turned<br>product mfg  | _           | 39<br>35          | 10<br>9                        | 812<br>717              | 32 091<br>28 739              | 667<br>589              | 1 349<br>1 186          | 23 034<br>20 448              | 61 146<br>53 936                           | 35 517<br>32 051                  | 95 908<br>85 399                   | 8 089<br>6 592                                  |
| 3328                    | Coating, engraving, heat  |             | 00                | 5                              | , , ,                   | 20 700                        | 505                     | 1 100                   | 20 440                        | 30 300                                     | 52 031                            | 05 000                             | 0 332   |
| 33281                   | treating, & allied activities.<br>Coating, engraving, heat<br>treating, & allied                | 1           | 81                | 25                             | 2 304                   | 66 085                        | 1 853                   | 3 696                   | 42 721                        | 142 231                                    | 44 220                            | 184 496                            | 10 255  |
| 332811<br>332812        | activities<br>Metal heat treating<br>Metal coating/<br>engraving (exc<br>jewelry/silverware)/   | 1           | 81<br>8           | 25<br>2                        | 2 304<br>121            | 66 085<br>3 771               | 1 853<br>108            | 3 696<br>199            | 42 721<br>2 953               | 142 231<br>8 629                           | 44 220<br>3 567                   | 184 496<br>12 165                  | 10 255<br>1 021                                 |
| 332813                  | allied services<br>Electroplating, plating,   | 1           | 33                | 11                             | 867                     | 24 089                        | 751                     | 1 561                   | 17 729                        | 54 572                                     | 14 882                            | 68 721                             | 4 331   |
|                         | polishing, anodizing,<br>& coloring   | -           | 40                | 12                             | 1 316                   | 38 225                        | 994                     | 1 936                   | 22 039                        | 79 030                                     | 25 771                            | 103 610                            | 4 903   |
| 3329                    | Other fabricated metal<br>product mfg   | 1           | 127               | 30                             | 2 496                   | 89 336                        | 1 521                   | 2 839                   | 46 076                        | 213 394                                    | 135 125                           | 348 056                            | 9 503   |
| 33291<br>332912         | Metal valve mfg<br>Fluid power valve &<br>hose fitting mfg                                      | -           | 14<br>3           | 5                              | 585<br>e                | 23 357<br>D                   | 301<br>D                | 574<br>D                | 13 614<br>D                   | 48 031<br>D                                | 34 670<br>D                       | 82 406<br>D                        | 2 446<br>D                                      |
| 332919                  | Other metal valve & pipe fitting mfg  | _           | 3                 | 2                              | c                       | D                             | D                       | D                       | D                             | D  | D                                 | D                                  | D   |
| 33299                   | All other fabricated metal  |             |                   |                                |                         |                               |                         |                         |                               |  |                                   |                                    |   |
| 332993                  | Ammunition (except  | 1           | 113               | 25<br>1                        | 1 911                   | 65 979<br>D                   | 1 220                   | 2 265                   | 32 462                        | 165 363                                    | 100 455<br>D                      | 265 650                            | 7 057   |
| 332996                  | small arms) mfg<br>Fabricated pipe & pipe<br>fitting mfg  | 1           | 1<br>16           | 7                              | e<br>322                | D<br>10 166                   | D<br>208                | D<br>416                | D<br>5 615                    | D<br>26 670                                | 26 838                            | D<br>52 320                        | D<br>2 134                                      |
| 332999                  | All other miscellaneous<br>fabricated metal   |             |                   | ,                              | ULL                     |                               | 200                     | 410                     | 0 010                         |  |                                   | 02 020                             | 2 104   |
|                         | product mfg   | 2           | 75                | 16                             | 1 050                   | 31 049                        | 847                     | 1 549                   | 22 297                        | 67 298                                     | 47 288                            | 114 418                            | 3 751   |
| 333<br>3331             | Machinery mfg<br>Agriculture, construction, &   | 1           | 503               | 131                            | 13 655                  | 475 540                       | 8 994                   | 16 976                  | 260 694                       | 1 059 118                                  | 967 888                           | 2 025 631                          | 58 652  |
| 33311                   | mining machinery mfg<br>Agricultural implement  | 2           | 72                | 21                             | 1 341                   | 47 277                        | 872                     | 1 737                   | 25 074                        | 101 695                                    | 139 778                           | 238 819                            | 7 393   |
| 333111                  | mfg<br>Farm machinery &<br>equipment mfg  | 1           | 38<br>35          | 6<br>6                         | 426<br>418              | 11 342<br>11 149              | 316<br>309              | 608<br>595              | 7 943<br>7 805                | 29 135<br>28 496                           | 31 934<br>30 968                  | 60 733<br>59 111                   | 3 371<br>3 340                                  |
| 33312                   | Construction machinery  |             | 33                | 0                              | 410                     | 11 149                        | 309                     | 595                     | / 605                         | 20 490                                     | 30 908                            | 59 111                             | 5 540   |
| 333120                  | mfg<br>Construction   | 1           | 28                | 14                             | 797                     | 31 961                        | 469                     | 948                     | 14 415                        | 60 955                                     | 96 587                            | 155 296                            | 3 547   |
| 00010                   | machinery mfg   | 1           | 28                | 14                             | 797                     | 31 961                        | 469                     | 948                     | 14 415                        | 60 955                                     | 96 587                            | 155 296                            | 3 547   |
| 33313<br>333131         | Mining & oil & gas field<br>machinery mfg<br>Mining machinery &<br>equipment mfg                | 9<br>9      | 6<br>5            | 1<br>1                         | 118<br>c                | 3 974<br>D                    | 87<br>D                 | 181<br>D                | 2 716<br>D                    | 11 605<br>D                                | 11 257<br>D                       | 22 790<br>D                        | 475<br>D  |

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|                  |   |                |         | All<br>shments                            | All emp             | oloyees              | Pr           | oduction work    | ers                |  |                                   |                                    |   |
|------------------|---|----------------|---------|---|---------------------|----------------------|--------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code    | Geographic area and industry  | E <sup>1</sup> | Total   | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number       | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                  | WASHINGTON-Con.   |                |         |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
| 31-33            | Manufacturing—<br>Con.  |                |         |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
| 333              | Machinery mfg-Con.  |                |         |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
| 3332<br>33321    | Industrial machinery mfg<br>Sawmill & woodworking                       | 2              | 98      | 21  | 2 802               | 104 356              | 1 599        | 2 972            | 51 295             | 204 957                                    | 171 133                           | 376 656                            | 8 242   |
| 333210           | machinery mfg   | -              | 20      | 3   | f                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 000210           | woodworking<br>machinery mfg  | -              | 20      | 3   | f                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 33322            | Plastics & rubber<br>industry machinery                                 |                |         |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
| 333220           | mfg<br>Plastics & rubber  | 9              | 8       | 1   | е                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
|                  | industry machinery<br>mfg   | 9              | 8       | 1   | е                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 33329            | Other industrial machinery mfg  | 1              | 70      | 17  | 1 794               | 72 145               | 1 026        | 1 968            | 35 279             | 128 875                                    | 118 908                           | 245 699                            | 5 922   |
| 333291           | Paper industry<br>machinery mfg   | -              | 11      | 4   | 291                 | 11 401               | 143          | 298              | 5 143              | 24 669                                     | 16 161                            | 40 710                             | 846   |
| 333294           | Food product<br>machinery mfg   | 2              | 27      | 7   | 604                 | 22 173               | 373          | 727              | 11 359             | 41 312                                     | 32 477                            | 68 754                             | 1 776   |
| 333298           | All other industrial machinery mfg                                      | -              | 27      | 4   | 811                 | 35 154               | 459          | 831              | 16 778             | 52 599                                     | 65 687                            | 120 383                            | 3 045   |
| 3333<br>33331    | Commercial & service<br>industry machinery mfg<br>Commercial & service  | 1              | 53      | 17  | 1 490               | 51 228               | 915          | 1 840            | 24 130             | 110 314                                    | 64 094                            | 178 234                            | 4 640   |
| 000044           | industry machinery<br>mfg   | 1              | 53      | 17  | 1 490               | 51 228               | 915          | 1 840            | 24 130             | 110 314                                    | 64 094                            | 178 234                            | 4 640   |
| 333314<br>333315 | Optical instrument &<br>lens mfg<br>Photographic &                      | 1              | 7       | 3   | 377                 | 14 857               | 231          | 494              | 6 950              | 25 056                                     | 10 158                            | 37 556                             | 1 553   |
| 333319           | photocopying<br>equipment mfg<br>Other commercial &                     | 2              | 12      | 3   | 226                 | 5 781                | 116          | 226              | 2 129              | 7 507                                      | 8 987                             | 18 603                             | 801   |
|                  | service industry<br>machinery mfg                                       | 1              | 29      | 9   | 758                 | 26 230               | 492          | 924              | 12 584             | 67 668                                     | 34 489                            | 101 841                            | 1 964   |
| 3334             | Ventilation, heating, AC, & commercial refrigeration equip mfg          | 2              | 34      | 14  | 1 439               | 41 083               | 1 021        | 1 719            | 21 299             | 128 633                                    | 78 612                            | 206 405                            | 6 488   |
| 33341            | & commercial<br>refrigeration equip mfg .                               | 2              | 34      | 14  | 1 439               | 41 083               | 1 021        | 1 719            | 21 299             | 128 633                                    | 78 612                            | 206 405                            | 6 488   |
| 333414           | Heating equipment<br>(except warm air<br>furnaces) mfg                  | 2              | 18      | 9   | 1 132               | 30 466               | 814          | 1 327            | 16 288             | 98 406                                     | 48 861                            | 145 792                            | 5 605   |
| 333415           | AC & warm air heating<br>& commercial/<br>industrial refrig equip       |                |         |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
|                  | mfg   | -              | 10      | 3   | 190                 | 5 903                | 145          | 276              | 3 433              | 17 629                                     | 14 892                            | 32 568                             | 643   |
| 3335             | Metalworking machinery<br>mfg   | -              | 87      | 16  | 1 667               | 62 458               | 1 093        | 1 965            | 34 921             | 136 686                                    | 96 643                            | 228 697                            | 11 237  |
| 33351<br>333511  | Metalworking machinery<br>mfg<br>Industrial mold mfg                    | -              | 87      | 16<br>6                                   | 1 667<br>376        | 62 458<br>14 148     | 1 093<br>300 | 1 965<br>513     | 34 921<br>10 184   | 136 686                                    | 96 643<br>9 353                   | 228 697<br>32 352                  | 11 237<br>3 677                                 |
| 333512           | Machine tool (metal   | _              | 29<br>5 | 3   | 546                 | 21 379               | 251          | 408              | 6 366              | 22 525<br>66 601                           | 9 353<br>61 093                   | 121 705                            | 4 866   |
| 333513           | cutting types) mfg<br>Machine tool (metal<br>forming types) mfg         |                | 1       | 1   | 040<br>e            | D                    | 231<br>D     | 400<br>D         | 0 300<br>D         | D  | D                                 | 121 703<br>D                       | 4 000<br>D                                      |
| 333514           | Special die & tool, die   | 3              | 27      | 5   | 270                 | 9 198                | 226          | 396              | 6 707              | 16 168                                     | 5 128                             | 21 339                             | 1 357   |
| 333515           | set, jig, & fixture mfg<br>Cutting tool & machine<br>tool accessory mfg | 7              | 20      | -   | 116                 | 3 378                | 73           | 126              | 2 110              | 6 488                                      | 2 825                             | 9 297                              | D   |
| 3336             | Engine, turbine, & power transmission equipment                         |                |         |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
| 33361            | mfg<br>Engine, turbine, & power<br>transmission equipment               | 1              | 9       | 2   | 180                 | 6 889                | 133          | 257              | 4 271              | 14 583                                     | 8 512                             | 23 314                             | 1 201   |
| 333612           | mfg<br>Speed changer,<br>industrial high-speed                          | 1              | 9       | 2   | 180                 | 6 889                | 133          | 257              | 4 271              | 14 583                                     | 8 512                             | 23 314                             | 1 201   |
| 3339             | drive, & gear mfg<br>Other general-purpose                              | -              | 1       | 1   | с                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 3339             | Pump & compressor   | 1              | 150     | 40  | 4 736               | 162 249              | 3 361        | 6 486            | 99 704             | 362 250                                    | 409 116                           | 773 506                            | 19 451  |
| 333911           | mfg<br>Pump & pumping   | 1              | 16      | 4   | 351                 | 13 086               | 135          | 245              | 3 555              | 35 843                                     | 18 355                            | 54 276                             | 2 158   |
|                  | equipment mfg   | -              | 3       | 2   | e                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 33392            | Material handling<br>equipment mfg                                      | -              | 47      | 18  | 2 961               | 98 013               | 2 298        | 4 573            | 68 863             | 219 811                                    | 326 923                           | 546 764                            | 10 702  |
| 333922<br>333923 | Conveyor & conveying<br>equipment mfg<br>Overhead traveling             | -              | 17      | 9   | 1 196               | 48 892               | 946          | 1 898            | 35 813             | 74 882                                     | 85 226                            | 160 672                            | 3 382   |
| 333924           | crane, hoist, &<br>monorail system mfg.<br>Industrial truck, tractor,   | -              | 13      | 6   | 1 444               | 37 838               | 1 153        | 2 304            | 27 833             | 129 720                                    | 218 011                           | 346 921                            | 6 586   |
|                  | trailer, & stacker<br>machinery mfg                                     | _              | 13      | 3   | 294                 | 10 413               | 180          | 332              | 4 609              | 12 446                                     | 21 526                            | 34 131                             | 693   |

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

| and Syn       |   |                | A     | AII                                       | All om              |                      | Dr     | aduation work    |                    |  |                                   |                                    |   |
|---------------|---|----------------|-------|---|---------------------|----------------------|--------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|               |   |                |       | shments                                   | All emp             | ployees              | Pr     | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code | Geographic area and industry  | E <sup>1</sup> | Total | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|               | WASHINGTON-Con.   |                |       |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 31-33         | Manufacturing—<br>Con.  |                |       |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 333           | Machinery mfg-Con.  |                |       |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 3339          | Other general-purpose<br>machinery mfg-Con.   |                |       |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 33399         | All other general-purpose<br>machinery mfg  | 2              | 87    | 18  | 1 424               | 51 150               | 928    | 1 668            | 27 286             | 106 596                                    | 63 838                            | 172 466                            | 6 591   |
| 333993        | Packaging machinery<br>mfg  | 2              | 23    | 9   | 631                 | 21 326               | 415    | 727              | 11 930             | 44 029                                     | 29 966                            | 74 281                             | 1 373   |
| 333995        | Fluid power cylinder & actuator mfg   |                | 10    | 2   | 214                 | 9 798                | 176    | 346              | 6 118              | 18 481                                     | 7 105                             | 25 909                             | D   |
| 333997        | Scale & balance<br>(except laboratory)  |                |       |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 333999        | mfg<br>All other miscellaneous  | -              | 5     | 3   | 220                 | 7 708                | 97     | 176              | 2 776              | 18 348                                     | 7 504                             | 26 867                             | 221   |
|               | general-purpose<br>machinery mfg  | 4              | 35    | 3   | 253                 | 8 892                | 170    | 292              | 4 531              | 17 392                                     | 12 382                            | 29 808                             | 1 171   |
| 334           | Computer & electronic   |                | 400   | 100                                       | 40,005              | 0.004.550            | 01.100 | 40,040           | 704 040            | 4 000 450                                  | 0.005.404                         | 7 470 750                          | 704 750   |
| 3341          | product mfg<br>Computer & peripheral  | _              | 438   | 163                                       | 46 235              | 2 204 559            | 21 128 | 40 810           | 701 316            | 4 663 158                                  | 2 835 134                         | 7 479 752                          | 701 759   |
| 33411         | equipment mfg<br>Computer & peripheral  | 1              | 51    | 19  | 7 162               | 324 977              | 4 419  | 8 517            | 185 490            | 751 059                                    | 582 188                           | 1 304 395                          | 77 419  |
| 334111        | equipment mfg   | 1              | 51    | 19  | 7 162               | 324 977              | 4 419  | 8 517            | 185 490            | 751 059                                    | 582 188                           | 1 304 395                          | 77 419  |
| 334112        | mfg<br>Computer storage   | 4              | 8     | 5   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 334119        | device mfg<br>Other computer  | -              | 3     | 3   | е                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
|               | peripheral equipment  | -              | 39    | 10  | 5 955               | 271 640              | 4 000  | 7 688            | 177 180            | 645 006                                    | 426 740                           | 1 048 254                          | 66 812  |
| 3342          | Communications<br>equipment mfg   | 2              | 62    | 24  | 3 172               | 132 389              | 1 328  | 1 992            | 28 096             | 319 050                                    | 252 562                           | 574 574                            | 17 608  |
| 33421         | Telephone apparatus<br>mfg  | 3              | 18    | 10  | 1 769               | 85 324               | 697    | 1 005            | 15 651             | 222 343                                    | 149 112                           | 368 109                            | 12 984  |
| 334210        | Telephone apparatus<br>mfg  | 3              | 18    | 10  | 1 769               | 85 324               | 697    | 1 005            | 15 651             | 222 343                                    | 149 112                           | 368 109                            | 12 984  |
| 33422         | Radio & TV broadcasting   |                |       |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 334220        | & wireless<br>communications<br>equipment mfg<br>Radio & TV<br>broadcasting &<br>wireless | 1              | 30    | 11  | 1 194               | 41 093               | 572    | 887              | 11 213             | 84 159                                     | 94 367                            | 184 847                            | D   |
|               | communications equipment mfg  | 1              | 30    | 11  | 1 194               | 41 093               | 572    | 887              | 11 213             | 84 159                                     | 94 367                            | 184 847                            | D   |
| 33429         | Other communications equipment mfg  | 2              | 14    | 3   | 209                 | 5 972                | 59     | 100              | 1 232              | 12 548                                     | 9 083                             | 21 618                             | D   |
| 334290        | Other communications<br>equipment mfg   | 2              | 14    | 3   | 209                 | 5 972                | 59     | 100              | 1 232              | 12 548                                     | 9 083                             | 21 618                             | D   |
| 3343          | Audio & video equipment   |                |       | _   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 33431         | mfg<br>Audio & video equipment  | 3              | 18    | 6   | 1 097               | 31 012               | 794    | 1 653            | 16 759             | 63 574                                     | 205 412                           | 270 861                            | 2 985   |
| 334310        | mfg<br>Audio & video  | 3              | 18    | 6   | 1 097               | 31 012               | 794    | 1 653            | 16 759             | 63 574                                     | 205 412                           | 270 861                            | 2 985   |
| 3344          | equipment mfg<br>Semiconductor & other  | 3              | 18    | 6   | 1 097               | 31 012               | 794    | 1 653            | 16 759             | 63 574                                     | 205 412                           | 270 861                            | 2 985   |
| 33441         | electronic component<br>mfg<br>Semiconductor & other                                      | -              | 116   | 53  | 8 477               | 288 424              | 6 189  | 12 816           | 167 064            | 747 801                                    | 598 719                           | 1 342 379                          | 408 468   |
| 334412        | electronic component<br>mfg<br>Bare printed circuit                                       | -              | 116   | 53  | 8 477               | 288 424              | 6 189  | 12 816           | 167 064            | 747 801                                    | 598 719                           | 1 342 379                          | 408 468   |
| 334412        | board mfg<br>Semiconductor &  | 1              | 25    | 12  | 1 640               | 48 990               | 1 322  | 2 929            | 34 167             | 117 263                                    | 63 555                            | 182 167                            | 6 261   |
| 334414        | related device mfg<br>Electronic capacitor  | -              | 21    | 9   | 3 104               | 127 345              | 2 334  | 4 885            | 81 334             | 350 348                                    | 358 297                           | 703 183                            | 363 492   |
| 334416        | mfg<br>Electronic coil,   | -              | 2     | 2   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 334418        | transformer, & other<br>inductor mfg<br>Printed circuit                                   | 2              | 7     | 4   | е                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 334419        | assembly (electronic<br>assembly) mfg<br>Other electronic                                 | 3              | 12    | 11  | 864                 | 20 767               | 679    | 1 286            | 11 968             | 43 998                                     | 43 630                            | 89 367                             | 2 944   |
| 3345          | component mfg<br>Navigational, measuring,   | 1              | 46    | 14  | 1 674               | 63 460               | 815    | 1 600            | 18 680             | 135 861                                    | 96 021                            | 230 494                            | 27 487  |
| 33451         | nedical, & control<br>instruments mfg<br>Navigational, measuring,<br>medical, & control   | -              | 164   | 53  | 25 692              | 1 404 931            | 7 985  | 15 034           | 293 248            | 2 716 724                                  | 1 152 297                         | 3 877 928                          | 183 795   |
| 334510        | Electromedical &<br>electrotherapeutic  | -              | 164   | 53  | 25 692              | 1 404 931            | 7 985  | 15 034           | 293 248            | 2 716 724                                  | 1 152 297                         | 3 877 928                          | 183 795   |
| 334511        | apparatus mfg<br>Search, detection,<br>navigation, &<br>guidance instrument               | -              | 19    | 11  | 4 475               | 239 450              | 1 477  | 3 084            | 42 764             | 549 160                                    | 419 776                           | 933 332                            | 49 283  |
| 334513        | mfg<br>Industrial process<br>control instrument   | -              | 27    | 12  | 15 736              | 914 908              | 4 310  | 7 646            | 170 885            | 1 496 388                                  | 385 412                           | 1 937 339                          | D   |
|               | mfg   | 1              | 20    | 5   | 229                 | 9 444                | 117    | 221              | 4 298              | 21 572                                     | 8 203                             | 29 525                             | D   |

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|   |                  |   |    | /<br>establis | All<br>shments         | All emp             | bloyees | Pr     | oduction work | ers                |             |           |           |   |
|---|------------------|---|----|---------------|------------------------|---------------------|---------|--------|---------------|--------------------|-------------|-----------|-----------|---|
| 31-30         Hannel Legendre         I <thi< th=""> <thi< th="">         I</thi<></thi<>   |                  | Geographic area and industry  | E1 | Total         | em-<br>ploy-<br>ees or | Number <sup>2</sup> |         | Number |               | Wages<br>(\$1,000) | manufacture | materials | shipments | Total capital<br>expendi-<br>tures<br>(\$1,000) |
| Co.         Co. <thco.< th=""> <thco.< th=""> <thco.< th=""></thco.<></thco.<></thco.<>   |                  | WASHINGTON-Con.   |    |               |                        |                     |         |        |               |                    |             |           |           |   |
| product mg=-Cor.         product mg=-Cor.<  | 31-33            |   |    |               |                        |                     |         |        |               |                    |             |           |           |   |
| Base         Image         A corde         Image         Image <t< td=""><td>334</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>   | 334              |   |    |               |                        |                     |         |        |               |                    |             |           |           |   |
| 33491         Indicat & Sorting of Marga (Marga (Marga Marga Marga Marga (Marga Marga Marg  |                  | medical, & control<br>instruments mfg-Con.                            |    |               |                        |                     |         |        |               |                    |             |           |           |   |
| 33.45:9         mfg   |                  | medical, & control<br>instruments mfg—Con.<br>Electricity measuring & |    |               |                        |                     |         |        |               |                    |             |           |           |   |
| B34519         instrument mg         1 <th1< th="">         1         <th1< th="">         1</th1<></th1<>  | 004540           | mfa   | -  | 29            | 10                     | 3 937               | 181 019 | 1 315  | 2 674         | 49 041             | 550 833     | 285 886   | 825 377   | 36 708  |
| containing weights optimized and any set optimized any set op   |                  | instrument mfg  | 1  | 19            | 5                      | 403                 | 17 513  | 139    | 257           | 4 804              | 24 106      | 11 964    | 36 453    | D   |
| B3461<br>334611<br>334612<br>334612<br>334612<br>334612<br>334612<br>334612<br>334613         Image a constraint of a   | 334313           | controlling device  | 1  | 32            | 9                      | 789                 | 39 310  | 535    | 983           | 19 387             | 66 108      | 35 858    | 101 981   | 2 457   |
| 33461         Mig & segneducing<br>method is during<br>Software reproducing<br>Software rep | 3346             |   | 3  | 27            | 8                      | 635                 | 22 826  | 413    | 798           | 10 659             | 64 950      | 43,956    | 109 615   | 11 484  |
| State 1         Software reproducing singer structure         5         2         c         D   | 33461            | Mfg & reproducing<br>magnetic & optical                               |    |               |                        |                     |         |        |               |                    |             |           |           | 11 484  |
| 334313         Mignatic A griant         1         1         1         1         1         1         1         2         0         D  | 334611<br>334612 | Software reproducing .<br>Prerecorded CD<br>(except software),        | -  |               |                        |                     |         |        |               |                    |             |           |           | D   |
| applance, & component<br>3351 22         2         116         36         3 639         114 98         2 202         4 116         49 084         343 225         247 660         590 667         1           3351 22         Electric lighting equipment<br>Lighting fature mfg         1         18         3         1         1         0   | 334613           | reproducing<br>Magnetic & optical                                     |    |               |                        |                     |         |        |               |                    |             |           |           | 5 789<br>D                                      |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $   | 335              | appliance, & component  | 2  | 116           | 36                     | 3 639               | 114 981 | 2 202  | 4 116         | 49 084             | 343 225     | 247 660   | 590 667   | 19 187  |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $   | 3351             |   | 1  | 18            | 3                      | f                   | П       | П      | П             | Л                  | П           | П         | п         | D   |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$   |                  | Lighting fixture mfg<br>Commercial/industrial/                        |    |               |                        | f                   | Ď       | Ď      | D             | D                  | Ď           |           | Ď         | D   |
| 33821       Small electrical applance       -       1       1       -       C       D       <   |                  |   | -  | 5             | 1                      | f                   | D       | D      | D             | D                  | D           | D         | D         | D   |
| 335211       mfg  |                  | Household appliance mfg<br>Small electrical appliance                 | -  | 4             | 2                      | f                   |         | D      |               |                    |             | D         |           | D   |
| 33522         Major appliance mg         -         1         1         0  | 335211           | mfg<br>Electric housewares &  | -  |               |                        |                     |         |        |               |                    |             |           |           | D   |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $   | 22500            |   | _  |               | -                      |                     |         |        |               |                    |             |           |           | D   |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  |                  | Household cooking   | _  |               |                        |                     |         |        |               |                    |             |           |           | D   |
| mig   |                  |   | 4  | 61            | 20                     | 1 214               | 40 476  | 669    | 1 319         | 16 157             | 101 800     | 85 912    | 185 212   | 5 866   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   |                  | mfg   | 4  | 61            | 20                     | 1 214               | 40 476  | 669    | 1 319         | 16 157             | 101 800     | 85 912    | 185 212   | 5 866   |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $   |                  | mfg   | 9  | 8             | 5                      | с                   | D       | D      | D             | D                  | D           | D         | D         | D   |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$   |                  | switchboard apparatus mfg   | 4  | 16            | 3                      | 254                 | 8 252   | 164    | 332           | 4 330              | 17 972      | 20 643    | 37 365    | 1 692   |
| 3593         & component mfg  | 335314           | control mfg   | 2  | 35            | 12                     | 765                 | 25 693  | 364    | 694           | 7 744              | 67 103      | 50 748    | 116 541   | 3 455   |
| 335931       Current-carrying wiring device mfg       -       2       1       c       D       <   |                  | & component mfg   | 2  | 33            |                        |                     | 34 358  | 743    | 1 222         | 15 165             | 105 949     | 87 238    | 196 535   | 5 228   |
| assess         equipment &<br>component mfg         4         20         7         843         22 490         576         924         10 995         66 281         44 985         112 040           335999         All other miscellaneous<br>electrical equipment &<br>component mfg         4         20         7         843         22 490         576         924         10 995         66 281         44 985         112 040           336         Transportation equipment<br>mfg   | 33593<br>335931  | Current-carrying wiring   | _  |               |                        | -                   | -       | 5      | D             | D                  | D           | D         | D         | D   |
| 335999         Component mig         4         20         7         843         22 490         576         924         10 995         66 281         44 985         112 040           335999         All other miscellaneous<br>electrical equipment &<br>component mig         4         20         7         843         22 490         576         924         10 995         66 281         44 985         112 040           336         Transportation equipment<br>mfg         3         462         153         88 612         4 648 536         46 780         99 391         2 330 730         8 237 079         21 476 827         29 222 900         31           3361         Motor vehicle mig         -         -         7         1         g         D <td< td=""><td>33599</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>  | 33599            |   |    |               |                        |                     |         |        |               |                    |             |           |           |   |
| 336       Transportation equipment<br>mfg   | 335999           | component mfg<br>All other miscellaneous<br>electrical equipment &    |    |               |                        |                     |         |        |               |                    |             |           |           | 2 836   |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | 336              |   |    |               |                        |                     |         |        |               |                    |             |           |           | 2 836   |
| 33612       Heavy duty truck mfg       -       2       1       g       D <td< td=""><td>0004</td><td>mfg</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>318 390</td></td<>   | 0004             | mfg   | 3  |               |                        |                     |         |        |               |                    |             |           |           | 318 390   |
| mfg         1         40         13         g         D <th< td=""><td>33612<br/>336120</td><td>Heavy duty truck mfg<br/>Heavy duty truck mfg .</td><td>-</td><td>7<br/>2<br/>2</td><td>1</td><td>g</td><td>D</td><td>D</td><td>D</td><td>D</td><td>D</td><td>D</td><td>D</td><td>1 732<br/>D<br/>D</td></th<>  | 33612<br>336120  | Heavy duty truck mfg<br>Heavy duty truck mfg .                        | -  | 7<br>2<br>2   | 1                      | g                   | D       | D      | D             | D                  | D           | D         | D         | 1 732<br>D<br>D                                 |
| trailer mfg   |                  | mfg   | 1  | 40            | 13                     | g                   | D       | D      | D             | D                  | D           | D         | D         | 2 257   |
| mfg   |                  | trailer mfg   | 1  | 40            | 13                     | g                   | D       | D      | D             | D                  | D           | D         | D         | 2 257   |
| 336212 Truck trailer mfg 7 4 e D D D D D D D D D D D  |                  | mfg   |    | 15<br>7       |                        |                     |         | D      |               |                    |             |           |           | D<br>879  |
| 336214         Travel trailer & camper<br>mfg         1         1         0   |                  | Travel trailer & camper   | _  |               |                        |                     |         |        |               |                    |             |           |           |   |

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|                         |  |                |                | All<br>shments                            | All emp             | loyees                     | Pro               | oduction worke    | ers                        |  |                                   |                                    |   |
|-------------------------|--|----------------|----------------|---|---------------------|----------------------------|-------------------|-------------------|----------------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code           | Geographic area and industry   | E <sup>1</sup> | Total          | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000)       | Number            | Hours<br>(1,000)  | Wages<br>(\$1,000)         | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                         | WASHINGTON-Con.  |                |                |   |                     |                            |                   |                   |                            |  |                                   |                                    |   |
| 31-33                   | Manufacturing—<br>Con.   |                |                |   |                     |                            |                   |                   |                            |  |                                   |                                    |   |
| 336                     | Transportation equipment<br>mfg-Con.   |                |                |   |                     |                            |                   |                   |                            |  |                                   |                                    |   |
| 3363<br>33631           | Motor vehicle parts mfg<br>Motor vehicle gasoline<br>engine & engine parts   | 4              | 91             | 28  | h                   | D                          | D                 | D                 | D                          | D  | D                                 | D                                  | 17 978  |
| 336312                  | mfg<br>Gasoline engine &   | 2              | 30             | 8   | f                   | D                          | D                 | D                 | D                          | D  | D                                 | D                                  | 2 359   |
| 33632                   | engine parts mfg<br>Motor vehicle electrical &                               | 2              | 30             | 8   | f                   | D                          | D                 | D                 | D                          | D  | D                                 | D                                  | 2 359   |
| 336322                  | electronic equipment<br>mfg<br>Other motor vehicle                           | 7              | 23             | 8   | f                   | D                          | D                 | D                 | D                          | D  | D                                 | D                                  | 2 155   |
| 22620                   | electrical & electronic<br>equipment mfg                                     | 7              | 22             | 8   | f                   | D                          | D                 | D                 | D                          | D  | D                                 | D                                  | D   |
| 33639<br>336391         | Other motor vehicle parts<br>mfg<br>Motor vehicle air-                       | 5              | 20             | 8   | g                   | D                          | D                 | D                 | D                          | D  | D                                 | D                                  | 10 654  |
| 336399                  | All other motor vehicle<br>parts mfg   | -7             | 1<br>19        | 1<br>7                                    | e<br>f              | D<br>D                     | D<br>D            | D                 | D                          | D  | D                                 | D                                  | D   |
| 3364                    | Aerospace product & parts  | 3              | 139            | 56  |                     | D                          | D                 | D                 | D                          | D  | D                                 | D                                  | 271 132   |
| 33641                   | Aerospace product &<br>parts mfg<br>Aircraft mfg                             | 3<br>3         | 139<br>8       | 56<br>5                                   | ļ                   | D                          | D                 | D                 | D                          | D  | D                                 | D                                  | 271 132<br>D                                    |
| 336411<br>336412        | Aircraft engine & engine parts mfg   | -              | 9              | 3   | c                   | D                          | D                 | D                 | D                          | D  | D                                 | D                                  | 243   |
| 336413                  | Other aircraft part &<br>auxiliary equipment<br>mfg                          | _              | 118            | 46  | 19 122              | 809 286                    | 12 789            | 29 697            | 557 398                    | 1 703 048                                  | 870 567                           | 2 520 950                          | D   |
| 336415                  | Guided missile &<br>space vehicle<br>propulsion unit &                       |                | 1              | 1   | f                   | D                          | D                 | D                 | D                          | D  | D                                 | D                                  | D   |
| 3365                    | parts mfg<br>Railroad rolling stock mfg                                      | -              | 5              | 2   | 202                 | 6 776                      | 148               | 332               | 4 902                      | 10 696                                     | 9 745                             | 21 290                             | 437   |
| 33651                   | Railroad rolling stock mfg   | 1              | 5              | 2   | 202                 | 6 776                      | 148               | 332               | 4 902                      | 10 696                                     | 9 745                             | 21 290                             | 437   |
| 336510                  | Railroad rolling stock<br>mfg  | 1              | 5              | 2   | 202                 | 6 776                      | 148               | 332               | 4 902                      | 10 696                                     | 9 745                             | 21 290                             | 437   |
| 3366<br>33661<br>336611 | Ship & boat building<br>Ship & boat building<br>Ship building &              | 1<br>1         | 152<br>152     | 48<br>48                                  | 6 129<br>6 129      | 214 028<br>214 028         | 4 629<br>4 629    | 8 930<br>8 930    | 133 333<br>133 333         | 322 200<br>322 200                         | 230 964<br>230 964                | 558 436<br>558 436                 | 23 246<br>23 246                                |
| 336612                  | repairing<br>Boat building   | 1<br>1         | 62<br>90       | 25<br>23                                  | 3 597<br>2 532      | 137 733<br>76 295          | 2 649<br>1 980    | 5 689<br>3 241    | 92 692<br>40 641           | 235 438<br>86 762                          | 132 257<br>98 707                 | 367 695<br>190 741                 | 5 827<br>17 419                                 |
| 3369                    | Other transportation<br>equipment mfg  | 1              | 28             | 5   | f                   | D                          | D                 | D                 | D                          | D  | D                                 | D                                  | 1 608   |
| 33699<br>336991         | Other transportation<br>equipment mfg<br>Motorcycle, bicycle, &<br>parts mfg | 1              | 28<br>22       | 5<br>4                                    | f                   | D                          | D<br>D            | D                 | D                          | D  | D<br>D                            | D                                  | 1 608<br>1 450                                  |
| 337                     | Furniture & related product  | 1              | 474            | 90  | 7 351               | 188 121                    | 5 846             | 11 156            | 125 077                    | 380 677                                    | 291 172                           | 675 292                            | 17 221  |
| 3371                    | Household & institutional<br>furniture & kitchen cabinet                     |                |                |   |                     |                            |                   |                   |                            |  |                                   |                                    |   |
| 33711                   | Mood kitchen cabinet & counter top mfg                                       | 2              | 348<br>216     | 48<br>28                                  | 4 374<br>2 805      | 102 995                    | 3 536<br>2 236    | 6 639<br>4 360    | 70 871                     | 195 456                                    | 151 233                           | 345 962                            | 7 781<br>4 549                                  |
| 337110                  | Wood kitchen cabinet<br>& counter top mfg                                    | 1              | 216            | 20<br>28                                  | 2 805<br>2 805      | 67 370<br>67 370           | 2 236             | 4 360             | 45 227<br>45 227           | 125 841<br>125 841                         | 89 932<br>89 932                  | 215 581<br>215 581                 | 4 549<br>4 549                                  |
| 33712                   | Household & institutional furniture mfg                                      | 2              | 132            | 20  | 1 569               | 35 625                     | 1 300             | 2 279             | 25 644                     | 69 615                                     | 61 301                            | 130 381                            | 3 232   |
| 337121<br>337122        | Upholstered household<br>furniture mfg<br>Nonupholstered wood                | 2              | 18             | 1   | 110                 | 2 503                      | 98                | 177               | 1 928                      | 4 474                                      | 5 465                             | 9 920                              | 236   |
| 337127                  | household furniture<br>mfg<br>Institutional furniture                        | 3              | 72             | 8   | 587                 | 11 406                     | 526               | 876               | 8 793                      | 21 552                                     | 21 422                            | 42 932                             | 1 414   |
| 3372                    | mfg<br>Office furniture (including   | 1              | 30             | 8   | 744                 | 19 703                     | 576               | 1 053             | 13 485                     | 38 764                                     | 30 834                            | 69 177                             | 1 400   |
| 33721                   | fixtures) mfg<br>Office furniture (including                                 | 1              | 104            | 36  | 2 361               | 68 863                     | 1 854             | 3 647             | 43 313                     | 126 414                                    | 88 183                            | 218 620                            | 6 744   |
| 337211                  | fixtures) mfg<br>Wood office furniture                                       | 1              | 104            | 36  | 2 361               | 68 863                     | 1 854             | 3 647             | 43 313                     | 126 414                                    | 88 183                            | 218 620                            | 6 744   |
| 337212                  | mfg<br>Custom architectural<br>woodwork & millwork                           | -              | 28             | 11  | 945                 | 21 516                     | 800               | 1 496             | 15 024                     | 46 078                                     | 26 451                            | 72 992                             | 2 654   |
| 337214                  | mfg<br>Office furniture (except  | -              | 29             | 12  | 496                 | 17 050                     | 386               | 758               | 10 176                     | 28 888                                     | 16 444                            | 45 324                             | 1 064   |
| 337215                  | wood) mfg<br>Showcase, partition,<br>shelving, & locker                      | 1              | 7              | 3   | 267                 | 8 897                      | 183               | 412               | 4 611                      | 20 541                                     | 16 165                            | 36 784                             | 1 428   |
| 3379                    | mfg<br>Other furniture related   | 2              | 40             | 10  | 653                 | 21 400                     | 485               | 981               | 13 502                     | 30 907                                     | 29 123                            | 63 520                             | 1 598   |
| 33791<br>337910         | product mfg<br>Mattress mfg<br>Mattress mfg                                  | 1<br>1<br>1    | 22<br>18<br>18 | 6<br>6<br>6                               | 616<br>579<br>579   | 16 263<br>15 647<br>15 647 | 456<br>429<br>429 | 870<br>829<br>829 | 10 893<br>10 486<br>10 486 | 58 807<br>57 432<br>57 432                 | 51 756<br>50 077<br>50 077        | 110 710<br>107 584<br>107 584      | 2 696<br>2 638<br>2 638                         |

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

|                  |   |                |            | All<br>shments                            | All emp             | oloyees              | Pr         | oduction work    | ers                |  |                                   |                                    |   |
|------------------|---|----------------|------------|---|---------------------|----------------------|------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code    | Geographic area and industry                    | E <sup>1</sup> | Total      | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number     | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                  | WASHINGTON-Con.                                 |                |            |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 31-33            | Manufacturing—<br>Con.                          |                |            |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 339              | Miscellaneous mfg                               | 2              | 851        | 112                                       | 10 382              | 292 596              | 7 154      | 12 794           | 154 401            | 731 511                                    | 476 772                           | 1 201 607                          | 45 977  |
| 3391             | Medical equipment & supplies mfg                | 3              | 372        | 39  | 3 289               | 112 659              | 2 134      | 3 577            | 52 445             | 264 750                                    | 135 593                           | 401 962                            | 16 432  |
| 33911            | Medical equipment & supplies mfg                | 3              | 372        | 39  | 3 289               | 112 659              | 2 134      | 3 577            | 52 445             | 264 750                                    | 135 593                           | 401 962                            | 16 432  |
| 339112           | Surgical & medical instrument mfg               | 2              | 33         | 10  | 971                 | 45 668               | 493        | 883              | 16 436             | 114 381                                    | 60 342                            | 174 490                            | 9 428   |
| 339113           | Surgical appliance & supplies mfg               | 3              | 32         | 12  | 737                 | 22 437               | 479        | 801              | 10 067             | 56 377                                     | 29 799                            | 86 423                             | 3 238   |
| 339114           | Dental equipment & supplies mfg                 | 1              | 25         | 4   | 263                 | 8 814                | 178        | 320              | 4 042              | 16 516                                     | 13 251                            | 29 762                             | D   |
| 339115           | Ophthalmic goods<br>mfg                         | 5              | 10         | 3   | с                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | 930   |
| 339116           | Dental laboratories                             | 6              | 268        | 9   | 1 152               | 31 227               | 874        | 1 361            | 19 441             | 66 257                                     | 25 091                            | 92 960                             | 2 359   |
| 3399<br>33991    | Other miscellaneous mfg<br>Jewelry & silverware | 2              | 479        | 73  | 7 093               | 179 937              | 5 020      | 9 217            | 101 956            | 466 761                                    | 341 179                           | 799 645                            | 29 545  |
| 339911           | mfgJewelry (except                              | 4              | 67         | 5   | 358                 | 8 352                | 260        | 431              | 4 741              | 17 565                                     | 14 141                            | 31 307                             | 268   |
| 229911           | costume) mfg                                    | 4              | 47         | 3   | 264                 | 6 755                | 190        | 322              | 3 706              | 13 219                                     | 12 027                            | 24 894                             | 203   |
| 33992            | Sporting & athletic goods                       |                |            |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 339920           | mfg<br>Sporting & athletic                      | 1              | 103        | 27  | 3 422               | 87 916               | 2 495      | 4 783            | 50 958             | 275 288                                    | 217 618                           | 483 305                            | 19 634  |
|                  | goods mfg                                       | 1              | 103        | 27  | 3 422               | 87 916               | 2 495      | 4 783            | 50 958             | 275 288                                    | 217 618                           | 483 305                            | 19 634  |
| 33993<br>339932  | Doll, toy, & game mfg<br>Game, toy, &           | 4              | 25         | 3   | 240                 | 6 454                | 159        | 267              | 3 357              | 17 250                                     | 12 180                            | 29 362                             | 1 569   |
| 339932           | children's vehicle                              | 4              | 20         | 2   | 180                 | 5 366                | 122        | 202              | 2 727              | 15 052                                     | 11 343                            | 26 381                             | 1 561   |
|                  | mg  | 4              | 20         | 2   | 100                 | 5 500                | 122        | 202              | 2 121              | 15 052                                     | 11 040                            | 20 301                             | 1 301   |
| 33994            | Office supplies (except<br>paper) mfg           | 4              | 29<br>22   | 7   | 624                 | 14 167               | 465        | 801              | 8 806              | 24 838                                     | 16 985                            | 45 516                             | 1 320   |
| 339943<br>339944 | Marking device mfg<br>Carbon paper & inked      | 1              | 22         | 5   | 337                 | 7 119                | 231        | 376              | 4 076              | 16 247                                     | 8 810                             | 25 095                             | 762   |
|                  | ribbon mfg                                      | 9              | 1          | 1   | с                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 33995<br>339950  | Sign mfg<br>Sign mfg                            | 3<br>3         | 150<br>150 | 13<br>13                                  | 1 366<br>1 366      | 37 455<br>37 455     | 829<br>829 | 1 473<br>1 473   | 18 605<br>18 605   | 72 935<br>72 935                           | 41 007<br>41 007                  | 114 171<br>114 171                 | 3 098<br>3 098                                  |
| 33999            | All other miscellaneous                         |                |            |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 339991           | mfg<br>Gasket, packing, &                       | 3              | 105        | 18  | 1 083               | 25 593               | 812        | 1 462            | 15 489             | 58 885                                     | 39 248                            | 95 984                             | 3 656   |
| 339992           | sealing device mfg<br>Musical instrument        | 2              | 9          | 1   | 104                 | 4 099                | 72         | 140              | 1 743              | 6 720                                      | 3 253                             | 9 994                              | 463   |
| 339999           | mfg<br>All other miscellaneous                  | 2              | 17         | 4   | 244                 | 5 753                | 191        | 383              | 4 215              | 13 529                                     | 6 976                             | 20 650                             | 541   |
|                  | mfg   | 4              | 69         | 13  | 664                 | 13 816               | 496        | 840              | 8 378              | 32 267                                     | 25 678                            | 55 628                             | 2 434   |

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more. <sup>2</sup>Industries with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 to 2,4999 employees; k–250 to 499 employees; k–500 to 999 employees; g–10,000 to 2,4999 employees; k–25,000 to 49,999 employees; I–50,000 to 9,999 employees or more.

[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]

| appenu          | ixes. For meaning of abbreviatio                         | лі5 a          | nu symbo      | Jis, see iii                              |                     |                      |            |                  |                    |  |                                   |                                    |   |
|-----------------|--|----------------|---------------|---|---------------------|----------------------|------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                 |  |                | /<br>establis | All<br>shments                            | All emp             | oloyees              | Pr         | roduction work   | ters               |  |                                   |                                    |   |
| NAICS<br>code   | Geographic area and industry                             | E <sup>1</sup> | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number     | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                 | BELLINGHAM, WA MSA                                       |                |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing  | _              | 314           | 84  | 9 184               | 281 360              | 6 856      | 12 975           | 183 074            | 841 770                                    | 3 090 001                         | 3 946 981                          | 86 393  |
| 311             | Food mfg   | _              | 42            | 19  | 1 372               | 31 740               | 1 107      | 1 877            | 22 200             | 162 162                                    | 292 567                           | 465 837                            | 5 544   |
| 3117            | Seafood product  |                | 45            |   | 045                 | 45 744               | 707        |                  | 40 540             | 45 504                                     | 405 000                           | 450 775                            | 0.040   |
| 31171           | preparation & packaging<br>Seafood product               | _              | 15            | 9   | 815                 | 15 744               | 727        | 1 211            | 12 546             | 45 521                                     | 105 226                           | 150 775                            | 2 046   |
|                 | preparation & packaging                                  | _              | 15            | 9   | 815                 | 15 744               | 727        | 1 211            | 12 546             | 45 521                                     | 105 226                           | 150 775                            | 2 046   |
| 311712          | Fresh & frozen<br>seafood processing                     | _              | 14            | 9   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 314             | Textile product mills                                    | -              | 20            | 4   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | 436   |
| 3149<br>31499   | Other textile product mills<br>All other textile product | -              | 17            | 4   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 31433           | mills  | -              | 10            | 4   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | 380   |
| 321             | Wood product mfg   | 1              | 28            | 11  | 1 014               | 25 476               | 861        | 1 654            | 18 980             | 59 082                                     | 132 270                           | 182 993                            | 3 321   |
| 3211            | Sawmills & wood<br>preservation                          | _              | 9             | 4   | 269                 | 8 027                | 208        | 407              | 5 169              | 22 587                                     | 52 028                            | 68 751                             | 1 753   |
| 32111           | Sawmills & wood preservation                             | _              | 9             | 4   | 269                 | 8 027                | 208        | 407              | 5 169              | 22 587                                     | 52 028                            | 68 751                             | 1 753   |
| 3212            | Veneer, plywood, &                                       |                |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
|                 | engineered wood product<br>mfg                           | _              | 4             | 2   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | 300   |
| 32121           | Veneer, plywood, &<br>engineered wood                    |                |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
|                 | product mfg  | -              | 4             | 2   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | 300   |
| 3219<br>32191   | Other wood product mfg<br>Millwork                       | 2<br>2         | 15<br>7       | 5<br>4                                    | e<br>367            | D<br>8 922           | D<br>325   | D<br>623         | D<br>7 168         | D<br>21 856                                | D<br>48 164                       | D<br>69 301                        | 1 268<br>1 075                                  |
| 322             | Paper mfg  | -              | 2             | 2   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 3221            | Pulp, paper, & paperboard mills                          | _              | 1             | 1   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 32212<br>322121 | Paper mills<br>Paper (except                             | -              | 1             | 1   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| OLL IL I        | newsprint) mills   | -              | 1             | 1   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 323             | Printing & related support activities                    | 2              | 18            | 3   | 343                 | 4 146                | 134        | 203              | 2 850              | 5 779                                      | 4 113                             | 9 865                              | 669   |
| 3231            | Printing & related support                               |                | 10            |   | 040                 | 4 140                | 104        | 000              | 0.050              | 5 770                                      | 4 110                             | 0.005                              | 000   |
| 32311           | activities<br>Printing                                   | 2<br>2         | 18<br>15      | 3<br>3                                    | 343<br>327          | 4 146<br>3 769       | 134<br>119 | 203<br>178       | 2 850<br>2 558     | 5 779<br>4 935                             | 4 113<br>3 922                    | 9 865<br>8 829                     | 669<br>633                                      |
| 324             | Petroleum & coal products<br>mfg                         | _              | 3             | 3   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 3241            | Petroleum & coal products                                |                |               |   |                     |                      | D          |                  |                    |  | D                                 |                                    | D   |
| 32411           | mfg<br>Petroleum refineries                              | _              | 3<br>2<br>2   | 3<br>2<br>2                               | f                   | D<br>D               | D<br>D     | DDD              | D                  | D  | D                                 | D<br>D                             | D<br>D  |
| 324110          | Petroleum refineries                                     | -              | 2             | 2   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 326             | Plastics & rubber products<br>mfg                        | 7              | 11            | 4   | 380                 | 11 760               | 273        | 604              | 7 026              | 23 423                                     | 16 368                            | 39 572                             | 1 758   |
| 3261<br>32619   | Plastics product mfg                                     | 7              | 9             | 4   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
|                 | Other plastics product                                   | 7              | 7             | 4   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 326199          | All other plastics<br>product mfg                        | 9              | 6             | 3   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 327             | Nonmetallic mineral product mfg                          | _              | 17            | 5   | 295                 | 9 663                | 238        | 486              | 7 086              | 21 610                                     | 23 677                            | 45 162                             | 1 487   |
| 3273            | Cement & concrete product                                |                |               | 5   |                     |                      |            |                  |                    |  |                                   |                                    | 1 407   |
|                 | mfg  | -              | 8             | 5   | 253                 | 8 855                | 214        | 440              | 6 496              | 19 313                                     | 22 096                            | 41 264                             | D   |
| 331<br>3313     | Primary metal mfg  | -              | 4             | 1   | g                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 33131           | production & processing<br>Alumina & aluminum            | -              | 1             | 1   | g                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 33131           | production &   |                | 1             | 1   |                     | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 331312          | processing<br>Primary aluminum                           | _              | 1             |   | g                   | D                    | D          |                  | D                  | D  | D                                 | D                                  | D   |
| 332             | production   | _              | 1             | 1   | g                   | U                    | D          |                  | U                  |  | D                                 | U                                  | D   |
|                 | mfg  | 3              | 35            | 4   | 324                 | 8 082                | 259        | 409              | 5 666              | 17 545                                     | 13 801                            | 31 573                             | 1 778   |
| 333             | Machinery mfg  | -              | 23            | 5   | 303                 | 9 791                | 214        | 369              | 6 140              | 24 436                                     | 16 796                            | 40 600                             | 834   |
| 335             | Electrical equipment,                                    |                |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
|                 | appliance, & component<br>mfg                            | 9              | 4             | 1   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 3359            | Other electrical equipment                               |                |               |   |                     |                      | _          |                  |                    | _  |                                   |                                    | _   |
| 33599           | & component mfg<br>All other electrical                  | 9              | 4             | 1   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
|                 | equipment & component mfg                                | 9              | 3             | 1   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 335999          | All other miscellaneous electrical equipment &           | -              | -             |   |                     | _                    | -          | -                | _                  | _  | _                                 | _                                  | -   |
| 000             | component mfg  | 9              | 3             | 1   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 336             | Transportation equipment<br>mfg                          | -              | 30            | 8   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | 1 932   |
| 3366            | Ship & boat building                                     | -              | 19<br>19      | 5<br>5                                    | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | 222<br>222                                      |
| 33661           | Ship & boat building                                     | . –            | 19            | 5   | e                   | וט                   | D          | , D              | , D                | ı D  | ı D                               | . D                                | 222   |

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

|               |  |    | A     | All<br>shments                    |                     | ployees   | Pr      | oduction work | ers       |                |                      |                       |                                    |
|---------------|--|----|-------|-----------------------------------|---------------------|-----------|---------|---------------|-----------|----------------|----------------------|-----------------------|------------------------------------|
| NAICS<br>code | Geographic area and industry                           | -1 |       | With 20<br>em-<br>ploy-<br>ees or | Number 2            | Payroll   | Number  | Hours         | Wages     | Value added by | Cost of<br>materials | Value of<br>shipments | Total capital<br>expendi-<br>tures |
|               | BELLINGHAM, WA MSA                                     | E1 | Total | more                              | Number <sup>2</sup> | (\$1,000) | Number  | (1,000)       | (\$1,000) | (\$1,000)      | (\$1,000)            | (\$1,000)             | (\$1,000)                          |
| 31-33         | —Con.<br>Manufacturing—<br>Con.                        |    |       |                                   |                     |           |         |               |           |                |                      |                       |                                    |
| 339           | Miscellaneous mfg                                      | 5  | 32    | 7                                 | 516                 | 12 197    | 383     | 645           | 7 341     | 21 738         | 16 483               | 42 070                | 738                                |
| 3399          | Other miscellaneous mfg                                | 9  | 13    | 3                                 | 338                 | 7 554     | 267     | 446           | 4 894     | 9 319          | 8 937                | 42 070<br>21 813      | 617                                |
|               | PORTLAND-SALEM,<br>OR-WA CMSA                          |    |       |                                   |                     |           |         |               |           |                |                      |                       |                                    |
| 31-33         | Manufacturing  | -  | 3 828 | 1 170                             | 149 132             | 5 101 996 | 107 876 | 213 841       | 3 120 336 | 20 335 240     | 15 291 633           | 35 464 372            | 2 016 207                          |
|               | Portland–Salem, OR–WA<br>CMSA (OR Part)                | _  | 3 407 | 1 039                             | 129 595             | 4 386 764 | 92 560  | 183 708       | 2 630 978 | 18 349 799     | 13 385 498           | 31 610 060            | 1 501 888                          |
|               | Portland–Salem, OR–WA<br>CMSA (WA Part)                | -  | 421   | 131                               | 19 537              | 715 232   | 15 316  | 30 133        | 489 358   | 1 985 441      | 1 906 135            | 3 854 312             | 514 319                            |
| 311           | Food mfg   | 1  | 244   | 107                               | 12 295              | 353 235   | 9 086   | 17 599        | 219 058   | 1 240 619      | 1 778 639            | 3 016 301             | 92 405                             |
| 312           | Beverage & tobacco product mfg                         | 1  | 55    | 16                                | 1 562               | 48 081    | 763     | 1 392         | 22 598    | 176 277        | 265 102              | 439 487               | D                                  |
| 313           | Textile mills  | -  | 19    | 5                                 | f                   | D         | D       | D             | D         | D              | D                    | D                     | D                                  |
| 314           | Textile product mills                                  | 3  | 58    | 13                                | 964                 | 18 506    | 757     | 1 395         | 11 907    | 25 660         | 35 100               | 61 069                | D                                  |
| 315           | Apparel mfg  | -  | 57    | 21                                | g                   | D         | D       | D             | D         | D              | D                    | D                     | D                                  |
| 316           | Leather & allied product mfg .                         | 1  | 22    | 5                                 | 453                 | 9 997     | 362     | 698           | 6 453     | 24 391         | 15 036               | 39 301                | D                                  |
| 321           | Wood product mfg                                       | -  | 238   | 98                                | 8 923               | 243 127   | 7 534   | 14 829        | 178 779   | 564 198        | 1 250 612            | 1 814 835             | 38 654                             |
| 322           | Paper mfg  | -  | 58    | 40                                | i                   | D         | D       | D             | D         | D              | D                    | D                     | D                                  |
| 323           | Printing & related support activities                  | 1  | 452   | 80                                | 6 910               | 225 235   | 5 072   | 9 771         | 145 199   | 495 891        | 377 496              | 868 843               | D                                  |
| 324           | Petroleum & coal products<br>mfg                       | 5  | 17    | 9                                 | f                   | D         | D       | D             | D         | D              | D                    | D                     | D                                  |
| 325           | Chemical mfg   | 2  | 130   | 45                                | 2 885               | 116 588   | 1 585   | 3 035         | 47 406    | 428 890        | 353 217              | 780 773               | D                                  |
| 326           | Plastics & rubber products<br>mfg                      | 1  | 183   | 70                                | 6 748               | 177 873   | 5 099   | 9 716         | 109 625   | 430 174        | 456 972              | 885 641               | D                                  |
| 327           | Nonmetallic mineral product mfg                        | -  | 144   | 41                                | 3 472               | 119 229   | 2 689   | 5 597         | 85 151    | 342 917        | 273 094              | 612 735               | D                                  |
| 331           | Primary metal mfg                                      | -  | 58    | 35                                | i                   | D         | D       | D             | D         | D              | D                    | D                     | D                                  |
| 332           | Fabricated metal product mfg                           | 1  | 699   | 210                               | 17 005              | 545 931   | 12 860  | 25 578        | 352 473   | 1 275 386      | 1 009 001            | 2 260 083             | 92 992                             |
| 333           | Machinery mfg  | -  | 316   | 101                               | 11 264              | 419 441   | 7 190   | 14 435        | 224 568   | 907 962        | 868 122              | 1 783 878             | 61 377                             |
| 334           | Computer & electronic<br>product mfg                   | _  | 246   | 102                               | 34 951              | 1 412 942 | 22 292  | 45 765        | 737 756   | 10 469 852     | 4 278 269            | 14 645 263            | D                                  |
| 335           | Electrical equipment,<br>appliance, & component<br>mfg | 1  | 58    | 19                                | g                   | D         | D       | D             | D         | D              | D                    | D                     | D                                  |
| 336           | Transportation equipment mfg                           | -  | 140   | 52                                | j                   | D         | D       | D             | D         | D              | D                    | D                     | D                                  |
| 337           | Furniture & related product mfg                        | 2  | 254   | 44                                | 4 033               | 103 741   | 3 061   | 5 868         | 70 017    | 207 590        | 173 787              | 383 835               | D                                  |
| 339           | Miscellaneous mfg                                      | 1  | 380   | 57                                | 6 622               | 192 011   | 4 509   | 8 501         | 95 521    | 427 182        | 300 406              | 719 649               | 27 701                             |

[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]

| аррени                  | inces. I of meaning of abbreviatio                                       | 110 0  |               | 513, 300 111                              |                     | 1                    |                 |                  |                    |  | I                                 |                                    |   |
|-------------------------|--|--------|---------------|---|---------------------|----------------------|-----------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                         |  |        | /<br>establis | All<br>shments                            | All em              | ployees              | Pr              | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code           | Geographic area and industry   | E1     | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number          | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                         | PORTLAND-SALEM,<br>OR-WA CMSA-Con.                                       |        |               |   |                     |                      |                 |                  |                    |  |                                   |                                    |   |
|                         | Portland–Vancouver,<br>OR–WA PMSA  |        |               |   |                     |                      |                 |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing  | -      | 3 363         | 1 025                                     | 134 123             | 4 684 217            | 96 066          | 190 898          | 2 851 556          | 19 245 780                                 | 13 780 856                        | 32 874 201                         | 1 902 986                                       |
|                         | Portland–Vancouver, OR–WA<br>PMSA (OR Part)<br>Portland–Vancouver, OR–WA | -      | 2 942         | 894                                       | 114 586             | 3 968 985            | 80 750          | 160 765          | 2 362 198          | 17 260 339                                 | 11 874 721                        | 29 019 889                         | 1 388 667                                       |
| 311                     | PMSA (WA Part)   | -      | 421<br>201    | 131<br>83                                 | 19 537<br>8 563     | 715 232<br>261 857   | 15 316<br>6 035 | 30 133<br>11 786 | 489 358<br>154 842 | 1 985 441<br>994 995                       | 1 906 135<br>1 241 953            | 3 854 312<br>2 234 222             | 514 319<br>75 331                               |
| 3112                    | Food mfg<br>Grain & oilseed milling                                      | _      | 8             | 4   | e 505               | 201 037<br>D         | 0 035<br>D      | D                | 134 842<br>D       | 534 555<br>D                               | 1 241 933<br>D                    | 2 234 222<br>D                     | 73 331<br>D                                     |
| 3114                    | Fruit & vegetable<br>preserving & specialty                              |        |               |   |                     |                      |                 |                  |                    |  |                                   |                                    |   |
| 31141                   | food mfg<br>Frozen food mfg  | _      | 28<br>11      | 15<br>8                                   | 1 456<br>757        | 45 513<br>25 534     | 1 113<br>550    | 2 249<br>1 169   | 21 903<br>11 177   | 144 179<br>86 028                          | 122 812<br>73 830                 | 270 763<br>164 562                 | 4 256<br>2 690                                  |
| 311411<br>311412        | Frozen fruit, juice, &<br>vegetable mfg<br>Frozen specialty food         | -      | 9             | 6   | е                   | D                    | D               | D                | D                  | D  | D                                 | D                                  | D   |
|                         | mfg  | -      | 2             | 2   | е                   | D                    | D               | D                | D                  | D  | D                                 | D                                  | D   |
| 31142                   | Fruit & vegetable<br>canning, pickling, &<br>drying                      | _      | 17            | 7   | 699                 | 19 979               | 563             | 1 080            | 10 726             | 58 151                                     | 48 982                            | 106 201                            | 1 566   |
| 311421                  | Fruit & vegetable canning  | _      | 15            | 7   | f                   | D                    | D               | D                | D                  | D  | D                                 | D                                  | D   |
| 3115<br>31151           | Dairy product mfg<br>Dairy product (except                               | -      | 13            | 12  | 847                 | 26 475               | 528             | 1 075            | 15 170             | 109 563                                    | 278 495                           | 387 310                            | 15 092  |
| 311511                  | frozen) mfg<br>Fluid milk mfg  | -      | 12<br>10      | 11<br>9                                   | f                   | D<br>D               | D<br>D          | D<br>D           | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | 15 092<br>D                                     |
| 3116<br>31161           | Meat product mfg<br>Animal slaughtering &                                | 3      | 27            | 10  | 674                 | 15 717               | 543             | 989              | 10 514             | 43 752                                     | 119 493                           | 162 986                            | 2 589   |
| 311612                  | processing<br>Meat processed from  | 3      | 27            | 10  | 674                 | 15 717               | 543             | 989              | 10 514             | 43 752                                     | 119 493                           | 162 986                            | 2 589   |
| 3118                    | carcasses<br>Bakeries & tortilla mfg                                     | 5<br>- | 18<br>72      | 7<br>26                                   | f<br>3 387          | D<br>104 060         | D<br>2 284      | D<br>4 290       | D<br>67 580        | D<br>282 751                               | D<br>244 209                      | D<br>526 805                       | 2 407<br>25 434                                 |
| 31181<br>311811         | Bread & bakery product<br>mfg  | 1<br>3 | 58<br>22      | 21<br>3                                   | 2 436               | 69 288<br>D          | 1 472<br>D      | 2 689<br>D       | 39 366<br>D        | 174 918                                    | 138 127<br>D                      | 313 055<br>D                       | D   |
| 311812                  | Retail bakeries<br>Commercial bakeries .                                 | -      | 33            | 17  | 2 024               | 62 139               | 1 216           | 2 240            | 34 882             | 156 350                                    | 122 456                           | 278 846                            | 12 448  |
| 31182<br>311821         | Cookie, cracker, & pasta<br>mfg<br>Cookie & cracker mfg .                | -      | 12<br>8       | 4   | f<br>683            | D<br>28 124          | D<br>587        | D<br>1 149       | D<br>22 787        | D<br>82 623                                | D<br>62 523                       | D<br>144 912                       | D<br>D  |
| 3119                    | Other food mfg   | 1      | 27            | 12  | 1 600               | 48 649<br>D          | 1 170<br>D      | 2 411            | 27 799<br>D        | 326 769                                    | 274 423<br>D                      | 596 548<br>D                       | 19 691<br>D                                     |
| 31191<br>311919         | Snack food mfg<br>Other snack food mfg .                                 | 1      | 3<br>2        | 2<br>2                                    | f                   | D                    | D               | D                | D                  | D  | D                                 | D                                  | D   |
| 31199<br>311991         | All other food mfg<br>Perishable prepared<br>food mfg                    | _      | 11<br>8       | 5   | 447<br>e            | 7 732<br>D           | 322<br>D        | 638<br>D         | 5 082<br>D         | 41 440<br>D                                | 57 756<br>D                       | 97 387<br>D                        | 1 493<br>D                                      |
| 312                     | Beverage & tobacco product   |        |               |   |                     |                      |                 |                  |                    | 158 369                                    | 239 319                           |                                    |   |
| 3121                    | mfg<br>Beverage mfg  | -      | 42<br>42      | 13<br>13                                  | 1 413<br>1 413      | 44 019<br>44 019     | 684<br>684      | 1 264<br>1 264   | 20 680<br>20 680   | 158 369                                    | 239 319                           | 396 092<br>396 092                 | 10 104<br>10 104                                |
| 31211<br>312111         | Soft drink & ice mfg<br>Soft drink mfg                                   | -      | 8<br>4        | 5<br>4                                    | 658<br>607          | 20 970<br>19 864     | 320<br>283      | 604<br>549       | 8 652<br>8 073     | 61 752<br>58 396                           | 171 074<br>166 470                | 233 340<br>225 370                 | D<br>4 944                                      |
| 31212<br>312120         | BreweriesBreweries   | -      | 11<br>11      | 4<br>4                                    | 534<br>534          | 18 525<br>18 525     | 287<br>287      | 561<br>561       | 10 542<br>10 542   | 80 943<br>80 943                           | 56 624<br>56 624                  | 137 743<br>137 743                 | D<br>D  |
| 313                     | Textile mills  | -      | 17            | 4   | 510                 | 15 483               | 387             | 642              | 11 210             | 30 045                                     | 55 825                            | 86 333                             | D   |
| 3132<br>31321<br>313210 | Fabric mills<br>Broadwoven fabric mills .<br>Broadwoven fabric           | -      | 10<br>6       | 3<br>2                                    | e<br>e              | D<br>D               | D<br>D          | D                | D                  | D  | D<br>D                            | D<br>D                             | D<br>D  |
|                         | mills  | -      | 6             | 2   | е                   | D                    | D               | D                | D                  | D  | D                                 | D                                  | D   |
| 314<br>3141             | Textile product mills<br>Textile furnishings mills                       | 3<br>2 | 50<br>19      | 10<br>4                                   | 830<br>382          | 15 774<br>7 929      | 650<br>311      | 1 201<br>635     | 10 109<br>5 446    | 21 810<br>9 041                            | 31 518<br>16 457                  | 53 674<br>25 635                   | 1 510<br>805                                    |
| 31412                   | Curtain & linen mills  | 2      | 19            | 4   | 382                 | 7 929                | 311             | 635              | 5 446              | 9 041                                      | 16 457                            | 25 635                             | 805   |
| 3149<br>31491           | Other textile product mills<br>Textile bag & canvas<br>mills             | 4      | 31<br>18      | 6<br>4                                    | 448<br>e            | 7 845<br>D           | 339<br>D        | 566<br>D         | 4 663<br>D         | 12 769<br>D                                | 15 061<br>D                       | 28 039<br>D                        | 705<br>409                                      |
| 315                     | Apparel mfg  | _      | 48            | 17  | 1 903               | 33 693               | 1 682           | 3 446            | 26 742             | 79 432                                     | 83 245                            | 162 069                            | 403<br>D  |
| 3152<br>31521           | Cut & sew apparel mfg<br>Cut & sew apparel                               | -      | 35            | 15  | g                   | D                    | D               | D                | D                  | D  | D                                 | D                                  | D   |
| 315212                  | contractors<br>Women's, girls', &  | 1      | 18            | 8   | f                   | D                    | D               | D                | D                  | D  | D                                 | D                                  | D   |
|                         | infants' cut & sew apparel contractors                                   | 1      | 14            | 6   | 672                 | 10 227               | 629             | 1 145            | 9 182              | 13 205                                     | 1 298                             | 14 411                             | D   |
| 31522                   | Men's & boys' cut & sew apparel mfg                                      | -      | 7             | 4   | e                   | D                    | D               | D                | D                  | D  | D                                 | D                                  | D   |
| 31523                   | Women's & girls' cut & sew apparel mfg                                   | _      | 7             | 3   | f                   | D                    | D               | D                | D                  | D  | D                                 | D                                  | D   |
| 315239                  | Women's & girls' cut &<br>sew other outerwear                            |        |               |   |                     |                      |                 |                  |                    |  |                                   |                                    |   |
| 316                     | mfg<br>Leather & allied product mfg .                                    | _      | 4             | 3   | e<br>413            | D<br>9 167           | D<br>328        | D<br>641         | D<br>5 868         | D<br>22 534                                | D<br>13 190                       | D<br>35 590                        | D   |
| 0.0                     | cance a amou product my .  | . –    | 10            | . 5                                       |                     | 5 10/                | 020             |                  | . 5 000            | . 22 504                                   | 10 1001                           | 00 000                             |   |

[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]

| append           | ixes. For meaning of abbreviatio                           | /10 u  |               | 510, 000 III                              |                     |                      |                |                  |                    |  |                                   |                                    |   |
|------------------|--|--------|---------------|---|---------------------|----------------------|----------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                  |  |        | /<br>establis | All<br>shments                            | All emp             | oloyees              | Pr             | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code    | Geographic area and industry                               | E1     | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number         | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                  | PORTLAND-SALEM,<br>OR-WA CMSA-Con.                         |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
|                  | Portland–Vancouver,<br>OR–WA PMSA–Con.                     |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 31-33            | Manufacturing<br>Con.                                      |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 321              | Wood product mfg   | -      | 189           | 72  | 5 952               | 161 443              | 5 015          | 9 603            | 119 318            | 389 887                                    | 864 847                           | 1 256 602                          | 26 246  |
| 3211             | Sawmills & wood preservation                               | _      | 40            | 19  | 2 272               | 69 370               | 1 993          | 4 076            | 56 645             | 189 584                                    | 591 209                           | 782 692                            | 15 448  |
| 32111            | Sawmills & wood<br>preservation                            | _      | 40            | 19  | 2 272               | 69 370               | 1 993          | 4 076            | 56 645             | 189 584                                    | 591 209                           | 782 692                            | 15 448  |
| 321113           | Sawmills   | -      | 35            | 15  | 2 062               | 62 102               | 1 847          | 3 772            | 52 388             | 166 931                                    | 526 525                           | 693 690                            | 14 538  |
| 3212             | Veneer, plywood, &<br>engineered wood product              | 0      | 29            | 10  | 940                 | 26 428               | 747            | 1 510            | 17 754             | 50 405                                     | 07 415                            | 144,000                            | 2 400   |
| 32121            | mfg<br>Veneer, plywood, &<br>engineered wood               | 2      | 29            | 16  | 940                 | 26 428               |                | 1 513            | 17 754<br>17 754   | 56 485                                     | 87 415                            | 144 003<br>144 003                 |   |
| 321214           | product mfg<br>Truss mfg                                   | 2<br>3 | 29<br>16      | 16<br>11                                  | 940<br>524          | 26 428<br>15 158     | 747<br>386     | 1 513<br>755     | 8 540              | 56 485<br>32 279                           | 87 415<br>32 539                  | 64 991                             | 2 400<br>1 119                                  |
| 3219<br>32191    | Other wood product mfg<br>Millwork                         | 1<br>1 | 120<br>54     | 37<br>22                                  | 2 740<br>1 445      | 65 645<br>39 331     | 2 275<br>1 216 | 4 014<br>2 275   | 44 919<br>26 780   | 143 818<br>84 790                          | 186 223<br>109 029                | 329 907<br>193 502                 | 8 398<br>6 145                                  |
| 321911           | Wood window & door<br>mfg                                  | 1      | 20            | 8   | 612                 | 17 709               | 509            | 957              | 11 579             | 42 091                                     | 41 322                            | 83 708                             | 1 621   |
| 321912<br>321918 | Cut stock, resawing<br>lumber, & planing<br>Other millwork | -      | 22            | 9   | 517                 | 13 757               | 452            | 856              | 10 272             | 26 496                                     | 39 588                            | 65 308                             | 4 000   |
| 521910           | (including flooring)                                       | -      | 12            | 5   | 316                 | 7 865                | 255            | 462              | 4 929              | 16 203                                     | 28 119                            | 44 486                             | 524   |
| 32192            | Wood container & pallet<br>mfg                             | _      | 23            | 8   | 418                 | 8 766                | 353            | 631              | 6 066              | 17 522                                     | 32 244                            | 49 680                             | 1 277   |
| 321920           | Wood container &<br>pallet mfg                             | -      | 23            | 8   | 418                 | 8 766                | 353            | 631              | 6 066              | 17 522                                     | 32 244                            | 49 680                             | 1 277   |
| 32199            | All other wood product                                     | 1      | 43            | 7   | 877                 | 17 548               | 706            | 1 108            | 12 073             | 41 506                                     | 44 950                            | 86 725                             | 976   |
| 321991           | Manufactured home<br>(mobile home) mfg                     | _      | -0            | 2   | e                   | D                    | , 00<br>D      | D                | 12 0/0<br>D        | -1 300<br>D                                | ++ 330<br>D                       | 00 723<br>D                        | D   |
| 321999           | All other miscellaneous<br>wood product mfg                | 6      | 33            | 4   | 337                 | 5 126                | 277            | 419              | 3 830              | 10 681                                     | 8 553                             | 19 476                             | 639   |
| 322              | Paper mfg  | -      | 55            | 38  | 7 466               | 301 557              | 6 075          | 11 968           | 220 025            | 1 135 865                                  | 1 163 372                         | 2 311 160                          | D   |
| 3221             | Pulp, paper, & paperboard mills                            | _      | 6             | 6   | 4 113               | 184 440              | 3 433          | 6 789            | 142 605            | 775 319                                    | 748 489                           | 1 535 651                          | D   |
| 32212<br>322121  | Paper mills<br>Paper (except                               | -      | 6             | ő   | 4 113               | 184 440              | 3 433          | 6 789            | 142 605            | 775 319                                    | 748 489                           | 1 535 651                          | D   |
| 322122           | newsprint) mills<br>Newsprint mills                        | -      | 4<br>2        | 4<br>2                                    | h<br>f              | D<br>D               | D<br>D         | D<br>D           | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | D<br>D  |
| 3222             | Converted paper product                                    | _      | 49            | 32  | 3 353               | 117 117              | 2 642          | 5 179            | 77 420             | 360 546                                    | 414 883                           | 775 509                            | D   |
| 32221            | Paperboard container<br>mfg                                | _      | 17            | 13  | 1 248               | 46 454               | 957            | 1 834            | 30 678             | 110 794                                    | 170 660                           | 280 583                            | D   |
| 322211           | Corrugated & solid fiber box mfg                           | -      | 8             | 6   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 32222            | Paper bag & coated & treated paper mfg                     | _      | 16            | 11  | 1 306               | 47 442               | 1 050          | 2 171            | 32 995             | 127 855                                    | 171 092                           | 301 201                            | п   |
| 322221           | Coated & laminated   |        | 10            |   | 1 300               |                      | 1 030          | 2 171            | 02 000             | 127 000                                    | 171 032                           | 301 201                            | D   |
| 322224           | packaging paper &<br>plastics film mfg<br>Uncoated paper & | -      | 1             | 1   | e                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 32223            | multiwall bag mfg<br>Stationery product mfg                | -      | 6<br>9        | 6<br>5                                    | 663<br>f            | 22 045<br>D          | 544<br>D       | 1 052<br>D       | 15 764<br>D        | 53 352<br>D                                | 63 989<br>D                       | 117 344<br>D                       | D   |
| 322232           | Envelope mfg   | 1      | 5             | 4   | e                   | Ď                    | Ď              | Ď                | D                  | D  | Ď                                 | D                                  | D   |
| 32229            | Other converted paper<br>product mfg                       | -      | 7             | 3   | е                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 323              | Printing & related support activities                      | 1      | 417           | 76  | 6 502               | 213 655              | 4 763          | 9 138            | 137 484            | 464 175                                    | 361 950                           | 820 976                            | 34 530  |
| 3231             | Printing & related support<br>activities                   | 1      | 417           | 76  | 6 502               | 213 655              | 4 763          | 9 138            | 137 484            | 464 175                                    | 361 950                           | 820 976                            | 34 530  |
| 32311<br>323110  | Printing<br>Commercial<br>lithographic printing            | 1      | 359<br>161    | 63<br>30                                  | 5 609<br>2 924      | 180 919<br>107 327   | 4 064<br>2 084 | 7 739<br>4 025   | 114 259<br>68 460  | 405 234<br>219 327                         | 347 421<br>229 298                | 746 851<br>444 843                 | 30 365<br>15 325                                |
| 323112           | Commercial<br>flexographic printing .                      | _      | 9             | 8   | 2 924<br>336        | 107 327              | 2 084<br>212   | 4 025<br>407     | 5 113              | 31 260                                     | 229 298<br>34 400                 | 65 162                             | 15 325<br>D                                     |
| 323113           | Commercial screen  | 4      | 36            | 4   | 412                 | 9 470                | 301            | 536              | 5 482              | 21 125                                     | 14 309                            | 35 333                             | 1 448   |
| 323114<br>323116 | Quick printing<br>Manifold business form                   | 1      | 87            | 4   | 544                 | 13 355               | 418            | 735              | 9 940              | 34 658                                     | 12 346                            | 46 961                             | 2 351   |
| 323118           | printing<br>Blankbook, looseleaf                           | -      | 14            | 8   | 463                 | 16 414               | 357            | 753              | 10 634             | 47 152                                     | 20 579<br>D                       | 67 422                             | 2 799   |
| 323119           | binder, & device mfg .<br>Other commercial<br>printing     | 9<br>5 | 5<br>36       | 3   | e<br>369            | D<br>9 742           | D<br>251       | D<br>434         | D<br>5 142         | D<br>23 322                                | D<br>15 508                       | D<br>38 018                        | D<br>1 194                                      |
| 32312            | Support activities for                                     |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 323121           | printing<br>Tradebinding & related                         | -      | 58<br>24      | 13  | 893<br>373          | 32 736               | 699<br>307     | 1 399            | 23 225             | 58 941                                     | 14 529                            | 74 125                             | 4 165   |
| 323122           | Work<br>Prepress services                                  | _      | 24<br>34      | 6<br>7                                    | 520                 | 11 309<br>21 427     | 307            | 642<br>757       | 8 368<br>14 857    | 18 328<br>40 613                           | 5 653<br>8 876                    | 24 321<br>49 804                   | 796<br>3 369                                    |
|                  |  |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |

[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]

| аррени                  |  | 13 a   | -            | All                                       |                     |                          |                   |                     |                          |  |                                   |                                    |   |
|-------------------------|--|--------|--------------|---|---------------------|--------------------------|-------------------|---------------------|--------------------------|--|-----------------------------------|------------------------------------|---|
|                         |  |        | establis     | shments                                   | All emp             | oloyees                  | Pr                | oduction work       | ers                      |  |                                   |                                    |   |
| NAICS<br>code           | Geographic area and industry                                       | E1     | Total        | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000)     | Number            | Hours<br>(1,000)    | Wages<br>(\$1,000)       | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                         | PORTLAND-SALEM,<br>OR-WA CMSA-Con.                                 |        |              |   |                     |                          |                   |                     |                          |  |                                   |                                    |   |
|                         | Portland–Vancouver,<br>OR–WA PMSA–Con.                             |        |              |   |                     |                          |                   |                     |                          |  |                                   |                                    |   |
| 31-33                   | Manufacturing—<br>Con.   |        |              |   |                     |                          |                   |                     |                          |  |                                   |                                    |   |
| 324                     | Petroleum & coal products mfg                                      | 4      | 14           | 6   | 429                 | 16 961                   | 290               | 623                 | 10 558                   | 77 567                                     | 143 905                           | 223 382                            | 5 562   |
| 3241                    | Petroleum & coal products  | 4      | 14           | 6   | 429                 | 16 961                   | 290               | 623                 | 10 558                   | 77 567                                     | 143 905                           | 223 382                            | 5 562   |
| 32412                   | mfg<br>Asphalt paving, roofing,<br>& saturated materials<br>mfg    | 4      | 6            | 4   | 429<br>e            | 10 901<br>D              | 230<br>D          | 023<br>D            | 10 330<br>D              | D  | 143 303<br>D                      | 223 362<br>D                       | 5 502<br>D                                      |
| 324122                  | Asphalt shingle & coating materials mfg                            | 5      | 3            | 3   | e                   | D                        | D                 | D                   | D                        | D  | D                                 | D                                  | D   |
| 325                     | Chemical mfg   | 2      | 118          | 38  | 2 578               | 102 885                  | 1 402             | 2 643               | 42 874                   | 380 688                                    | 300 148                           | 679 936                            | 47 733  |
| 3251                    | Basic chemical mfg   | 1      | 19           | 5   | 369                 | 16 741                   | 217               | 433                 | 8 522                    | 90 324                                     | 61 901                            | 152 259                            | 19 195  |
| 3254                    | Pharmaceutical & medicine mfg                                      | 5      | 18           | 11  | 703                 | 21 802                   | 396               | 598                 | 9 145                    | 61 129                                     | 33 925                            | 94 678                             | 5 585   |
| 32541                   | Pharmaceutical & medicine mfg                                      | 5      | 18           | 11  | 703                 | 21 802                   | 396               | 598                 | 9 145                    | 61 129                                     | 33 925                            | 94 678                             | 5 585   |
| 325413                  | In-vitro diagnostic<br>substance mfg                               | 3      | 5            | 5   | е                   | D                        | D                 | D                   | D                        | D  | D                                 | D                                  | D   |
| 3255                    | Paint, coating, & adhesive mfg                                     | -      | 19           | 4   | 393                 | 17 157                   | 213               | 451                 | 6 401                    | 62 885                                     | 64 628                            | 127 146                            | D   |
| 3259                    | Other chemical product mfg   | 2      | 32           | 12  | 616                 | 27 285                   | 292               | 624                 | 9 880                    | 103 366                                    | 86 963                            | 189 245                            | D   |
| 32599                   | All other chemical<br>product & preparation                        | -      | 02           |   | 0.0                 | 2. 200                   | 202               | 021                 | 0.000                    | 100 000                                    |                                   | 100 210                            | 5   |
| 325998                  | All other miscellaneous chemical product &                         | 3      | 22           | 7   | 374                 | 18 153                   | 183               | 390                 | 6 372                    | 82 864                                     | 58 978                            | 141 763                            | D   |
|                         | preparation mfg  | 3      | 14           | 7   | 313                 | 16 461                   | 142               | 319                 | 5 461                    | 78 020                                     | 53 532                            | 131 335                            | 6 679   |
| 326                     | Plastics & rubber products<br>mfg                                  | 1      | 158          | 66  | 6 286               | 166 815                  | 4 710             | 8 956               | 101 507                  | 402 481                                    | 428 323                           | 829 259                            | 35 239  |
| 3261<br>32611           | Plastics product mfg<br>Unsupported plastics                       | 1      | 128          | 55  | 5 392               | 139 662                  | 3 994             | 7 511               | 83 518                   | 328 917                                    | 366 518                           | 694 458                            | 28 536  |
| 52011                   | film, sheet, & bag mfg   | 1      | 9            | 3   | е                   | D                        | D                 | D                   | D                        | D  | D                                 | D                                  | D   |
| 32612                   | Plastics pipe, pipe fitting,<br>& unsupported profile<br>shape mfg |        |              |   |                     |                          |                   |                     |                          |  |                                   |                                    |   |
| 326121                  | Unsupported plastics   | 1      | 20           | 8   | 618                 | 16 825                   | 432               | 854                 | 10 426                   | 32 550                                     | 57 736                            | 93 414                             | 9 481   |
| 326122                  | profile shape mfg<br>Plastics pipe & pipe                          | 1      | 12<br>8      | 3<br>5                                    | 278<br>340          | 7 199<br>9 626           | 190<br>242        | 374<br>480          | 4 041                    | 14 770                                     | 12 592                            | 27 962<br>65 452                   | D   |
| 32619                   | fitting mfg<br>Other plastics product                              |        | 0            | 5   | 340                 | 9 020                    | 242               | 480                 | 6 385                    | 17 780                                     | 45 144                            | 05 452                             | D   |
| 326199                  | All other plastics   | 1      | 81           | 37  | 4 071               | 104 437                  | 3 009             | 5 520               | 61 745                   | 247 063                                    | 242 671                           | 485 969                            | 16 284  |
|                         | product mfg  | 1      | 79           | 37  | h                   | D                        | D                 | D                   | D                        | D  | D                                 | D                                  | D   |
| 3262<br>32621<br>326212 | Rubber product mfg<br>Tire mfg<br>Tire retreading                  |        | 30<br>7<br>7 | 11<br>2<br>2                              | 894<br>371<br>371   | 27 153<br>9 662<br>9 662 | 716<br>313<br>313 | 1 445<br>641<br>641 | 17 989<br>7 256<br>7 256 | 73 564<br>22 256<br>22 256                 | 61 805<br>24 448<br>24 448        | 134 801<br>46 595<br>46 595        | 6 703<br>D<br>D                                 |
| 32629                   | Other rubber product mfg   | _      | 20           | 9   | е                   | D                        | D                 | D                   | D                        | D  | D                                 | D                                  | D   |
| 327                     | Nonmetallic mineral product mfg                                    | _      | 124          | 37  | 3 254               | 112 855                  | 2 525             | 5 295               | 80 623                   | 324 713                                    | 262 642                           | 584 360                            | D   |
| 3272                    | Glass & glass product mfg.   | -      | 35           | 13  | 1 091               | 35 640                   | 813               | 1 556               | 24 787                   | 101 694                                    | 91 599                            | 193 103                            | D   |
| 32721<br>327215         | Glass & glass product<br>mfg<br>Glass product mfg                  | -      | 35           | 13  | 1 091               | 35 640                   | 813               | 1 556               | 24 787                   | 101 694                                    | 91 599                            | 193 103                            | D   |
| 027210                  | made of purchased<br>glass   | -      | 23           | 7   | 552                 | 16 139                   | 382               | 677                 | 10 594                   | 32 936                                     | 50 932                            | 84 640                             | D   |
| 3273                    | Cement & concrete product mfg                                      |        | 47           | 15  | a                   | D                        | D                 | D                   | D                        | D  | D                                 | D                                  | 10 882  |
| 32732<br>327320         | Ready-mix concrete mfg.<br>Ready-mix concrete                      | -      | 20           | 9   | 9<br>778            | 33 161                   | 658               | 1 548               | 25 791                   | 86 039                                     | 77 500                            | 163 857                            | 6 673   |
|                         | mfg  | -      | 20           | 9   | 778                 | 33 161                   | 658               | 1 548               | 25 791                   | 86 039                                     | 77 500                            | 163 857                            | 6 673   |
| 32733<br>327332         | Concrete pipe, brick, &<br>block mfg<br>Concrete pipe mfg          | 1<br>- | 12<br>7      | 4<br>4                                    | 347<br>e            | 10 722<br>D              | 245<br>D          | 520<br>D            | 6 334<br>D               | 29 086<br>D                                | 24 467<br>D                       | 51 836<br>D                        | 2 675<br>1 402                                  |
| 3279                    | Other nonmetallic mineral  | 1      | 19           |   |                     | D                        | D                 | D                   | D                        | D  | D                                 | D                                  | D   |
| 32799                   | All other nonmetallic<br>mineral product mfg                       | 1      | 19           | 4   | e<br>439            | 15 850                   | D<br>341          | D<br>814            | 12 404                   | 61 317                                     | 38 399                            | 97 735                             | D   |
| 327993                  | Mineral wool mfg   |        |              |   | 435<br>e            | 13 830<br>D              | D                 | D                   | 12 404<br>D              | D  | 58 559<br>D                       | 97 735<br>D                        | D   |

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| append                  | inces. I of meaning of abbreviatio                                |             |                | 510, 000 III                              |                     |                       |                 |                  |                       |  |                                   |                                    |   |
|-------------------------|---|-------------|----------------|---|---------------------|-----------------------|-----------------|------------------|-----------------------|--|-----------------------------------|------------------------------------|---|
|                         |   |             | /<br>establis  | All<br>shments                            | All emp             | oloyees               | Pr              | oduction work    | ers                   |  |                                   |                                    |   |
| NAICS<br>code           | Geographic area and industry                                      | E1          | Total          | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000)  | Number          | Hours<br>(1,000) | Wages<br>(\$1,000)    | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                         | PORTLAND-SALEM,<br>OR-WA CMSA-Con.                                |             |                |   |                     |                       |                 |                  |                       |  |                                   |                                    |   |
|                         | Portland–Vancouver,<br>OR–WA PMSA–Con.                            |             |                |   |                     |                       |                 |                  |                       |  |                                   |                                    |   |
| 31-33                   | Manufacturing—<br>Con.  |             |                |   |                     |                       |                 |                  |                       |  |                                   |                                    |   |
| 331                     | Primary metal mfg   | -           | 50             | 30  | 7 697               | 271 684               | 6 074           | 12 487           | 187 957               | 650 669                                    | 783 726                           | 1 408 067                          | 93 325  |
| 3311                    | Iron & steel mills & ferroalloy mfg                               | _           | 3              | 2   | g                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 33111                   | Iron & steel mills & ferroalloy mfg                               | -           | 3              | 2   | g                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 331111                  | Iron & steel mills  | -           | 3              | 2   | g                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 3312<br>33121           | Steel product mfg from<br>purchased steel<br>Iron & steel pipes & | -           | 5              | 2   | е                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
|                         | tubes mfg from<br>purchased steel                                 | -           | 2              | 1   | е                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 331210                  | Iron & steel pipes &<br>tubes mfg from                            |             | 2              | 1   |                     | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 3313                    | purchased steel<br>Alumina & aluminum                             | -           | 2              |   | е                   | U                     | U               | D                | D                     | U  | U                                 | U                                  | D   |
| 33131                   | production & processing<br>Alumina & aluminum<br>production &     | -           | 10             | 9   | g                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 331312                  | processing<br>Primary aluminum                                    | -           | 10             | 9   | g                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 331316                  | production  | -           | 2              | 2   | f                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 3315                    | product mfg   | _           | 3<br>29        | 3<br>16                                   | e<br>4 746          | D<br>147 243          | D<br>3 805      | D<br>7 757       | D<br>105 396          | D<br>395 795                               | D<br>204 436                      | D<br>601 151                       | D   |
| 33151<br>331512         | Ferrous metal foundries .<br>Steel investment                     | -           | 13             | 9   | 3 737               | 118 927               | 3 030           | 6 312            | 85 664                | 309 616                                    | 175 036                           | 483 762                            | D   |
| 331513                  | foundries<br>Steel foundries (except<br>investment)               | -           | 3              | 3   | g<br>1 112          | D<br>41 193           | D<br>948        | D<br>1 807       | D<br>29 172           | D<br>105 940                               | D<br>106 713                      | D<br>215 390                       | D   |
| 33152                   | Nonferrous metal  |             | 10             | 7   | 4 000               | 00.010                | 775             | 4 445            | 10 700                | 00.470                                     | 00,400                            | 117 000                            | D   |
| 331528                  | foundries<br>Other nonferrous<br>foundries (except die-           | -           | 16             |   | 1 009               | 28 316                | 775             | 1 445            | 19 732                | 86 179                                     | 29 400                            | 117 389                            |   |
| 332                     | casting)<br>Fabricated metal product                              | -           | 1              | 1   | Т                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
|                         | mfg   | 1           | 625            | 183                                       | 15 146              | 493 384               | 11 442          | 22 932           | 320 248               | 1 125 746                                  | 844 544                           | 1 953 603                          | 83 066  |
| 3321<br>33211<br>332116 | Forging & stamping<br>Forging & stamping<br>Metal stamping        | 3<br>3<br>3 | 22<br>22<br>11 | 9<br>9<br>6                               | 609<br>609<br>e     | 21 407<br>21 407<br>D | 448<br>448<br>D | 884<br>884<br>D  | 11 726<br>11 726<br>D | 43 430<br>43 430<br>D                      | 36 113<br>36 113<br>D             | 79 452<br>79 452<br>D              | 7 339<br>7 339<br>D                             |
| 3322<br>33221           | Cutlery & handtool mfg<br>Cutlery & handtool mfg                  | -           | 20<br>20       | 9<br>9                                    | 2 238<br>2 238      | 74 615<br>74 615      | 1 662<br>1 662  | 3 609<br>3 609   | 46 301<br>46 301      | 261 230<br>261 230                         | 179 544<br>179 544                | 430 659<br>430 659                 | 13 037<br>13 037                                |
| 332212<br>332213        | Hand & edge tool mfg .<br>Saw blade & handsaw                     | -           | 12             | 5   | g                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 3323                    | mfg<br>Architectural & structural                                 | -           | 7              | 3   | g                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 33231                   | metals mfg<br>Plate work & fabricated                             | -           | 148            | 55  | 4 294               | 140 773               | 3 130           | 6 191            | 87 846                | 290 435                                    | 287 455                           | 570 258                            | 10 402  |
| 332312                  | structural product mfg<br>Fabricated structural                   | 1           | 57             | 20  | 1 197               | 46 753                | 870             | 1 802            | 29 176                | 84 197                                     | 110 213                           | 187 901                            | 2 988   |
| 33232                   | metal mfg   | 1           | 47             | 17  | 1 095               | 43 900                | 789             | 1 674            | 27 314                | 79 833                                     | 106 827                           | 180 225                            | 2 843   |
|                         | architectural metal<br>products mfg                               | -           | 91             | 35  | 3 097               | 94 020                | 2 260           | 4 389            | 58 670                | 206 238                                    | 177 242                           | 382 357                            | 7 414   |
| 332321                  | Metal window & door<br>mfg  | -           | 10             | 6   | 1 019               | 28 648                | 782             | 1 568            | 18 478                | 72 780                                     | 83 309                            | 156 948                            | 1 921   |
| 332322<br>3324          | Sheet metal work mfg .<br>Boiler, tank, & shipping                | -           | 56             | 28  | 1 838               | 59 136                | 1 313           | 2 510            | 36 795                | 115 948                                    | 83 219                            | 197 933                            | 4 970   |
| 33241                   | container mfg<br>Power boiler & heat                              | -           | 17             | 10  | 866                 | 33 721                | 625             | 1 311            | 22 212                | 62 018                                     | 96 882                            | 159 289                            | 7 757   |
| 332410                  | exchanger mfg<br>Power boiler & heat                              | -           | 6              | 4   | е                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 33242                   | exchanger mfg<br>Metal tank (heavy gauge)                         | -           | 6              | 4   | e                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 332420                  | mfg   | -           | 5              | 3   | е                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
|                         | gauge) mfg  | -           | 5              | 3   | e                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 33243                   | Metal can, box, & other<br>metal container (light<br>gauge) mfg   | -           | 6              | 3   | е                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 3325                    | Hardware mfg  | -           | 8              | 4   | 401                 | 9 148                 | 332             | 685              | 6 374                 | 26 071                                     | 16 913                            | 42 716                             | 1 514   |
| 33251<br>332510         | Hardware mfg<br>Hardware mfg<br>Hardware mfg                      | -           | 8<br>8         | 4   | 401<br>401          | 9 148<br>9 148        | 332<br>332      | 685<br>685       | 6 374<br>6 374        | 26 071<br>26 071                           | 16 913<br>16 913                  | 42 716<br>42 716                   | 1 514<br>1 514                                  |
| 3326<br>33261           | Spring & wire product mfg .<br>Spring & wire product              | 1           | 24             | 11  | 893                 | 24 629                | 709             | 1 411            | 17 290                | 49 973                                     | 34 189                            | 85 637                             | 3 253   |
| 332618                  | mfg<br>Other fabricated wire                                      | 1           | 24             | 11  | 893                 | 24 629                | 709             | 1 411            | 17 290                | 49 973                                     | 34 189                            | 85 637                             | 3 253   |
|                         | product mfg   | 1           | 17             | 7   | 678                 | 17 633                | 552             | 1 108            | 12 733                | 37 193                                     | 25 912                            | 64 983                             | 2 626   |

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| append           |  | ліз а<br>Т  |                   | , see int                                 |                         |                             |                         |                         |                            |  |                                   |                                    |   |
|------------------|--|-------------|-------------------|---|-------------------------|-----------------------------|-------------------------|-------------------------|----------------------------|--|-----------------------------------|------------------------------------|---|
|                  |  |             | A<br>establis     | All<br>shments                            | All emp                 | oloyees                     | Pr                      | oduction work           | ers                        |  |                                   |                                    |   |
| NAICS<br>code    | Geographic area and industry   | E1          | Total             | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup>     | Payroll<br>(\$1,000)        | Number                  | Hours<br>(1,000)        | Wages<br>(\$1,000)         | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                  | PORTLAND-SALEM,<br>OR-WA CMSA-Con.   |             |                   |   |                         |                             |                         |                         |                            |  |                                   |                                    |   |
|                  | Portland–Vancouver,  |             |                   |   |                         |                             |                         |                         |                            |  |                                   |                                    |   |
| 31-33            | OR-WA PMSA-Con.<br>Manufacturing-  |             |                   |   |                         |                             |                         |                         |                            |  |                                   |                                    |   |
| 332              | Con.<br>Fabricated metal product   |             |                   |   |                         |                             |                         |                         |                            |  |                                   |                                    |   |
| 3327             | mfg—Con.<br>Machine shops, turned<br>product, & screw, nut, &                          |             |                   |   |                         |                             |                         |                         |                            |  |                                   |                                    |   |
| 33271<br>332710  | bolt mfg<br>Machine shops<br>Machine shops   | 1<br>1<br>1 | 251<br>228<br>228 | 43<br>35<br>35                            | 3 307<br>2 761<br>2 761 | 109 133<br>90 096<br>90 096 | 2 528<br>2 095<br>2 095 | 4 769<br>3 939<br>3 939 | 73 833<br>61 022<br>61 022 | 209 264<br>174 053<br>174 053              | 92 823<br>75 995<br>75 995        | 300 396<br>248 290<br>248 290      | 21 340<br>15 771<br>15 771                      |
| 33272            | Turned product & screw,<br>nut, & bolt mfg   | 2           | 23                | 8   | 546                     | 19 037                      | 433                     | 830                     | 12 811                     | 35 211                                     | 16 828                            | 52 106                             | 5 569   |
| 332721           | Precision turned product mfg   | -           | 18                | 6   | е                       | D                           | D                       | D                       | D                          | D  | D                                 | D                                  | D   |
| 3328<br>33281    | Coating, engraving, heat<br>treating, & allied activities.<br>Coating, engraving, heat | 2           | 62                | 21  | 1 088                   | 30 287                      | 881                     | 1 720                   | 21 189                     | 77 867                                     | 29 467                            | 107 585                            | 11 865  |
| 332812           | treating, & allied<br>activities<br>Metal coating/<br>engraving (exc                   | 2           | 62                | 21  | 1 088                   | 30 287                      | 881                     | 1 720                   | 21 189                     | 77 867                                     | 29 467                            | 107 585                            | 11 865  |
| 332813           | jewelry/silverware)/<br>allied services<br>Electroplating, plating,                    | 3           | 24                | 9   | 502                     | 13 172                      | 414                     | 775                     | 9 264                      | 29 841                                     | 15 157                            | 44 929                             | 1 757   |
|                  | polishing, anodizing,<br>& coloring  | 3           | 29                | 8   | 414                     | 11 376                      | 339                     | 655                     | 8 122                      | 22 747                                     | 7 573                             | 30 440                             | D   |
| 3329<br>33291    | Other fabricated metal<br>product mfg<br>Metal valve mfg                               | _           | 73<br>6           | 21<br>3                                   | 1 450<br>333            | 49 671<br>11 669            | 1 127<br>251            | 2 352<br>568            | 33 477<br>7 493            | 105 458<br>29 888                          | 71 158<br>22 581                  | 177 611<br>51 596                  | 6 559<br>D                                      |
| 33299            | All other fabricated metal product mfg   | 1           | 67                | 18  | 1 117                   | 38 002                      | 876                     | 1 784                   | 25 984                     | 75 570                                     | 48 577                            | 126 015                            | D   |
| 332996<br>332999 | Fabricated pipe & pipe<br>fitting mfg<br>All other miscellaneous                       | -           | 14                | 4   | 429                     | 14 954                      | 340                     | 696                     | 10 404                     | 30 192                                     | 28 663                            | 59 940                             | 3 093   |
| 002000           | fabricated metal<br>product mfg  | 1           | 41                | 11  | 543                     | 16 881                      | 419                     | 859                     | 11 010                     | 33 984                                     | 17 460                            | 52 197                             | 1 206   |
| 333<br>3331      | Machinery mfg<br>Agriculture, construction, &  | -           | 270               | 87  | 10 376                  | 392 323                     | 6 582                   | 13 242                  | 207 612                    | 858 453                                    | 812 880                           | 1 679 119                          | 57 280  |
| 33312            | mining machinery mfg<br>Construction machinery   | -           | 18                | 8   | 1 292                   | 51 270                      | 870                     | 1 838                   | 30 319                     | 93 312                                     | 148 767                           | 240 484                            | 11 293  |
| 333120           | mfg<br>Construction<br>machinery mfg   | _           | 7                 | 3<br>3                                    | 503<br>503              | 19 798<br>19 798            | 325<br>325              | 642<br>642              | 12 160<br>12 160           | 23 032<br>23 032                           | 44 985<br>44 985                  | 68 075<br>68 075                   | D   |
| 33313            | Mining & oil & gas field<br>machinery mfg  | _           | 2                 | 2   | f                       | D                           | D                       | D                       | D                          | D  | D                                 | D                                  | D   |
| 333131           | Mining machinery & equipment mfg   | -           | 2                 | 2   | f                       | D                           | D                       | D                       | D                          | D  | D                                 | D                                  | D   |
| 3332<br>33321    | Industrial machinery mfg<br>Sawmill & woodworking<br>machinery mfg                     | -           | 64<br>19          | 28<br>10                                  | 2 693<br>f              | 104 683<br>D                | 1 441<br>D              | 2 800<br>D              | 48 926<br>D                | 271 829<br>D                               | 225 915<br>D                      | 498 201<br>D                       | 16 658<br>D                                     |
| 333210           | Sawmill &<br>woodworking<br>machinery mfg  | _           | 19                | 10  | f                       | D                           | D                       | D                       | D                          | D  | D                                 | D                                  | D   |
| 33329            | Other industrial machinery mfg   | _           | 43                | 18  | 1 950                   | 79 757                      | 940                     | 1 750                   | 34 797                     | 239 463                                    | 175 747                           | 414 837                            | D   |
| 333291<br>333298 | Paper industry<br>machinery mfg<br>All other industrial                                | -           | 13                | 9   | f                       | D                           | D                       | D                       | D                          | D  | D                                 | D                                  | D   |
| 3333             | machinery mfg<br>Commercial & service  | -           | 20                | 7   | 1 057                   | 47 328                      | 515                     | 913                     | 19 808                     | 96 483                                     | 104 503                           | 199 237                            | D   |
| 33331            | industry machinery mfg<br>Commercial & service<br>industry machinery                   | -           | 28                | 9   | 1 377                   | 48 748                      | 914                     | 1 788                   | 24 756                     | 109 644                                    | 85 381                            | 197 197                            | 5 184   |
| 333314           | mfg<br>Optical instrument &<br>lens mfg  | _           | 28<br>8           | 9<br>2                                    | 1 377<br>560            | 48 748<br>22 068            | 914<br>441              | 1 788<br>852            | 24 756<br>12 599           | 109 644<br>39 490                          | 85 381<br>43 357                  | 197 197<br>82 534                  | 5 184<br>2 549                                  |
| 333319           | Other commercial &<br>service industry<br>machinery mfg                                | _           | 16                | 6   | 731                     | 23 936                      | 456                     | 904                     | 11 726                     | 71 081                                     | 38 800                            | 110 297                            | 2 528   |
| 3334             | Ventilation, heating, AC, & commercial refrigeration                                   |             |                   |   |                         |                             |                         |                         |                            |  |                                   |                                    |   |
| 33341            | equip mfg<br>Ventilation, heating, AC,<br>& commercial<br>refrigeration equip mfg .    | _           | 17<br>17          | 6   | 1 658<br>1 658          | 55 932<br>55 932            | 1 207<br>1 207          | 2 740<br>2 740          | 37 066<br>37 066           | 91 871<br>91 871                           | 130 122<br>130 122                | 222 574<br>222 574                 | 7 290<br>7 290                                  |
| 333412           | Industrial & commercial fan &  |             |                   |   |                         |                             |                         |                         |                            |  |                                   |                                    |   |
| 333415           | blower mfgAC & warm air heating<br>& commercial/<br>industrial refrig equip            | -           | 3                 | 1   | f                       | D                           | D                       | D                       | D                          | D  | D                                 | D                                  | D   |
| 3335             | mfg<br>Metalworking machinery  | -           | 6                 | 3   | е                       | D                           | D                       | D                       | D                          | D  | D                                 | D                                  | D   |
| 33351            | mfg<br>Metalworking machinery<br>mfg   | 3<br>3      | 67<br>67          | 9<br>9                                    | f                       | D                           | D                       | D                       | D                          | D  | D                                 | D                                  | D   |
|                  |  | . 0         |                   | . 31                                      |                         | DI                          |                         | . 0                     | D                          | . Di                                       | DI                                | DI                                 | 5   |

[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]

| append          | ixes. For meaning of abbreviatio  | 113 a          | nu symbo      | 513, 300 III                              | liouuciory lexi     |                      |            |                  |                    |  |                                   |                                    |   |
|-----------------|---|----------------|---------------|---|---------------------|----------------------|------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                 |   |                | /<br>establis | All<br>shments                            | All emp             | ployees              | Pro        | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code   | Geographic area and industry  | E <sup>1</sup> | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number     | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                 | PORTLAND-SALEM,<br>OR-WA CMSA-Con.  |                |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
|                 | Portland-Vancouver,<br>OR-WA PMSA-Con.  |                |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing—<br>Con.  |                |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 333             | Machinery mfg-Con.  |                |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 3339            | Other general-purpose   | 1              | 70            | 24  | 2 536               | 102 217              | 1 567      | 2 999            | 47 273             | 238 895                                    | 194 243                           | 438 886                            | 12 630  |
| 33391           | Pump & compressor<br>mfg  | -              | 6             | 5   | 633                 | 24 569               | 345        | 723              | 11 081             | 76 880                                     | 64 678                            | 147 487                            | D   |
| 333911          | Pump & pumping<br>equipment mfg   | -              | 4             | 4   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 33392           | Material handling<br>equipment mfg  | _              | 18            | 8   | 960                 | 36 269               | 624        | 1 048            | 16 292             | 77 097                                     | 56 903                            | 130 455                            | 7 418   |
| 333922          | Conveyor & conveying<br>equipment mfg   | -              | 6             | 4   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 333924          | Industrial truck, tractor,<br>trailer, & stacker                                |                |               |   |                     |                      |            |                  |                    |  |                                   |                                    | _   |
|                 | machinery mfg   | 1              | 11            | 4   | 656                 | 26 833               | 380        | 710              | 11 612             | 53 846                                     | 39 200                            | 92 382                             | D   |
| 33399<br>333991 | All other general-purpose<br>machinery mfg                                      | 2              | 46            | 11  | 943                 | 41 379               | 598        | 1 228            | 19 900             | 84 918                                     | 72 662                            | 160 944                            | D   |
| 333999          | Power-driven handtool<br>mfg<br>All other miscellaneous                         | 1              | 3             | 2   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 000000          | general-purpose<br>machinery mfg  | 6              | 25            | 2   | 253                 | 9 947                | 158        | 299              | 4 368              | 17 906                                     | 16 645                            | 37 538                             | 1 361   |
| 334             | Computer & electronic product mfg   | _              | 230           | 96  | 32 924              | 1 345 018            | 20 764     | 42 754           | 702 616            | 10 262 041                                 | 4 181 252                         | 14 340 382                         | 1 179 208                                       |
| 3341            | Computer & peripheral equipment mfg   | _              | 32            | 14  | 8 922               | 397 371              | 5 980      | 12 156           | 227 007            | 1 373 151                                  | 1 799 461                         | 3 097 327                          | 134 556   |
| 33411           | Computer & peripheral<br>equipment mfg  | _              | 32            | 14  | 8 922               | 397 371              | 5 980      | 12 156           | 227 007            | 1 373 151                                  | 1 799 461                         | 3 097 327                          | 134 556   |
| 334111          | Electronic computer<br>mfg  | 1              | 9             | 6   | g                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 334113          | Computer terminal mfg   | -              | 4             | 3   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 334119          | Other computer<br>peripheral equipment<br>mfg                                   | -              | 16            | 5   | i                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | 114 328   |
| 3342            | Communications<br>equipment mfg   | _              | 21            | 7   | 1 712               | 62 802               | 807        | 1 419            | 20 355             | 205 161                                    | 202 997                           | 410 577                            | D   |
| 33421           | Telephone apparatus<br>mfg  | _              | 7             | 2   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 334210          | Telephone apparatus mfg   | -              | 7             | 2   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 33422           | Radio & TV broadcasting<br>& wireless<br>communications                         |                |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 334220          | equipment mfg<br>Radio & TV<br>broadcasting &<br>wireless                       | -              | 7             | 4   | 359                 | 14 884               | 150        | 302              | 4 148              | 36 985                                     | 22 182                            | 58 205                             | D   |
|                 | communications<br>equipment mfg   | -              | 7             | 4   | 359                 | 14 884               | 150        | 302              | 4 148              | 36 985                                     | 22 182                            | 58 205                             | D   |
| 33429           | Other communications equipment mfg  |                | 7             | 1   |                     | D                    | D          | D                | D                  | D  | D                                 | D                                  | 1 161   |
| 334290          | Other communications<br>equipment mfg   | _              | 7             | 1   | e<br>e              | D                    | D          | D                | D                  | D  | D                                 | D                                  | 1 161   |
| 3343            | Audio & video equipment   |                |               |   |                     |                      |            |                  |                    |  |                                   |                                    | _   |
| 33431           | Mig<br>Audio & video equipment  | 1              | 8             | 4   | 500                 | 13 232               | 353        | 836              | 6 301              | 37 853                                     | 139 502<br>139 502                | 179 327                            | D   |
| 334310          | mfg<br>Audio & video<br>equipment mfg   | 1              | 8             | 4   | 500<br>500          | 13 232<br>13 232     | 353<br>353 | 836<br>836       | 6 301<br>6 301     | 37 853<br>37 853                           | 139 502                           | 179 327<br>179 327                 | D   |
| 3344            | Semiconductor & other   |                |               | -   | 000                 | 10 202               | 000        | 000              | 0 001              | 0, 000                                     | 100 002                           | 110 027                            |   |
| 33441           | electronic component<br>mfgSemiconductor & other                                | -              | 94            | 51  | 15 208              | 568 691              | 10 634     | 22 291           | 346 097            | 7 581 138                                  | 1 380 938                         | 8 913 955                          | 940 635   |
| 334412          | electronic component<br>mfg<br>Bare printed circuit                             | -              | 94            | 51  | 15 208              | 568 691              | 10 634     | 22 291           | 346 097            | 7 581 138                                  | 1 380 938                         | 8 913 955                          | 940 635   |
| 334412          | board mfg<br>Semiconductor &  | -              | 21            | 7   | g                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 334414          | related device mfg<br>Electronic capacitor                                      | -              | 25            | 18  | 8 814               | 371 315              | 6 190      | 13 423           | 246 125            | 7 155 236                                  | 1 057 978                         | 8 168 363                          | 897 566   |
| 334416          | mfg<br>Electronic coil,   | -              | 1             | 1   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 334418          | transformer, & other<br>inductor mfg<br>Printed circuit<br>assembly (electronic | 2              | 9             | 5   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 334419          | assembly) mfg<br>Other electronic<br>component mfg                              | -              | 9<br>24       | 7<br>10                                   | 1 287<br>g          | 45 310<br>D          | 708<br>D   | 1 408<br>D       | 16 769<br>D        | 91 084<br>D                                | 96 449<br>D                       | 187 138<br>D                       | 4 981<br>D                                      |
| 00410           |   | 1              | 24            | 10  | g                   | D                    | D          | D                | D                  | D  | D                                 | D                                  |   |

[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]

| append                  | ixes. I of meaning of abbreviatio   | 113 a  |               | 513, 300 mi                               | iouuciory text      | 1                    |                |                  |                    |  |                                   |                                    |   |
|-------------------------|---|--------|---------------|---|---------------------|----------------------|----------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                         |   |        | م<br>establis | All<br>shments                            | All em              | ployees              | Pr             | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code           | Geographic area and industry  | E1     | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number         | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                         | PORTLAND-SALEM,<br>OR-WA CMSA-Con.  |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
|                         | Portland-Vancouver,<br>OR-WA PMSA-Con.                                      |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing—<br>Con.  |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 334                     | Computer & electronic<br>product mfg—Con.                                   |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 3345                    | Navigational, measuring,<br>medical, & control                              |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 33451                   | instruments mfg<br>Navigational, measuring,<br>medical. & control           | -      | 60            | 18  | 6 395               | 296 641              | 2 842          | 5 717            | 98 630             | 1 046 673                                  | 644 140                           | 1 706 615                          | D   |
| 334510                  | instruments mfg<br>Electromedical &<br>electrotherapeutic                   | -      | 60            | 18  | 6 395               | 296 641              | 2 842          | 5 717            | 98 630             | 1 046 673                                  | 644 140                           | 1 706 615                          | D   |
| 334511                  | apparatus mfg<br>Search, detection,<br>navigation, &                        | -      | 6             | 4   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 334515                  | guidance instrument<br>mfg<br>Electricity measuring &<br>testing instrument | -      | 6             | 3   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
|                         | mfg   | -      | 18            | 7   | 4 656               | 222 762              | 2 154          | 4 303            | 78 304             | 845 212                                    | 532 612                           | 1 387 035                          | 67 107  |
| 335                     | Electrical equipment,<br>appliance, & component<br>mfg                      | 1      | 55            | 19  | 1 580               | 53 172               | 1 033          | 2 046            | 27 113             | 162 640                                    | 131 234                           | 289 591                            | D   |
| 3353<br>33531           | Electrical equipment mfg  | 3      | 31            | 9   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 33531<br>335314         | Electrical equipment<br>mfg<br>Relay & industrial                           | 3      | 31            | 9   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 3359                    | Control mfg   | 1      | 18            | 6   | e                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 33599                   | & component mfg<br>All other electrical<br>equipment &                      | -      | 13            | 7   | 687                 | 25 376               | 442            | 899              | 12 322             | 99 948                                     | 77 687                            | 173 901                            | 1 892   |
| 335999                  | component mfg<br>All other miscellaneous<br>electrical equipment &          | 3      | 8             | 4   | e                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
|                         | component mfg   | 3      | 8             | 4   | е                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 336                     | Transportation equipment<br>mfg   | -      | 128           | 50  | 10 446              | 395 182              | 8 650          | 16 913           | 310 376            | 1 105 248                                  | 1 388 819                         | 2 488 502                          | 39 230  |
| 3361<br>33612<br>336120 | Motor vehicle mfg<br>Heavy duty truck mfg<br>Heavy duty truck mfg .         | -      | 4<br>3<br>3   | 1<br>1<br>1                               | g<br>g              | D<br>D<br>D          | D<br>D<br>D    | D<br>D<br>D      | D<br>D<br>D        | D<br>D<br>D                                | D<br>D<br>D                       | D<br>D<br>D                        | D<br>D<br>D                                     |
| 3362                    | Motor vehicle body & trailer mfg  | 2      | 24            | 7   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 1 436   |
| 33621                   | Motor vehicle body &<br>trailer mfg   | 2      | 24            | 7   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 1 436   |
| 336214                  | Travel trailer & camper<br>mfg  | 2      | 10            | 4   | e                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 3363<br>33632           | Motor vehicle parts mfg<br>Motor vehicle electrical &                       | 1      | 39            | 17  | g                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 14 203  |
| 336322                  | electronic equipment<br>mfg<br>Other motor vehicle                          | -      | 5             | 3   | 320                 | 10 494               | 213            | 450              | 5 782              | 27 068                                     | 14 616                            | 41 852                             | D   |
| 33635                   | electrical & electronic<br>equipment mfg                                    | -      | 4             | 3   | e                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 33635                   | Motor vehicle<br>transmission & power<br>train parts mfg<br>Motor vehicle   | -      | 7             | 4   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 330330                  | transmission & power<br>train parts mfg                                     | -      | 7             | 4   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 33639                   | Other motor vehicle parts mfg   | _      | 14            | 7   | g                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 4 989   |
| 336399                  | All other motor vehicle<br>parts mfg  | -      | 14            | 7   | g                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 4 989   |
| 3364                    | Aerospace product & parts mfg   | _      | 21            | 6   | 2 261               | 98 939               | 1 771          | 3 427            | 81 261             | 245 720                                    | 95 864                            | 336 397                            | 13 124  |
| 33641                   | Aerospace product & parts mfg   | -      | 21            | 6   | 2 261               | 98 939               | 1 771          | 3 427            | 81 261             | 245 720                                    | 95 864                            | 336 397                            | 13 124  |
| 336413                  | Other aircraft part & auxiliary equipment mfg                               | -      | 17            | 5   | 2 214               | 96 679               | 1 749          | 3 377            | 80 361             | 244 370                                    | 93 294                            | 331 604                            | 13 029  |
| 3365<br>33651           | Railroad rolling stock mfg<br>Railroad rolling stock                        | -      | 1             | 1   | g                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 336510                  | mfg<br>Railroad rolling stock   | -      | 1             | 1   | g                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
|                         | mfg   | -      | 1             | 1   | g                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 3366<br>33661           | Ship & boat building<br>Ship & boat building                                | 1<br>1 | 23<br>23      | 11<br>11                                  | 1 606<br>1 606      | 70 405<br>70 405     | 1 384<br>1 384 | 3 243<br>3 243   | 58 039<br>58 039   | 139 613<br>139 613                         | 69 131<br>69 131                  | 207 303<br>207 303                 | 2 130<br>2 130                                  |
| 336611                  | Ship building & repairing   | 1      | 14            | 9   | 1 514               | 68 478               | 1 302          | 3 135            | 56 605             | 134 668                                    | 65 843                            | 200 511                            | 2 046   |

[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]

| appoint         | inces. For meaning of abbreviation  |                       | I Symbo  |   |                     | · · · · · · · · · · · · · · · · · · · |                |                  |                    | ,  | · · · · ·                         |                                    |   |
|-----------------|---|-----------------------|----------|---|---------------------|---------------------------------------|----------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                 |   | All<br>establishments |          | All emp                                   | oloyees             | Production workers                    |                |                  |                    |  |                                   |                                    |   |
| NAICS<br>code   | Geographic area and industry  | E1                    | Total    | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000)                  | Number         | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                 | PORTLAND-SALEM,<br>OR-WA CMSA-Con.  |                       |          |   |                     |                                       |                |                  |                    |  |                                   |                                    |   |
|                 | Portland-Vancouver,<br>OR-WA PMSA-Con.                                      |                       |          |   |                     |                                       |                |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing—<br>Con.  |                       |          |   |                     |                                       |                |                  |                    |  |                                   |                                    |   |
| 336             | Transportation equipment mfg—Con.   |                       |          |   |                     |                                       |                |                  |                    |  |                                   |                                    |   |
| 3369            | Other transportation equipment mfg  | _                     | 16       | 7   | f                   | D                                     | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 33699           | Other transportation  |                       |          | 7   | ۱<br>۲              | D                                     | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 336999          | equipment mfg<br>All other transportation<br>equipment mfg                  | _                     | 16<br>10 | 4   | r<br>e              | D                                     | D              | D                | D                  | ם  | D                                 | D                                  | D   |
| 337             | Furniture & related product mfg   | 1                     | 217      | 43  | 3 752               | 98 335                                | 2 841          | 5 509            | 65 988             | 197 788                                    | 164 695                           | 364 923                            | 7 304   |
| 3371            | Household & institutional<br>furniture & kitchen cabinet                    |                       |          |   |                     |                                       |                |                  |                    |  |                                   |                                    |   |
| 33711           | mfg<br>Wood kitchen cabinet &   | 1                     | 161      | 28  | 2 570               | 59 999                                | 2 106          | 4 115            | 43 989             | 112 878                                    | 105 424                           | 221 649                            | D   |
| 337110          | counter top mfg<br>Wood kitchen cabinet                                     | 1                     | 97       | 12  | 1 378               | 34 121                                | 1 055          | 2 023            | 23 949             | 61 592                                     | 54 715                            | 119 497                            | 1 805   |
| 33712           | & counter top mfg<br>Household & institutional                              | 1                     | 97       | 12  | 1 378               | 34 121                                | 1 055          | 2 023            | 23 949             | 61 592                                     | 54 715                            | 119 497                            | 1 805   |
| 337121          | furniture mfg<br>Upholstered household                                      | 2                     | 64       | 16  | 1 192               | 25 878                                | 1 051          | 2 092            | 20 040             | 51 286                                     | 50 709                            | 102 152                            | D   |
| 337121          | furniture mfg<br>Nonupholstered wood  | 2                     | 21       | 5   | 610                 | 13 458                                | 552            | 1 139            | 10 727             | 26 835                                     | 25 951                            | 52 796                             | D   |
|                 | household furniture<br>mfg  | 2                     | 29       | 5   | 380                 | 8 055                                 | 339            | 670              | 6 328              | 16 372                                     | 18 469                            | 34 886                             | 490   |
| 3372<br>33721   | Office furniture (including<br>fixtures) mfg<br>Office furniture (including | 2                     | 44       | 11  | f                   | D                                     | D              | D                | D                  | D  | D                                 | D                                  | 3 377   |
| 337215          | fixtures) mfg<br>Showcase, partition,                                       | 2                     | 44       | 11  | f                   | D                                     | D              | D                | D                  | D  | D                                 | D                                  | 3 377   |
|                 | shelving, & locker<br>mfg   | 3                     | 26       | 8   | 628                 | 23 207                                | 360            | 685              | 12 945             | 41 888                                     | 29 557                            | 70 768                             | 2 105   |
| 3379            | Other furniture related product mfg   | -                     | 12       | 4   | е                   | D                                     | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 339<br>3391     | Miscellaneous mfg<br>Medical equipment &                                    | 1                     | 339      | 52  | 6 103               | 178 955                               | 4 134          | 7 809            | 87 806             | 400 634                                    | 283 469                           | 676 359                            | 23 507  |
| 33911           | supplies mfg<br>Medical equipment &   | 2                     | 134      | 20  | 2 441               | 81 754                                | 1 668          | 3 466            | 39 729             | 191 536                                    | 99 229                            | 288 832                            | 13 125  |
| 339114          | Supplies mfg<br>Dental equipment &  | 2                     | 134      | 20  | 2 441               | 81 754                                | 1 668          | 3 466            | 39 729             | 191 536                                    | 99 229                            | 288 832                            | 13 125  |
| 339116          | Supplies mfg<br>Dental laboratories   | 4                     | 26<br>73 | 8<br>3                                    | 1 277<br>385        | 49 673<br>10 078                      | 875<br>291     | 1 639<br>504     | 22 669<br>6 687    | 108 143<br>22 096                          | 57 532<br>7 585                   | 163 216<br>29 905                  | 9 974<br>D                                      |
| 3399<br>33992   | Other miscellaneous mfg<br>Sporting & athletic goods                        | 1                     | 205      | 32  | 3 662               | 97 201                                | 2 466          | 4 343            | 48 077             | 209 098                                    | 184 240                           | 387 527                            | 10 382  |
| 339920          | mfg   | 1                     | 47       | 9   | 830                 | 23 041                                | 594            | 1 088            | 12 357             | 67 574                                     | 50 218                            | 113 030                            | 3 593   |
| 000020          | goods mfg   | 1                     | 47       | 9   | 830                 | 23 041                                | 594            | 1 088            | 12 357             | 67 574                                     | 50 218                            | 113 030                            | 3 593   |
| 33993<br>339932 | Doll, toy, & game mfg<br>Game, toy, &                                       | -                     | 12       | 3   | 614                 | 11 593                                | 471            | 532              | 6 290              | 14 749                                     | 42 416                            | 57 816                             | D   |
|                 | children's vehicle<br>mfg   | -                     | 9        | 2   | f                   | D                                     | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 33995<br>339950 | Sign mfg<br>Sign mfg  | 2<br>2                | 62<br>62 | 6<br>6                                    | 809<br>809          | 25 305<br>25 305                      | 476<br>476     | 963<br>963       | 11 578<br>11 578   | 50 956<br>50 956                           | 33 474<br>33 474                  | 83 957<br>83 957                   | D<br>D  |
| 33999           | All other miscellaneous mfg   | 1                     | 52       | 12  | 1 221               | 31 613                                | 806            | 1 563            | 15 620             | 64 380                                     | 43 083                            | 106 610                            | D   |
| 339994          | Broom, brush, & mop<br>mfg  | _                     | 3        | 2   | e                   | D                                     | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 339999          | All other miscellaneous mfg   | 4                     | 36       | 6   | 385                 | 9 401                                 | 259            | 423              | 4 752              | 22 210                                     | 15 841                            | 37 865                             | D   |
|                 | RICHLAND-<br>KENNEWICK-PASCO,<br>WA MSA                                     |                       |          |   |                     |                                       |                |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | _                     | 168      | 31  | 6 764               | 208 594                               | 5 302          | 10 984           | 134 328            | 646 665                                    | 1 408 500                         | 2 045 956                          | 65 247  |
| 311             | Food mfg  | _                     | 26       | 11  | 4 178               | 97 612                                | 3 699          | 7 523            | 78 049             | 341 054                                    | 1 037 427                         | 1 364 650                          | 41 820  |
| 3114            | Fruit & vegetable<br>preserving & specialty                                 |                       |          |   |                     |                                       |                |                  |                    |  |                                   |                                    |   |
| 31141           | food mfg<br>Frozen food mfg   | -                     | 8        | 8<br>7                                    | g<br>2 365          | D<br>58 876                           | D<br>2 159     | D<br>4 077       | D<br>46 727        | D<br>217 353                               | D<br>261 247                      | D<br>472 514                       | D<br>27 734                                     |
| 311411          | Frozen fruit, juice, & vegetable mfg  |                       | 7        | 7   | 2 365               | 58 876                                | 2 159<br>2 159 | 4 077            | 46 727             | 217 353                                    | 261 247                           | 472 514                            | 27 734  |
| 3116            | Meat product mfg  | _                     | 1        | 1   |                     | 56 876<br>D                           | 2 159<br>D     | 4 0/7<br>D       | 46 727<br>D        | 217 353<br>D                               | 201 247<br>D                      | 472 514<br>D                       | 27 734<br>D                                     |
| 31161           | Animal slaughtering & processing  |                       | 1        | 1   | g                   | D                                     | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 311611          | Animal (except poultry)<br>slaughtering                                     | _                     | 1        | 1   | g                   | D                                     | D              | D                | D                  | D  | D                                 | D                                  | D   |
|                 |   |                       |          |   | -                   |                                       |                |                  |                    |  |                                   |                                    |   |

[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]

| аррона        |  |    |        |   |                     | 1                    |         |                  |                    |  |                                   |                                    |   |
|---------------|--|----|--------|---|---------------------|----------------------|---------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|               |  |    |        | All<br>shments                            | All emp             | oloyees              | Pr      | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code | Geographic area and industry                                 | E1 | Total  | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number  | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|               | RICHLAND-<br>KENNEWICK-PASCO,<br>WA MSA-Con.                 |    |        |   |                     |                      |         |                  |                    |  |                                   |                                    |   |
| 31-33         | Manufacturing-<br>Con.                                       |    |        |   |                     |                      |         |                  |                    |  |                                   |                                    |   |
| 325           | Chemical mfg   | -  | 11     | 4   | 1 043               | 61 281               | 567     | 1 552            | 26 554             | 138 991                                    | 233 453                           | 376 964                            | D   |
| 3251<br>32518 | Basic chemical mfg<br>Other basic inorganic                  | -  | 2      | 1   | f                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 325188        | chemical mfg<br>All other basic                              | -  | 1      | 1   | f                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
|               | inorganic chemical mfg                                       | -  | 1      | 1   | f                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 3253          | Pesticide, fertilizer, & other<br>agricultural chemical mfg. | 1  | 7      | 3   | е                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 32531<br>331  | Fertilizer mfg   | _  | 5<br>2 | 3<br>2                                    | e<br>e              | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 3314          | Nonferrous metal (except aluminum) production &              |    |        |   |                     |                      |         |                  |                    |  |                                   |                                    |   |
| 33149         | processing<br>Other nonferrous metal                         | -  | 1      | 1   | е                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 001401        | rolling, drawing,<br>extruding, & alloying                   | -  | 1      | 1   | е                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 331491        | Other nonferrous metal<br>rolling, drawing, &<br>extruding   | _  | 1      | 1   | е                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 334           | Computer & electronic product mfg                            | 4  | 15     | 6   | e                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | 1 016   |
|               | SEATTLE-TACOMA-<br>BREMERTON, WA<br>CMSA                     |    |        |   |                     |                      |         |                  |                    |  |                                   |                                    |   |
| 31-33         | Manufacturing  | 2  | 4 858  | 1 326                                     | 219 765             | 9 460 354            | 129 167 | 260 724          | 4 632 430          | 20 140 857                                 | 32 052 250                        | 51 625 734                         | 1 246 996                                       |
| 311           | Food mfg   | 2  | 417    | 150                                       | 16 028              | 463 761              | 11 160  | 23 170           | 302 763            | 1 609 895                                  | 2 112 463                         | 3 718 350                          | D   |
| 312           | Beverage & tobacco product mfg                               | 2  | 48     | 20  | g                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 313           | Textile mills  | 2  | 35     | 5   | е                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 314           | Textile product mills  | 2  | 115    | 20  | g                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 315           | Apparel mfg  | 1  | 142    | 36  | h                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 316           | Leather & allied product mfg .                               | -  | 24     | 6   | f                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 321           | Wood product mfg   | 1  | 235    | 87  | i                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 322           | Paper mfg  | -  | 69     | 37  | h                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | 68 932  |
| 323           | Printing & related support activities                        | 2  | 600    | 109                                       | i                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | 45 772  |
| 324           | Petroleum & coal products mfg                                | 2  | 19     | 7   | f                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 325           | Chemical mfg   | 1  | 127    | 36  | g                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 326           | Plastics & rubber products mfg                               | 1  | 173    | 74  | i                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 327           | Nonmetallic mineral product mfg                              | -  | 187    | 64  | i                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 331           | Primary metal mfg  | -  | 43     | 21  | g                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 332           | Fabricated metal product mfg                                 | 1  | 760    | 181                                       | j                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | 78 183  |
| 333           | Machinery mfg  | 1  | 274    | 78  | i                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | 34 108  |
| 334           | Computer & electronic<br>product mfg                         | 1  | 330    | 116                                       | k                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 335           | Electrical equipment,<br>appliance, & component<br>mfg       | 1  | 81     | 25  | g                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 336           | Transportation equipment mfg                                 | 3  | 302    | 105                                       | I                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | 298 297   |
| 337           | Furniture & related product mfg                              | 1  | 314    | 74  | i                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |
| 339           | Miscellaneous mfg  | 2  | 563    | 75  | i                   | D                    | D       | D                | D                  | D  | D                                 | D                                  | D   |

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|                  |   |                | A               | All                                       |                     | All employees           |                     | oduction work       | ers                   |  |                                   |                                    |   |
|------------------|---|----------------|-----------------|---|---------------------|-------------------------|---------------------|---------------------|-----------------------|--|-----------------------------------|------------------------------------|---|
| NAICS            |   |                | establis        | shments                                   | Airein              | Joyees                  |                     |                     |                       |  |                                   |                                    |   |
| code             | Geographic area and industry  | E <sup>1</sup> | Total           | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000)    | Number              | Hours<br>(1,000)    | Wages<br>(\$1,000)    | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                  | SEATTLE-TACOMA-<br>BREMERTON, WA<br>CMSA-Con.                       |                |                 |   |                     |                         |                     |                     |                       |  |                                   |                                    |   |
|                  | Bremerton, WA PMSA  |                |                 |   |                     |                         |                     |                     |                       |  |                                   |                                    |   |
| 31-33            | Manufacturing   | 2              | 143             | 16  | 1 441               | 36 809                  | 1 016               | 1 680               | 20 851                | 81 349                                     | 59 960                            | 142 740                            | 3 842   |
| 339              | Miscellaneous mfg   | 1              | 24              | 3   | 303                 | 9 053                   | 190                 | 336                 | 4 069                 | 16 435                                     | 13 264                            | 30 375                             | 1 062   |
|                  | Olympia, WA PMSA  |                |                 |   |                     |                         |                     |                     |                       |  |                                   |                                    |   |
| 31-33            | Manufacturing   | -              | 156             | 37  | 3 218               | 100 654                 | 2 503               | 4 590               | 69 868                | 304 361                                    | 465 229                           | 761 028                            | 29 218  |
| 312              | Beverage & tobacco product<br>mfg                                   | -              | 6               | 3   | 383                 | 14 320                  | 276                 | 561                 | 10 226                | 61 708                                     | 138 238                           | 201 429                            | 1 734   |
| 3121             | Beverage mfg  | -              | 6               | 3   | 383                 | 14 320                  | 276                 | 561                 | 10 226                | 61 708                                     | 138 238                           | 201 429                            | 1 734   |
| 322              | Paper mfg   | -              | 4               | 2   | е                   | D                       | D                   | D                   | D                     | D  | D                                 | D                                  | 415   |
| 3222<br>32221    | Converted paper product<br>mfg<br>Paperboard container              | -              | 4               | 2   | e                   | D                       | D                   | D                   | D                     | D  | D                                 | D                                  | 415   |
| 32221            | mfg<br>Corrugated & solid   | -              | 3               | 2   | е                   | D                       | D                   | D                   | D                     | D  | D                                 | D                                  | 415   |
|                  | fiber box mfg   | -              | 3               | 2   | е                   | D                       | D                   | D                   | D                     | D  | D                                 | D                                  | 415   |
| 326              | Plastics & rubber products<br>mfg                                   | -              | 8               | 5   | 613                 | 16 943                  | 532                 | 1 013               | 12 407                | 71 469                                     | 49 506                            | 118 112                            | 17 715  |
| 3261<br>32619    | Plastics product mfg<br>Other plastics product                      | -              | 8               | 5   | 613                 | 16 943                  | 532                 | 1 013               | 12 407                | 71 469                                     | 49 506                            | 118 112                            | 17 715  |
| 332              | mfg<br>Fabricated metal product                                     | -              | 4               | 2   | е                   | D                       | D                   | D                   | D                     | D  | D                                 | D                                  | D   |
| 3324             | mfg<br>Boiler, tank, & shipping                                     | -              | 21              | 8   | 527                 | 20 964                  | 432                 | 820                 | 16 101                | 59 019                                     | 107 071                           | 156 877                            | 1 085   |
| 33243            | container mfg<br>Metal can, box, & other                            | -              | 3               | 3   | е                   | D                       | D                   | D                   | D                     | D  | D                                 | D                                  | D   |
|                  | metal container (light gauge) mfg                                   | -              | 2               | 2   | е                   | D                       | D                   | D                   | D                     | D  | D                                 | D                                  | D   |
|                  | Seattle–Bellevue–<br>Everett, WA PMSA                               |                |                 |   |                     |                         |                     |                     |                       |  |                                   |                                    |   |
| 31-33            | Manufacturing   | 2              | 3 879           | 1 065                                     | 192 823             | 8 617 706               | 108 814             | 220 221             | 4 062 188             | 17 872 900                                 | 29 117 907                        | 46 446 056                         | 1 019 101                                       |
| 311              | Food mfg  | 2              | 339             | 125                                       | 13 701              | 401 994                 | 9 487               | 19 574              | 260 682               | 1 296 063                                  | 1 687 303                         | 2 975 480                          | 67 766  |
| 3113             | Sugar & confectionery<br>product mfg                                | 4              | 20              | 5   | 284                 | 5 084                   | 230                 | 312                 | 3 483                 | 12 931                                     | 9 044                             | 22 123                             | 733   |
| 3114             | Fruit & vegetable<br>preserving & specialty<br>food mfg             |                | 19              | 7   | 636                 | 21 599                  | 468                 | 847                 | 10 589                | 52 309                                     | 41 414                            | 93 667                             | 2 224   |
| 31141<br>311412  | Frozen food mfg<br>Frozen specialty food                            | -              | 12              | 6   | 636<br>f            | 21 599<br>D             | 400<br>D            | D                   | 10 589<br>D           | 52 309<br>D                                | 41 414<br>D                       | 93 007<br>D                        | 2 224<br>D                                      |
|                  | mfg   | -              | 10              | 4   | е                   | D                       | D                   | D                   | D                     | D  | D                                 | D                                  | D   |
| 3115<br>31151    | Dairy product mfg<br>Dairy product (except                          | 3              | 17              | 10  | 1 048               | 39 136                  | 679                 | 1 359               | 25 948                | 130 123                                    | 390 406                           | 520 038                            | 8 942   |
| 311511           | frozen) mfg<br>Fluid milk mfg                                       | 2<br>3         | 11<br>7         | 6<br>5                                    | 734<br>f            | 27 232<br>D             | 427<br>D            | 821<br>D            | 16 166<br>D           | 99 714<br>D                                | 305 800<br>D                      | 403 293<br>D                       | 5 518<br>4 697                                  |
| 31152            | Ice cream & frozen dessert mfg                                      | 8              | 6               | 4   | 314                 | 11 904                  | 252                 | 538                 | 9 782                 | 30 409                                     | 84 606                            | 116 745                            | 3 424   |
| 311520           | Ice cream & frozen<br>dessert mfg                                   | 8              | 6               | 4   | 314                 | 11 904                  | 252                 | 538                 | 9 782                 | 30 409                                     | 84 606                            | 116 745                            | 3 424   |
| 3116<br>31161    | Meat product mfg<br>Animal slaughtering &                           | 4              | 22              | 12  | 1 214               | 32 108                  | 1 005               | 1 817               | 25 097                | 122 506                                    | 200 913                           | 326 855                            | 5 535   |
| 311612           | processing<br>Meat processed from                                   | 4              | 22              | 12  | 1 214               | 32 108                  | 1 005               | 1 817               | 25 097                | 122 506                                    | 200 913                           | 326 855                            | 5 535   |
|                  | carcasses   | 3              | 16              | 8   | 801                 | 20 939                  | 669                 | 1 100               | 16 697                | 81 444                                     | 117 797                           | 203 476                            | 3 318   |
| 3117<br>31171    | Seafood product<br>preparation & packaging<br>Seafood product       | 2              | 62              | 40  | 4 027               | 124 847                 | 3 451               | 7 941               | 102 439               | 336 469                                    | 432 501                           | 768 551                            | 18 729  |
| 311711           | preparation &<br>packaging<br>Seafood canning                       | 2<br>3         | 62<br>17        | 40<br>5                                   | 4 027<br>326        | 124 847<br>7 517        | 3 451<br>262        | 7 941<br>464        | 102 439<br>4 349      | 336 469<br>19 797                          | 432 501<br>28 893                 | 768 551<br>48 611                  | 18 729<br>1 284                                 |
| 311712           | Fresh & frozen seafood processing                                   | 2              | 45              | 35  | 3 701               | 117 330                 | 3 189               | 7 477               | 98 090                | 316 672                                    | 403 608                           | 719 940                            | 17 445  |
| 3118<br>31181    | Bakeries & tortilla mfg<br>Bread & bakery product                   | 2              | 147             | 34  | 5 096               | 140 605                 | 2 655               | 5 340               | 69 961                | 405 001                                    | 322 083                           | 725 655                            | 25 395  |
| 311811<br>311812 | mfg<br>Retail bakeries<br>Commercial bakeries .                     | 3<br>7<br>3    | 123<br>71<br>50 | 26<br>1<br>24                             | 4 238<br>e<br>3 732 | 113 978<br>D<br>104 687 | 2 065<br>D<br>1 689 | 4 296<br>D<br>3 715 | 56 812<br>D<br>51 173 | 233 170<br>D<br>206 922                    | 186 308<br>D<br>162 871           | 421 184<br>D<br>370 009            | 14 083<br>D<br>12 743                           |
| 31182            | Cookie, cracker, & pasta mfg  | _              | 22              | 7   | f                   | D                       | D                   | D                   | D                     | D  | D                                 | D                                  | D   |
| 311821<br>311822 | Cookie & cracker mfg .<br>Flour mixes & dough<br>mfg from purchased | 1              | 13              | 3   | e                   | D                       | D                   | D                   | D                     | D  | D                                 | D                                  | D   |
|                  | flour   | -              | 4               | 2   | 412                 | 17 352                  | 258                 | 521                 | 7 442                 | 121 752                                    | 107 456                           | 223 953                            | D   |

[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]

| аррени                  |   | 113 a       | A             | All                                       | All emp             | loves                 | Pr              | oduction work     | ore                  |  |                                   |                                    |   |
|-------------------------|---|-------------|---------------|---|---------------------|-----------------------|-----------------|-------------------|----------------------|--|-----------------------------------|------------------------------------|---|
| NAICO                   |   |             | establis      | shments                                   | All emp             | loyees                | FI              |                   | eis                  |  |                                   |                                    |   |
| NAICS<br>code           | Geographic area and industry  | E1          | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000)  | Number          | Hours<br>(1,000)  | Wages<br>(\$1,000)   | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                         | SEATTLE-TACOMA-<br>BREMERTON, WA<br>CMSA-Con.                           |             |               |   |                     |                       |                 |                   |                      |  |                                   |                                    |   |
|                         | Seattle-Bellevue-<br>Everett, WA PMSA-<br>Con.                          |             |               |   |                     |                       |                 |                   |                      |  |                                   |                                    |   |
| 31-33                   | Manufacturing—<br>Con.  |             |               |   |                     |                       |                 |                   |                      |  |                                   |                                    |   |
| 311                     | Food mfg-Con.   |             |               |   |                     |                       |                 |                   |                      |  |                                   |                                    |   |
| 3119<br>31192<br>311920 | Other food mfg<br>Coffee & tea mfg<br>Coffee & tea mfg                  |             | 42<br>7<br>7  | 14<br>3<br>3                              | 1 156<br>e<br>e     | 30 078<br>D<br>D      | 821<br>D<br>D   | 1 581<br>D<br>D   | 17 209<br>D<br>D     | 210 414<br>D<br>D                          | 210 139<br>D<br>D                 | 411 476<br>D<br>D                  | 3 985<br>381<br>381                             |
| 31194                   | Seasoning & dressing mfg  | _           | 9             | 3   | е                   | D                     | D               | D                 | D                    | D  | D                                 | D                                  | D   |
| 31199                   | All other food mfg  | 2           | 24            | 6   | 386                 | 10 048                | 295             | 546               | 5 041                | 29 951                                     | 27 788                            | 57 824                             | 1 797   |
| 312                     | Beverage & tobacco product<br>mfg                                       | 3           | 36            | 16  | 2 031               | 53 976                | 712             | 1 296             | 21 074               | 271 962                                    | 310 406                           | 551 662                            | 29 116  |
| 3121<br>31211<br>312111 | Beverage mfg<br>Soft drink & ice mfg<br>Soft drink mfg                  | 3<br>5<br>5 | 36<br>12<br>9 | 16<br>8<br>7                              | 2 031<br>875<br>f   | 53 976<br>24 959<br>D | 712<br>297<br>D | 1 296<br>493<br>D | 21 074<br>8 157<br>D | 271 962<br>75 063<br>D                     | 310 406<br>178 199<br>D           | 551 662<br>250 573<br>D            | 29 116<br>7 075<br>D                            |
| 31212<br>312120         | Breweries<br>Breweries  | 1<br>1      | 17<br>17      | 6<br>6                                    | f                   | D<br>D                | D<br>D          | D<br>D            | D<br>D               | D  | D<br>D                            | D<br>D                             | D<br>D  |
| 31213<br>312130         | Wineries<br>Wineries  | -           | 7<br>7        | 2<br>2                                    | e<br>e              | D<br>D                | D<br>D          | D                 | D<br>D               | D  | D                                 | D<br>D                             | D<br>D  |
| 313                     | Textile mills   | 6           | 31            | 3   | e                   | D                     | D               | D                 | D                    | D  | D                                 | D                                  | D   |
| 314                     | Textile product mills   | 2           | 90            | 15  | g                   | D                     | D               | D                 | D                    | D  | D                                 | D                                  | D   |
| 3149<br>31491           | Other textile product mills<br>Textile bag & canvas                     | 3           | 72            | 11  | f                   | D                     | D               | D                 | D                    | D  | D                                 | D                                  | D   |
|                         | mills   | 2           | 39            | 7   | e                   | D                     | D               | D                 | D                    | D  | D                                 | D                                  | 1 337   |
| 31499<br>314999         | All other textile product<br>mills                                      | 4           | 33            | 4   | e                   | D                     | D               | D                 | D                    | D  | D                                 | D                                  | D   |
| 314999                  | All other miscellaneous textile product mills                           | 4           | 32            | 4   | е                   | D                     | D               | D                 | D                    | D  | D                                 | D                                  | D   |
| 315                     | Apparel mfg   | 2           | 118           | 26  | 2 417               | 48 130                | 2 072           | 4 110             | 34 299               | 78 555                                     | 63 006                            | 142 169                            | 2 661   |
| 3152<br>31521           | Cut & sew apparel mfg<br>Cut & sew apparel                              | 2           | 87            | 22  | 2 091               | 40 004                | 1 787           | 3 474             | 28 635               | 62 493                                     | 54 997                            | 118 568                            | 1 743   |
| 315211                  | contractors<br>Men's & boys' cut &<br>sew apparel                       | 2           | 37            | 8   | f                   | D                     | D               | D                 | D                    | D  | D                                 | D                                  | D   |
| 315212                  | contractors<br>Women's, girls', &                                       | 1           | 5             | 5   | 384                 | 7 292                 | 369             | 801               | 6 900                | 14 915                                     | 1 616                             | 16 548                             | D   |
|                         | infants' cut & sew apparel contractors                                  | 4           | 32            | 3   | e                   | D                     | D               | D                 | D                    | D  | D                                 | D                                  | D   |
| 31522                   | Men's & boys' cut & sew apparel mfg                                     | 1           | 14            | 5   | f                   | D                     | D               | D                 | D                    | D  | D                                 | D                                  | D   |
| 315228                  | Men's & boys' cut &<br>sew other outerwear<br>mfg                       | 1           | 12            | 4   | f                   | D                     | D               | D                 | D                    | D  | D                                 | D                                  | D   |
| 31523                   | Women's & girls' cut &  |             |               |   |                     |                       |                 |                   |                      |  |                                   |                                    |   |
| 315239                  | sew apparel mfg<br>Women's & girls' cut &<br>sew other outerwear<br>mfg | 1           | 22<br>9       | 7<br>5                                    | f<br>e              | D                     | D               | D                 | D                    | D  | D                                 | D                                  | D   |
| 31529                   | Other cut & sew apparel mfg   | 7           | 14            | 2   | е                   | D                     | D               | D                 | D                    | D  | D                                 | D                                  | D   |
| 316                     | Leather & allied product mfg .  | -           | 19            | 6   | f                   | D                     | D               | D                 | D                    | D  | D                                 | D                                  | D   |
| 3169                    | Other leather & allied product mfg                                      | _           | 15            | 6   | f                   | D                     | D               | D                 | D                    | D  | D                                 | D                                  | D   |
| 31699                   | Other leather & allied<br>product mfg                                   | _           | 15            | 6   | f                   | D                     | D               | D                 | D                    | D  | D                                 | D                                  | D   |
| 316991                  | Luggage mfg   | -           | 6             | 4   | e                   | D                     | D               | D                 | D                    | D  | D                                 | D                                  | D   |
| 321<br>3211             | Wood product mfg<br>Sawmills & wood                                     | 1           | 146           | 51  | 4 225               | 129 325               | 3 336           | 6 840             | 91 047               | 292 419                                    | 530 031                           | 813 756                            | 30 958  |
| 3211                    | preservation<br>Sawmills & wood   | 1           | 31            | 13  | 1 621               | 59 137                | 1 393           | 2 897             | 47 528               | 137 317                                    | 292 732                           | 424 366                            | 17 729  |
| 321113                  | preservation  | 1<br>1      | 31<br>29      | 13<br>11                                  | 1 621<br>g          | 59 137<br>D           | 1 393<br>D      | 2 897<br>D        | 47 528<br>D          | 137 317<br>D                               | 292 732<br>D                      | 424 366<br>D                       | 17 729<br>D                                     |
| 3212                    | Veneer, plywood, &<br>engineered wood product<br>mfg                    | 2           | 12            | 7   | 413                 | 11 808                | 314             | 650               | 7 121                | 25 750                                     | 27 114                            | 52 411                             | 1 170   |
| 32121                   | Veneer, plywood, &<br>engineered wood<br>product mfg                    |             | 12            | 7   |                     | 11 808                | 314             |                   |                      |  | 27 114                            |                                    |   |
|                         | p.000000.1119   |             |               | . ,                                       | 4101                |                       | 014             |                   | , .21                | 20,00                                      | 2, 1141                           | 52 411                             | 11.5  |

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

|                  |   |        | A              | AII .                                     | All emp             | lovees               | Pr             | oduction work    | ers                |  |                                   |                                    |   |
|------------------|---|--------|----------------|---|---------------------|----------------------|----------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS            |   |        | establis       | shments                                   | 7 11 011            | , loyees             |                |                  |                    |  |                                   |                                    |   |
| code             | Geographic area and industry  | E1     | Total          | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number         | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                  | SEATTLE-TACOMA-<br>BREMERTON, WA<br>CMSA-Con.                           |        |                |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
|                  | Seattle-Bellevue-<br>Everett, WA PMSA-<br>Con.                          |        |                |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 31-33            | Manufacturing-<br>Con.  |        |                |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 321              | Wood product mfg-Con.   |        |                |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 3219<br>32191    | Other wood product mfg<br>Millwork                                      | 1<br>1 | 103<br>58      | 31<br>19                                  | 2 191<br>1 312      | 58 380<br>36 592     | 1 629<br>1 035 | 3 293<br>2 146   | 36 398<br>25 024   | 129 352<br>89 559                          | 210 185<br>160 082                | 336 979<br>246 864                 | 12 059<br>10 102                                |
| 321911<br>321912 | Wood window & door<br>mfg<br>Cut stock, resawing                        | 1      | 33             | 12  | 761                 | 20 728               | 575            | 1 164            | 13 260             | 45 154                                     | 65 777                            | 112 095                            | 1 258   |
| 32192            | lumber, & planing<br>Wood container & pallet                            | -      | 11             | 4   | 322                 | 9 609                | 289            | 647              | 7 966              | 32 789                                     | 78 018                            | 107 007                            | 6 034   |
| 32192            | mfg   | -      | 14             | 4   | 304                 | 7 325                | 224            | 440              | 4 242              | 11 335                                     | 17 885                            | 29 030                             | 903   |
| 32199            | pallet mfg  | -      | 14             | 4   | 304                 | 7 325                | 224            | 440              | 4 242              | 11 335                                     | 17 885                            | 29 030                             | 903   |
| 32199            | All other wood product<br>mfg<br>All other miscellaneous                | 3      | 31             | 8   | 575                 | 14 463               | 370            | 707              | 7 132              | 28 458                                     | 32 218                            | 61 085                             | 1 054   |
|                  | wood product mfg  | 5      | 20             | 5   | 296                 | 5 902                | 226            | 420              | 3 795              | 11 118                                     | 11 473                            | 23 080                             | 570   |
| 322<br>3221      | Paper mfg<br>Pulp, paper, & paperboard                                  | -      | 48             | 24  | 2 890               | 125 263              | 2 135          | 4 249            | 86 603             | 433 284                                    | 329 165                           | 739 078                            | 37 027  |
| 32212            | mills<br>Paper mills  | -      | 1<br>1         | 1<br>1                                    | g<br>g              | D<br>D               | D<br>D         | D<br>D           | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | D<br>D  |
| 322121           | Paper (except<br>newsprint) mills                                       | -      | 1              | 1   | g                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 3222             | Converted paper product<br>mfg  | _      | 47             | 23  | g                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 32221            | Paperboard container  | -      | 20             | 15  | 1 186               | 46 006               | 839            | 1 739            | 27 253             | 107 248                                    | 164 685                           | 269 942                            | D   |
| 322211<br>322212 | Corrugated & solid<br>fiber box mfg<br>Folding paperboard               | -      | 14             | 10  | 771                 | 30 921               | 533            | 1 076            | 17 123             | 79 405                                     | 122 042                           | 199 565                            | 13 249  |
|                  | box mfg   | -      | 3              | 3   | e                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 32223<br>322232  | Stationery product mfg<br>Envelope mfg                                  | 2<br>2 | 15<br>7        | 6<br>5                                    | fe                  | D<br>D               | D<br>D         | D<br>D           | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | D<br>D  |
| 323              | Printing & related support activities                                   | 2      | 500            | 94  | 7 706               | 260 748              | 5 330          | 9 969            | 155 053            | 545 058                                    | 277 353                           | 824 416                            | 40 011  |
| 3231             | Printing & related support activities                                   | 2<br>2 | 500            | 94  | 7 706               | 260 748              | 5 330          | 9 969            | 155 053            | 545 058                                    | 277 353                           | 824 416                            | 40 011  |
| 32311<br>323110  | Printing<br>Commercial<br>lithographic printing                         | 2      | 451<br>208     | 80<br>48                                  | 6 653<br>3 896      | 217 337<br>136 305   | 4 588<br>2 629 | 8 478<br>5 048   | 128 555<br>79 712  | 456 553<br>264 306                         | 263 169<br>163 040                | 722 159<br>429 874                 | 37 172<br>26 438                                |
| 323113           | Commercial screen<br>printing   | 3      | 59             | 10  | 604                 | 14 783               | 408            | 712              | 7 957              | 32 341                                     | 19 536                            | 51 903                             | 1 911   |
| 323114<br>323116 | Quick printing<br>Manifold business form<br>printing                    | 1      | 104<br>12      | 6<br>6                                    | 701<br>681          | 18 594<br>23 057     | 497<br>531     | 838<br>882       | 12 027<br>15 491   | 40 712<br>72 749                           | 20 628<br>29 919                  | 61 217<br>102 757                  | 3 482<br>2 821                                  |
| 32312            | Support activities for  | _      | 49             | 14  | 1 053               | 43 411               | 742            | 1 491            | 26 498             | 88 505                                     | 14 184                            | 102 257                            | 2 839   |
| 323121           | printing<br>Tradebinding & related<br>work                              | _      | 18             | 6   | 293                 | 8 286                | 232            | 430              | 5 381              | 14 316                                     | 1 963                             | 16 257                             | 623   |
| 323122           | Prepress services   | -      | 31             | 8   | 760                 | 35 125               | 510            | 1 061            | 21 117             | 74 189                                     | 12 221                            | 86 000                             | 2 216   |
| 325<br>3254      | Chemical mfg<br>Pharmaceutical & medicine                               | 1      | 105            | 29  | 1 894               | 85 815               | 1 051          | 2 078            | 32 301             | 294 949                                    | 245 918                           | 536 062                            | 29 661  |
| 32541            | mfg<br>Pharmaceutical &   | -      | 16             | 5   | 758                 | 44 183               | 460            | 846              | 12 608             | 104 307                                    | 63 169                            | 162 457                            | 18 475  |
| 325414           | medicine mfg<br>Biological product<br>(except diagnostic)               | -      | 16             | 5   | 758                 | 44 183               | 460            | 846              | 12 608             | 104 307                                    | 63 169                            | 162 457                            | 18 475  |
| 3255             | mfg<br>Paint, coating, & adhesive                                       | -      | 4              | 3   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 32551            | mfg<br>Paint & coating mfg  | 3      | 26<br>17<br>17 | 9<br>8                                    | e<br>326<br>326     | D<br>12 292          | D<br>135       | D<br>283         | D<br>4 915         | D<br>35 028                                | D<br>40 873                       | D<br>74 876                        | D<br>1 233                                      |
| 325510<br>3259   | Paint & coating mfg<br>Other chemical product                           | -      | 17             | 8   | 326                 | 12 292               | 135            | 283              | 4 915              | 35 028                                     | 40 873                            | 74 876                             | 1 233   |
| 326              | mfg<br>Plastics & rubber products                                       | 2      | 19             | 6   | 289                 | 11 360               | 162            | 360              | 6 087              | 46 955                                     | 43 288                            | 91 329                             | 3 556   |
| 320              | mfg   | 1      | 124            | 53  | 5 039               | 141 076              | 3 692          | 7 331            | 88 612             | 340 729                                    | 345 867                           | 682 454                            | 35 914  |
| 3261<br>32611    | Plastics product mfg<br>Unsupported plastics                            | 1      | 109            | 46  | 4 681               | 131 630              | 3 416          | 6 816            | 81 878             | 317 088                                    | 329 757                           | 642 358                            | 34 833  |
| 326111           | film, sheet, & bag mfg<br>Unsupported plastics                          | -      | 12             | 5   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 7 925   |
| 326113           | bag mfg<br>Unsupported plastics<br>film & sheet (except                 | -      | 5              | 2   | e                   | D                    | D              |                  | D                  | D  | D                                 | D                                  | D   |
| 32612            | packaging) mfg<br>Plastics pipe, pipe fitting,<br>& unsupported profile | -      | 7              | 3   | e                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 326121           | shape mfg<br>Unsupported plastics<br>profile shape mfg                  | -      | 7              | 3<br>3                                    | 598<br>f            | 16 087<br>D          | 288<br>D       | 533<br>D         | 6 182<br>D         | 47 851<br>D                                | 36 891<br>D                       | 85 140<br>D                        | D   |
|                  | - 5 mo 6 mapo mig   |        | 5              | 51  |                     | 51                   |                |                  | 5                  | 0  | 51                                | D                                  | D   |

[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]

| аррени           |   | 113 a  |               | All                                       |                     |                      |              |                  |                           |  |                                   |                                    |   |
|------------------|---|--------|---------------|---|---------------------|----------------------|--------------|------------------|---------------------------|--|-----------------------------------|------------------------------------|---|
|                  |   |        | establis      | shments                                   | All emp             | ployees              | Pr           | oduction work    | ers                       |  |                                   |                                    |   |
| NAICS            | Geographic area and industry  | E1     | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number       | Hours<br>(1,000) | Wages<br>(\$1,000)        | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                  | SEATTLE-TACOMA-<br>BREMERTON, WA<br>CMSA-Con.                             |        |               |   |                     |                      |              |                  |                           |  |                                   |                                    |   |
|                  | Seattle-Bellevue-<br>Everett, WA PMSA-<br>Con.                            |        |               |   |                     |                      |              |                  |                           |  |                                   |                                    |   |
| 31-33            | Manufacturing-<br>Con.  |        |               |   |                     |                      |              |                  |                           |  |                                   |                                    |   |
| 326              | Plastics & rubber products<br>mfg-Con.                                    |        |               |   |                     |                      |              |                  |                           |  |                                   |                                    |   |
| 3261<br>32615    | Plastics product mfg—Con.<br>Urethane & other foam<br>product (except     |        |               |   |                     |                      |              |                  |                           |  |                                   |                                    | _   |
| 326150           | polystyrene) mfg<br>Urethane & other foam<br>product (except              | -      | 6             | 3   | 322<br>322          | 12 301<br>12 301     | 251<br>251   | 521<br>521       | 7 162<br>7 162            | 29 012<br>29 012                           | 35 604<br>35 604                  | 64 712<br>64 712                   | D   |
| 32619            | polystyrene) mfg<br>Other plastics product                                | -      | 0             | 3   | 322                 | 12 301               | 201          | 521              | 7 102                     | 29 012                                     | 35 604                            | 04 712                             | D   |
| 326199           | MfgAll other plastics   | 1      | 71            | 30  | 2 838               | 72 860               | 2 136        | 4 225            | 46 802                    | 168 049                                    | 136 961                           | 301 741                            | 14 765  |
| 3262             | product mfg<br>Rubber product mfg   | 1<br>5 | 66<br>15      | 28<br>7                                   | 2 777<br>358        | 71 476<br>9 446      | 2 088<br>276 | 4 138<br>515     | 45 891<br>6 734           | 164 803<br>23 641                          | 133 310<br>16 110                 | 294 820<br>40 096                  | 14 698<br>1 081                                 |
| 32629            | Other rubber product  | 4      | 14            | 7   | e                   | D                    | D            | D                | D                         | D  | D                                 | D                                  | D   |
| 326299           | All other rubber<br>product mfg   | 5      | 10            | 6   | е                   | D                    | D            | D                | D                         | D  | D                                 | D                                  | D   |
| 327              | Nonmetallic mineral product mfg   | _      | 124           | 38  | 3 432               | 120 667              | 2 700        | 5 412            | 86 772                    | 344 356                                    | 297 664                           | 652 065                            | 27 327  |
| 3272<br>32721    | Glass & glass product mfg.  | -      | 47            | 9   | 1 666               | 51 815               | 1 366        | 2 684            | 40 775                    | 152 879                                    | 84 270                            | 244 747                            | 15 798  |
| 32721            | Glass & glass product<br>mfg<br>Glass container mfg                       | -      | 47<br>1       | 9<br>1                                    | 1 666<br>f          | 51 815<br>D          | 1 366<br>D   | 2 684<br>D       | 40 775<br>D               | 152 879<br>D                               | 84 270<br>D                       | 244 747<br>D                       | 15 798<br>D                                     |
| 327215           | Glass product mfg<br>made of purchased<br>glass                           | 1      | 31            | 5   | f                   | D                    | D            | D                | D                         | D  | D                                 | D                                  | D   |
| 3273             | Cement & concrete product   |        | 50            | 22  | 1 219               | 50 214               | 931          | 1 942            | 34 426                    | 133 159                                    | 152 728                           | 287 497                            | 7 668   |
| 32732<br>327320  | mfg<br>Ready-mix concrete mfg .<br>Ready-mix concrete                     | -      | 50<br>22      | 23<br>12                                  | 630                 | 27 136               | 515          | 1 095            | 20 397                    | 67 636                                     | 84 437                            | 151 651                            | 3 129   |
|                  | mfg   | -      | 22            | 12  | 630                 | 27 136               | 515          | 1 095            | 20 397                    | 67 636                                     | 84 437                            | 151 651                            | 3 129   |
| 32739<br>327390  | Other concrete product<br>mfg<br>Other concrete product                   | 2      | 16            | 7   | 320                 | 11 545               | 216          | 444              | 6 558                     | 26 359                                     | 17 982                            | 44 640                             | 802   |
|                  | mfg   | 2      | 16            | 7   | 320                 | 11 545               | 216          | 444              | 6 558                     | 26 359                                     | 17 982                            | 44 640                             | 802   |
| 331<br>3311      | Primary metal mfg<br>Iron & steel mills &                                 | -      | 34            | 18  | 1 471               | 61 620               | 1 153        | 2 502            | 41 208                    | 206 245                                    | 207 430                           | 417 864                            | 13 234  |
| 33111            | ferroalloy mfg<br>Iron & steel mills &                                    | -      | 2             | 2   | е                   | D                    | D            | D                | D                         | D  | D                                 | D                                  | D   |
| 331111           | ferroalloy mfg<br>Iron & steel mills                                      | _      | 2<br>2        | 2<br>2                                    | e<br>e              | D<br>D               | D<br>D       | D<br>D           | D<br>D                    | D<br>D                                     | D<br>D                            | D<br>D                             | D<br>D  |
| 3315             | Foundries   | 1      | 22            | 13  | f                   | D                    | D            | D<br>815         | D                         | D<br>34 724                                | D                                 | D                                  | D   |
| 33151            | Ferrous metal foundries .<br>Steel foundries (except<br>investment)       | _      | 10<br>6       | 5   | 436<br>e            | 14 813<br>D          | 376<br>D     | 815<br>D         | 11 851<br>D               | 34 724<br>D                                | 18 295<br>D                       | 52 532<br>D                        | 3 419<br>D                                      |
| 33152            | Nonferrous metal  |        |               |   |                     |                      |              |                  |                           |  | 5                                 |                                    |   |
| 332              | foundries<br>Fabricated metal product<br>mfg                              | 3      | 12<br>637     | 4<br>151                                  | e<br>12 469         | D<br>414 928         | D<br>9 428   | D<br>18 015      | D<br>260 440              | D<br>923 650                               | D<br>630 995                      | D<br>1 536 479                     | D<br>66 756                                     |
| 3321             | Forging & stamping  | 1      |               | 10  | 754                 | 23 670               | 9 420<br>606 | 1 193            |                           | 48 441                                     | 46 751                            | 94 377                             | 2 763   |
| 33211<br>332114  | Forging & stamping<br>Custom roll forming                                 | 1<br>- | 21<br>21<br>6 | 10<br>4                                   | 754<br>280          | 23 670<br>8 954      | 606<br>237   | 1 193<br>488     | 16 079<br>16 079<br>6 632 | 48 441<br>15 645                           | 46 751<br>21 018                  | 94 377<br>36 137                   | 2 763<br>637                                    |
| 332116<br>3323   | Metal stamping  | -      | 8             | 5   | 420                 | 13 089               | 326          | 626              | 8 223                     | 29 626                                     | 22 593                            | 51 908                             | 1 843   |
| 33231            | Plate work & fabricated   | 1      | 152           | 42  | 2 927               | 92 508               | 2 186        | 4 306            | 58 661                    | 197 928                                    | 181 293                           | 379 710                            | 7 782   |
| 332312           | structural product mfg<br>Fabricated structural                           | 1      | 49            | 11  | 848                 | 29 386               | 614          | 1 228            | 18 348                    | 66 699                                     | 64 564                            | 131 688                            | 2 385   |
| 33232            | metal mfg   | -      | 36            | 9   | 671                 | 23 592               | 491          | 973              | 14 755                    | 55 289                                     | 54 933                            | 110 640                            | 1 958   |
|                  | architectural metal<br>products mfg                                       | 1      | 103           | 31  | 2 079               | 63 122               | 1 572        | 3 078            | 40 313                    | 131 229                                    | 116 729                           | 248 022                            | 5 397   |
| 332321           | Metal window & door<br>mfg  | 3      | 16            | 6   | 481                 | 15 040               | 336          | 737              | 9 240                     | 29 773                                     | 35 121                            | 65 003                             | 915   |
| 332322<br>332323 | Sheet metal work mfg .<br>Ornamental &<br>architectural metal<br>work mfg | 2      | 61<br>26      | 21<br>4                                   | 1 342<br>256        | 39 967<br>8 115      | 1 042<br>194 | 1 942<br>399     | 25 913<br>5 160           | 88 050<br>13 406                           | 65 741<br>15 867                  | 154 183<br>28 836                  | 3 792<br>690                                    |
| 3324             | Boiler, tank, & shipping  | 2      | 20            |   | 200                 | 0 113                |              | 299              | 5 100                     | 13 400                                     | 10 007                            | 20 000                             | 090   |
| 33243            | container mfg<br>Metal can, box, & other<br>metal container (light        | -      | 14            | 9   | 511                 | 21 347               | 372          | 797              | 15 841                    | 51 374                                     | 112 675                           | 161 824                            | 2 578   |
| 332431           | gauge) mfg<br>Metal can mfg   | _      | 7<br>3        | 4<br>3                                    | 332<br>275          | 14 978<br>13 263     | 260<br>223   | 582<br>483       | 12 269<br>11 204          | 42 242<br>39 614                           | 106 239<br>102 655                | 146 748<br>140 120                 | 1 501<br>D                                      |

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

| append          | ixes. For meaning of abbreviatio   | 10 0        | ia symbo          | 510, 000 III                              |                         | 1                             |                         |                         |                             |  |                                   |                                    |   |
|-----------------|--|-------------|-------------------|---|-------------------------|-------------------------------|-------------------------|-------------------------|-----------------------------|--|-----------------------------------|------------------------------------|---|
|                 |  |             | /<br>establis     | All<br>shments                            | All em                  | ployees                       | Pr                      | oduction work           | ers                         |  |                                   |                                    |   |
| NAICS<br>code   | Geographic area and industry   | E1          | Total             | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup>     | Payroll<br>(\$1,000)          | Number                  | Hours<br>(1,000)        | Wages<br>(\$1,000)          | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                 | SEATTLE-TACOMA-<br>BREMERTON, WA<br>CMSA-Con.  |             |                   |   |                         |                               |                         |                         |                             |  |                                   |                                    |   |
|                 | Seattle-Bellevue-<br>Everett, WA PMSA-<br>Con.   |             |                   |   |                         |                               |                         |                         |                             |  |                                   |                                    |   |
| 31-33           | Manufacturing—<br>Con.   |             |                   |   |                         |                               |                         |                         |                             |  |                                   |                                    |   |
| 332             | Fabricated metal product mfg-Con.  |             |                   |   |                         |                               |                         |                         |                             |  |                                   |                                    |   |
| 3327            | Machine shops, turned<br>product, & screw, nut, &                                      |             |                   |   |                         |                               |                         |                         |                             |  |                                   |                                    |   |
| 33271<br>332710 | bolt mfg<br>Machine shops<br>Machine shops   | -<br>1<br>1 | 291<br>259<br>259 | 50<br>42<br>42                            | 4 547<br>3 878<br>3 878 | 153 811<br>126 489<br>126 489 | 3 682<br>3 125<br>3 125 | 6 533<br>5 411<br>5 411 | 104 466<br>84 971<br>84 971 | 326 030<br>273 601<br>273 601              | 144 149<br>113 987<br>113 987     | 457 495<br>375 520<br>375 520      | 36 602<br>30 273<br>30 273                      |
| 33272<br>332721 | Turned product & screw,<br>nut, & bolt mfg<br>Precision turned                         | -           | 32                | 8   | 669                     | 27 322                        | 557                     | 1 122                   | 19 495                      | 52 429                                     | 30 162                            | 81 975                             | 6 329   |
|                 | product mfg  | -           | 30                | 8   | f                       | D                             | D                       | D                       | D                           | D  | D                                 | D                                  | D   |
| 3328<br>33281   | Coating, engraving, heat<br>treating, & allied activities.<br>Coating, engraving, heat | -           | 60                | 19  | 2 005                   | 59 341                        | 1 594                   | 3 245                   | 37 863                      | 127 209                                    | 38 648                            | 163 943                            | 9 501   |
| 332812          | treating, & allied<br>activities<br>Metal coating/                                     | -           | 60                | 19  | 2 005                   | 59 341                        | 1 594                   | 3 245                   | 37 863                      | 127 209                                    | 38 648                            | 163 943                            | 9 501   |
| 000040          | engraving (exc<br>jewelry/silverware)/<br>allied services                              | 1           | 26                | 9   | f                       | D                             | D                       | D                       | D                           | D  | D                                 | D                                  | D   |
| 332813          | Electroplating, plating,<br>polishing, anodizing,<br>& coloring                        | _           | 27                | 8   | 1 143                   | 34 605                        | 841                     | 1 673                   | 19 450                      | 72 036                                     | 23 039                            | 93 850                             | 4 518   |
| 3329            | Other fabricated metal product mfg   | 1           | 61                | 14  | 1 188                   | 46 659                        | 574                     | 1 118                   | 16 233                      | 125 730                                    | 79 562                            | 205 687                            | 4 821   |
| 33299           | All other fabricated metal   |             | 53                |   | f                       | D                             | D                       | D                       | D                           | D  | D                                 | D                                  | 3 997   |
| 332993          | product mfg<br>Ammunition (except  | 1           |                   | 11  |                         |                               |                         |                         |                             |  |                                   |                                    |   |
| 332999          | All other miscellaneous<br>fabricated metal  | -           | 1                 | 1   | e                       | D                             | D                       | D                       | D                           | D  | D                                 | D                                  | D   |
|                 | product mfg  | 3           | 34                | 5   | 350                     | 10 472                        | 270                     | 539                     | 7 105                       | 20 939                                     | 17 487                            | 38 433                             | 1 177   |
| 333             | Machinery mfg  | 1           | 227               | 72  | 6 538                   | 239 443                       | 4 300                   | 8 353                   | 125 980                     | 583 699                                    | 571 414                           | 1 151 460                          | 31 221  |
| 3331            | Agriculture, construction, & mining machinery mfg                                      | 1           | 21                | 11  | 649                     | 27 272                        | 360                     | 726                     | 11 298                      | 40 767                                     | 84 501                            | 125 935                            | 3 011   |
| 33312           | Construction machinery<br>mfg  | 1           | 16                | 11  | 637                     | 26 944                        | 351                     | 712                     | 11 063                      | 39 995                                     | 83 609                            | 124 260                            | 2 906   |
| 333120          | Construction<br>machinery mfg  | 1           | 16                | 11  | 637                     | 26 944                        | 351                     | 712                     | 11 063                      | 39 995                                     | 83 609                            | 124 260                            | 2 906   |
| 3332            | Industrial machinery mfg   | 2           | 44                | 9   | f                       | D                             | D                       | D                       | D                           | D  | D                                 | D                                  | D   |
| 33329           | Other industrial<br>machinery mfg  | 2           | 35                | 9   | 702                     | 31 049                        | 367                     | 790                     | 14 087                      | 67 094                                     | 40 967                            | 109 224                            | 2 251   |
| 333298          | All other industrial machinery mfg   | _           | 17                | 3   | 375                     | 17 489                        | 194                     | 413                     | 7 546                       | 36 425                                     | 21 107                            | 58 045                             | 1 115   |
| 3333            | Commercial & service   |             | .,                | 0   | 0/0                     | 17 400                        | 104                     | 410                     | 7 040                       | 00 420                                     | 21 107                            | 00 040                             | 1 110   |
| 33331           | industry machinery mfg<br>Commercial & service<br>industry machinery                   | 1           | 30                | 12  | 903                     | 31 640                        | 539                     | 1 032                   | 14 264                      | 79 099                                     | 45 375                            | 123 931                            | 2 807   |
| 333319          | mfg<br>Other commercial &<br>service industry  | 1           | 30                | 12  | 903                     | 31 640                        | 539                     | 1 032                   | 14 264                      | 79 099                                     | 45 375                            | 123 931                            | 2 807   |
| 3334            | machinery mfg<br>Ventilation, heating, AC, &   | 1           | 18                | 8   | 680                     | 24 201                        | 437                     | 841                     | 11 406                      | 58 016                                     | 32 862                            | 90 656                             | D   |
| 33341           | commercial refrigeration<br>equip mfg<br>Ventilation, heating, AC,                     | -           | 12                | 6   | 555                     | 19 158                        | 436                     | 827                     | 11 049                      | 65 591                                     | 41 630                            | 105 331                            | 1 919   |
| 333414          | & commercial<br>refrigeration equip mfg .<br>Heating equipment                         | -           | 12                | 6   | 555                     | 19 158                        | 436                     | 827                     | 11 049                      | 65 591                                     | 41 630                            | 105 331                            | 1 919   |
|                 | (except warm air furnaces) mfg   | -           | 7                 | 4   | 438                     | 14 234                        | 360                     | 663                     | 8 836                       | 49 746                                     | 25 106                            | 72 826                             | 1 782   |
| 3335            | Metalworking machinery<br>mfg  | _           | 40                | 11  | 978                     | 38 663                        | 606                     | 1 032                   | 18 697                      | 95 796                                     | 72 753                            | 162 857                            | 7 935   |
| 33351           | Metalworking machinery<br>mfg  | _           | 40                | 11  | 978                     | 38 663                        | 606                     | 1 032                   | 18 697                      | 95 796                                     | 72 753                            | 162 857                            | 7 935   |
| 333512          | Machine tool (metal<br>cutting types) mfg  | _           | 40                | 3   | f                       | D                             | D                       | D                       | D                           | D  | D                                 | D                                  | D   |
| 3339            | Other general-purpose machinery mfg  |             | 73                | 21  | 2 556                   | 84 460                        | 1 851                   | 3 673                   | 52 157                      | 220 586                                    | 277 365                           | 500 357                            | 12 100  |
| 33392           | Material handling  |             | 28                | 11  | 2 556<br>1 787          | 54 646                        | 1 367                   | 2 745                   | 36 709                      | 155 522                                    | 241 286                           | 300 337<br>397 648                 | 7 077   |
| 333923          | equipment mfg<br>Overhead traveling<br>crane, hoist, &<br>monorail system mfg.         | _           | 11                | 5   | g                       | D                             | D                       | D                       | D                           | D  | D                                 | D                                  | D   |
| 33399           | All other general-purpose<br>machinery mfg   | 1           | 39                | 10  |                         | 29 154                        |                         |                         | 15 121                      |  | 34 403                            | 99 365                             | 4 923   |
|                 |  |             |                   |   |                         |                               |                         |                         |                             |  | 2                                 |                                    |   |

[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]

| аррени          |   | 13 0   | A        |   |                     |                      | D        |                  |                    |  |                                   |                                    |   |
|-----------------|---|--------|----------|---|---------------------|----------------------|----------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                 |   |        | establis | hments                                    | All emp             | oloyees              | Pr       | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code   | Geographic area and industry  | E1     | Total    | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number   | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                 | SEATTLE-TACOMA-<br>BREMERTON, WA<br>CMSA-Con.                                 |        |          |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
|                 | Seattle-Bellevue-<br>Everett, WA PMSA-<br>Con.                                |        |          |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing—<br>Con.  |        |          |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 334             | Computer & electronic<br>product mfg  | 1      | 297      | 112                                       | 33 476              | 1 701 196            | 12 168   | 23 241           | 383 047            | 3 398 587                                  | 1 749 635                         | 5 162 470                          | 250 020   |
| 3341            | Computer & peripheral equipment mfg   | 1      | 32       | 11  | 2 035               | 96 835               | 745      | 1 466            | 23 305             | 260 796                                    | 275 520                           | 527 611                            | D   |
| 33411<br>334119 | equipment mfg   | 1      | 32       | 11  | 2 035               | 96 835               | 745      | 1 466            | 23 305             | 260 796                                    | 275 520                           | 527 611                            | D   |
| 334119          | Other computer<br>peripheral equipment<br>mfg                                 | _      | 26       | 6   | g                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 3342            | Communications<br>equipment mfg   | 3      | 42       | 18  | g                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 33421           | Telephone apparatus<br>mfg  | 4      | 16       | .0  | g                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 334210          | Telephone apparatus mfg   | 4      | 16       | 9   | g                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 33422           | Radio & TV broadcasting<br>& wireless<br>communications                       |        |          |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 334220          | equipment mfg<br>Radio & TV<br>broadcasting &                                 | 1      | 19       | 8   | g                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | 3 590   |
|                 | wireless<br>communications  |        |          |   |                     |                      |          | _                | _                  | _  |                                   | _                                  |   |
| 3343            | equipment mfg   | 1      | 19       | 8   | g                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | 3 590   |
| 3343<br>33431   | Audio & video equipment<br>mfg<br>Audio & video equipment                     | 9      | 11       | 3   | f                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 334310          | mfgAudio & video  | 9      | 11       | 3   | f                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
|                 | equipment mfg   | 9      | 11       | 3   | f                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 3344<br>33441   | Semiconductor & other<br>electronic component<br>mfg<br>Semiconductor & other | 1      | 79       | 34  | 4 037               | 126 542              | 2 722    | 5 665            | 62 154             | 304 213                                    | 169 202                           | 474 984                            | 34 958  |
| 55441           | electronic component  | 1      | 79       | 34  | 4 037               | 126 542              | 2 722    | 5 665            | 62 154             | 304 213                                    | 169 202                           | 474 984                            | 34 958  |
| 334412          | Bare printed circuit<br>board mfg   | 1      | 19       | 10  | 1 393               | 42 737               | 1 098    | 2 481            | 28 848             | 102 869                                    | 53 832                            | 157 337                            | 5 357   |
| 334413          | Semiconductor &<br>related device mfg   | -      | 12       | 2   | f                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 334416          | Electronic coil,<br>transformer, & other<br>inductor mfg                      | 2      | 6        | 4   | е                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 334418          | Printed circuit<br>assembly (electronic                                       |        |          |   | U                   |                      |          |                  |                    |  |                                   |                                    |   |
| 334419          | assemblý) mfg<br>Other electronic<br>component mfg                            | 3<br>1 | 10<br>29 | 9<br>8                                    | f<br>948            | D<br>34 029          | D<br>451 | D<br>904         | D<br>11 158        | D<br>75 463                                | D<br>35 933                       | D<br>110 663                       | D   |
| 3345            | Navigational, measuring,<br>medical, & control                                |        | 100      |   | 00.050              | 4 000 407            | 7 004    | 40,407           | 050 004            | 0 400 504                                  | 000,400                           | 0 405 050                          | 170 751   |
| 33451           | instruments mfg<br>Navigational, measuring,<br>medical, & control             | -      | 109      | 38  | 23 850              | 1 329 107            | 7 031    | 13 137           | 258 064            | 2 490 561                                  | 986 468                           | 3 495 053                          | 173 751   |
| 334510          | instruments mfg<br>Electromedical &<br>electrotherapeutic                     | -      | 109      | 38  | 23 850              | 1 329 107            | 7 031    | 13 137           | 258 064            | 2 490 561                                  | 986 468                           | 3 495 053                          | 173 751   |
| 334511          | apparatus mfg<br>Search, detection,<br>navigation, &<br>guidance instrument   | -      | 15       | 10  | 4 411               | 237 204              | 1 455    | 3 049            | 42 236             | 543 990                                    | 416 806                           | 925 014                            | 48 847  |
| 334515          | Electricity measuring & testing instrument                                    | -      | 19       | 9   | 15 593              | 910 031              | 4 259    | 7 571            | 169 660            | 1 485 367                                  | 382 039                           | 1 922 795                          | D   |
| 334519          | mfg<br>Other measuring &  | -      | 20       | 8   | h                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
|                 | controlling device<br>mfg   | -      | 22       | 5   | 620                 | 33 153               | 435      | 793              | 16 492             | 51 492                                     | 27 853                            | 79 182                             | 1 980   |
| 3346            | Mfg & reproducing magnetic & optical media .                                  | 3      | 24       | 8   | f                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 33461           | Mfg & reproducing<br>magnetic & optical<br>media                              | 3      | 24       | 8   | f                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 335             | Electrical equipment,<br>appliance, & component                               |        |          |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 0050            | mfg   | 1      | 74       | 24  | 2 000               | 69 001               | 1 097    | 2 001            | 24 344             | 245 398                                    | 149 005                           | 394 108                            | D   |
| 3352<br>33521   | Household appliance mfg<br>Small electrical appliance<br>mfg                  |        | 3<br>2   | 2<br>1                                    | f<br>e              | D                    | D        | D<br>D           | D                  | D  | D                                 | D                                  | D   |
| 335211          | Electric housewares & household fan mfg                                       | _      | 2        | 1   | e                   | D                    | D        | D                | D                  |  | D                                 | D                                  |   |

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

| append                    | ixes. For meaning of appreviatio   |        |               |   | .coactory toxt]     | ·,                   |                |                  |                    |  |                                   |                                    |   |
|---------------------------|--|--------|---------------|---|---------------------|----------------------|----------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                           |  |        | A<br>establis | All<br>shments                            | All emp             | oloyees              | Pr             | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code             | Geographic area and industry   | E1     | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number         | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                           | SEATTLE-TACOMA-<br>BREMERTON, WA<br>CMSA-Con.  |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
|                           | Seattle-Bellevue-<br>Everett, WA PMSA-<br>Con.                                       |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 31-33                     | Manufacturing—<br>Con.   |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 335                       | Electrical equipment,<br>appliance, & component<br>mfg-Con.                          |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 3353<br>33531             | Electrical equipment mfg   | 4      | 36            | 12  | 715                 | 24 999               | 377            | 716              | 9 375              | 68 803                                     | 59 157                            | 126 573                            | D   |
| 335314                    | mfg<br>Relay & industrial  | 4      | 36            | 12  | 715                 | 24 999               | 377            | 716              | 9 375              | 68 803                                     | 59 157                            | 126 573                            | D   |
| 000014                    | control mfg  | 3      | 21            | 8   | 475                 | 16 848               | 213            | 404              | 4 613              | 47 217                                     | 37 718                            | 84 735                             | D   |
| 3359<br>33599             | Other electrical equipment<br>& component mfg<br>All other electrical<br>equipment & | -      | 23            | 8   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 335999                    | component mfg<br>All other miscellaneous   | 1      | 13            | 5   | е                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 000000                    | electrical equipment & component mfg   | 1      | 13            | 5   | e                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 336                       | Transportation equipment<br>mfg  | 3      | 246           | 88  | I                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 292 718   |
| 3361<br>33612<br>336120   | Motor vehicle mfg<br>Heavy duty truck mfg<br>Heavy duty truck mfg .                  |        | 4<br>1<br>1   | 1<br>1<br>1                               | g<br>g              | D<br>D<br>D          | D<br>D<br>D    | D<br>D<br>D      | D<br>D<br>D        | D<br>D<br>D                                | D<br>D<br>D                       | D<br>D<br>D                        | D<br>D<br>D                                     |
| 3363<br>33632             | Motor vehicle parts mfg<br>Motor vehicle electrical &                                | 2      | 50            | 13  | g                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 6 614   |
|                           | electronic equipment<br>mfg<br>Other motor vehicle                                   | 7      | 14            | 6   | e                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 1 381   |
| 336322                    | Other motor vehicle<br>electrical & electronic<br>equipment mfg                      | 7      | 13            | 6   | е                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 33639                     | Other motor vehicle parts  |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 336391                    | mfg<br>Motor vehicle air-  | -      | 10            | 2   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
|                           | conditioning mfg   | -      | 1             | 1   | e                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 3364                      | Aerospace product & parts  | 3      | 96            | 44  | I                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 262 550   |
| 33641<br>336411<br>336413 | Aerospace product &<br>parts mfg<br>Aircraft mfg<br>Other aircraft part &            | 3<br>3 | 96<br>5       | 44<br>4                                   | 1                   | D<br>D               | D<br>D         | D<br>D           | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | 262 550<br>D                                    |
| 336415                    | auxiliary equipment<br>mfg<br>Guided missile &                                       | -      | 83            | 36  | j                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
|                           | space vehicle<br>propulsion unit &<br>parts mfg                                      | _      | 1             | 1   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 3366                      | Ship & boat building   | _      | 67            | 22  | 3 883               | 148 221              | 2 774          | 5 506            | 85 860             | 215 722                                    | 135 191                           | 355 789                            | 19 982  |
| 33661<br>336611           | Ship & boat building<br>Ship building &<br>repairing                                 | _      | 67<br>36      | 22<br>15                                  | 3 883<br>2 533      | 148 221<br>100 678   | 2 774<br>1 800 | 5 506<br>4 024   | 85 860<br>67 170   | 215 722<br>175 024                         | 135 191<br>99 709                 | 355 789<br>274 733                 | 19 982<br>D                                     |
| 336612                    | Boat building  | 1      | 31            | 15<br>7                                   | 1 350               | 47 543               | 974            | 1 482            | 18 690             | 40 698                                     | 35 482                            | 81 056                             | D   |
| 3369                      | Other transportation equipment mfg   | _      | 16            | 3   | е                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 872   |
| 33699                     | Other transportation<br>equipment mfg  | _      | 16            | 3   | e                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 872   |
| 336991                    | Motorcycle, bicycle, & parts mfg   | -      | 14            | 2   | e                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 337                       | Furniture & related product mfg  | 1      | 230           | 52  | 4 030               | 102 681              | 3 238          | 6 261            | 69 568             | 220 490                                    | 160 595                           | 380 711                            | 11 276  |
| 3371                      | Household & institutional<br>furniture & kitchen cabinet                             | _      | 150           | 05  | 0.070               | 40,400               | 1 001          | 0.400            | 05 000             | 05.000                                     | 74 764                            | 100.000                            | 4.044   |
| 33711                     | Mood kitchen cabinet &   | 2      | 159           | 25  | 2 072               | 49 480               | 1 681          | 3 168            | 35 092             | 95 662                                     | 74 761                            | 169 833                            | 4 214   |
| 337110                    | counter top mfg<br>Wood kitchen cabinet<br>& counter top mfg                         | 1      | 94<br>94      | 14<br>14                                  | 1 250<br>1 250      | 31 300<br>31 300     | 1 001<br>1 001 | 1 957<br>1 957   | 21 603<br>21 603   | 61 285<br>61 285                           | 42 472<br>42 472                  | 103 236<br>103 236                 | 2 059<br>2 059                                  |
| 33712                     | Household & institutional  |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 337122                    | furniture mfg<br>Nonupholstered wood<br>household furniture                          | 2      | 65            | 11  | 822                 | 18 180               | 680            | 1 211            | 13 489             | 34 377                                     | 32 289                            | 66 597                             | 2 155   |
| 337127                    | mfg<br>Institutional furniture<br>mfg  | 4      | 32<br>16      | 5<br>4                                    | 296<br>392          | 5 723<br>9 546       | 267<br>307     | 489<br>516       | 4 660<br>6 630     | 11 439<br>17 452                           | 9 074<br>16 735                   | 20 625<br>34 021                   | D   |
|                           |  |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |

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| append                   |  |             |          |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
|--------------------------|--|-------------|----------|---|---------------------|----------------------|------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                          |  |             | establis | shments                                   | All emp             | oloyees              | Pr         | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code            | Geographic area and industry   | E1          | Total    | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number     | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                          | SEATTLE-TACOMA-<br>BREMERTON, WA<br>CMSA-Con.                          |             |          |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
|                          | Seattle-Bellevue-<br>Everett, WA PMSA-<br>Con.                         |             |          |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 31-33                    | Manufacturing—<br>Con.   |             |          |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 337                      | Furniture & related product mfg-Con.                                   |             |          |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 3372                     | Office furniture (including fixtures) mfg                              | 1           | 60       | 24  | 1 608               | 44 563               | 1 293      | 2 582            | 28 533             | 90 888                                     | 56 093                            | 147 260                            | 5 312   |
| 33721                    | Office furniture (including<br>fixtures) mfg                           | 1           | 60       | 24  | 1 608               | 44 563               | 1 293      | 2 582            | 28 533             | 90 888                                     | 56 093                            | 147 260                            | 5 312   |
| 337211                   | Wood office furniture<br>mfg   | -           | 20       | 10  | 847                 | 20 153               | 722        | 1 407            | 14 116             | 44 088                                     | 24 660                            | 69 270                             | 2 555   |
| 337212                   | Custom architectural<br>woodwork & millwork                            |             |          |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 337215                   | mfg<br>Showcase, partition,<br>shelving, & locker<br>mfg               | 1           | 13<br>22 | 6   | e<br>300            | D<br>9 127           | D<br>229   | D<br>458         | D<br>5 491         | D<br>16 811                                | D<br>10 617                       | D<br>27 220                        | D<br>847  |
| 3379                     | Other furniture related  |             |          |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 33791                    | product mfg<br>Mattress mfg  | 2<br>2<br>2 | 11<br>9  | 3<br>3                                    | 350<br>e            | 8 638<br>D           | 264<br>D   | 511<br>D         | 5 943<br>D         | 33 940<br>D                                | 29 741<br>D                       | 63 618<br>D                        | 1 750<br>D                                      |
| 337910                   | Mattress mfg   | 2           | 9        | 3   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 339                      | Miscellaneous mfg  | 2           | 442      | 65  | 6 409               | 197 455              | 4 326      | 7 852            | 100 237            | 511 035                                    | 344 863                           | 843 988                            | 35 753  |
| 3391                     | Medical equipment & supplies mfg                                       | 3           | 192      | 24  | 2 202               | 82 587               | 1 386      | 2 349            | 36 862             | 192 311                                    | 99 520                            | 292 972                            | 13 308  |
| 33911                    | Medical equipment & supplies mfg                                       | 3           | 192      | 24  | 2 202               | 82 587               | 1 386      | 2 349            | 36 862             | 192 311                                    | 99 520                            | 292 972                            | 13 308  |
| 339112                   | Surgical & medical<br>instrument mfg                                   | 2           | 22       | 6   | 796                 | 40 436               | 393        | 706              | 14 512             | 101 674                                    | 54 270                            | 155 840                            | 8 906   |
| 339113                   | Surgical appliance & supplies mfg                                      | 4           | 21       | 5   | 399                 | 12 745               | 256        | 438              | 5 548              | 33 337                                     | 17 543                            | 51 124                             | 1 722   |
| 339116                   | Dental laboratories  | 4           | 124      | 8   | 708                 | 19 284               | 538        | 827              | 12 094             | 37 683                                     | 14 624                            | 53 330                             | 1 460   |
| 3399<br>33992            | Other miscellaneous mfg<br>Sporting & athletic goods                   | 2           | 250      | 41  | 4 207               | 114 868              | 2 940      | 5 503            | 63 375             | 318 724                                    | 245 343                           | 551 016                            | 22 445  |
| 339920                   | mfg<br>Sporting & athletic   | 1           | 53       | 17  | 2 433               | 66 387               | 1 722      | 3 356            | 37 638             | 219 756                                    | 179 307                           | 388 853                            | 18 015  |
|                          | goods mfg  | 1           | 53       | 17  | 2 433               | 66 387               | 1 722      | 3 356            | 37 638             | 219 756                                    | 179 307                           | 388 853                            | 18 015  |
| 33995<br>339950<br>33999 | Sign mfg<br>Sign mfg   | 3<br>3      | 82<br>82 | 9<br>9                                    | 739<br>739          | 21 457<br>21 457     | 479<br>479 | 839<br>839       | 10 498<br>10 498   | 39 479<br>39 479                           | 22 338<br>22 338                  | 61 647<br>61 647                   | 1 396<br>1 396                                  |
| 339999                   | All other miscellaneous<br>All other miscellaneous                     | 4           | 49       | 9   | 562                 | 14 674               | 406        | 765              | 8 421              | 31 936                                     | 23 845                            | 53 512                             | 2 074   |
| 339999                   | mfg  | 4           | 33       | 7   | 386                 | 8 946                | 286        | 536              | 5 520              | 19 660                                     | 18 041                            | 35 382                             | 1 583   |
|                          | Tacoma, WA PMSA  |             |          |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 31-33                    | Manufacturing  | 1           | 680      | 208                                       | 22 283              | 705 185              | 16 834     | 34 233           | 479 523            | 1 882 247                                  | 2 409 154                         | 4 275 910                          | 194 835   |
| 311                      | Food mfg   | 1           | 52       | 19  | 2 002               | 54 761               | 1 493      | 3 254            | 38 574             | 296 706                                    | 385 234                           | 683 756                            | 16 478  |
| 3114                     | Fruit & vegetable<br>preserving & specialty<br>food mfg                | _           | 4        | 2   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 31142                    | Fruit & vegetable<br>canning, pickling, &<br>drying                    | -           | 3        | 2   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 311422                   | Specialty canning  | -           | 1        | 1   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 3116<br>31161            | Meat product mfg<br>Animal slaughtering &<br>processing                | 7<br>7      | 9<br>9   | 3<br>3                                    | 319<br>319          | 8 114<br>8 114       | 258<br>258 | 596<br>596       | 6 042<br>6 042     | 38 569<br>38 569                           | 55 263<br>55 263                  | 95 240<br>95 240                   | 1 689<br>1 689                                  |
| 3117<br>31171            | Seafood product<br>preparation & packaging<br>Seafood product          | -           | 6        | 5   | 397                 | 9 498                | 260        | 584              | 5 600              | 25 950                                     | 24 155                            | 50 106                             | 944   |
| 311712                   | preparation &<br>packaging<br>Fresh & frozen                           | -           | 6        | 5   | 397                 | 9 498                | 260        | 584              | 5 600              | 25 950                                     | 24 155                            | 50 106                             | 944   |
|                          | seafood processing   | -           | 5        | 4   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 3118<br>31182            | Bakeries & tortilla mfg<br>Cookie, cracker, & pasta                    | 2           | 15       | 5   | 390                 | 9 545                | 277        | 499              | 5 513              | 23 306                                     | 27 629                            | 50 560                             | 2 604   |
| 311821                   | mfg<br>Cookie & cracker mfg .  | 4<br>4      | 3<br>2   | 2<br>2                                    | 268<br>e            | 6 315<br>D           | 209<br>D   | 355<br>D         | 3 964<br>D         | 12 332<br>D                                | 16 228<br>D                       | 28 773<br>D                        | D<br>D  |
| 315                      | Apparel mfg  | -           | 17       | 9   | 830                 | 21 575               | 766        | 1 560            | 16 887             | 43 168                                     | 76 684                            | 116 940                            | D   |
| 3152                     | Cut & sew apparel mfg  | -           | 14       | 7   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 31521<br>315211          | Cut & sew apparel<br>contractors<br>Men's & boys' cut &<br>sew apparel | 1           | 10       | 5   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
|                          | contractors  | _           | 4        | 4   | 355                 | 6 777                | 346        | 683              | 6 325              | 8 418                                      | 1 558                             | 9 954                              | D   |

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| append           |   |        | ia symbo      | 510, 000 III                              |                     | ·                    |              |                  |                    |  |                                   |                                    |   |
|------------------|---|--------|---------------|---|---------------------|----------------------|--------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                  |   |        | A<br>establis | All<br>shments                            | All emp             | oloyees              | Pr           | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code    | Geographic area and industry                            | E1     | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number       | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                  | SEATTLE-TACOMA-<br>BREMERTON, WA<br>CMSA-Con.           |        |               |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
|                  | Tacoma, WA PMSA –<br>Con.                               |        |               |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
| 31-33            | Manufacturing—<br>Con.                                  |        |               |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
| 321              | Wood product mfg  | _      | 73            | 31  | 3 248               | 89 647               | 2 649        | 5 476            | 66 395             | 174 175                                    | 412 161                           | 592 002                            | 13 178  |
| 3211             | Sawmills & wood<br>preservation                         | _      | 15            | 12  | 1 435               | 44 649               | 1 127        | 2 403            | 31 672             | 101 989                                    | 269 214                           | 373 421                            | 6 670   |
| 32111<br>321113  | Sawmills & wood<br>preservation<br>Sawmills             | -      | 15<br>12      | 12<br>9                                   | 1 435<br>1 168      | 44 649<br>36 758     | 1 127<br>882 | 2 403<br>1 910   | 31 672<br>24 933   | 101 989<br>65 697                          | 269 214<br>201 545                | 373 421<br>267 906                 | 6 670<br>6 428                                  |
| 321114           | Wood preservation                                       | -      | 3             | 3   | 267                 | 7 891                | 245          | 493              | 6 739              | 36 292                                     | 67 669                            | 105 515                            | 242   |
| 3212             | Veneer, plywood, &<br>engineered wood product<br>mfg    | _      | 11            | 8   | 709                 | 19 975               | 562          | 1 231            | 15 348             | 24 225                                     | 73 772                            | 101 830                            | 3 987   |
| 32121            | Veneer, plywood, &<br>engineered wood                   |        |               | 8   | 709                 | 19 975               |              |                  |                    |  |                                   |                                    |   |
| 321219           | product mfg<br>Reconstituted wood<br>product mfg        | _      | 11<br>3       | 2   | 709<br>266          | 7 518                | 562<br>215   | 1 231<br>448     | 15 348<br>5 754    | 24 225<br>9 253                            | 73 772<br>40 625                  | 101 830<br>49 220                  | 3 987<br>D                                      |
| 3219             | Other wood product mfg                                  | 1      | 47            | 11  | 1 104               | 25 023               | 960          | 1 842            | 19 375             | 47 961                                     | 69 175                            | 116 751                            | 2 521   |
| 32191<br>321911  | Millwork<br>Wood window & door<br>mfg                   | 1      | 26<br>12      | 8   | 769<br>523          | 18 379<br>11 972     | 674<br>467   | 1 325<br>920     | 14 910<br>10 004   | 33 680<br>21 742                           | 50 312<br>28 369                  | 83 977<br>49 780                   | 1 794<br>927                                    |
| 322              | Paper mfg   | -      | 17            | 11  | 1 378               | 60 801               | 1 046        | 2 165            | 43 877             | 197 888                                    | 244 424                           | 444 702                            | 31 490  |
| 3221             | Pulp, paper, & paperboard mills                         | _      | 4             | 4   | 918                 | 46 494               | 706          | 1 418            | 33 839             | 158 354                                    | 184 803                           | 345 162                            | 22 588  |
| 32212<br>322122  | Paper mills<br>Newsprint mills                          | -      | 1<br>1        | 1   | e<br>e              | D<br>D               | D<br>D       | D<br>D           | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | D   |
| 32213<br>322130  | Paperboard mills<br>Paperboard mills                    | -      | 3<br>3        | 3<br>3                                    | f<br>f              | D<br>D               | D<br>D       | D<br>D           | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | D<br>D  |
| 3222             | Converted paper product<br>mfg<br>Paperboard container  | _      | 13            | 7   | 460                 | 14 307               | 340          | 747              | 10 038             | 39 534                                     | 59 621                            | 99 540                             | 8 902   |
| 32221            | Paperboard container<br>mfg                             | -      | 3             | 3   | 251                 | 7 717                | 185          | 418              | 5 872              | 19 018                                     | 26 112                            | 45 649                             | D   |
| 323              | Printing & related support activities                   | 1      | 65            | 12  | 1 431               | 40 575               | 824          | 1 247            | 18 198             | 67 287                                     | 52 009                            | 121 432                            | 4 885   |
| 3231<br>32311    | Printing & related support<br>activities<br>Printing    | 1      | 65<br>60      | 12<br>12                                  | 1 431<br>1 410      | 40 575<br>39 942     | 824<br>805   | 1 247<br>1 214   | 18 198<br>17 716   | 67 287<br>65 607                           | 52 009<br>51 688                  | 121 432<br>119 400                 | 4 885<br>4 628                                  |
| 323110<br>323117 | Commercial<br>lithographic printing<br>Book printing    | _<br>_ | 31<br>1       | 6   | 462<br>f            | 17 827<br>D          | 238<br>D     | 454<br>D         | 6 399<br>D         | 31 120<br>D                                | 16 936<br>D                       | 48 464<br>D                        | 3 242<br>D                                      |
| 324              | Petroleum & coal products mfg                           | 1      | 6             | 4   | 428                 | 17 706               | 222          | 493              | 8 846              | 76 799                                     | 344 595                           | 420 141                            | 6 157   |
| 3241             | Petroleum & coal products mfg                           | 1      | 6             | 4   | 428                 | 17 706               | 222          | 493              | 8 846              | 76 799                                     | 344 595                           | 420 141                            | 6 157   |
| 325              | Chemical mfg  | -      | 16            | 7   | 549                 | 22 087               | 302          | 606              | 11 562             | 89 568                                     | 90 920                            | 180 748                            | 6 395   |
| 3251             | Basic chemical mfg                                      | -      | 8             | 3   | 259                 | 14 026               | 175          | 376              | 8 332              | 56 932                                     | 43 715                            | 100 876                            | 5 176   |
| 326              | Plastics & rubber products<br>mfg                       | 3      | 37            | 15  | 1 563               | 43 201               | 1 283        | 2 652            | 31 930             | 109 511                                    | 129 872                           | 238 453                            | 26 858  |
| 3261<br>32619    | Plastics product mfg<br>Other plastics product          | 3      | 34            | 15  | 1 523               | 41 845               | 1 251        | 2 585            | 30 888             | 106 970                                    | 128 240                           | 234 212                            | D   |
| 326199           | mfg<br>All other plastics<br>product mfg                | 4      | 24<br>21      | 9<br>9                                    | 1 094<br>1 068      | 28 102<br>27 451     | 911<br>894   | 1 726<br>1 685   | 20 619<br>20 199   | 63 174<br>62 478                           | 57 622<br>56 390                  | 119 594<br>117 685                 | 10 577<br>10 551                                |
| 327              | Nonmetallic mineral product mfg                         | -      | 40            | 21  | 1 474               | 48 590               | 1 171        | 2 455            | 33 783             | 138 047                                    | 104 470                           | 241 542                            | 9 839   |
| 3272<br>32721    | Glass & glass product mfg .<br>Glass & glass product    | -      | 5             | 4   | 438                 | 10 430               | 347          | 686              | 7 214              | 27 315                                     | 23 106                            | 50 336                             | D   |
| 327215           | mfg<br>Glass product mfg<br>made of purchased           | -      | 5             | 4   | 438                 | 10 430               | 347          | 686              | 7 214              | 27 315                                     | 23 106                            | 50 336                             | D   |
| 3273             | glass   |        | 5             | 4   | 438                 | 10 430               | 347          | 686              | 7 214              | 27 315                                     | 23 106                            | 50 336                             | D   |
| 32732<br>327320  | mfg<br>Ready-mix concrete mfg.<br>Ready-mix concrete    | 1<br>- | 19<br>8       | 11<br>5                                   | 723<br>e            | 26 328<br>D          | 581<br>D     | 1 281<br>D       | 18 355<br>D        | 65 795<br>D                                | 42 541<br>D                       | 107 572<br>D                       | 5 743<br>D                                      |
|                  | mfg   | -      | 8             | 5   | е                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 32739<br>327390  | Other concrete product<br>mfg<br>Other concrete product | 2      | 9             | 5   | 393                 | 12 723               | 292          | 620              | 8 328              | 32 598                                     | 21 766                            | 53 711                             | 3 517   |
|                  | mfg   | 2      | 9             | 5   | 393                 | 12 723               | 292          | 620              | 8 328              | 32 598                                     | 21 766                            | 53 711                             | 3 517   |

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| append          |   | 113 a       |               | //3, 300 III                              | iouuciory text]     |                      |            |                  |                    |  |                                   |                                    |   |
|-----------------|---|-------------|---------------|---|---------------------|----------------------|------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                 |   |             | A<br>establis | All<br>shments                            | All emp             | oloyees              | Pr         | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code   | Geographic area and industry                                      | E1          | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number     | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                 | SEATTLE-TACOMA-<br>BREMERTON, WA<br>CMSA-Con.                     |             |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
|                 | Tacoma, WA PMSA –<br>Con.   |             |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing—<br>Con.  |             |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 331             | Primary metal mfg   | -           | 7             | 3   | 968                 | 34 510               | 866        | 1 868            | 27 653             | 92 079                                     | 105 808                           | 196 918                            | D   |
| 3313            | Alumina & aluminum<br>production & processing                     |             | 1             | 1   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 33131           | Alumina & aluminum<br>production &<br>processing                  | _           | 1             | 1   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 331319          | Other aluminum rolling<br>& drawing                               | _           | 1             | 1   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 3315            | -   | _           | 5             | 2   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 33151<br>331513 | Foundries<br>Ferrous metal foundries .<br>Steel foundries (except | -           | 2             | 1   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
|                 | investment)   | -           | 2             | 1   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 33152           | Nonferrous metal<br>foundries                                     | 1           | 3             | 1   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 331524          | Aluminum foundries<br>(except die-casting)                        | -           | 1             | 1   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 332             | Fabricated metal product mfg                                      | 1           | 94            | 21  | 2 108               | 69 896               | 1 645      | 3 251            | 47 173             | 141 377                                    | 135 807                           | 274 698                            | 9 993   |
| 3323<br>33232   | Architectural & structural<br>metals mfg<br>Ornamental &          | -           | 31            | 12  | 1 156               | 36 352               | 894        | 1 814            | 23 532             | 76 794                                     | 101 487                           | 177 156                            | 3 872   |
|                 | architectural metal<br>products mfg                               | _           | 17            | 9   | 1 020               | 31 781               | 799        | 1 641            | 20 975             | 66 954                                     | 89 264                            | 155 198                            | 3 585   |
| 332321          | Metal window & door<br>mfg  | -           | 4             | 2   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 332322<br>3327  | Sheet metal work mfg .<br>Machine shops, turned                   | 1           | 8             | 5   | 387                 | 13 407               | 319        | 689              | 9 247              | 28 942                                     | 32 859                            | 60 393                             | 2 844   |
| 3327            | product, & screw, nut, & bolt mfg                                 | 2           | 37            | 2   | 315                 | 10 719               | 260        | 514              | 7 799              | 21 300                                     | 9 827                             | 29 765                             | 1 907   |
| 33271<br>332710 | Machine shops<br>Machine shops                                    | 2<br>2<br>2 | 37<br>37      | 2<br>2<br>2                               | 315<br>315          | 10 719<br>10 719     | 260<br>260 | 514<br>514       | 7 799<br>7 799     | 21 300<br>21 300                           | 9 827<br>9 827                    | 29 765<br>29 765                   | 1 907<br>1 907                                  |
| 3329            | Other fabricated metal  |             |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
|                 | product mfg   | -           | 12            | 2   | 250                 | 9 393                | 209        | 390              | 7 611              | 19 418                                     | 12 607                            | 32 121                             | 559   |
| 333<br>3332     | Machinery mfg<br>Industrial machinery mfg                         | 1           | 35<br>6       | 6<br>2                                    | 819<br>439          | 27 602<br>15 057     | 594<br>306 | 1 205<br>640     | 17 848<br>8 696    | 66 525<br>39 174                           | 42 989<br>22 195                  | 107 874<br>59 080                  | 2 732<br>1 023                                  |
| 334             | Computer & electronic   | _           | 0             | 2   | 439                 | 15 057               | 300        | 640              | 0 090              | 39 174                                     | 22 195                            | 59 060                             | 1 023   |
|                 | product mfg   | 3           | 22            | 4   | 609                 | 26 692               | 293        | 607              | 12 252             | 31 399                                     | 30 698                            | 68 605                             | D   |
| 3344            | Semiconductor & other<br>electronic component<br>mfg              | _           | 3             | 1   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 33441           | Semiconductor & other<br>electronic component                     |             |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 334413          | mfg<br>Semiconductor &  | -           | 3             | 1   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 336             | related device mfg<br>Transportation equipment                    | _           | 1             | 1   | e                   | U                    | D          | U                | D                  | U  | U                                 | D                                  | D   |
| 000             | mfg   | -           | 39            | 15  | g                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | 5 328   |
| 3363            | Motor vehicle parts mfg   | -           | 9             | 3   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 3364            | Aerospace product & parts mfg                                     | _           | 14            | 4   | 1 582               | 53 089               | 1 221      | 2 637            | 43 762             | 176 771                                    | 64 066                            | 214 320                            | 1 756   |
| 33641           | Aerospace product & parts mfg                                     | -           | 14            | 4   | 1 582               | 53 089               | 1 221      | 2 637            | 43 762             | 176 771                                    | 64 066                            | 214 320                            | 1 756   |
| 336413          | Other aircraft part &<br>auxiliary equipment<br>mfg               |             | 10            | 4   | 0                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 3366            | Ship & boat building  | 2           | 13            | 4   | g<br>f              | D                    | D          | D                | D                  | D  | D                                 | D                                  | 664   |
| 33661<br>336611 | Ship & boat building<br>Ship building &                           | 2<br>2      | 13            | 7   | f                   | Ď                    | Ď          | D                | D                  | Ď  | Ď                                 | Ď                                  | 664   |
|                 | repairing   | 4           | 8             | 3   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | 523   |
| 337             | Furniture & related product mfg                                   | 1           | 54            | 19  | 1 414               | 40 818               | 1 104      | 2 241            | 26 865             | 77 579                                     | 63 791                            | 144 882                            | 2 454   |
| 3371            | Household & institutional<br>furniture & kitchen cabinet          |             | 05            |   | 001                 | 10.050               | 640        | 1 000            | 10,400             | 00.040                                     | 05 405                            | 00 700                             | 5   |
| 33711           | mfg<br>Wood kitchen cabinet &<br>counter top mfg                  | 2           | 35<br>21      | 9<br>6                                    | 801<br>443          | 19 256<br>9 888      | 646<br>362 | 1 320<br>759     | 13 408<br>6 759    | 38 942<br>16 938                           | 25 165<br>10 460                  | 63 755<br>27 398                   | D   |
| 337110          | Wood kitchen cabinet<br>& counter top mfg                         | 1           | 21            | 6   | 443                 | 9 888                | 362        | 759              | 6 759              | 16 938                                     | 10 460                            | 27 398                             | D   |
| 33712           | Household & institutional   |             |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 337127          | furniture mfg<br>Institutional furniture                          | 2           | 14            | 3   | 358                 | 9 368                | 284        | 561              | 6 649              | 22 004                                     | 14 705                            | 36 357                             | D   |
|                 | mfg   | 2           | 5             | 2   | 258                 | 7 657                | 193        | 397              | 5 248              | 17 862                                     | 9 921                             | 27 570                             | D   |

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|               |   |        | A        | All                                       |                     |                      | Dr         | oduction work    | ors                |  |                                   |                                    |   |
|---------------|---|--------|----------|---|---------------------|----------------------|------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|               |   |        | establis | shments                                   | All emp             | loyees               | PI         |                  | ers                |  |                                   |                                    |   |
| NAICS<br>code | Geographic area and industry  | E1     | Total    | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number     | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|               | SEATTLE-TACOMA-<br>BREMERTON, WA<br>CMSA-Con.                               |        |          |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
|               | Tacoma, WA PMSA—<br>Con.  |        |          |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 31-33         | Manufacturing—<br>Con.  |        |          |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 337           | Furniture & related product mfg-Con.  |        |          |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 3372<br>33721 | Office furniture (including<br>fixtures) mfg<br>Office furniture (including | -      | 15       | 8   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 337215        | fixtures) mfg<br>Showcase, partition,<br>shelving, & locker                 | -      | 15       | 8   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
|               | mfg   | -      | 7        | 4   | 303                 | 10 674               | 216        | 448              | 6 979              | 11 712                                     | 15 929                            | 31 328                             | 610   |
| 339           | Miscellaneous mfg   | 5      | 78       | 6   | 561                 | 14 558               | 402        | 727              | 8 432              | 33 559                                     | 17 366                            | 50 880                             | 1 525   |
| 3399          | Other miscellaneous mfg   | 5      | 43       | 5   | 424                 | 10 448               | 316        | 591              | 6 627              | 24 033                                     | 13 203                            | 37 066                             | 1 239   |
|               | SPOKANE, WA MSA   |        |          |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 31-33         | Manufacturing   | -      | 572      | 176                                       | 20 892              | 681 396              | 14 631     | 28 708           | 406 848            | 1 811 208                                  | 2 181 124                         | 3 994 582                          | 155 683   |
| 311           | Food mfg  | 1      | 48       | 20  | 1 585               | 46 714               | 829        | 1 484            | 20 844             | 136 006                                    | 178 897                           | 314 480                            | 12 137  |
| 3115<br>31151 | Dairy product mfg<br>Dairy product (except                                  | -      | 5        | 3   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | 57  |
| 311511        | frozen) mfg<br>Fluid milk mfg   | -      | 3<br>3   | 3<br>3                                    | 342<br>342          | 6 675<br>6 675       | 101<br>101 | 136<br>136       | 3 051<br>3 051     | 21 814<br>21 814                           | 23 482<br>23 482                  | 45 263<br>45 263                   | D<br>D  |
| 3118<br>31181 | Bakeries & tortilla mfg<br>Bread & bakery product                           | -      | 18       | 9   | 784                 | 27 148               | 405        | 731              | 10 668             | 65 791                                     | 47 395                            | 112 772                            | 1 984   |
| 311812        | mfg<br>Commercial bakeries  | _      | 14<br>9  | 6<br>5                                    | 685<br>636          | 24 587<br>23 728     | 339<br>300 | 593<br>517       | 8 947<br>8 395     | 59 185<br>57 162                           | 30 088<br>27 054                  | 89 010<br>84 208                   | 1 607<br>1 579                                  |
| 315           | Apparel mfg   | -      | 9        | 5   | 351                 | 4 838                | 322        | 576              | 3 952              | 7 813                                      | 2 412                             | 10 225                             | D   |
| 3152<br>31521 | Cut & sew apparel mfg<br>Cut & sew apparel                                  | -      | 8        | 5   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 315211        | contractors<br>Men's & boys' cut &  | -      | 5        | 3   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
|               | sew apparel<br>contractors  | -      | 3        | 3   | 256                 | 3 543                | 235        | 413              | 2 776              | 5 488                                      | 944                               | 6 435                              | D   |
| 321           | Wood product mfg  | 1      | 27       | 8   | 840                 | 16 837               | 726        | 1 362            | 14 331             | 44 007                                     | 86 060                            | 129 444                            | D   |
| 3219<br>32191 | Other wood product mfg<br>Millwork  | _      | 18<br>7  | 4<br>3                                    | 610<br>458          | 12 777<br>9 498      | 569<br>433 | 1 078<br>836     | 11 713<br>8 783    | 35 572<br>27 404                           | 69 520<br>37 061                  | 104 489<br>65 526                  | D<br>D  |
| 321912        | Cut stock, resawing<br>lumber, & planing                                    | -      | 3        | 2   | 407                 | 8 457                | 390        | 761              | 7 995              | 25 118                                     | 33 932                            | 60 093                             | D   |
| 322           | Paper mfg   | -      | 7        | 7   | 332                 | 12 834               | 233        | 500              | 7 742              | 37 858                                     | 38 910                            | 76 915                             | D   |
| 323           | Printing & related support activities                                       | 2      | 75       | 10  | 756                 | 18 174               | 515        | 836              | 10 718             | 42 069                                     | 19 127                            | 61 130                             | 3 534   |
| 3231<br>32311 | Printing & related support<br>activities<br>Printing                        | 2<br>2 | 75<br>65 | 10<br>10                                  | 756<br>719          | 18 174<br>17 374     | 515<br>484 | 836<br>788       | 10 718<br>10 108   | 42 069<br>40 390                           | 19 127<br>18 745                  | 61 130<br>59 071                   | 3 534<br>3 446                                  |
| 323110        | Commercial lithographic printing  | 1      | 33       | 5   | 421                 | 11 300               | 264        | 445              | 6 174              | 26 856                                     | 9 213                             | 36 032                             | 2 557   |
| 325           | Chemical mfg  | 2      | 16       | 9   | 618                 | 21 414               | 330        | 1 099            | 10 551             | 52 437                                     | 74 602                            | 131 345                            | 4 333   |
| 3254          | Pharmaceutical & medicine mfg   | _      | 5        | 4   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 32541         | Pharmaceutical & medicine mfg   | _      | 5        | 4   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 325414        | Biological product<br>(except diagnostic)<br>mfg                            | _      | 5        | 4   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 326           | Plastics & rubber products  |        |          |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 0004          | mfg   | -      | 19       | 9   | 928                 | 22 513               | 706        | 1 450            | 14 258             | 51 807                                     | 37 806                            | 89 372                             | 2 791   |
| 3261<br>32619 | Plastics product mfg<br>Other plastics product<br>mfg                       | _      | 15<br>12 | 9   | 889<br>824          | 21 686<br>20 015     | 672<br>620 | 1 388<br>1 287   | 13 567<br>12 329   | 49 365<br>45 724                           | 35 629<br>32 696                  | 84 631<br>78 063                   | 2 671<br>D                                      |
| 326199        | All other plastics<br>product mfg   | _      | 10       | 8   | 624<br>f            | 20 013<br>D          | D          | D                | 12 329<br>D        | 43 724<br>D                                | 32 090<br>D                       | 78 003<br>D                        | 2 458   |
| 327           | Nonmetallic mineral product mfg   | 1      | 22       | 11  | 711                 | 21 876               | 529        | 1 110            | 13 785             | 63 376                                     | 51 779                            | 114 302                            | 5 164   |
| 3273          | Cement & concrete product mfg   | 1      | 15       | 8   | 492                 | 16 511               | 360        | 777              | 10 467             | 51 204                                     | 41 426                            | 91 957                             | 3 268   |
| 32739         | Other concrete product<br>mfg   | -      | 6        | 3   | 305                 | 10 637               | 237        | 502              | 7 014              | 25 973                                     | 22 215                            | 47 622                             | 2 060   |
| 327390        | Other concrete product<br>mfg   | _      | 6        | 3   | 305                 | 10 637               |            | 502              | 7 014              | 25 973                                     | 22 215                            | 47 622                             | 2 060   |

[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]

| append           | ixes. For meaning of abbreviation                                    | 113 a       | nu symbo       | 513, 300 III                              | Inductory text      | ]                    |                 |                  |                     |  |                                   |                                    |   |
|------------------|--|-------------|----------------|---|---------------------|----------------------|-----------------|------------------|---------------------|--|-----------------------------------|------------------------------------|---|
|                  |  |             | /<br>establis  | All<br>shments                            | All emp             | oloyees              | Pr              | oduction work    | ers                 |  |                                   |                                    |   |
| NAICS<br>code    | Geographic area and industry   | E1          | Total          | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number          | Hours<br>(1,000) | Wages<br>(\$1,000)  | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                  | SPOKANE, WA MSA-<br>Con.   |             |                |   |                     |                      |                 |                  |                     |  |                                   |                                    |   |
| 31-33            | Manufacturing-<br>Con.   |             |                |   |                     |                      |                 |                  |                     |  |                                   |                                    |   |
| 331              | Primary metal mfg  | -           | 12             | 10  | 3 948               | 173 930              | 3 155           | 6 708            | 121 818             | 610 865                                    | 895 159                           | 1 516 154                          | 68 854  |
| 3313<br>33131    | Alumina & aluminum<br>production & processing<br>Alumina & aluminum  | -           | 2              | 2   | h                   | D                    | D               | D                | D                   | D  | D                                 | D                                  | D   |
|                  | production & processing  | _           | 2              | 2   | h                   | D                    | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 331312<br>331315 | Primary aluminum<br>production<br>Aluminum sheet, plate,             | -           | 1              | 1   | g                   | D                    | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 3314             | & foil mfg<br>Nonferrous metal (except                               | -           | 1              | 1   | g                   | D                    | D               | D                | D                   | D  | D                                 | D                                  | D   |
|                  | aluminum) production & processing                                    | -           | 2              | 1   | f                   | D                    | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 33149            | Other nonferrous metal<br>rolling, drawing,<br>extruding, & alloying | _           | 2              | 1   | f                   | D                    | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 331491           | Other nonferrous metal<br>rolling, drawing, &<br>extruding           | _           | 1              | 1   | f                   | D                    | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 3315<br>33151    | Foundries<br>Ferrous metal foundries .                               | -<br>1      | 8              | 7   | f<br>291            | D<br>8 260           | D<br>192        | D<br>372         | D<br>4 451          | D<br>15 910                                | D<br>9 033                        | D<br>24 822                        | D   |
| 331511           | Iron foundries   | i           | 4              | 4   | 291<br>e            | 0 200<br>D           | D               | D                | 4 431<br>D          | D  | 9 033<br>D                        | 24 022<br>D                        | D   |
| 33152<br>331524  | Nonferrous metal<br>foundries<br>Aluminum foundries                  | -           | 3              | 2   | f                   | D                    | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 332              | (except die-casting)   | -           | 3              | 2   | f                   | D                    | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 3323             | mfgArchitectural & structural  | 1           | 111            | 29  | 1 839               | 52 876               | 1 403           | 2 540            | 33 551              | 112 299                                    | 101 364                           | 212 779                            | 8 473   |
| 33231            | metals mfg<br>Plate work & fabricated                                | 1           | 43<br>18       | 16<br>6                                   | 1 077<br>388        | 31 045<br>12 420     | 790<br>266      | 1 445<br>489     | 18 375              | 69 157<br>23 339                           | 79 240<br>22 120                  | 147 997<br>45 362                  | 3 817<br>857                                    |
| 33232            | structural product mfg<br>Ornamental &                               | _           | 10             | 0   | 300                 | 12 420               | 200             | 489              | 6 685               | 23 339                                     | 22 120                            | 45 362                             | 657   |
| 332322           | architectural metal<br>products mfg<br>Sheet metal work mfg.         | 1           | 25<br>17       | 10<br>9                                   | 689<br>616          | 18 625<br>16 709     | 524<br>474      | 956<br>859       | 11 690<br>10 555    | 45 818<br>41 938                           | 57 120<br>53 060                  | 102 635<br>94 671                  | 2 960<br>2 830                                  |
| 3327             | Machine shops, turned<br>product, & screw, nut, &                    |             |                |   |                     |                      |                 |                  |                     |  |                                   |                                    |   |
| 33271<br>332710  | bolt mfg<br>Machine shops<br>Machine shops                           | 1<br>1<br>1 | 41<br>38<br>38 | 5<br>4<br>4                               | e<br>287<br>287     | D<br>8 985<br>8 985  | D<br>211<br>211 | D<br>337<br>337  | D<br>5 635<br>5 635 | D<br>16 256<br>16 256                      | D<br>8 386<br>8 386               | D<br>24 527<br>24 527              | D<br>1 809<br>1 809                             |
| 333              | Machinery mfg  | 1           | 41             | 9   | 1 287               | 42 893               | 897             | 1 646            | 25 244              | 79 695                                     | 51 384                            | 132 825                            | 2 958   |
| 3335             | Metalworking machinery   | 1           | 11             | 4   | 407                 | 13 017               | 278             | 553              | 7 801               | 21 162                                     | 13 027                            | 34 834                             | 1 053   |
| 33351<br>333513  | Metalworking machinery   | 1           | 11             | 4   | 407                 | 13 017               | 278             | 553              | 7 801               | 21 162                                     | 13 027                            | 34 834                             | 1 053   |
|                  | Machine tool (metal forming types) mfg                               | -           | 1              | 1   | е                   | D                    | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 3339<br>33392    | Other general-purpose<br>machinery mfg<br>Material handling          | -           | 11             | 3   | 644                 | 23 534               | 443             | 794              | 13 320              | 39 561                                     | 24 482                            | 64 900                             | 995   |
| 333922           | equipment mfg<br>Conveyor & conveying<br>equipment mfg               | -           | 4              | 2   | e                   | D                    | D<br>D          | D                | D                   | D  | D                                 | D                                  | 727<br>D  |
| 334              | Computer & electronic  | -           |                |   | e                   |                      |                 |                  |                     |  |                                   |                                    |   |
| 3341             | product mfg<br>Computer & peripheral                                 | -           | 27             | 14  | 3 632               | 128 442              | 1 997           | 3 692            | 57 161              | 360 522                                    | 380 315                           | 728 524                            | D   |
| 33411            | Computer & peripheral<br>equipment mfg<br>Computer & peripheral      | 1           | 8              | 4   | 1 753               | 55 828               | 852             | 1 740            | 23 656              | 130 315                                    | 180 764                           | 307 885<br>307 885                 | D   |
| 334111           | equipment mfg<br>Electronic computer<br>mfg                          | 1           | 8              | 4   | 1 753<br>f          | 55 828<br>D          | 852<br>D        | 1 740<br>D       | 23 656<br>D         | 130 315<br>D                               | 180 764<br>D                      | 307 885<br>D                       | D   |
| 334119           | Other computer<br>peripheral equipment<br>mfg                        | 2           | 6              | 3   | g                   | D                    | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 3342             | Communications<br>equipment mfg                                      |             | 6              | 3   | f                   | D                    | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 33421            | Telephone apparatus<br>mfg   | _           | 1              | 1   | f                   | D                    | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 334210           | Telephone apparatus<br>mfg   | -           | 1              | 1   | f                   | D                    | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 3345             | Navigational, measuring,<br>medical, & control<br>instruments mfg    | _           | 10             | 4   | g                   | D                    | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 33451            | Navigational, measuring,<br>medical, & control<br>instruments mfg    | _           | 10             | 4   | g                   | D                    | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 334515           | Electricity measuring &<br>testing instrument<br>mfg                 | _           | 3              |   | 9<br>f              | D                    |                 |                  |                     |  |                                   | D                                  |   |
|                  | 5  |             | -              |   |                     |                      | _               | _                | -                   | -  | -                                 | -                                  |   |

[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]

|                         | ixes. I of meaning of abbreviatio   |             | -           | AII                                       |                     |                      |             |                  |                    |  |                                   |                                    |   |
|-------------------------|---|-------------|-------------|---|---------------------|----------------------|-------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                         |   |             | establis    | shments                                   | All emp             | oloyees              | Pr          | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code           | Geographic area and industry  | E1          | Total       | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number      | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                         | SPOKANE, WA MSA –<br>Con.   |             |             |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing—<br>Con.  |             |             |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 335                     | Electrical equipment,<br>appliance, & component                                 | 2           | 8           | 4   | 722                 | 21 145               | 511         | 1 044            | 12 413             | 43 455                                     | 39 936                            | 83 275                             | D   |
| 3351                    | mfg<br>Electric lighting equipment  | 2           |             |   | 122                 | -                    |             |                  |                    |  |                                   |                                    |   |
| 33512<br>335122         | mfg<br>Lighting fixture mfg<br>Commercial/industrial/<br>institutional electric | -           | 1           | 1   | f<br>f              | D<br>D               | D<br>D      | D                | D                  | D  | D<br>D                            | D<br>D                             | D   |
| 000                     | lighting fixture mfg  | -           | 1           | 1   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 336                     | Transportation equipment<br>mfg   | 2           | 40          | 15  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 4 549   |
| 3362                    | Motor vehicle body & trailer  | -           | 8           | 3   | e                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 33621                   | Motor vehicle body & trailer mfg  | -           | 8           | 3   | е                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3363                    | Motor vehicle parts mfg   | 6           | 17          | 9   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 2 792   |
| 3364<br>33641           | Aerospace product & parts<br>mfg<br>Aerospace product &                         | 1           | 7           | 2   | 617                 | 27 124               | 478         | 885              | 19 557             | 25 566                                     | 26 966                            | 52 277                             | 560   |
| 336413                  | parts mfg<br>Other aircraft part &  | 1           | 7           | 2   | 617                 | 27 124               | 478         | 885              | 19 557             | 25 566                                     | 26 966                            | 52 277                             | 560   |
|                         | auxiliary equipment<br>mfg  | 1           | 6           | 2   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3366<br>33661<br>336612 | Ship & boat building<br>Ship & boat building<br>Boat building                   | -<br>-<br>- | 5<br>5<br>4 | 1<br>1<br>1                               | e<br>e<br>e         | D<br>D<br>D          | D<br>D<br>D | D<br>D<br>D      | D<br>D<br>D        | D<br>D<br>D                                | D<br>D<br>D                       | D<br>D<br>D                        | D<br>D<br>D                                     |
| 337                     | Furniture & related product mfg   | 1           | 31          | 4   | 620                 | 12 781               | 474         | 881              | 7 909              | 24 053                                     | 21 772                            | 46 003                             | D   |
| 3371                    | Household & institutional<br>furniture & kitchen cabinet                        |             |             |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 33711                   | mfg<br>Wood kitchen cabinet &   | 1           | 22          | 3   | 516                 | 10 365               | 415         | 770              | 6 478              | 17 906                                     | 16 710                            | 34 722                             | D   |
| 337110                  | Counter top mfg<br>Wood kitchen cabinet<br>& counter top mfg                    | _           | 13<br>13    | 1   | 393<br>393          | 7 696<br>7 696       | 318<br>318  | 591<br>591       | 4 765<br>4 765     | 13 120<br>13 120                           | 11 970<br>11 970                  | 25 308<br>25 308                   | D   |
| 339                     | Miscellaneous mfg   | 3           | 60          | 8   | f                   | 7 090<br>D           | 510<br>D    | D                | 4 705<br>D         | D  | D                                 | 23 300<br>D                        | D   |
| 3399                    | Other miscellaneous mfg   | 2           | 37          | 6   | e                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 641   |
|                         | YAKIMA, WA MSA  |             |             |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing   | -           | 239         | 89  | 10 163              | 264 561              | 8 183       | 15 635           | 186 897            | 761 968                                    | 1 332 210                         | 2 090 544                          | 89 956  |
| 311                     | Food mfg  | -           | 36          | 22  | 3 281               | 76 005               | 2 911       | 5 425            | 58 753             | 297 921                                    | 678 328                           | 977 631                            | 36 770  |
| 3114<br>31142           | Fruit & vegetable<br>preserving & specialty<br>food mfg<br>Fruit & vegetable    | -           | 22          | 16  | 2 394               | 55 496               | 2 162       | 3 981            | 43 111             | 186 931                                    | 329 377                           | 518 145                            | D   |
| 011401                  | canning, pickling, &<br>drying  | -           | 20          | 14  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 12 584  |
| 311421                  | Fruit & vegetable canning   | -           | 17          | 12  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3116<br>31161           | Meat product mfg<br>Animal slaughtering &                                       | -           | 3           | 3   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 311611                  | Animal (except poultry)   | -           | 3<br>3      | 3   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 312                     | slaughtering  | _           | 11          | 5   | 268                 | 6 549                | 134         | 246              | 2 990              | 44 165                                     | 52 135                            | 94 616                             | 2 998   |
| 3121                    | mfg<br>Beverage mfg   | _           | 11          | 5   | 268                 | 6 549                | 134         | 246              | 2 990              | 44 165                                     | 52 135                            | 94 616<br>94 616                   | 2 998   |
| 321                     | Wood product mfg  | -           | 25          | 13  | 1 525               | 39 503               | 1 351       | 2 636            | 30 912             | 88 581                                     | 196 592                           | 282 878                            | 11 870  |
| 3212                    | Veneer, plywood, & engineered wood product                                      |             |             |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 32121                   | Mfg<br>Veneer, plywood, &<br>engineered wood                                    | -           | 5           | 3   | 298                 | 9 838                | 261         | 519              | 7 937              | 30 357                                     | 47 479                            | 76 345                             | D   |
| 2010                    | product mfg   | -           | 5           | 3   | 298                 | 9 838                | 261         | 519              | 7 937              | 30 357                                     | 47 479                            | 76 345                             | D   |
| 3219<br>32191<br>321918 | Other wood product mfg<br>Millwork<br>Other millwork                            | -           | 16<br>6     | 8<br>4                                    | t<br>f              | DD                   | D<br>D      | D                | D<br>D             | D  | D<br>D                            | D<br>D                             | D   |
|                         | (including flooring)  | -           | 2           | 1   | e                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 322<br>3222             | Paper mfg   | -           | 5           | 4   | 351                 | 13 929               | 273         | 601              | 10 176             | 34 900                                     | 84 220                            | 120 260                            | 9 201   |
| 3222<br>32221           | Converted paper product<br>mfg<br>Paperboard container                          | -           | 5           | 4   | 351                 | 13 929               | 273         | 601              | 10 176             | 34 900                                     | 84 220                            | 120 260                            | 9 201   |
| 322211                  | mfg<br>Corrugated & solid   | -           | 3           | 3   | е                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
|                         | fiber box mfg   | -           | 2           | 2   | e                   | D                    | D           | l D              | D                  | D  | D                                 | D                                  | D   |

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|                 |   |    | /<br>establis | All<br>shments                            | All em              | ployees              | Pr         | oduction work    | ers                |  |                                   |                                    |   |
|-----------------|---|----|---------------|---|---------------------|----------------------|------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code   | Geographic area and industry                              | E1 | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number     | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                 | YAKIMA, WA MSA-<br>Con.                                   |    |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing—<br>Con.                                    |    |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 326             | Plastics & rubber products mfg                            | 1  | 15            | 10  | 1 403               | 41 794               | 1 118      | 2 271            | 26 986             | 100 003                                    | 146 788                           | 246 770                            | 16 248  |
| 3261<br>32611   | Plastics product mfg<br>Unsupported plastics              | 1  | 15            | 10  | 1 403               | 41 794               | 1 118      | 2 271            | 26 986             | 100 003                                    | 146 788                           | 246 770                            | 16 248  |
| 326111          | film, sheet, & bag mfg<br>Unsupported plastics<br>bag mfg | _  | 1             | 1   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 32619           | Other plastics product                                    | _  |               |   |                     | _                    |            | _                |                    | _  | _                                 | _                                  | _   |
| 326199          | mfg<br>All other plastics<br>product mfg                  | 3  | 7             | 5<br>5                                    | 589<br>589          | 17 890<br>17 890     | 445<br>445 | 880<br>880       | 9 953<br>9 953     | 37 901<br>37 901                           | 37 384<br>37 384                  | 75 594<br>75 594                   | 3 211<br>3 211                                  |
| 332             | Fabricated metal product                                  | _  | 33            | 9   | 909                 | 26 979               | 605        | 1 102            | 18 619             | 60 187                                     | 51 924                            | 109 747                            | 3 199   |
| 3323            | Architectural & structural metals mfg                     | _  | 9             | 4   | 301                 | 6 461                | 228        | 348              | 4 482              | 14 069                                     | 13 432                            | 27 300                             | 528   |
| 3329            | Other fabricated metal product mfg                        | _  | 6             | 2   | 348                 | 13 016               | 176        | 347              | 8 557              | 27 455                                     | 11 632                            | 38 128                             | D   |
| 33291<br>332912 | Metal valve mfg<br>Fluid power valve &                    | -  | 1             | 1   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 333             | hose fitting mfg  | 6  | 1<br>33       | 1   | e<br>779            | D<br>19 645          | D<br>483   | D<br>727         | D<br>10 310        | D<br>44 186                                | D<br>41 492                       | D<br>87 116                        | D<br>3 949                                      |
| 3332<br>33322   | Industrial machinery mfg<br>Plastics & rubber             | 9  | 4             | 1   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 333220          | industry machinery<br>mfg<br>Plastics & rubber            | 9  | 1             | 1   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
|                 | industry machinery<br>mfg                                 | 9  | 1             | 1   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 336             | Transportation equipment mfg                              | _  | 6             | 3   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | 801   |
| 3362            | Motor vehicle body & trailer                              | _  | 4             | 3   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 33621           | Motor vehicle body &<br>trailer mfg                       | _  | 4             | 3   | e                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 336214          | Travel trailer & camper mfg                               | -  | 1             | 1   | е                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 339             | Miscellaneous mfg   | 1  | 27            | 6   | 516                 | 10 363               | 341        | 608              | 6 377              | 27 942                                     | 17 951                            | 46 211                             | 2 376   |
| 3399            | Other miscellaneous mfg                                   | 1  | 16            | 5   | 463                 | 9 171                | 296        | 531              | 5 551              | 25 542                                     | 15 975                            | 41 816                             | 2 305   |

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to aso percent; 9–90 percent or more. <sup>21</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 24 employees; –520 to 499 employees; m–100,000 to 24,999 employees; k–25,000 to 49,999 employees; 1–50,000 to 99,999 employees or more.

## Table 3. Industry Statistics for Counties: 1997

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

|               |   |        |        | All<br>shments                            | All em              | ployees              | Pr     | oduction work    | ers                |  |                                   |                                    |   |
|---------------|---|--------|--------|---|---------------------|----------------------|--------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code | Geographic area and industry                | E1     | Total  | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|               | ADAMS COUNTY, WA                            |        |        |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 31-33         | Manufacturing                               | 5      | 13     | 2   | 1 088               | 25 924               | 967    | 2 057            | 20 521             | 127 582                                    | 147 070                           | 274 743                            | D   |
| 311           | Food mfg                                    | 5      | 6      | 2   | 1 065               | 25 500               | 947    | 2 031            | 20 145             | 126 113                                    | 146 082                           | 272 264                            | D   |
| 3114          | Fruit & vegetable<br>preserving & specialty |        |        |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 31141         | food mfg<br>Frozen food mfg                 | 5<br>5 | 3<br>3 | 2<br>2                                    | g                   | D<br>D               | D      | D<br>D           | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | D<br>D  |
| 311411        | Frozen fruit, juice, & vegetable mfg        | 5      | 3      | 2   | g                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |

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

|                 | idois, see introductory textj   |             |                | All                                       | All emp             | loyees                | Pr              | oduction worke   | ers                 |  |                                   |                                    |   |
|-----------------|---|-------------|----------------|---|---------------------|-----------------------|-----------------|------------------|---------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code   | Geographic area and industry  | E1          | Total          | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000)  | Number          | Hours<br>(1,000) | Wages<br>(\$1,000)  | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                 | BENTON COUNTY, WA   |             |                |   |                     |                       |                 |                  |                     |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -           | 121            | 24  | 3 672               | 139 525               | 2 634           | 5 504            | 78 890              | 425 151                                    | 462 665                           | 885 455                            | 49 398  |
| 311             | Food mfg  | -           | 16             | 7   | g                   | D                     | D               | D                | D                   | D  | D                                 | D                                  | 27 279  |
| 3114            | Fruit & vegetable<br>preserving & specialty   |             |                |   |                     | _                     | _               | _                | _                   | _  |                                   | _                                  | _   |
| 31141           | food mfg<br>Frozen food mfg   | -           | 5<br>4         | 5<br>4                                    | g<br>g              | D<br>D                | D<br>D          | D<br>D           | D<br>D              | D<br>D                                     | D<br>D                            | D<br>D                             | D<br>D  |
| 311411          | Frozen fruit, juice, & vegetable mfg  | -           | 4              | 4   | g                   | D                     | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 325             | Chemical mfg  | -           | 6              | 3   | f                   | D                     | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 3251<br>32518   | Basic chemical mfg<br>Other basic inorganic   | -           | 2              | 1   | T<br>f              | D                     | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 325188          | chemical mfg<br>All other basic<br>inorganic chemical                               | -           |                | '   |                     | D                     | D               | D                | D                   | D  | D                                 | D                                  |   |
|                 | mfg   | -           | 1              | 1   | f                   | D                     | D               | D                | D                   | D  | D                                 | D                                  | D   |
|                 | CHELAN COUNTY, WA   |             |                |   |                     |                       |                 |                  |                     |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -           | 88             | 23  | 2 535               | 76 215                | 2 066           | 3 850            | 55 046              | 195 073                                    | 345 824                           | 552 162                            | 25 606  |
| 331             | Primary metal mfg   | -           | 3              | 3   | f                   | D                     | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 3313<br>33131   | Alumina & aluminum<br>production & processing<br>Alumina & aluminum<br>production & | -           | 2              | 2   | f                   | D                     | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 331312          | processing<br>Primary aluminum  | -           | 2              | 2   | f                   | D                     | D               | D                | D                   | D  | D                                 | D                                  | D   |
|                 | production  | -           | 1              | 1   | f                   | D                     | D               | D                | D                   | D  | D                                 | D                                  | D   |
|                 | CLALLAM COUNTY,<br>WA   |             |                |   |                     |                       |                 |                  |                     |  |                                   |                                    |   |
| 31-33           | Manufacturing   | 1           | 75             | 15  | 1 481               | 48 991                | 1 184           | 2 330            | 37 807              | 150 950                                    | 195 781                           | 359 236                            | 9 266   |
| 321             | Wood product mfg  | 3           | 24             | 4   | 507                 | 11 802                | 450             | 906              | 10 165              | 35 924                                     | 78 451                            | 112 932                            | 4 474   |
|                 | CLARK COUNTY, WA  |             |                |   |                     |                       |                 |                  |                     |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -           | 421            | 131                                       | 19 537              | 715 232               | 15 316          | 30 133           | 489 358             | 1 985 441                                  | 1 906 135                         | 3 854 312                          | 514 319   |
| 311             | Food mfg  | -           | 20             | 6   | 1 022               | 40 927                | 830             | 1 834            | 23 245              | 162 503                                    | 191 591                           | 353 193                            | 15 968  |
| 3119<br>31191   | Other food mfg<br>Snack food mfg  | -           | 2<br>1<br>1    | 1   | f                   | D<br>D<br>D           | D<br>D<br>D     | D<br>D<br>D      | D<br>D<br>D         | D<br>D<br>D                                | D<br>D<br>D                       | D<br>D<br>D                        | D<br>D<br>D                                     |
| 311919<br>315   | Other snack food mfg .<br>Apparel mfg   | _           | 4              | 1   | f                   | D                     | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 3152            | Cut & sew apparel mfg   | -           | 4              | 3   | f                   | D                     | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 321             | Wood product mfg  | 1           | 36             | 14  | 839                 | 22 791                | 644             | 1 260            | 14 169              | 52 052                                     | 109 223                           | 163 543                            | 2 022   |
| 322             | Paper mfg   | -           | 12             | 10  | 2 499               | 88 468                | 2 149           | 4 056            | 67 831              | 385 829                                    | 354 509                           | 734 924                            | D   |
| 3221            | Pulp, paper, & paperboard mills   | _           | 1              | 1   | g                   | D                     | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 32212<br>322121 | Paper mills<br>Paper (except  | -           | 1              | i   | g                   | Ď                     | Ď               | Ď                | D                   | D  | Ď                                 | D                                  | Ď   |
|                 | newsprint) mills  | -           | 1              | 1   | g                   | D                     | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 3222            | Converted paper product<br>mfg  | -           | 11             | 9   | f                   | D                     | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 326             | Plastics & rubber products mfg  | 1           | 22             | 15  | 1 064               | 30 108                | 698             | 1 400            | 18 238              | 62 829                                     | 65 646                            | 130 884                            | 7 592   |
| 3261            | Plastics product mfg  | 1           | 21             | 15  | g                   | D                     | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 32619<br>326199 | Other plastics product<br>mfg<br>All other plastics                                 | -           | 12             | 9   | 766                 | 21 872                | 479             | 965              | 12 320              | 47 111                                     | 31 766                            | 78 276                             | D   |
| 320199          | product mfg   | -           | 12             | 9   | 766                 | 21 872                | 479             | 965              | 12 320              | 47 111                                     | 31 766                            | 78 276                             | D   |
| 331             | Primary metal mfg   | -           | 6              | 5   | 776                 | 31 817                | 660             | 1 361            | 22 514              | 101 703                                    | 131 421                           | 228 268                            | D   |
| 3313<br>33131   | Alumina & aluminum<br>production & processing<br>Alumina & aluminum<br>production & | -           | 3              | 3   | f                   | D                     | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 331312          | processing<br>Primary aluminum  | -           | 3              | 3   | f                   | D                     | D               | D                | D                   | D  | D                                 | D                                  | D   |
| 332             | production<br>Fabricated metal product<br>mfg                                       | _           | 1<br>78        | 1<br>19                                   | f<br>1 512          | D<br>44 944           | D<br>1 152      | D<br>2 140       | D<br>30 659         | D<br>85 688                                | D<br>65 878                       | D<br>150 500                       | D<br>5 398                                      |
| 3323            | Architectural & structural  |             |                |   |                     |                       |                 |                  |                     |  |                                   |                                    |   |
| 3327            | metals mfg<br>Machine shops, turned<br>product, & screw, nut, &                     | 1           | 25             | 10  | 546                 | 17 779                | 405             | 748              | 11 875              | 33 441                                     | 27 324                            | 59 930                             | 1 451   |
| 33271<br>332710 | bolt mfg<br>Machine shops<br>Machine shops  | -<br>-<br>- | 42<br>40<br>40 | 4<br>3<br>3                               | f<br>509<br>509     | D<br>13 576<br>13 576 | D<br>379<br>379 | D<br>626<br>626  | D<br>9 067<br>9 067 | D<br>25 586<br>25 586                      | D<br>9 652<br>9 652               | D<br>35 236<br>35 236              | D<br>2 380<br>2 380                             |

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

|                     |   |                | /<br>establis | All<br>shments                            | All emp             | oloyees              | Pr         | oduction work    | ers                |  |                                   |                                    |   |
|---------------------|---|----------------|---------------|---|---------------------|----------------------|------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code       | Geographic area and industry  | E <sup>1</sup> | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number     | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                     | CLARK COUNTY, WA-   |                |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 31-33               | Manufacturing—<br>Con.  |                |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 333                 | Machinery mfg   | -              | 45            | 12  | 1 312               | 48 341               | 738        | 1 320            | 21 740             | 86 246                                     | 86 247                            | 176 391                            | 7 205   |
| 3332<br>33329       | Industrial machinery mfg<br>Other industrial                        | -              | 10            | 4   | 606                 | 24 542               | 322        | 549              | 11 677             | 30 018                                     | 52 568                            | 84 247                             | D   |
| 334                 | machinery mfg<br>Computer & electronic                              | -              | 7             | 4   | 595                 | 24 223               | 316        | 540              | 11 512             | 29 315                                     | 51 993                            | 82 965                             | D   |
| 3341                | product mfg<br>Computer & peripheral                                | -              | 29            | 13  | 7 013               | 302 509              | 5 855      | 11 784           | 228 406            | 759 249                                    | 613 046                           | 1 344 308                          | 378 258   |
| 33411               | equipment mfg<br>Computer & peripheral                              | -              | 1             | 1   | h                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 334119              | equipment mfg<br>Other computer<br>peripheral equipment             | -              | 1             | 1   | h                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
|                     | mfg   | -              | 1             | 1   | h                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 3344                | Semiconductor & other<br>electronic component                       |                | 12            | 8   | 3 426               | 125 310              | 2 794      | 5 832            | 85 854             | 377 223                                    | 374 419                           | 739 642                            | D   |
| 33441               | mfg<br>Semiconductor & other<br>electronic component                | -              | 12            | 0   | 5 420               | 125 510              | 2 754      | 5 052            | 05 054             | 517 225                                    | 574 415                           |                                    |   |
| 334413              | mfg Semiconductor &   | -              | 12            | 8   | 3 426               | 125 310              | 2 794      | 5 832            | 85 854             | 377 223                                    | 374 419                           | 739 642                            | D   |
| 334414              | related device mfg<br>Electronic capacitor<br>mfg                   | -              | 6             | 5   | g                   | D                    | D          | D<br>D           | D                  | D  | D                                 | D                                  | D   |
|                     | COWLITZ COUNTY, WA  |                |               |   |                     | D                    | D          | U                | D                  |  | D                                 | D                                  |   |
| 31-33               | Manufacturing   | _              | 125           | 46  | 8 309               | 364 426              | 6 330      | 12 779           | 263 394            | 1 051 539                                  | 1 442 009                         | 2 496 527                          | 180 335   |
| 321                 | Wood product mfg  | -              | 25            | 12  | 1 858               | 62 178               | 1 646      | 3 240            | 50 719             | 114 920                                    | 273 027                           | 381 521                            | 23 334  |
| 3211                | Sawmills & wood<br>preservation                                     | _              | 14            | 8   | 1 335               | 50 234               | 1 198      | 2 540            | 42 593             | 89 648                                     | 242 351                           | 325 185                            | 22 952  |
| 32111               | Sawmills & wood preservation  | -              | 14            | 8   | 1 335               | 50 234               | 1 198      | 2 540            | 42 593             | 89 648                                     | 242 351                           | 325 185                            | 22 952  |
| 321113<br>3219      | Sawmills<br>Other wood product mfg                                  | -              | 14<br>10      | 8   | 1 335<br>f          | 50 234<br>D          | 1 198<br>D | 2 540<br>D       | 42 593<br>D        | 89 648<br>D                                | 242 351<br>D                      | 325 185<br>D                       | 22 952<br>D                                     |
| 322                 | Paper mfg   | -              | 9             | 9   | h                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 3221                | Pulp, paper, & paperboard mills                                     | _              | 4             | 4   | h                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 32212<br>322122     | Paper mills<br>Newsprint mills                                      | -              | 2<br>1        | 2<br>1                                    | f<br>f              | D<br>D               | D<br>D     | D<br>D           | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | D   |
| 32213<br>322130     | Paperboard mills<br>Paperboard mills                                | -              | 2             | 2   | h<br>h              | D<br>D               | D<br>D     | D<br>D           | D<br>D             | D  | D                                 | D<br>D                             | D   |
| 331                 | Primary metal mfg   | -              | 2             | 2   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 3313<br>33131       | Alumina & aluminum<br>production & processing<br>Alumina & aluminum | -              | 1             | 1   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 331312              | production &<br>processing<br>Primary aluminum                      | -              | 1             | 1   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
|                     | FRANKLIN COUNTY,  | -              | 1             | 1   | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
|                     | WA  |                |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| <b>31-33</b><br>311 | Manufacturing   | _              | 47<br>10      | 7<br>4                                    | <b>3 092</b><br>h   | 69 069<br>D          | 2 668<br>D | 5 480<br>D       | 55 438<br>D        | 221 514<br>D                               | 945 835<br>D                      | 1 160 501<br>D                     | <b>15 849</b><br>14 541                         |
| 3114                | Fruit & vegetable   |                | 10            | -   |                     | 5                    | D          | U                | U                  |  |                                   | U                                  | 14 041  |
|                     | preserving & specialty<br>food mfg<br>Frozen food mfg               | -              | 3             | 3   | g                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 31141<br>311411     | Frozen food mfg<br>Frozen fruit, juice, &<br>vegetable mfg          | -              | 3             | 3   | g                   | D                    | D          | D<br>D           | D                  | D  | D                                 | D                                  | D   |
| 3116                | Meat product mfg  | _              | 1             | 1   | g                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 31161               | Animal slaughtering & processing                                    | -              | 1             | 1   | g                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 311611              | Animal (except poultry) slaughtering                                | -              | 1             | 1   | g                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
|                     | GRANT COUNTY, WA  |                |               |   |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 31-33               | Manufacturing   | 1              | 56            | 22  | 4 090               | 111 290              | 3 276      | 6 408            | 78 230             | 438 256                                    | 370 000                           | 806 938                            | 44 347  |
| 311                 | Food mfg  | -              | 18            | 10  | 2 648               | 65 814               | 2 311      | 4 397            | 50 756             | 251 450                                    | 241 816                           | 495 852                            | 14 652  |
| 3114                | Fruit & vegetable<br>preserving & specialty                         |                | _             | _   |                     | _                    | _          | _                | -                  |  | _                                 | -                                  | _   |
| 31141               | food mfg<br>Frozen food mfg   | -              | 7<br>5        | 7<br>5                                    | g<br>2 036          | D<br>49 103          | D<br>1 805 | D<br>3 299       | D<br>38 885        | D<br>203 026                               | D<br>167 074                      | D<br>373 544                       | D<br>11 687                                     |
| 311411              | Frozen fruit, juice, & vegetable mfg                                | -              | 5             |   | 2 036               | 49 103               | 1 805      | 3 299            | 38 885             | 203 026                                    | 167 074                           | 373 544                            | 11 687  |
| 331                 | Primary metal mfg   | -              | 2             | 2   | f                   | D                    | D          | D                | D                  | D D  | D                                 | D                                  | D   |

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|                         |   |                |               | All                                       |                     |                      |               |                  |                    |  |                                   |                                    |   |
|-------------------------|---|----------------|---------------|---|---------------------|----------------------|---------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                         |   |                | establis      | shments                                   | All emp             | oloyees              | Pr            | oduction work    | ers                |  |                                   |                                    |   |
| NAICS                   | Geographic area and industry                                | E <sup>1</sup> | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number        | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                         | GRAYS HARBOR<br>COUNTY, WA                                  |                |               |   |                     |                      |               |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing   | -              | 97            | 27  | 3 792               | 125 741              | 3 164         | 5 911            | 96 722             | 337 800                                    | 492 226                           | 822 851                            | 22 419  |
| 321<br>3211             | Wood product mfg<br>Sawmills & wood                         | 1              | 45            | 12  | 1 420               | 44 832               | 1 266         | 2 514            | 36 836             | 104 862                                    | 225 970                           | 325 554                            | 7 490   |
| 3211                    | preservation<br>Sawmills & wood                             | 1              | 28            | 5   | 545                 | 18 581               | 476           | 920              | 14 793             | 51 254                                     | 111 307                           | 158 357                            | 4 256   |
| 321113                  | preservation  | 1<br>1         | 28<br>28      | 5<br>5                                    | 545<br>545          | 18 581<br>18 581     | 476<br>476    | 920<br>920       | 14 793<br>14 793   | 51 254<br>51 254                           | 111 307<br>111 307                | 158 357<br>158 357                 | 4 256<br>4 256                                  |
| 3219                    | Other wood product mfg                                      | 1              | 14            | 4   | 567                 | 16 663               | 517           | 997              | 14 114             | 36 104                                     | 59 334                            | 95 426                             | D   |
| 32191<br>322            | Millwork  | 1              | 8             | 3   | 526<br>f            | 16 007<br>D          | 480<br>D      | 924<br>D         | 13 537<br>D        | 34 708<br>D                                | 58 617<br>D                       | 93 423<br>D                        | D   |
| 3221                    | Pulp, paper, & paperboard                                   |                |               |   |                     |                      |               |                  |                    |  |                                   |                                    |   |
| 333                     | mills   | -              | 2             | 2   | f<br>553            | D<br>21 875          | D<br>401      | D<br>757         | D<br>16 339        | D<br>25 407                                | D<br>45 545                       | D<br>69 224                        | D   |
| 3339                    | Other general-purpose                                       | 1              | 0             | 3   | 555                 | 21 675               | 401           | 757              | 10 339             | 25 407                                     | 45 545                            | 09 224                             |   |
|                         | machinery mfg   | 1              | 4             | 3   | f                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
|                         | ISLAND COUNTY, WA   |                |               |   |                     |                      |               |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing   | 1              | 49            | 5   | 625                 | 16 961               | 494           | 943              | 12 136             | 32 673                                     | 30 091                            | 62 524                             | 1 960   |
|                         | JEFFERSON COUNTY,<br>WA                                     |                |               |   |                     |                      |               |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing   | -              | 56            | 9   | f                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | 12 203  |
|                         | KING COUNTY, WA   |                |               |   |                     |                      |               |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing   | 4              | 2 993         | 826                                       | 134 028             | 5 682 613            | 75 310        | 143 453          | 2 515 485          | 10 459 875                                 | 16 073 824                        | 26 480 337                         | 725 700   |
| 311                     | Food mfg  | 2              | 294           | 110                                       | j                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
| 3115<br>31151           | Dairy product mfg<br>Dairy product (except<br>frozen) mfg   | 3              | 16<br>10      | 10<br>6                                   | g                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
| 311511                  | Fluid milk mfg  | 2<br>3         | 7             | 5   | f                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | 4 697   |
| 3116<br>31161           | Meat product mfg<br>Animal slaughtering &                   | 5              | 16            | 9   | g                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
| 311612                  | processing<br>Meat processed from                           | 5<br>3         | 16            | 9   | g                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
| 3117                    | carcasses<br>Seafood product                                | 3              | 14            | /   | I                   | U                    | D             | U                | D                  | U  | U                                 | D                                  | D   |
| 31171                   | preparation & packaging<br>Seafood product<br>preparation & | 2              | 54            | 35  | h                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
| 311712                  | packaging<br>Fresh & frozen                                 | 2              | 54<br>44      | 35<br>34                                  | h<br>h              | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
| 3118                    | seafood processing<br>Bakeries & tortilla mfg               | 1              | 126           | 30  | 4 708               | 133 308              | 2 353         | 4 753            | 64 288             | 390 638                                    | 313 460                           | 702 486                            | D   |
| 31181                   | Bread & bakery product                                      | 2              | 104           | 22  | h                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
| 311812<br>31182         | Commercial bakeries .<br>Cookie, cracker, & pasta           | 3              | 43            | 20  | h                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
|                         | mfg   | -              | 20            | 7   | f                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
| 3119<br>312             | Other food mfg<br>Beverage & tobacco product                | -              | 38            | 14  | g                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
| 512                     | mfg   | 2              | 30            | 16  | g                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
| 3121<br>31211<br>312111 | Beverage mfg<br>Soft drink & ice mfg<br>Soft drink mfg      | 2<br>5<br>5    | 30<br>12<br>9 | 16<br>8<br>7                              | 9<br>875<br>f       | D<br>24 959<br>D     | D<br>297<br>D | D<br>493<br>D    | D<br>8 157<br>D    | D<br>75 063<br>D                           | D<br>178 199<br>D                 | D<br>250 573<br>D                  | D<br>7 075<br>D                                 |
| 31212<br>312120         | BreweriesBreweries  | 1              | 13<br>13      | 6<br>6                                    | f<br>f              | D<br>D               | D<br>D        | D                | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | D   |
| 314                     | Textile product mills                                       | 2              | 76            | 14  | f                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
| 3149                    | Other textile product mills                                 | 3              | 63            | 10  | f                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
| 315                     | Apparel mfg   | 2              | 112           | 23  | g                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | 2 462   |
| 3152<br>31521           | Cut & sew apparel mfg<br>Cut & sew apparel<br>contractors   | 2              | 83<br>36      | 20<br>8                                   | g<br>f              | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
| 31522                   | Men's & boys' cut & sew apparel mfg                         | 1              | 12            | 4   | f                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
| 31523                   | Women's & girls' cut & sew apparel mfg                      | 1              | 21            | 6   | f                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | D   |
| 321                     | Wood product mfg  | 1              | 79            | 27  | g                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | 9 568   |
| 3219<br>32191           | Other wood product mfg<br>Millwork                          | 3              | 63<br>34      | 19<br>9                                   | g                   | D                    | D             | D                | D                  | D  | D                                 | D                                  | 3 721<br>D                                      |
|                         |   |                |               |   |                     |                      | D             | . D              | D                  | . Di                                       |                                   |                                    |   |

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

|                  |  |             | A<br>establis     | ll<br>hments                              | All emp             | loyees               | Pr          | oduction work    | ers                |  |                                   |                                    |   |
|------------------|--|-------------|-------------------|---|---------------------|----------------------|-------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code    | Geographic area and industry                                       | E1          | Total             | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number      | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                  | KING COUNTY, WA-<br>Con.   |             |                   |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 31-33            | Manufacturing—<br>Con.   |             |                   |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 322              | Paper mfg  | -           | 42                | 21  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3222             | Converted paper product<br>mfg                                     | _           | 42                | 21  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 32221            | Paperboard container<br>mfg  | -           | 19                | 14  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 322211           | Corrugated & solid fiber box mfg                                   | -           | 13                | 9   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 323              | Printing & related support activities                              | 1           | 432               | 86  | i                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3231             | Printing & related support<br>activities                           | 1<br>2      | 432               | 86<br>72                                  | į                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 32311<br>323110  | Printing<br>Commercial<br>lithographic printing                    | 2           | 385<br>176        | 72<br>43                                  | ı<br>h              | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 323113           | Commercial screen<br>printing                                      | 3           | 51                | 10  | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 1 866   |
| 323114<br>323116 | Quick printing<br>Manifold business form                           | 1           | 88                | 6   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
|                  | printing   | -           | 10                | 5   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 32312            | Support activities for<br>printing                                 | -           | 47<br>30          | 14  | ą                   | D                    | D<br>D      | D                | D                  | D<br>D                                     | D                                 | D                                  | D<br>D  |
| 323122<br>325    | Prepress services  | -           | 30<br>82          | 8<br>26                                   | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3254             | Pharmaceutical & medicine  |             |                   |   | 5                   |                      |             |                  |                    |  |                                   |                                    |   |
| 32541            | mfg<br>Pharmaceutical &  | -           | 11<br>11          | 4   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 18 414<br>18 414                                |
| 326              | medicine mfg<br>Plastics & rubber products<br>mfg                  | -           | 103               | 43  | h                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 18 414<br>D                                     |
| 3261             | Plastics product mfg<br>Plastics pipe, pipe fitting,               | 1           | 90                | 37  | h                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 32612            | Plastics pipe, pipe titting,<br>& unsupported profile<br>shape mfg | _           | 7                 | 3   | 598                 | 16 087               | 288         | 533              | 6 182              | 47 851                                     | 36 891                            | 85 140                             | D   |
| 326121           | Unsupported plastics<br>profile shape mfg                          | -           | 6                 | 3   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 32619            | Other plastics product<br>mfg                                      | 1           | 55                | 23  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 326199           | All other plastics<br>product mfg                                  | 1           | 50                | 21  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 327              | Nonmetallic mineral product mfg                                    | _           | 87                | 27  | h                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 19 054  |
| 3272<br>32721    | Glass & glass product mfg .<br>Glass & glass product               | -           | 34                | 7   | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 327213           | mfg<br>Glass container mfg   | _           | 34<br>1           | 7<br>1                                    | g<br>f              | D<br>D               | D<br>D      | D<br>D           | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | D<br>D  |
| 327215           | Glass product mfg<br>made of purchased<br>glass                    | -           | 21                | 4   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3273             | Cement & concrete product mfg                                      | _           | 29                | 15  | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 331              | Primary metal mfg  | -           | 24                | 13  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 10 170  |
| 332              | Fabricated metal product   | 1           | 421               | 99  | i                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 42 491  |
| 3321<br>33211    | Forging & stamping<br>Forging & stamping                           | -           | 15<br>15          | 7<br>7                                    | f<br>f              | D<br>D               | D<br>D      | D<br>D           | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | D<br>D  |
| 3323             | Architectural & structural metals mfg                              | 1           | 93                | 24  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 4 439   |
| 33231            | Plate work & fabricated<br>structural product mfg                  | -           | 34                | 8   | g<br>f              | D                    | D           | D                | D                  | D  | D                                 | D                                  | 1 936   |
| 332312           | Fabricated structural metal mfg                                    | -           | 24                | 7   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 33232            | Ornamental & architectural metal                                   | 0           | 59                | 10  | 1 074               | 24 200               | 809         | 1 623            | 21 822             | 70 928                                     | 63 559                            | 104 611                            | 0 500   |
| 332322           | products mfg<br>Sheet metal work mfg.                              | 2<br>-      | 59<br>33          | 16<br>11                                  | 1 074<br>644        | 34 323<br>21 077     | 809<br>494  | 1 623<br>931     | 21 822<br>13 636   | 70 928<br>46 798                           | 63 559<br>30 517                  | 134 611<br>77 757                  | 2 503<br>1 471                                  |
| 3324             | Boiler, tank, & shipping container mfg                             | -           | 14                | 9   | 511                 | 21 347               | 372         | 797              | 15 841             | 51 374                                     | 112 675                           | 161 824                            | 2 578   |
| 3327             | Machine shops, turned<br>product, & screw, nut, &                  |             |                   |   |                     |                      |             |                  |                    |  |                                   |                                    | _   |
| 33271<br>332710  | bolt mfg<br>Machine shops<br>Machine shops                         | -<br>1<br>1 | 179<br>159<br>159 | 29<br>24<br>24                            | g<br>g              | D<br>D<br>D          | D<br>D<br>D |                  | D<br>D<br>D        | D<br>D<br>D                                | D<br>D<br>D                       | D<br>D<br>D                        | D<br>D<br>D                                     |

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

|                  | idois, see introductory text]  |        | A<br>establis | All<br>shments                            | All emp             | loyees               | Pr     | oduction work    | ers                |  |                                   |                                    |   |
|------------------|--|--------|---------------|---|---------------------|----------------------|--------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code    | Geographic area and industry   | E1     | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                  | KING COUNTY, WA-<br>Con.   |        |               |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 31-33            | <b>Manufacturing</b> —<br>Con.   |        |               |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 332              | Fabricated metal product mfg-Con.  |        |               |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 3328<br>33281    | Coating, engraving, heat<br>treating, & allied activities.<br>Coating, engraving, heat<br>treating, & allied | -      | 45            | 15  | g                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 332812           | activities<br>Metal coating/<br>engraving (exc<br>jewelry/silverware)/                                       | -      | 45            | 15  | g                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 332813           | allied services<br>Electroplating, plating,<br>polishing, anodizing,   | 1      | 22            | 8   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 3329             | & coloring   | -      | 16            | 5   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 333              | product mfg  | 1      | 45<br>178     | 9<br>58                                   | f                   | D<br>D               | D<br>D | D<br>D           | D<br>D             | D  | D                                 | D                                  | D<br>23 892                                     |
| 3332<br>33329    | Industrial machinery mfg<br>Other industrial<br>machinery mfg  | 1<br>1 | 34<br>28      | 8<br>8                                    | f                   | D<br>D               | D<br>D | D<br>D           | D                  | D  | D                                 | D                                  | 2 074<br>D                                      |
| 3334             | Ventilation, heating, AC, & commercial refrigeration   |        |               |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 33341            | equip mfg<br>Ventilation, heating, AC,<br>& commercial<br>refrigeration equip mfg .                          | -      | 11            | 6<br>6                                    | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 3335             | Metalworking machinery   | _      | 29            | 7   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 33351            | Metalworking machinery<br>mfg  | -      | 29            | 7   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 3339<br>33392    | Other general-purpose<br>machinery mfg<br>Material handling  | -      | 63            | 21  | g                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 11 859  |
| 333923           | equipment mfg<br>Overhead traveling<br>crane, hoist, &<br>monorail system mfg.                               | -      | 27<br>11      | 11<br>5                                   | g                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 33399            | All other general-purpose machinery mfg  | 1      | 32            | 10  | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 4 699   |
| 334              | Computer & electronic<br>product mfg   | 1      | 237           | 87  | k                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 3341<br>33411    | Computer & peripheral<br>equipment mfg<br>Computer & peripheral  | 1      | 26            | 10  | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 6 483   |
| 334119           | equipment mfg<br>Other computer<br>peripheral equipment<br>mfg   | 1      | 26<br>20      | 10<br>5                                   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 6 483<br>D                                      |
| 3342             | Communications   | 3      | 33            | 12  | g                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 33421<br>334210  | Telephone apparatus<br>mfg<br>Telephone apparatus  | 4<br>4 | 12<br>12      | 6   | g                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 33422            | mfg<br>Radio & TV broadcasting<br>& wireless   | 4      | 12            | 0   | g                   | J                    | D      | J                | D                  |  | U                                 | U                                  | D   |
| 334220           | communications<br>equipment mfg<br>Radio & TV<br>broadcasting &  | 1      | 14            | 5   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
|                  | wireless<br>communications<br>equipment mfg  | 1      | 14            | 5   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 3344             | Semiconductor & other<br>electronic component<br>mfg   | 1      | 58            | 26  | h                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 31 709  |
| 33441            | Semiconductor & other<br>electronic component<br>mfg   | 1      | 58            | 26  | h                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 31 709  |
| 334412           | Bare printed circuit<br>board mfg  | 1      | 16            | 20<br>8                                   | 1 292               | 40 501               | 1 006  | 2 342            | 27 301             | 100 114                                    | 49 818                            | 150 646                            | 31709<br>D                                      |
| 334413<br>334419 | Semiconductor &<br>related device mfg<br>Other electronic<br>component mfg                                   | -      | 10<br>19      | 2   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |

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|                         | ndols, see introductory text]  |        | /<br>establis | All<br>shments                            | All emp             | bloyees              | Pr          | oduction work    | ers                |  |                                   |                                    |   |
|-------------------------|--|--------|---------------|---|---------------------|----------------------|-------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code           | Geographic area and industry   | E1     | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number      | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                         | KING COUNTY, WA-   |        |               |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing—<br>Con.   |        |               |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 334                     | Computer & electronic<br>product mfg—Con.                                      |        |               |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 3345                    | Navigational, measuring,<br>medical, & control<br>instruments mfg              | _      | 91            | 30  | i                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 142 045   |
| 33451                   | Navigational, measuring,<br>medical, & control<br>instruments mfg              | _      | 91            | 30  | í                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 142 045   |
| 334510                  | Electromedical &<br>electrotherapeutic<br>apparatus mfg                        | _      | 13            | 8   | h                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 334511                  | Search, detection,<br>navigation, &<br>guidance instrument                     |        |               |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 334519                  | mfg<br>Other measuring &<br>controlling device                                 | -      | 17            | 9   | j                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3346                    | mfg<br>Mfg & reproducing   | -      | 18            | 4   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 33461                   | magnetic & optical media .<br>Mfg & reproducing<br>magnetic & optical<br>media | 2      | 23<br>23      | 8   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 11 393<br>11 393                                |
| 335                     | Electrical equipment,<br>appliance, & component                                |        | 23            | 0   |                     |                      |             |                  |                    |  |                                   |                                    | 11 333  |
| 3352                    | mfg<br>Household appliance mfg   | 2      | 51<br>3       | 14<br>2                                   | g<br>f              | D<br>D               | D<br>D      | D                | D<br>D             | D  | D                                 | D                                  | 7 717<br>D                                      |
| 336                     | Transportation equipment mfg   | 7      | 180           | 66  | k                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3361<br>33612<br>336120 | Motor vehicle mfg<br>Heavy duty truck mfg<br>Heavy duty truck mfg .            | -      | 3<br>1<br>1   | 1<br>1<br>1                               | g<br>g              | D<br>D<br>D          | D<br>D<br>D | D<br>D<br>D      | D<br>D<br>D        | D<br>D<br>D                                | D<br>D<br>D                       | D<br>D<br>D                        | D<br>D<br>D                                     |
| 3363<br>33639           | Motor vehicle parts mfg<br>Other motor vehicle parts                           | 2      | 41            | 12  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3364                    | mfg<br>Aerospace product & parts   | -      | 8             | 2   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 33641                   | mfg<br>Aerospace product &<br>parts mfg  | 8<br>8 | 64<br>64      | 31<br>31                                  | k<br>k              | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 336411<br>336413        | Aircraft mfg<br>Other aircraft part &<br>auxiliary equipment                   | 9      | 3             | 2   | j                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 336415                  | mfg<br>Guided missile &<br>space vehicle                                       | -      | 57            | 27  | j                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3366                    | propulsion unit & parts mfg  | -      | 1<br>51       | 1<br>17                                   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 33661<br>336611         | Ship & boat building<br>Ship & boat building<br>Ship building &<br>repairing   |        | 51<br>51      | 17<br>17<br>13                            | g<br>g<br>g         | D<br>D<br>D          | D           | D<br>D           | D                  |  | ם                                 | D<br>D<br>D                        | D<br>D  |
| 337                     | Furniture & related product  | 2      | 158           | 35  | g<br>h              | D                    | D           | D                | D                  | D  | D                                 | D                                  | 7 797   |
| 3371                    | Household & institutional<br>furniture & kitchen cabinet                       |        |               |   |                     | _                    | _           | _                | _                  |  |                                   | _                                  | _   |
| 33711                   | Mood kitchen cabinet & counter top mfg   | 3<br>2 | 102<br>54     | 16<br>10                                  | g<br>f              | D                    | D           | D                | D                  | D  | D                                 | D                                  | D<br>1 317                                      |
| 337110                  | Wood kitchen cabinet<br>& counter top mfg                                      | 2      | 54            | 10  | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 1 317   |
| 3372                    | Office furniture (including fixtures) mfg                                      | 1      | 47            | 16  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 4 189   |
| 33721<br>337211         | Office furniture (including fixtures) mfg<br>Wood office furniture             | 1      | 47            | 16  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 4 189   |
| 339                     | mfg<br>Miscellaneous mfg   | - 2    | 17<br>361     | 7<br>53                                   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D<br>33 147                                     |
| 3391                    | Medical equipment &  |        |               |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 33911                   | Supplies mfg<br>Medical equipment &  | 3      | 149<br>149    | 20<br>20                                  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 12 184<br>12 184                                |
| 339112                  | supplies mfg<br>Surgical & medical<br>instrument mfg                           | 2      | 20            | 6   | g<br>f              | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 339116                  | Dental laboratories  | 4      | 99            | 8   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3399<br>33992           | Other miscellaneous mfg<br>Sporting & athletic goods<br>mfg                    | 2      | 212<br>41     | 33<br>14                                  | h<br>g              | D                    | D           | D                | D                  | D  | D                                 | D                                  | 20 963<br>D                                     |
| 339920                  | Sporting & athletic<br>goods mfg   |        | 41            | 14  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 33995<br>339950         | Sign mfg<br>Sign mfg   | 3<br>3 | 70<br>70      | 7<br>7                                    | f                   | D                    | D<br>D      | D                | D<br>D             | DDD  | D                                 | D                                  | D<br>D  |

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| and syr       | nbois, see introductory text]                                 | 1  |               |                        |                     |                  |                |                |                  |                            |                      |                       |                                    |
|---------------|---|----|---------------|------------------------|---------------------|------------------|----------------|----------------|------------------|----------------------------|----------------------|-----------------------|------------------------------------|
|               |   |    | A<br>establis | All<br>shments         | All emp             | ployees          | Pr             | oduction work  | ers              |                            |                      |                       |                                    |
| NAICS<br>code | Geographic area and industry                                  |    |               | With 20                |                     |                  |                |                |                  |                            |                      |                       | Total conital                      |
|               |   |    |               | em-<br>ploy-<br>ees or |                     | Payroll          |                | Hours          | Wages            | Value added by manufacture | Cost of<br>materials | Value of<br>shipments | Total capital<br>expendi-<br>tures |
|               |   | E1 | Total         | more                   | Number <sup>2</sup> | (\$1,000)        | Number         | (1,000)        | (\$1,000)        | (\$1,000)                  | (\$1,000)            | (\$1,000)             | (\$1,000)                          |
|               | KITSAP COUNTY, WA   |    |               |                        |                     |                  |                |                |                  |                            |                      |                       |                                    |
|               |   |    |               |                        |                     |                  | 1 010          | 4 000          |                  | ~ ~ ~ ~                    |                      |                       |                                    |
| 31-33         | Manufacturing   | 2  | 143           | 16                     | 1 441               | 36 809           | 1 016          | 1 680          | 20 851           | 81 349                     | 59 960               | 142 740               | 3 842                              |
|               | KITTITAS COUNTY, WA   |    |               |                        |                     |                  |                |                |                  |                            |                      |                       |                                    |
|               | KITITAS COUNTI, WA  |    |               |                        |                     |                  |                |                |                  |                            |                      |                       |                                    |
| 31-33         | Manufacturing   | _  | 32            | 5                      | 662                 | 15 573           | 577            | 1 048          | 12 004           | 59 721                     | 44 097               | 102 356               | 1 641                              |
|               |   |    |               |                        |                     |                  |                |                |                  |                            |                      |                       |                                    |
|               | KLICKITAT COUNTY,   |    |               |                        |                     |                  |                |                |                  |                            |                      |                       |                                    |
|               | WA  |    |               |                        |                     |                  |                |                |                  |                            |                      |                       |                                    |
| 31-33         | Manufacturing   | _  | 25            | 4                      | g                   | D                | D              | D              | D                | D                          | D                    | D                     | 7 251                              |
| 331           | Primary metal mfg   | _  | 2             | 2                      | f                   | D                | D              | D              | D                | D                          | D                    | D                     | D                                  |
| 3313          | Alumina & aluminum  |    |               |                        |                     |                  |                |                |                  |                            |                      |                       |                                    |
| 33131         | production & processing<br>Alumina & aluminum<br>production & | -  | 1             | 1                      | f                   | D                | D              | D              | D                | D                          | D                    | D                     | D                                  |
| 331312        | processing<br>Primary aluminum                                | -  | 1             | 1                      | f                   | D                | D              | D              | D                | D                          | D                    | D                     | D                                  |
|               | production  | -  | 1             | 1                      | f                   | D                | D              | D              | D                | D                          | D                    | D                     | D                                  |
|               | LEWIS COUNTY, WA  |    |               |                        |                     |                  |                |                |                  |                            |                      |                       |                                    |
| 31-33         | Manufacturing   | 3  | 115           | 41                     | 3 630               | 97 136           | 3 036          | 6 096          | 74 978           | 262 151                    | 387 348              | 648 046               | 24 124                             |
| 321           | Wood product mfg  | 3  | 28            | 19                     | 2 005               | 59 533           | 1 717          | 3 736          | 48 736           | 150 289                    | 241 873              | 389 060               | 17 741                             |
| 3211          | Sawmills & wood   |    | 10            | -                      | 4 074               | 44 . 0.40        | 4 405          | 0.500          | 05.040           | 110,000                    | 400,407              | 000.050               | 45,000                             |
| 32111         | preservation<br>Sawmills & wood<br>preservation               | 4  | 12<br>12      | 7                      | 1 271<br>1 271      | 41 943<br>41 943 | 1 125<br>1 125 | 2 590<br>2 590 | 35 346<br>35 346 | 113 980<br>113 980         | 182 107<br>182 107   | 293 852<br>293 852    | 15 089<br>15 089                   |
| 321113        | Sawmills  | 4  | 12<br>12      | 7                      | 1 271               | 41 943           | 1 125<br>1 125 | 2 590<br>2 590 | 35 346<br>35 346 | 113 980                    | 182 107              | 293 852               | 15 089<br>15 089                   |
| 3219          | Other wood product mfg  | -  | 12            | 8                      | 536                 | 13 354           | 453            | 895            | 10 376           | 24 853                     | 44 347               | 68 493                | 2 285                              |
|               | MASON COUNTY, WA  |    |               |                        |                     |                  |                |                |                  |                            |                      |                       |                                    |
| 31-33         | Manufacturing   | _  | 52            | 11                     | 1 664               | 51 707           | 1 452          | 2 873          | 39 681           | 128 006                    | 219 924              | 343 911               | 15 541                             |
| 321           | Wood product mfg  | _  | 14            | 6                      | g                   | D                | D              | D              | D                | D                          | D                    | D                     | D                                  |
| 3211          | Sawmills & wood   |    |               |                        | -                   |                  |                |                |                  |                            |                      |                       |                                    |
| 32111         | preservation<br>Sawmills & wood                               | -  | 6             | 4                      | 557                 | 20 145           | 507            | 1 061          | 15 172           |                            | 135 718              | 197 458               | 12 003                             |
| 321113        | preservation<br>Sawmills                                      | _  | 6<br>6        | 4<br>4                 | 557<br>557          | 20 145<br>20 145 | 507<br>507     | 1 061<br>1 061 | 15 172<br>15 172 | 65 456<br>65 456           | 135 718<br>135 718   | 197 458<br>197 458    | 12 003<br>12 003                   |
|               | OKANOGAN COUNTY,<br>WA  |    |               |                        |                     |                  |                |                |                  |                            |                      |                       |                                    |
| 31-33         | Manufacturing   | _  | 28            | 4                      | 794                 | 20 903           | 697            | 1 433          | 17 351           | 36 029                     | 84 617               | 123 566               | 2 840                              |
| 321           | Wood product mfg  | _  | 8             | 4                      | 714                 | 19 198           | 633            | 1 347          | 16 089           | 31 390                     | 80 245               | 114 541               | 2 469                              |
|               |   |    | 5             |                        |                     |                  |                |                |                  |                            | 00 210               |                       | 2 .00                              |
|               | PACIFIC COUNTY, WA  |    |               |                        |                     |                  |                |                |                  |                            |                      |                       |                                    |
| 31-33         | Manufacturing   | _  | 36            | 10                     | 848                 | 18 986           | 756            | 1 256          | 16 082           | 46 417                     | 69 124               | 112 757               | 9 886                              |
|               |   |    |               |                        | 0.0                 |                  |                | - 200          |                  |                            |                      |                       |                                    |

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| and syr         | ndois, see introductory textj                            |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
|-----------------|--|--------|---------------|---|---------------------|----------------------|----------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                 |  |        | A<br>establis | All<br>shments                            | All emp             | oloyees              | Pr             | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code   | Geographic area and industry                             | E1     | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number         | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                 | PIERCE COUNTY, WA  |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing  | 1      | 680           | 208                                       | 22 283              | 705 185              | 16 834         | 34 233           | 479 523            | 1 882 247                                  | 2 409 154                         | 4 275 910                          | 194 835   |
| 311             | Food mfg   | 1      | 52            | 19  | 2 002               | 54 761               | 1 493          | 3 254            | 38 574             | 296 706                                    | 385 234                           | 683 756                            | 16 478  |
| 315             | Apparel mfg  | _      | 17            | 9   | 830                 | 21 575               | 766            | 1 560            | 16 887             | 43 168                                     | 76 684                            | 116 940                            | D   |
| 3152            | Cut & sew apparel mfg                                    | -      | 14            | 7   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 321             | Wood product mfg   | -      | 73            | 31  | 3 248               | 89 647               | 2 649          | 5 476            | 66 395             | 174 175                                    | 412 161                           | 592 002                            | 13 178  |
| 3211            | Sawmills & wood<br>preservation                          | _      | 15            | 12  | 1 435               | 44 649               | 1 127          | 2 403            | 31 672             | 101 989                                    | 269 214                           | 373 421                            | 6 670   |
| 32111           | Sawmills & wood<br>preservation                          | _      | 15            | 12  | 1 435               | 44 649               | 1 127          | 2 403            | 31 672             | 101 989                                    | 269 214                           | 373 421                            | 6 670   |
| 321113          | Sawmills   | -      | 12            | 9   | 1 168               | 36 758               | 882            | 1 910            | 24 933             | 65 697                                     | 201 545                           | 267 906                            | 6 428   |
| 3212            | Veneer, plywood, &<br>engineered wood product            |        |               |   | 700                 | 40.075               | 500            | 1 001            | 45 040             | 04.005                                     | 70 770                            | 404 000                            | 0.007   |
| 32121           | mfg<br>Veneer, plywood, &                                | -      | 11            | 8   | 709                 | 19 975               | 562            | 1 231            | 15 348             | 24 225                                     | 73 772                            | 101 830                            | 3 987   |
|                 | engineered wood<br>product mfg                           | -      | 11            | 8   | 709                 | 19 975               | 562            | 1 231            | 15 348             | 24 225                                     | 73 772                            | 101 830                            | 3 987   |
| 3219<br>32191   | Other wood product mfg<br>Millwork                       | 1      | 47<br>26      | 11<br>8                                   | 1 104<br>769        | 25 023<br>18 379     | 960<br>674     | 1 842<br>1 325   | 19 375<br>14 910   | 47 961<br>33 680                           | 69 175<br>50 312                  | 116 751<br>83 977                  | 2 521<br>1 794                                  |
| 321911          | Wood window & door<br>mfg                                | _      | 12            | 4   | 523                 | 11 972               | 467            | 920              | 10 004             | 21 742                                     | 28 369                            | 49 780                             | 927   |
| 322             | Paper mfg  | _      | 17            | 11  | 1 378               | 60 801               | 1 046          | 2 165            | 43 877             | 197 888                                    | 244 424                           | 444 702                            | 31 490  |
| 3221            | Pulp, paper, & paperboard                                |        |               |   | 010                 | 46 494               | 700            | 1 410            | 00,000             | 150.054                                    | 104 000                           | 045 100                            | 00 500  |
| 32213<br>322130 | Paperboard mills   | -      | 4<br>3<br>3   | 4<br>3<br>3                               | 918<br>f            | 46 494<br>D<br>D     | 706<br>D<br>D  | 1 418<br>D<br>D  | 33 839<br>D<br>D   | 158 354<br>D<br>D                          | 184 803<br>D<br>D                 | 345 162<br>D<br>D                  | 22 588<br>D<br>D                                |
| 322130          | Paperboard mills<br>Printing & related support           | -      | 3             | 3   | 1                   | U                    | D              | D                | D                  | U  | U                                 | U                                  |   |
|                 | activities   | 1      | 65            | 12  | 1 431               | 40 575               | 824            | 1 247            | 18 198             | 67 287                                     | 52 009                            | 121 432                            | 4 885   |
| 3231            | Printing & related support<br>activities                 | 1      | 65            | 12  | 1 431               | 40 575               | 824            | 1 247            | 18 198             | 67 287                                     | 52 009                            | 121 432                            | 4 885   |
| 32311<br>323117 | Printing<br>Book printing                                | 1      | 60<br>1       | 12<br>1                                   | 1 410<br>f          | 39 942<br>D          | 805<br>D       | 1 214<br>D       | 17 716<br>D        | 65 607<br>D                                | 51 688<br>D                       | 119 400<br>D                       | 4 628<br>D                                      |
| 325             | Chemical mfg   | -      | 16            | 7   | 549                 | 22 087               | 302            | 606              | 11 562             | 89 568                                     | 90 920                            | 180 748                            | 6 395   |
| 326             | Plastics & rubber products                               |        |               |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 3261            | mfg  | 3<br>3 | 37<br>34      | 15<br>15                                  | 1 563<br>1 523      | 43 201<br>41 845     | 1 283<br>1 251 | 2 652<br>2 585   | 31 930<br>30 888   | 109 511<br>106 970                         | 129 872<br>128 240                | 238 453<br>234 212                 | 26 858<br>D                                     |
| 32619           | Plastics product mfg<br>Other plastics product           | 4      | 24            | 9   | 1 094               | 28 102               | 911            | 1 726            | 20 619             | 63 174                                     | 57 622                            | 119 594                            | 10 577  |
| 326199          | Mfg<br>All other plastics<br>product mfg                 | 4      | 24            | 9   | 1 068               | 27 451               | 894            | 1 685            | 20 019             | 62 478                                     | 56 390                            | 117 685                            | 10 551  |
| 327             | Nonmetallic mineral product                              | 4      |               | 5   | 1 000               | 27 431               | 094            | 1 005            | 20 199             |  | 50 390                            | 117 005                            | 10 331  |
| 0070            | mfg  | -      | 40            | 21  | 1 474               | 48 590               | 1 171          | 2 455            | 33 783             | 138 047                                    | 104 470                           | 241 542                            | 9 839   |
| 3273            | Cement & concrete product<br>mfg                         | 1      | 19            | 11  | 723                 | 26 328               | 581            | 1 281            | 18 355             | 65 795                                     | 42 541                            | 107 572                            | 5 743   |
| 331             | Primary metal mfg  | -      | 7             | 3   | 968                 | 34 510               | 866            | 1 868            | 27 653             | 92 079                                     | 105 808                           | 196 918                            | D   |
| 3315            | Foundries  | -      | 5             | 2   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 332             | Fabricated metal product mfg                             | 1      | 94            | 21  | 2 108               | 69 896               | 1 645          | 3 251            | 47 173             | 141 377                                    | 135 807                           | 274 698                            | 9 993   |
| 3323            | Architectural & structural                               |        |               | 10  | 4 450               | 00.050               | 004            | 4 014            | 00 500             | 70 704                                     | 404 407                           | 477 450                            | 0.070   |
| 33232           | metals mfg<br>Ornamental &                               | -      | 31            | 12  | 1 156               | 36 352               | 894            | 1 814            | 23 532             | 76 794                                     | 101 487                           | 177 156                            | 3 872   |
| 000001          | architectural metal<br>products mfg                      | -      | 17            | 9   | 1 020               | 31 781               | 799            | 1 641            | 20 975             | 66 954                                     | 89 264                            | 155 198                            | 3 585   |
| 332321          | Metal window & door<br>mfg                               | -      | 4             | 2   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 333             | Machinery mfg  | 1      | 35            | 6   | 819                 | 27 602               | 594            | 1 205            | 17 848             | 66 525                                     | 42 989                            | 107 874                            | 2 732   |
| 334             | Computer & electronic<br>product mfg                     | 3      | 22            | 4   | 609                 | 26 692               | 293            | 607              | 12 252             | 31 399                                     | 30 698                            | 68 605                             | D   |
| 336             | Transportation equipment mfg                             | _      | 39            | 15  | g                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 5 328   |
| 3364            | Aerospace product & parts mfg                            | _      | 14            | 4   | 1 582               | 53 089               | 1 221          | 2 637            | 43 762             | 176 771                                    | 64 066                            | 214 320                            | 1 756   |
| 33641           | Aerospace product & parts mfg                            | _      | 14            | 4   | 1 582               | 53 089               | 1 221          | 2 637            | 43 762             | 176 771                                    | 64 066                            | 214 320                            | 1 756   |
| 336413          | Other aircraft part & auxiliary equipment                |        |               |   |                     | 000                  | (              | _ 007            |                    |  | 2. 000                            |                                    |   |
|                 | mfg  | -      | 10            | 4   | g                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 3366<br>33661   | Ship & boat building<br>Ship & boat building             | 2<br>2 | 13<br>13      | 7<br>7                                    | f<br>f              | D<br>D               | D<br>D         | D<br>D           | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | 664<br>664                                      |
| 337             | Furniture & related product                              |        | <b>-</b> -    | 10  |                     | 40.040               |                | 0.044            | 00.007             | 77 670                                     | 00 701                            | 111.000                            | 0.454   |
| 2271            | mfg  | 1      | 54            | 19  | 1 414               | 40 818               | 1 104          | 2 241            | 26 865             | 77 579                                     | 63 791                            | 144 882                            | 2 454   |
| 3371            | Household & institutional<br>furniture & kitchen cabinet | 2      | 35            | 9   | 801                 | 19 256               | 646            | 1 320            | 13 408             | 38 942                                     | 25 165                            | 63 755                             | D   |
| 339             | mfg<br>Miscellaneous mfg                                 |        | 35<br>78      | 9   |                     | 19 256<br>14 558     | 646<br>402     |                  | 8 432              |  | 25 165<br>17 366                  | 63 755<br>50 880                   |   |
| 000             | mooelianeous mig   |        | 10            | . 0                                       |                     | 14 0001              | 402            | 121              | 0 432              | . 33 3391                                  | 17 300                            | 50 660                             | 1 525   |

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| and syr                 | nbols, see introductory text]  |             |                 |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
|-------------------------|--|-------------|-----------------|---|---------------------|----------------------|-------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                         |  |             | A<br>establis   | All<br>shments                            | All emp             | oloyees              | Pr          | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code           | Geographic area and industry   | E1          | Total           | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number      | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                         | SKAGIT COUNTY, WA  |             |                 |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing  | _           | 185             | 55  | 5 026               | 148 893              | 3 737       | 6 513            | 92 139             | 691 534                                    | 2 234 017                         | 2 917 703                          | 54 569  |
| 311                     | Food mfg   | _           | 26              | 13  | 1 428               | 30 263               | 1 116       | 1 488            | 17 406             | 70 844                                     | 108 593                           | 179 439                            | 3 896   |
| 3117<br>31171           | Seafood product<br>preparation & packaging<br>Seafood product          | 1           | 11              | 9   | 759                 | 15 840               | 602         | 808              | 10 216             | 39 291                                     | 57 600                            | 96 936                             | 1 273   |
| 311712                  | preparation &<br>packaging<br>Fresh & frozen                           | 1           | 11              | 9   | 759                 | 15 840               | 602         | 808              | 10 216             | 39 291                                     | 57 600                            | 96 936                             | 1 273   |
| 324                     | seafood processing<br>Petroleum & coal products                        | -           | 7               | 6   | 600                 | 13 257               | 473         | 681              | 8 379              | 35 140                                     | 51 454                            | 86 641                             | D   |
| 3241                    | Petroleum & coal products  | -           | 4               | 4   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 32411<br>324110         | Petroleum refineries<br>Petroleum refineries                           |             | 4<br>3<br>3     | 4<br>3<br>3                               | f<br>f<br>f         | D<br>D<br>D          | D<br>D<br>D |                  | D<br>D<br>D        | D<br>D<br>D                                |                                   | D<br>D<br>D                        | D<br>D<br>D                                     |
|                         | SNOHOMISH COUNTY,<br>WA  |             |                 |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing  | -           | 837             | 234                                       | 58 170              | 2 918 132            | 33 010      | 75 825           | 1 534 567          | 7 380 352                                  | 13 013 992                        | 19 903 195                         | 291 441   |
| 311                     | Food mfg   | 3           | 42              | 15  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 321                     | Wood product mfg   | 1           | 66              | 24  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 21 390  |
| 3211<br>32111           | Sawmills & wood<br>preservation<br>Sawmills & wood                     | 2           | 22              | 9   | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 321113                  | preservation   | 2<br>2      | 22<br>21        | 9<br>8                                    | g<br>g              | D<br>D               | D<br>D      | D                | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | D<br>D  |
| 3219<br>32191           | Other wood product mfg<br>Millwork                                     | -           | 39<br>24        | 12<br>10                                  | f<br>f              | D<br>D               | D<br>D      | D                | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | 8 338<br>D                                      |
| 322                     | Paper mfg  | -           | 6               | 3   | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3221<br>32212           | Pulp, paper, & paperboard<br>mills<br>Paper mills                      | -           | 1<br>1          | 1<br>1                                    | g<br>g              | D<br>D               | D<br>D      | D                | D<br>D             | D  | D                                 | D<br>D                             | D<br>D  |
| 322121<br>323           | Paper (except<br>newsprint) mills<br>Printing & related support        | -           | 1               | 1   | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 323                     | activities   | 5           | 63              | 8   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3231<br>32311<br>323110 | Printing & related support<br>activities<br>Printing<br>Commercial     | 5<br>5      | 63<br>61        | 8<br>8                                    | f<br>f              | D<br>D               | D<br>D      | D<br>D           | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | D<br>D  |
|                         | lithographic printing  | 6           | 31              | 5   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 326                     | Plastics & rubber products<br>mfg                                      | -           | 20              | 10<br>9                                   | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3261<br>32619           | Plastics product mfg<br>Other plastics product<br>mfg                  | _           | 18<br>16        | 9<br>7                                    | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 326199                  | All other plastics<br>product mfg                                      | -           | 16              | 7   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 327                     | Nonmetallic mineral product mfg  | -           | 29              | 11  | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 8 078   |
| 332                     | Fabricated metal product mfg   | 1           | 210             | 51  | h                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3323<br>33232           | Architectural & structural<br>metals mfg<br>Ornamental &               | 1           | 58              | 18  | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 3 343   |
| 332322                  | architectural metal<br>products mfg<br>Sheet metal work mfg.           | 1           | 44<br>28        | 15<br>10                                  | 1 005<br>698        | 28 799<br>18 890     | 763<br>548  | 1 455<br>1 011   | 18 491<br>12 277   | 60 301<br>41 252                           | 53 170<br>35 224                  | 113 411<br>76 426                  | 2 894<br>2 321                                  |
| 3327                    | Machine shops, turned  |             | 20              | 10  | 050                 | 10 090               | 540         |                  | 12 211             | 71 232                                     | 00 224                            | 70 420                             | 2 321   |
| 33271<br>332710         | product, & screw, nut, &<br>bolt mfg<br>Machine shops<br>Machine shops | 1<br>1<br>1 | 110<br>98<br>98 | 21<br>18<br>18                            | g<br>g              | D<br>D<br>D          | D<br>D<br>D | D<br>D<br>D      | D<br>D<br>D        | D<br>D<br>D                                | D<br>D<br>D                       | ם<br>ם<br>ס                        | D<br>D<br>D                                     |
| 3329<br>33299           | Other fabricated metal<br>product mfg<br>All other fabricated metal    | -           | 14              | 4   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 333                     | Machinery mfg  | -           | 14<br>45        | 4<br>13                                   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 000                     |  |             | 40              | 13  | y y                 |                      | D           | . 0              | D                  | . Di                                       | DI                                | D                                  | U U   |

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

|                         |   |    | A<br>establis  | All<br>shments                            | All emp             | bloyees              | Pr          | oduction work    | ers                |  |                                   |                                    |   |
|-------------------------|---|----|----------------|---|---------------------|----------------------|-------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code           | Geographic area and industry                                  | E1 | Total          | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number      | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                         | SNOHOMISH COUNTY,<br>WA-Con.                                  |    |                |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing-<br>Con.  |    |                |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 334                     | Computer & electronic<br>product mfg                          | 1  | 59             | 24  | i                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3341                    | Computer & peripheral equipment mfg                           | _  | 6              | 1   | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 33411                   | Computer & peripheral equipment mfg                           | -  | 6              | 1   | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 334119                  | Other computer<br>peripheral equipment<br>mfg                 | _  | 6              | 1   | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3344                    | Semiconductor & other   |    | -              |   | 5                   | _                    | _           | _                | _                  | _  |                                   |                                    | _   |
| 33441                   | electronic component<br>mfg<br>Semiconductor & other          | 7  | 20             | 7   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
|                         | electronic component mfg                                      | 7  | 20             | 7   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3345                    | Navigational, measuring,<br>medical, & control                |    |                |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 33451                   | instruments mfg<br>Navigational, measuring,                   | -  | 18             | 8   | h                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 31 706  |
| 334510                  | medical, & control<br>instruments mfg<br>Electromedical &     | -  | 18             | 8   | h                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 31 706  |
|                         | electrotherapeutic apparatus mfg                              | -  | 2              | 2   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 334515                  | Electricity measuring & testing instrument mfg                |    | 6              | 4   |                     | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 335                     | Electrical equipment,   | -  | 0              | 4   | g                   | J                    | D           |                  | D                  | D  | D                                 | U                                  |   |
|                         | appliance, & component<br>mfg                                 | 1  | 22             | 10  | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 336                     | Transportation equipment mfg                                  | _  | 62             | 21  | k                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3364                    | Aerospace product & parts mfg                                 | _  | 31             | 13  | k                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 33641                   | Aerospace product &<br>parts mfg                              | -  | 31             | 13  | k                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 336411<br>336413        | Aircraft mfg<br>Other aircraft part &<br>auxiliary equipment  | -  | 2              | 2   | k                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 0000                    | mfg   | -  | 25             | 9   | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3366<br>33661<br>336612 | Ship & boat building<br>Ship & boat building<br>Boat building | 1  | 14<br>14<br>10 | 4<br>4<br>3                               | g<br>g              | D<br>D<br>D          | D<br>D<br>D | D<br>D<br>D      | ם<br>ם<br>ס        | D<br>D<br>D                                | D<br>D<br>D                       | D<br>D<br>D                        |   |
| 337                     | Furniture & related product                                   | 1  | 64             | 16  | -                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 3 447   |
| 3371                    | mfg<br>Household & institutional                              |    | 04             | 10  | g                   | J                    | D           |                  | D                  | D  | D                                 | U                                  | 3 447   |
| 33711                   | furniture & kitchen cabinet<br>mfg<br>Wood kitchen cabinet &  | -  | 50             | 9   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | 2 321   |
| 337110                  | counter top mfg<br>Wood kitchen cabinet                       | 1  | 35             | 4   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 339                     | & counter top mfg<br>Miscellaneous mfg                        | 1  | 35<br>77       | 4<br>12                                   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D<br>2 590                                      |
|                         | SPOKANE COUNTY,   |    |                |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing   | _  | 572            | 176                                       | 20 892              | 681 396              | 14 631      | 28 708           | 406 848            | 1 811 208                                  | 2 181 124                         | 3 994 582                          | 155 683   |
| 311                     | Food mfg  | 1  | 48             | 20  | 1 585               | 46 714               | 829         | 1 484            | 20 844             | 136 006                                    | 178 897                           | 314 480                            | 12 137  |
| 3118<br>31181           | Bakeries & tortilla mfg<br>Bread & bakery product             | -  | 18             | 9   | 784                 | 27 148               | 405         | 731              | 10 668             | 65 791                                     | 47 395                            | 112 772                            | 1 984   |
| 311812                  | mfg<br>Commercial bakeries .                                  | -  | 14<br>9        | 6<br>5                                    | 685<br>636          | 24 587<br>23 728     | 339<br>300  | 593<br>517       | 8 947<br>8 395     | 59 185<br>57 162                           | 30 088<br>27 054                  | 89 010<br>84 208                   | 1 607<br>1 579                                  |
| 321                     | Wood product mfg  | 1  | 27             | 8   | 840                 | 16 837               | 726         | 1 362            | 14 331             | 44 007                                     | 86 060                            | 129 444                            | D   |
| 3219<br>323             | Other wood product mfg  | -  | 18             | 4   | 610                 | 12 777               | 569         | 1 078            | 11 713             | 35 572                                     | 69 520                            | 104 489                            | D   |
|                         | Printing & related support<br>activities                      | 2  | 75             | 10  | 756                 | 18 174               | 515         | 836              | 10 718             | 42 069                                     | 19 127                            | 61 130                             | 3 534   |
| 3231<br>32311           | Printing & related support<br>activities                      | 2  | 75<br>65       | 10<br>10                                  | 756<br>719          | 18 174<br>17 374     | 515<br>484  | 836<br>788       | 10 718<br>10 108   | 42 069<br>40 390                           | 19 127                            | 61 130<br>59 071                   | 3 534<br>3 446                                  |
| 32311                   | Printing<br>Chemical mfg                                      | 2  | 16             | 9   | 618                 | 21 414               | 484<br>330  | 1 099            | 10 108             | 40 390<br>52 437                           | 18 745<br>74 602                  | 131 345                            | 3 446<br>4 333                                  |
| 326                     | Plastics & rubber products                                    |    |                |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 3261                    | mfg<br>Plastics product mfg                                   | -  | 19<br>15       | 9<br>9                                    | 928<br>889          | 22 513<br>21 686     | 706<br>672  | 1 450<br>1 388   | 14 258<br>13 567   | 51 807<br>49 365                           | 37 806<br>35 629                  | 89 372<br>84 631                   | 2 791<br>2 671                                  |
| 32619                   | Other plastics product<br>mfg                                 | _  | 12             | 8   | 824                 | 20 015               | 620         | 1 287            | 12 329             | 45 303                                     | 32 696                            | 78 063                             | 2 0/1<br>D                                      |
| 326199                  | All other plastics<br>product mfg                             | -  | 10             | 8   |                     | D                    | D           | D                |                    |  | D                                 | D                                  | 2 458   |

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|                  |   |    | establis | All                            | All emp             | oloyees              | Pr         | oduction work    | ers                |  |                                   |                                    |   |
|------------------|---|----|----------|--------------------------------|---------------------|----------------------|------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS            | Geographic area and industry  |    | ootabiii | With 20                        |                     |                      |            |                  |                    |  |                                   |                                    |   |
| code             |   | E1 | Total    | em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number     | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                  | SPOKANE COUNTY,<br>WA-Con.  |    |          |                                |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 31-33            | Manufacturing—<br>Con.  |    |          |                                |                     |                      |            |                  |                    |  |                                   |                                    |   |
| 327              | Nonmetallic mineral product mfg   | 1  | 22       | 11                             | 711                 | 21 876               | 529        | 1 110            | 13 785             | 63 376                                     | 51 779                            | 114 302                            | 5 164   |
| 331              | Primary metal mfg   | -  | 12       | 10                             | 3 948               | 173 930              | 3 155      | 6 708            | 121 818            | 610 865                                    | 895 159                           | 1 516 154                          | 68 854  |
| 3313<br>33131    | Alumina & aluminum<br>production & processing<br>Alumina & aluminum                         | -  | 2        | 2                              | h                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 331312           | production &<br>processing<br>Primary aluminum  | -  | 2        | 2                              | h                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 331315           | Aluminum sheet, plate,  | -  | 1        | 1                              | g                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 3314             | & foil mfg<br>Nonferrous metal (except  | -  | I        |                                | g                   | U                    | D          | D                | U                  | U  | U                                 | U                                  | D   |
| 33149            | aluminum) production &<br>processing<br>Other nonferrous metal<br>rolling, drawing          | -  | 2        | 1                              | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 331491           | rolling, drawing,<br>extruding, & alloying<br>Other nonferrous metal<br>rolling, drawing, & | -  | 2        | 1                              | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 3315             | extruding   | -  | 1        | 1                              | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 33152            | Nonferrous metal<br>foundries   | _  | 3        | 2                              | ,<br>t              | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 331524           | Aluminum foundries<br>(except die-casting)  | -  | 3        | 2                              | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 332              | Fabricated metal product mfg  | 1  | 111      | 29                             | 1 839               | 52 876               | 1 403      | 2 540            | 33 551             | 112 299                                    | 101 364                           | 212 779                            | 8 473   |
| 3323<br>33232    | Architectural & structural<br>metals mfg<br>Ornamental &                                    | 1  | 43       | 16                             | 1 077               | 31 045               | 790        | 1 445            | 18 375             | 69 157                                     | 79 240                            | 147 997                            | 3 817   |
| 332322           | architectural metal<br>products mfg<br>Sheet metal work mfg.                                | 1  | 25<br>17 | 10<br>9                        | 689                 | 18 625<br>16 709     | 524<br>474 | 956<br>859       | 11 690<br>10 555   | 45 818<br>41 938                           | 57 120<br>53 060                  | 102 635<br>94 671                  | 2 960<br>2 830                                  |
| 333              | Machinery mfg   | 1  | 41       | 9                              | 616<br>1 287        | 42 893               | 474<br>897 | 1 646            | 25 244             | 79 695                                     | 53 060                            | 132 825                            | 2 830<br>2 958                                  |
| 3339             | Other general-purpose machinery mfg   | _  | 11       | 3                              | 644                 | 23 534               | 443        | 794              | 13 320             | 39 561                                     | 24 482                            | 64 900                             | 995   |
| 334              | Computer & electronic product mfg   | _  | 27       | 14                             | 3 632               | 128 442              | 1 997      | 3 692            | 57 161             | 360 522                                    | 380 315                           | 728 524                            | D   |
| 3341             | Computer & peripheral equipment mfg   | 1  | 8        | 4                              | 1 753               | 55 828               | 852        | 1 740            | 23 656             | 130 315                                    | 180 764                           | 307 885                            | D   |
| 33411            | Computer & peripheral equipment mfg   | 1  | 8        | 4                              | 1 753               | 55 828               | 852        | 1 740            | 23 656             | 130 315                                    | 180 764                           | 307 885                            | D   |
| 334111<br>334119 | Electronic computer<br>mfg<br>Other computer  | -  | 2        | 1                              | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
|                  | peripheral equipment mfg  | 2  | 6        | 3                              | g                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 3342<br>33421    | Communications<br>equipment mfg   | -  | 6        | 3                              | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 334210           | Telephone apparatus<br>mfg<br>Telephone apparatus   | -  | 1        | 1                              | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 3345             | mfg<br>Navigational, measuring,   | -  | 1        | 1                              | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 33451            | instruments mfg<br>Navigational, measuring,   | -  | 10       | 4                              | g                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 334515           | medical, & control<br>instruments mfg<br>Electricity measuring &                            | -  | 10       | 4                              | g                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
|                  | testing instrument mfg  | -  | 3        | 1                              | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
| 335              | Electrical equipment,<br>appliance, & component<br>mfg                                      | 2  | 8        | 4                              | 722                 | 21 145               | 511        | 1 044            | 12 413             | 43 455                                     | 39 936                            | 83 275                             | D   |
| 3351             | Electric lighting equipment   | _  | 1        | 1                              | f                   | D                    | П          | D                | D                  | D  | D                                 | D                                  | D   |
| 33512<br>335122  | Lighting fixture mfg<br>Commercial/industrial/<br>institutional electric                    | -  | 1        | 1                              | f                   | D                    | D<br>D     | D                | D                  | D  | D                                 | D                                  | D   |
| 336              | lighting fixture mfg<br>Transportation equipment  | -  | 1        | 1                              | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |
|                  | mfg   | 2  | 40       | 15                             | g                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | 4 549   |
| 3363<br>3364     | Motor vehicle parts mfg<br>Aerospace product & parts  | 6  | 17       | 9                              | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | 2 792   |
| 33641            | mfg Aerospace product &   | 1  | 7        | 2                              | 617                 | 27 124               | 478        | 885              | 19 557             | 25 566                                     | 26 966                            | 52 277                             | 560   |
| 336413           | parts mfg<br>Other aircraft part &<br>auxiliary equipment                                   | 1  | 7        | 2                              | 617                 | 27 124               | 478        | 885              | 19 557             | 25 566                                     | 26 966                            | 52 277                             | 560   |
|                  | mfg   | 1  | 6        | 2                              | f                   | D                    | D          | D                | D                  | D  | D                                 | D                                  | D   |

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

| and syr         | ndois, see introductory text]                                   |                |             | All .                                     | All emp             | lovees               | Pr          | oduction work    | ers                |  |                                   |                                    |   |
|-----------------|---|----------------|-------------|---|---------------------|----------------------|-------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NALOO           |   |                | establis    | shments                                   | , a chip            | ioyees               |             |                  |                    | -  |                                   |                                    |   |
| NAICS           | Geographic area and industry                                    | E <sup>1</sup> | Total       | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number      | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                 | SPOKANE COUNTY,<br>WA-Con.                                      |                |             |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing—<br>Con.  |                |             |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 337             | Furniture & related product mfg                                 | 1              | 31          | 4   | 620                 | 12 781               | 474         | 881              | 7 909              | 24 053                                     | 21 772                            | 46 003                             | D   |
| 3371            | Household & institutional<br>furniture & kitchen cabinet<br>mfg | 1              | 22          | 3   | 516                 | 10 365               | 415         | 770              | 6 478              | 17 906                                     | 16 710                            | 34 722                             | D   |
| 339             | Miscellaneous mfg   | 3              | 60          | 8   | f                   | D                    | 413<br>D    | D                | 0 4/8<br>D         | D  | D                                 | 04 722<br>D                        | D   |
|                 | STEVENS COUNTY, WA  |                |             |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -              | 40          | 12  | 1 546               | 53 574               | 1 293       | 2 662            | 41 166             | 126 566                                    | 237 176                           | 363 594                            | 10 354  |
| 321             | Wood product mfg  | -              | 13          | 5   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3211            | Sawmills & wood<br>preservation                                 | _              | 11          | 4   | 541                 | 17 628               | 472         | 995              | 14 599             | 45 962                                     | 113 065                           | 158 162                            | D   |
| 32111           | Sawmills & wood<br>preservation                                 | _              | 11          | 4   | 541                 | 17 628               | 472         | 995              | 14 599             | 45 962                                     | 113 065                           | 158 162                            | D   |
| 321113          | Sawmills  | -              | 9           | 4   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
|                 | THURSTON COUNTY,<br>WA  |                |             |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -              | 156         | 37  | 3 218               | 100 654              | 2 503       | 4 590            | 69 868             | 304 361                                    | 465 229                           | 761 028                            | 29 218  |
| 326             | Plastics & rubber products mfg                                  | _              | 8           | 5   | 613                 | 16 943               | 532         | 1 013            | 12 407             | 71 469                                     | 49 506                            | 118 112                            | 17 715  |
| 3261            | Plastics product mfg  | _              | 8           | 5   | 613                 | 16 943               | 532         | 1 013            | 12 407             | 71 469                                     | 49 506                            | 118 112                            | 17 715  |
| 332             | Fabricated metal product mfg                                    | _              | 21          | 8   | 527                 | 20 964               | 432         | 820              | 16 101             | 59 019                                     | 107 071                           | 156 877                            | 1 085   |
|                 | WALLA WALLA<br>COUNTY, WA                                       |                |             |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -              | 66          | 15  | 2 400               | 89 376               | 1 907       | 3 770            | 64 800             | 245 481                                    | 307 974                           | 544 683                            | 21 901  |
| 322             | Paper mfg   | -              | 4           | 2   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3221            | Pulp, paper, & paperboard mills                                 | _              | 1           | 1   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 32212<br>322121 | Paper mills<br>Paper (except                                    | -              | 1           | 1   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 333             | newsprint) mills<br>Machinery mfg                               | -              | 1           | 1   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
|                 | WHATCOM COUNTY,<br>WA   |                |             |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | _              | 314         | 84  | 9 184               | 281 360              | 6 856       | 12 975           | 183 074            | 841 770                                    | 3 090 001                         | 3 946 981                          | 86 393  |
| 311             | Food mfg  | _              | 42          | 19  | 1 372               | 31 740               | 1 107       | 1 877            | 22 200             | 162 162                                    | 292 567                           | 465 837                            | 5 544   |
| 3117            | Seafood product preparation & packaging                         | _              | 15          | 9   | 815                 | 15 744               | 727         | 1 211            | 12 546             | 45 521                                     | 105 226                           | 150 775                            | 2 046   |
| 31171           | Seafood product<br>preparation &<br>packaging                   | _              | 15          | 9   | 815                 | 15 744               | 727         | 1 211            | 12 546             | 45 521                                     | 105 226                           | 150 775                            | 2 046   |
| 311712          | Fresh & frozen<br>seafood processing                            | -              | 14          | 9   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 321             | Wood product mfg  | 1              | 28          | 11  | 1 014               | 25 476               | 861         | 1 654            | 18 980             | 59 082                                     | 132 270                           | 182 993                            | 3 321   |
| 322<br>3221     | Paper mfg<br>Pulp, paper, & paperboard                          | -              | 2           | 2   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 32212           | mills   | -              | 1           | 1   | f                   | D                    | D<br>D      | D<br>D           | D<br>D             | D  | D<br>D                            | D<br>D                             | D   |
| 322121          | Paper (except<br>newsprint) mills                               |                | 1           | 1   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 324             | Petroleum & coal products<br>mfg                                | _              | 3           | 3   | f                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3241            | Petroleum & coal products                                       |                |             |   |                     | _                    | _           | _                | _                  | _  | _                                 | _                                  | _   |
| 32411           | Petroleum refineries  | _              | 3<br>2<br>2 | 3<br>2<br>2                               | f<br>f              | D<br>D<br>D          | D<br>D<br>D | D<br>D<br>D      | D<br>D<br>D        | D<br>D<br>D                                | D<br>D<br>D                       | D<br>D<br>D                        | D<br>D<br>D                                     |
| 324110<br>331   | Petroleum refineries<br>Primary metal mfg                       |                | 2           | 2   | t<br>g              | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 3313            | Alumina & aluminum  |                | -           | '   | y                   |                      | U           |                  |                    |  | U                                 | U                                  |   |
| 33131           | production & processing<br>Alumina & aluminum<br>production &   | -              | 1           | 1   | g                   | D                    | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 331312          | processing<br>Primary aluminum<br>production                    | -              | 1           | 1   | g                   | D<br>D               | D           | D                | D                  | D  | D                                 | D                                  | D   |
| 336             | Transportation equipment  |                | 30          | 8   | g<br>f              | D                    | D           | D                | D                  |  | ם                                 | D                                  |   |
|                 |   |                | 00          | 51  |                     |                      |             | 51               | D                  |  | D                                 | D                                  |   |

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

|               |   |    |         | All<br>shments                            | All emp             | oloyees              | Pi     | oduction work    | ers                |  |                                   |                                    |   |
|---------------|---|----|---------|---|---------------------|----------------------|--------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code | Geographic area and industry                            | E1 | Total   | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|               | WHATCOM COUNTY,<br>WA-Con.                              |    |         |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 31-33         | Manufacturing—<br>Con.                                  |    |         |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 339           | Miscellaneous mfg                                       | 5  | 32      | 7   | 516                 | 12 197               | 383    | 645              | 7 341              | 21 738                                     | 16 483                            | 42 070                             | 738   |
|               | YAKIMA COUNTY, WA                                       |    |         |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 31-33         | Manufacturing   | _  | 239     | 89  | 10 163              | 264 561              | 8 183  | 15 635           | 186 897            | 761 968                                    | 1 332 210                         | 2 090 544                          | 89 956  |
| 311           | Food mfg  | -  | 36      | 22  | 3 281               | 76 005               | 2 911  | 5 425            | 58 753             | 297 921                                    | 678 328                           | 977 631                            | 36 770  |
| 3114          | Fruit & vegetable<br>preserving & specialty<br>food mfg | _  | 22      | 16  | 2 394               | 55 496               | 2 162  | 3 981            | 43 111             | 186 931                                    | 329 377                           | 518 145                            | D   |
| 31142         | Fruit & vegetable<br>canning, pickling, &               |    |         |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 311421        | drying<br>Fruit & vegetable                             | -  | 20      | 14  | g                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 12 584  |
|               | canning   | -  | 17      | 12  | g                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 3116<br>31161 | Meat product mfg<br>Animal slaughtering &               | -  | 3       | 3   | T                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 311611        | processing<br>Animal (except poultry)                   | -  | 3       | 3   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
|               | slaughtering  |    | 3       | 3   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 321           | Wood product mfg  | -  | 25      | 13  | 1 525               | 39 503               | 1 351  | 2 636            | 30 912             | 88 581                                     | 196 592                           | 282 878                            | 11 870  |
| 3219<br>32191 | Other wood product mfg<br>Millwork                      | _  | 16<br>6 | 8<br>4                                    | f                   | D<br>D               | D<br>D | D                | D<br>D             | D  | D<br>D                            | D<br>D                             | D<br>D  |
| 326           | Plastics & rubber products mfg                          | 1  | 15      | 10  | 1 403               | 41 794               | 1 118  | 2 271            | 26 986             | 100 003                                    | 146 788                           | 246 770                            | 16 248  |
| 3261          | Plastics product mfg                                    | 1  | 15      | 10  | 1 403               | 41 794               | 1 118  | 2 271            | 26 986             | 100 003                                    | 146 788                           | 246 770                            | 16 248  |
| 32619         | Other plastics product                                  | 3  | 7       | 5   | 589                 | 17 890               | 445    | 880              | 9 953              | 37 901                                     | 37 384                            | 75 594                             | 3 211   |
| 326199        | All other plastics product mfg                          | 3  | 7       | 5   | 589                 | 17 890               | 445    | 880              | 9 953              | 37 901                                     | 37 384                            | 75 594                             | 3 211   |
| 332           | Fabricated metal product<br>mfg                         | _  | 33      | 9   | 909                 | 26 979               | 605    | 1 102            | 18 619             | 60 187                                     | 51 924                            | 109 747                            | 3 199   |
| 333           | Machinery mfg   | 6  | 33      | 6   | 779                 | 19 645               | 483    | 727              | 10 310             | 44 186                                     | 41 492                            | 87 116                             | 3 949   |
| 336           | Transportation equipment mfg                            | _  | 6       | 3   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 801   |
| 339           | Miscellaneous mfg                                       | 1  | 27      | 6   | 516                 | 10 363               | 341    | 608              | 6 377              | 27 942                                     | 17 951                            | 46 211                             | 2 376   |

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more of the figures shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 500 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: c–100 to 24 employees; c–250 to 499 employees; t–500 to 999 employees; g–1,000 to 2,499 employees; k–25,000 to 49,999 employees; I–50,000 to 9,999 employees; m–100,000 employees or more.

## Table 4. Industry Statistics for Places: 1997

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

|                         |   |    |             | All<br>shments                            | All em              | ployees              | Pr          | oduction work    | ers                |  |                                   |                                    |   |
|-------------------------|---|----|-------------|---|---------------------|----------------------|-------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code           | Geographic area and industry                                  | E1 | Total       | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number      | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                         | ANACORTES, WA   |    |             |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing   | -  | 37          | 16  | 1 374               | 48 842               | 933         | 1 754            | 28 511             | 235 551                                    | 1 226 800                         | 1 464 014                          | 27 762  |
|                         | ARLINGTON, WA   |    |             |   |                     |                      |             |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing   | 1  | 75          | 30  | 3 152               | 96 744               | 2 382       | 4 049            | 53 504             | 181 143                                    | 205 165                           | 386 125                            | 33 029  |
| 332                     | Fabricated metal product mfg                                  | 1  | 20          | 10  | 675                 | 19 199               | 541         | 861              | 13 440             | 48 277                                     | 25 527                            | 72 200                             | 7 776   |
| 336                     | Transportation equipment mfg                                  | 1  | 10          | 4   | 1 130               | 40 465               | 778         | 1 115            | 14 119             | 26 317                                     | 24 623                            | 56 110                             | D   |
| 3366<br>33661<br>336612 | Ship & boat building<br>Ship & boat building<br>Boat building | -  | 2<br>2<br>2 | 2<br>2<br>2                               | f<br>f<br>f         | D<br>D<br>D          | D<br>D<br>D | D<br>D<br>D      | D<br>D<br>D        | D<br>D<br>D                                | D<br>D<br>D                       | D<br>D<br>D                        | D<br>D<br>D                                     |

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

| und byn         | nbols, see introductory text]                                     |    | /<br>establis | All<br>shments                            | All emp             | oloyees              | Pr     | oduction work    | ers                |  |                                   |                                    |   |
|-----------------|---|----|---------------|---|---------------------|----------------------|--------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code   | Geographic area and industry                                      | E1 | Total         | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                 | AUBURN, WA  |    |               |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -  | 167           | 39  | 13 946              | 605 221              | 9 598  | 22 707           | 438 110            | 1 205 661                                  | 676 413                           | 1 875 825                          | 80 393  |
| 326             | Plastics & rubber products mfg                                    | 2  | 12            | 7   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 3 147   |
| 3261            | Plastics product mfg  | 2  | 12            | 7   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 3 147   |
| 332             | Fabricated metal product mfg                                      | 3  | 52            | 7   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 3 394   |
| 336             | Transportation equipment mfg                                      | -  | 20            | 9   | j                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 3364            | Aerospace product & parts mfg                                     | _  | 14            | 7   | j                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 67 566  |
| 33641<br>336413 | Aerospace product &<br>parts mfg<br>Other aircraft part &         | -  | 14            | 7   | j                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 67 566  |
| 330413          | auxiliary equipment   | -  | 14            | 7   | j                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 67 566  |
|                 | BELLEVUE, WA  |    |               |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | 4  | 163           | 29  | 2 740               | 93 342               | 1 754  | 3 196            | 48 435             | 281 164                                    | 400 764                           | 681 840                            | 22 465  |
|                 | BELLINGHAM, WA  |    |               |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -  | 130           | 32  | 3 457               | 91 500               | 2 562  | 4 777            | 61 877             | 235 158                                    | 340 067                           | 583 859                            | 20 443  |
| 311             | Food mfg  | 1  | 19            | 9   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 3 310   |
| 3117<br>31171   | Seafood product<br>preparation & packaging<br>Seafood product     | -  | 9             | 7   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 311712          | preparation &<br>packaging<br>Fresh & frozen                      | -  | 9             | 7   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
|                 | seafood processing  | -  | 8             | 7   | f                   | D                    | D<br>D | D                | D                  | D  | D                                 | D                                  | D   |
| 322<br>3221     | Paper mfg<br>Pulp, paper, & paperboard                            | -  | 2             | 2   | т                   | D                    | D      |                  | D                  | D  | D                                 | D                                  | D   |
| 32212<br>322121 | mills<br>Paper mills  | _  | 1<br>1        | 1<br>1                                    | f<br>f              | D<br>D               | D<br>D | D<br>D           | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | D   |
| 322121          | Paper (except newsprint) mills                                    | -  | 1             | 1   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
|                 | BLAINE, WA  |    |               |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -  | 13            | 7   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
|                 | BOTHELL, WA *   |    |               |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -  | 50            | 20  | 4 260               | 217 140              | 1 863  | 3 693            | 46 598             | 383 068                                    | 336 645                           | 707 031                            | 30 382  |
| 334             | Computer & electronic<br>product mfg                              | -  | 13            | 9   | h                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 3345            | Navigational, measuring,<br>medical, & control                    |    | _             | _   |                     |                      |        | _                |                    |  |                                   |                                    | 00.470  |
| 33451           | instruments mfg<br>Navigational, measuring,<br>medical, & control | -  | 7             | 5   | h                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 20 176  |
| 334510          | instruments mfg<br>Electromedical &<br>electrotherapeutic         | -  | 7             | 5   | h                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | 20 176  |
| 339             | apparatus mfg<br>Miscellaneous mfg                                | _  | 4             | 3<br>4                                    | g                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 3399            | Other miscellaneous mfg   | _  | 5             | 3   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 33992           | Sporting & athletic goods mfg                                     | _  | 2             | 2   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
| 339920          | Sporting & athletic<br>goods mfg                                  | -  | 2             | 2   | f                   | D                    | D      | D                | D                  | D  | D                                 | D                                  | D   |
|                 | BURLINGTON, WA  |    |               |   |                     |                      |        |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | _  | 28            | 14  | 1 298               | 30 404               | 1 051  | 1 755            | 21 659             | 80 459                                     | 74 441                            | 154 654                            | 6 255   |

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

| and syn         |   | 1  |        |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
|-----------------|---|----|--------|---|---------------------|----------------------|----------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                 |   |    |        | All<br>shments                            | All emp             | loyees               | Pr       | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code   | Geographic area and industry                                      | E1 | Total  | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number   | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                 | CAMAS, WA   |    |        |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -  | 16     | 6   | 2 464               | 97 851               | 1 782    | 3 536            | 55 965             | 356 949                                    | 296 743                           | 649 008                            | D   |
| 322             | Paper mfg   | -  | 1      | 1   | g                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 3221<br>32212   | Pulp, paper, & paperboard<br>mills<br>Paper mills                 | -  | 1      | 1   | g                   | D                    | D<br>D   | D                | D                  | D  | D                                 | D                                  | D   |
| 322121          | Paper (except<br>newsprint) mills                                 | _  | 1      | 1   | g<br>g              | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 334             | Computer & electronic product mfg                                 | _  | 4      | 3   | 657                 | 31 815               | 298      | 643              | 6 775              | 82 312                                     | 46 738                            | 127 789                            | D   |
| 3344            | Semiconductor & other   |    | -      |   | 007                 | 01 010               | 200      | 040              | 0 //0              | 02 012                                     | 40 700                            | 127 700                            | U   |
| 33441           | electronic component<br>mfg<br>Semiconductor & other              | -  | 3      | 3   | f                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
|                 | electronic component<br>mfg                                       | _  | 3      | 3   | f                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
|                 | CHEHALIS, WA  |    |        |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -  | 35     | 14  | 1 322               | 35 919               | 1 054    | 2 060            | 25 965             | 111 512                                    | 162 724                           | 270 866                            | 9 873   |
| 321             | Wood product mfg  | -  | 8      | 7   | 635                 | 16 601               | 510      | 975              | 12 483             | 40 282                                     | 60 298                            | 97 682                             | 5 792   |
|                 | COLVILLE, WA  |    |        |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | 1  | 15     | 6   | 536                 | 16 408               | 411      | 861              | 11 503             | 35 882                                     | 55 517                            | 91 683                             | 1 692   |
|                 | EVERETT, WA   |    |        |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -  | 130    | 48  | k                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | 177 301   |
| 321             | Wood product mfg  | 2  | 10     | 7   | f                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | 5 913   |
| 322<br>3221     | Paper mfg<br>Pulp, paper, & paperboard                            | -  | 2      | 2   | g                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 32212           | mills<br>Paper mills  | -  | 1<br>1 | 1   | g<br>g              | D<br>D               | D<br>D   | D<br>D           | D<br>D             | D  | D<br>D                            | D<br>D                             | D<br>D  |
| 322121          | Paper (except newsprint) mills                                    | -  | 1      | 1   | g                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 332             | Fabricated metal product mfg                                      | -  | 28     | 11  | f                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | 1 438   |
| 334             | Computer & electronic<br>product mfg                              | -  | 7      | 2   | h                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 3341            | Computer & peripheral<br>equipment mfg<br>Computer & peripheral   | -  | 2      | 1   | g                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 33411<br>334119 | equipment mfg   | -  | 2      | 1   | g                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
|                 | peripheral equipment mfg  | -  | 2      | 1   | g                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 3345            | Navigational, measuring,<br>medical, & control                    |    | 3      | 1   |                     | D                    | D        | D                | D                  | D  | D                                 | D                                  | 5   |
| 33451           | instruments mfg<br>Navigational, measuring,<br>medical, & control | -  | 3      | I   | g                   | U                    | D        | U                | D                  | U  | U                                 | U                                  | D   |
| 334515          | instruments mfg<br>Electricity measuring &                        | -  | 3      | 1   | g                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
|                 | testing instrument mfg  | -  | 2      | 1   | g                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 336             | Transportation equipment<br>mfg                                   | -  | 12     | 4   | k                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 3364            | Aerospace product & parts mfg                                     | -  | 5      | 3   | k                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 33641<br>336411 | Aerospace product &<br>parts mfg<br>Aircraft mfg                  | -  | 5      | 3   | k<br>k              | D                    | D<br>D   | D                | D                  | D  | D                                 | D                                  | D   |
| 000411          | FEDERAL WAY, WA   |    |        |   | ĸ                   | J                    | D        | U                | D                  |  | D                                 | D                                  | U   |
| 31-33           | Manufacturing   | 3  | 32     | 5   | 556                 | 15 725               | 428      | 779              | 10 073             | 46 205                                     | 20 290                            | 66 776                             | 2 015   |
|                 | FERNDALE, WA  |    |        |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -  | 23     | 7   | 794                 | 33 005               | 563      | 1 299            | 18 788             | 121 072                                    | 676 735                           | 799 603                            | 10 907  |
|                 | FIFE, WA  |    |        |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | 1  | 32     | 16  | 1 897               | 55 830               | 1 267    | 2 303            | 34 151             | 127 094                                    | 120 309                           | 246 407                            | 7 556   |
| 323             | Printing & related support activities                             | -  | 5      | 2   | 605                 | 12 665               | 344      | 328              | 5 515              | 14 611                                     | 19 699                            | 36 001                             | 86  |
| 3231            | Printing & related support<br>activities                          | _  | 5      | 2   | 605                 | 12 665               | 344      | 328              | 5 515              | 14 611                                     | 19 699                            | 36 001                             | 86  |
| 32311<br>323117 | Printing  | _  | 5<br>1 | 2<br>2<br>1                               | 605<br>f            | 12 665<br>D          | 344<br>D | 328<br>D         | 5 515<br>D         | 14 611<br>D                                | 19 699<br>D                       | 36 001<br>D                        | 86  |

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

| anu syn              | nbois, see introductory text]                                     |                |                |   |                     |                            |                   |                     |                            | 1  |                                   |                                    |   |
|----------------------|---|----------------|----------------|---|---------------------|----------------------------|-------------------|---------------------|----------------------------|--|-----------------------------------|------------------------------------|---|
|                      |   |                |                | All<br>shments                            | All emp             | loyees                     | Pr                | oduction work       | ers                        |  |                                   |                                    |   |
| NAICS<br>code        | Geographic area and industry                                      | E <sup>1</sup> | Total          | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000)       | Number            | Hours<br>(1,000)    | Wages<br>(\$1,000)         | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                      | HOQUIAM, WA   |                |                |   |                     |                            |                   |                     |                            |  |                                   |                                    |   |
| 31-33                | Manufacturing   | -              | 14             | 5   | 925                 | 34 686                     | 805               | 1 639               | 29 201                     | 57 050                                     | 128 730                           | 183 115                            | D   |
|                      | ISSAQUAH, WA  |                |                |   |                     |                            |                   |                     |                            |  |                                   |                                    |   |
| 31-33                | Manufacturing   | _              | 40             | 11  | 1 505               | 73 006                     | 789               | 1 554               | 28 727                     | 137 111                                    | 198 034                           | 313 151                            | 7 128   |
| 334                  | Computer & electronic<br>product mfg                              | _              | 18             | 6   | 1 116               | 60 211                     | 492               | 989                 | 19 327                     | 98 397                                     | 73 555                            | 149 438                            | 5 853   |
| 3345                 | Navigational, measuring,  |                |                |   |                     |                            |                   |                     |                            |  |                                   |                                    |   |
| 33451                | medical, & control<br>instruments mfg<br>Navigational, measuring, | -              | 9              | 4   | 1 002               | 55 869                     | 397               | 791                 | 16 267                     | 88 457                                     | 67 646                            | 133 479                            | 4 746   |
|                      | medical, & control instruments mfg                                | -              | 9              | 4   | 1 002               | 55 869                     | 397               | 791                 | 16 267                     | 88 457                                     | 67 646                            | 133 479                            | 4 746   |
|                      | KENNEWICK, WA   |                |                |   |                     |                            |                   |                     |                            |  |                                   |                                    |   |
| 31-33                | Manufacturing   | -              | 46             | 4   | f                   | D                          | D                 | D                   | D                          | D  | D                                 | D                                  | D   |
|                      | KENT, WA  |                |                |   |                     |                            |                   |                     |                            |  |                                   |                                    |   |
| 31-33                | Manufacturing   | -              | 295            | 127                                       | 26 894              | 1 274 764                  | 12 515            | 23 951              | 396 202                    | 2 503 653                                  | 1 439 184                         | 3 997 375                          | 160 404   |
| 311<br>3118          | Food mfg  | -              | 21<br>8        | 17<br>6                                   | 1 868<br>599        | 51 598                     | 1 420             | 2 565               | 33 739                     | 314 989                                    | 292 411<br>98 089                 | 603 109                            | 7 620   |
| 3118                 | Bakeries & tortilla mfg<br>Other food mfg                         | _              | 6              | 5   | 599<br>523          | 16 559<br>13 702           | 456<br>340        | 929<br>682          | 9 841<br>8 233             | 109 514<br>110 631                         | 98 089<br>125 015                 | 206 238<br>228 592                 | 3 834<br>1 468                                  |
| 323                  | Printing & related support activities                             | 3              | 33             | 15  | 1 169               | 41 077                     | 838               | 1 547               | 25 004                     | 90 402                                     | 58 166                            | 147 893                            | 4 206   |
| 3231                 | Printing & related support activities                             | 3              | 33             | 15  | 1 169               | 41 077                     | 838               | 1 547               | 25 004                     | 90 402                                     | 58 166                            | 147 893                            | 4 206   |
| 32311<br>323110      | Printing<br>Commercial<br>lithographic printing                   | 3<br>5         | 31<br>12       | 14<br>5                                   | g<br>628            | D<br>24 942                | D<br>422          | D<br>834            | D<br>14 524                | 48 567                                     | D<br>33 863                       | D<br>81 653                        | D<br>1 586                                      |
| 326                  | Plastics & rubber products mfg                                    | 1              | 19             | 13  | 1 354               | 40 199                     | 879               | 1 952               | 23 963                     | 104 344                                    | 110 863                           | 214 582                            | 14 705  |
| 3261                 | Plastics product mfg  | 1              | 16             | 11  | 1 285               | 38 850                     | 824               | 1 890               | 23 061                     | 101 841                                    | 108 631                           | 209 820                            | 14 490  |
| 332                  | Fabricated metal product mfg                                      | -              | 78             | 24  | 2 003               | 69 522                     | 1 604             | 3 342               | 51 080                     | 187 522                                    | 161 014                           | 345 024                            | 13 273  |
| 3327                 | Machine shops, turned<br>product, & screw, nut, &                 |                |                |   |                     |                            | 504               | 4 000               | 17 100                     | =1 100                                     | 05 (70                            | 05 007                             |   |
| 33271<br>332710      | bolt mfg<br>Machine shops<br>Machine shops                        | -              | 38<br>32<br>32 | 9<br>8<br>8                               | 639<br>501<br>501   | 24 448<br>17 595<br>17 595 | 521<br>404<br>404 | 1 096<br>826<br>826 | 17 426<br>12 331<br>12 331 | 71 498<br>53 794<br>53 794                 | 25 478<br>19 452<br>19 452        | 95 037<br>72 281<br>72 281         | 7 050<br>6 833<br>6 833                         |
| 3328                 | Coating, engraving, heat treating, & allied activities.           | _              | 8              | 4   | 552                 | 16 023                     | 444               | 976                 | 11 614                     | 39 648                                     | 8 350                             | 47 241                             | 2 893   |
| 33281                | Coating, e graving, heat<br>treating, & allied<br>activities      | _              | 8              | 4   | 552                 | 16 023                     | 444               | 976                 | 11 614                     | 39 648                                     | 8 350                             | 47 241                             | 2 893   |
| 333                  | Machinery mfg   | -              | 27             | 11  | f                   | D                          | D                 | D                   | D                          | D  | D                                 | D                                  | 2 870   |
| 334                  | Computer & electronic<br>product mfg                              | -              | 15             | 9   | 15 467              | 889 328                    | 4 315             | 7 370               | 167 918                    | 1 351 501                                  | 414 914                           | 1 831 357                          | D   |
| 3345                 | Navigational, measuring,<br>medical, & control<br>instruments mfg | _              | 5              | 4   | j                   | D                          | D                 | D                   | D                          | D  | D                                 | D                                  | D   |
| 33451                | Navigational, measuring,<br>medical, & control<br>instruments mfg |                | 5              | 4   | ;                   | D                          | D                 | D                   | D                          | D  | D                                 | D                                  | D   |
| 334511               | Search, detection,<br>navigation, &<br>guidance instrument        |                |                |   |                     |                            |                   |                     |                            |  |                                   |                                    |   |
| 336                  | mfg<br>Transportation equipment                                   |                | 1              | 1   | 1                   | D                          | D                 | D                   | D                          | D  | D                                 | D                                  | D   |
| 3364                 | Aerospace product & parts   | _              | 25             | 12  | g                   |                            | D                 |                     | D                          | D  | D                                 | D                                  | 15 339  |
| 33641                | mfg<br>Aerospace product &<br>parts mfg                           |                | 15<br>15       | 8<br>8                                    | g                   | D                          | D                 | D                   | D                          | D  | D                                 | D                                  | 13 704<br>13 704                                |
| 336413               | Other aircraft part &<br>auxiliary equipment                      |                |                |   | g                   |                            |                   |                     |                            |  |                                   |                                    |   |
| 337                  | mfg<br>Furniture & related product                                | -              | 14             | 8   | g                   | D                          | D                 | D                   | D                          | D  | D                                 | D                                  | D   |
| 3372                 | mfg<br>Office furniture (including                                | -              | 15             | 8   | 820                 | 22 839                     | 664               | 1 386               | 14 256                     | 50 561                                     | 34 622                            | 85 334                             | 2 163   |
| 33721                | fixtures) mfg<br>Office furniture (including                      | -              | 6              | 3   | f                   | D                          | D                 | D                   | D                          | D  | D                                 | D                                  | 1 798   |
|                      | fixtures) mfg   | -              | 6              | 3   | f                   | D                          | D                 | D                   | D                          | D  | D                                 | D                                  | 1 798   |
| 31-33                | Manufacturing   | 1              | 93             | 21  | 1 941               | 63 249                     | 1 366             | 2 512               | 34 830                     | 194 142                                    | 124 178                           | 315 839                            | 15 391  |
| 31 <b>-33</b><br>334 | Computer & electronic   |                |                |   |                     |                            |                   |                     |                            |  |                                   |                                    |   |
|                      | product mfg   | _              | 10             | 6   | f                   | D                          | D                 | D                   | D                          | D  | D                                 | D                                  | D   |

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| and Syn         | ndois, see introductory textj   |        | A        |   | All omr             |                      | Dr       | aduation work    |                    |  |                                   |                                    |   |
|-----------------|---|--------|----------|---|---------------------|----------------------|----------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|                 |   |        | establis | shments                                   | All emp             | bloyees              | Pr       | oduction work    | ers                |  |                                   |                                    |   |
| NAICS<br>code   | Geographic area and industry  | E1     | Total    | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number   | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                 | LAKEWOOD, WA *  |        |          |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | 1      | 44       | 9   | 624                 | 14 518               | 452      | 806              | 8 487              | 33 679                                     | 37 342                            | 71 367                             | 2 936   |
|                 | LONGVIEW, WA  |        |          |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | _      | 46       | 17  | 2 556               | 115 160              | 1 908    | 3 868            | 80 307             | 336 920                                    | 479 126                           | 824 265                            | 27 932  |
| 322             | Paper mfg   | -      | 4        | 4   | f                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 3221            | Pulp, paper, & paperboard<br>mills<br>Paperboard mills                              | -      | 1        | 1   | f                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 32213<br>322130 | Paperboard mills<br>Paperboard mills  | _      | 1        | 1   | f                   | D<br>D               | D<br>D   | D<br>D           | D<br>D             | D<br>D                                     | D                                 | D<br>D                             | D<br>D<br>D                                     |
| 331<br>3313     | Primary metal mfg   | -      | 2        | 2   | f                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 33131           | Alumina & aluminum<br>production & processing<br>Alumina & aluminum<br>production & | -      | 1        | 1   | f                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 331312          | Processing<br>Primary aluminum<br>production  | -      | 1        | 1<br>1                                    | f                   | D<br>D               | D<br>D   | D<br>D           | D<br>D             | D  | D                                 | D                                  | D   |
|                 | LYNNWOOD, WA  |        |          |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | 6      | 61       | 14  | 1 526               | 40 796               | 1 084    | 2 119            | 23 446             | 75 004                                     | 66 591                            | 145 928                            | 5 297   |
| 323             | Printing & related support activities   | 9      | 8        | 1   | 520                 | 11 956               | 359      | 683              | 6 351              | 22 882                                     | 10 751                            | 37 038                             | D   |
| 3231            | Printing & related support activities   | 9      | 8        | 1   | 520                 | 11 956               | 359      | 683              | 6 351              | 22 882                                     | 10 751                            | 37 038                             | D   |
| 32311<br>323110 | Printing<br>Commercial<br>lithographic printing                                     | 9<br>9 | 8<br>6   | 1<br>1                                    | 520<br>f            | 11 956<br>D          | 359<br>D | 683<br>D         | 6 351<br>D         | 22 882<br>D                                | 10 751<br>D                       | 37 038<br>D                        | D   |
|                 | MARYSVILLE, WA  |        |          |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | 1      | 53       | 13  | 1 374               | 47 431               | 1 079    | 2 396            | 32 576             | 91 262                                     | 113 958                           | 199 828                            | 6 283   |
|                 | MONROE, WA  |        |          |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | 2      | 41       | 8   | 542                 | 13 186               | 436      | 669              | 9 033              | 29 181                                     | 23 131                            | 51 874                             | 3 215   |
|                 | MOUNT VERNON, WA  |        |          |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | 1      | 27       | 2   | 527                 | 13 230               | 381      | 501              | 5 722              | 32 585                                     | 43 363                            | 75 761                             | 1 694   |
|                 | MUKILTEO, WA  |        |          |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -      | 66       | 25  | 1 970               | 71 143               | 1 147    | 2 225            | 30 012             | 177 627                                    | 101 688                           | 271 792                            | 10 899  |
| 332             | Fabricated metal product mfg  | -      | 22       | 8   | 849                 | 35 623               | 398      | 786              | 10 730             | 93 909                                     | 37 670                            | 130 734                            | 3 167   |
|                 | OLYMPIA, WA   |        |          |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -      | 47       | 15  | 1 368               | 47 287               | 1 118    | 2 034            | 36 583             | 155 664                                    | 239 660                           | 387 034                            | 4 009   |
|                 | OTHELLO, WA   |        |          |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | 5      | 11       | 2   | g                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
| 311             | Food mfg  | 5      | 6        | 2   | 1 065               | 25 500               | 947      | 2 031            | 20 145             | 126 113                                    | 146 082                           | 272 264                            | D   |
| 3114            | Fruit & vegetable<br>preserving & specialty   | _      | -        |   |                     | _                    | _        | _                | _                  | _  | _                                 | _                                  | _   |
| 31141<br>311411 | food mfg<br>Frozen food mfg<br>Frozen fruit, juice, &                               | 5<br>5 | 3<br>3   | 2<br>2                                    | g<br>g              | D<br>D               | D<br>D   | D<br>D           | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | D<br>D  |
|                 | vegetable mfg   | 5      | 3        | 2   | g                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | D   |
|                 | PASCO, WA   |        |          |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | 1      | 34       | 4   | f                   | D                    | D        | D                | D                  | D  | D                                 | D                                  | 8 158   |
|                 | PORT ANGELES, WA  |        |          |   |                     |                      |          |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | 1      | 20       | 5   | 796                 | 33 583               | 613      | 1 303            | 25 824             | 108 889                                    | 132 292                           | 253 980                            | 5 125   |

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

|                 | nbois, see introductory textj                             |    | Å        | AII                                       | Allem               | lovees               | Pr           | oduction work    | ers                |  |                                   |                                    |   |
|-----------------|---|----|----------|---|---------------------|----------------------|--------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS           |   |    | establis | shments                                   |                     | .,                   |              |                  |                    |  |                                   |                                    |   |
| code            | Geographic area and industry                              | E1 | Total    | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number       | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                 | PROSSER, WA   |    |          |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -  | 15       | 5   | f                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | 3 133   |
| 311             | Food mfg  | -  | 5        | 4   | f                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 3114            | Fruit & vegetable<br>preserving & specialty               |    |          |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
| 31141           | food mfg<br>Frozen food mfg                               | -  | 3<br>2   | 3<br>2                                    | f<br>f              | D<br>D               | D<br>D       | D<br>D           | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | D<br>D  |
| 311411          | Frozen fruit, juice, & vegetable mfg                      | -  | 2        | 2   | f                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
|                 | PUYALLUP, WA  |    |          |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -  | 38       | 15  | 2 482               | 83 054               | 1 823        | 3 728            | 59 137             | 223 122                                    | 114 982                           | 320 511                            | D   |
| 336             | Transportation equipment<br>mfg                           | -  | 3        | 2   | g                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 3364            | Aerospace product & parts mfg                             |    | 3        | 2   |                     | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 33641           | Aerospace product & parts mfg                             | _  | 3        | 2   | g<br>g              | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 336413          | Other aircraft part &<br>auxiliary equipment              |    |          |   |                     | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
|                 | mfg   | -  | 2        | 2   | g                   | U                    | D            | D                | D                  | U  | U                                 | U                                  | D   |
|                 | QUINCY, WA  |    |          |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | -  | 6        | 2   | g                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 311             | Food mfg  | -  | 4        | 2   | g                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 3114            | Fruit & vegetable<br>preserving & specialty<br>food mfg   | _  | 2        | 2   | g                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 31141<br>311411 | food mfg<br>Frozen food mfg<br>Frozen fruit, juice, &     | -  | 2        | 2   | g                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
|                 | vegetable mfg   | -  | 2        | 2   | g                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
|                 | REDMOND, WA   |    |          |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
| 31-33           | Manufacturing   | 1  | 227      | 87  | 11 807              | 448 498              | 6 686        | 13 089           | 173 229            | 1 297 879                                  | 891 212                           | 2 183 742                          | 84 145  |
| 323             | Printing & related support<br>activities                  | -  | 34       | 6   | 697                 | 28 671               | 418          | 818              | 16 320             | 63 437                                     | 14 977                            | 78 249                             | 1 520   |
| 3231            | Printing & related support activities                     | -  | 34       | 6   | 697                 | 28 671               | 418          | 818              | 16 320             | 63 437                                     | 14 977                            | 78 249                             | 1 520   |
| 333             | Machinery mfg   | -  | 18       | 11  | 1 488               | 41 361               | 1 195        | 2 376            | 29 385             | 126 940                                    | 211 623                           | 339 219                            | 8 556   |
| 3339            | Other general-purpose<br>machinery mfg                    | -  | 6        | 3   | g                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 33392<br>333923 | Material handling<br>equipment mfg<br>Overhead traveling  | -  | 2        | 1   | g                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
|                 | crane, hoist, & monorail system mfg.                      | -  | 2        | 1   | g                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |
| 334             | Computer & electronic<br>product mfg                      | 1  | 47       | 30  | 5 309               | 222 722              | 2 453        | 5 181            | 63 480             | 733 821                                    | 383 816                           | 1 112 063                          | 43 498  |
| 3342            | Communications<br>equipment mfg                           | 5  | 9        | 5   | 971                 | 56 220               | 301          | 588              | 8 817              | 115 650                                    | 53 734                            | 168 864                            | 6 973   |
| 33421<br>334210 | Telephone apparatus<br>mfg<br>Telephone apparatus         | 7  | 4        | 3   | 643                 | 42 895               | 169          | 329              | 5 372              | 86 548                                     | 40 875                            | 126 503                            | D   |
|                 | mfg   | 7  | 4        | 3   | 643                 | 42 895               | 169          | 329              | 5 372              | 86 548                                     | 40 875                            | 126 503                            | D   |
| 3344            | Semiconductor & other<br>electronic component<br>mfg      | 1  | 15       | 10  | 1 459               | 49 329               | 1 017        | 2 295            | 25 741             | 120 964                                    | 68 459                            | 191 271                            | 4 740   |
| 33441           | Semiconductor & other<br>electronic component             | 1  | 15       | 10  | 1 450               | 40, 220              | 1 017        | 0.005            | 05 741             | 100.064                                    | 69 450                            | 101 071                            | 4 740   |
| 334412          | mfg<br>Bare printed circuit<br>board mfg                  | 2  | 15<br>6  | 4   | 1 459<br>754        | 49 329<br>24 098     | 1 017<br>638 | 2 295<br>1 590   | 25 741<br>18 512   | 120 964<br>61 389                          | 68 459<br>33 068                  | 191 271<br>95 927                  | 4 740<br>D                                      |
| 3345            | Navigational, measuring,<br>medical, & control            |    |          |   |                     |                      |              |                  |                    |  |                                   |                                    |   |
| 33451           | Navigational, measuring,<br>medical, & control            | -  | 18       | 11  | 2 488               | 99 997               | 916          | 1 921            | 24 233             | 441 948                                    | 194 050                           | 630 719                            | 27 590  |
| 334510          | instruments mfg<br>Electromedical &<br>electrotherapeutic | -  | 18       | 11  | 2 488               | 99 997               | 916          | 1 921            | 24 233             | 441 948                                    | 194 050                           | 630 719                            | 27 590  |
| 334511          | apparatus mfg<br>Search, detection,<br>navigation, &      | -  | 5        | 4   | g                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | 23 430  |
|                 | guidance instrument<br>mfg                                | -  | 4        | 3   | f                   | D                    | D            | D                | D                  | D  | D                                 | D                                  | D   |

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|                         |  |             |              | All<br>shments                            | All emp             | loyees               | Pr             | oduction worke   | ers                |  |                                   |                                    |   |
|-------------------------|--|-------------|--------------|---|---------------------|----------------------|----------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code           | Geographic area and industry   | E1          | Total        | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number         | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
| 31-33                   | REDMOND, WA—Con.<br>Manufacturing—<br>Con.                                     |             |              |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 336                     | Transportation equipment mfg   | 1           | 7            | 3   | g                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 3364                    | Aerospace product & parts  |             | ,            | 5   | g                   |                      |                |                  |                    |  |                                   |                                    |   |
| 33641                   | mfg<br>Aerospace product &   | -           | 1            | 1   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 336415                  | parts mfg<br>Guided missile &<br>space vehicle<br>propulsion unit &            | -           | 1            | 1   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 339                     | parts mfg  | -           | 1<br>30      | 1<br>11                                   | f<br>1 299          | D<br>50 491          | D<br>771       | D<br>1 414       | D<br>21 202        | D<br>125 331                               | D<br>82 703                       | D<br>210 158                       | D<br>9 558                                      |
| 3391                    | Medical equipment &  |             |              |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 33911                   | supplies mfg Medical equipment &   | 1           | 11           | 4   | 667                 | 33 859               | 303            | 556              | 11 203             | 86 104                                     | 47 485                            | 133 332                            | 7 894   |
| 339112                  | supplies mfg<br>Surgical & medical   | 1           | 11           | 4   | 667                 | 33 859               | 303            | 556              | 11 203             | 86 104                                     | 47 485                            | 133 332                            | 7 894   |
| 3399                    | instrument mfg<br>Other miscellaneous mfg                                      | 1           | 7<br>19      | 4   | 655<br>632          | 33 523<br>16 632     | 295<br>468     | 543<br>858       | 11 037<br>9 999    | 85 246<br>39 227                           | 47 050<br>35 218                  | 132 024<br>76 826                  | 7 856<br>1 664                                  |
| 0000                    | RENTON, WA   |             | 10           |   | 002                 | 10 002               | 400            | 000              | 0.000              | UU LLI                                     | 00 210                            | 10 020                             | 1 004   |
| 31-33                   | Manufacturing  | 8           | 70           | 24  | k                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 59 989  |
| 336                     | Transportation equipment<br>mfg  | 9           | 8            | 5   | k                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 3361<br>33612           | Motor vehicle mfg<br>Heavy duty truck mfg                                      | -           | 1            | 1   | g                   | D                    | D<br>D         | D<br>D           | D                  | D  | D                                 | D                                  | D   |
| 336120                  | Heavy duty truck mfg   | _           | 1            | 1   | g<br>g              | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 3364                    | Aerospace product & parts<br>mfg   | 9           | 4            | 3   | i                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 33641                   | Aerospace product &<br>parts mfg   | 9<br>9      | 4            | 3   | j                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 336411                  | Aircraft mfg   | 9           | 2            | 1   | ]                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
|                         | RICHLAND, WA   |             |              |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing  | -           | 28           | 5   | 1 449               | 65 615               | 980            | 2 260            | 32 250             | 138 617                                    | 141 353                           | 294 230                            | 23 292  |
| 311                     | Food mfg   | -           | 4            | 1   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 325                     | Chemical mfg   | -           | 1            | 1   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 3251<br>32518           | Basic chemical mfg<br>Other basic inorganic                                    | -           | 1            | 1   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 325188                  | chemical mfg   | -           | 1            | 1   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
|                         | inorganic chemical mfg   | -           | 1            | 1   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
|                         | SEATTLE, WA  |             |              |   |                     |                      |                |                  |                    |  |                                   |                                    |   |
| 31-33                   | Manufacturing  | 1           | 1 213        | 348                                       | 33 935              | 1 132 711            | 22 619         | 46 290           | 651 039            | 2 722 952                                  | 2 300 010                         | 5 021 058                          | 186 762   |
| 311                     | Food mfg   | 1           | 171          | 69  | 8 670               | 268 247              | 5 634          | 12 456           | 173 624            | 748 039                                    | 873 428                           | 1 618 281                          | 44 890  |
| 3115                    | Dairy product mfg  | 1           | 8            | 5   | 621                 | 24 220               | 365            | 731              | 14 640             | 66 103                                     | 147 614                           | 212 704                            | 4 584   |
| 3117<br>31171           | Seafood product<br>preparation & packaging<br>Seafood product<br>preparation & | 1           | 42           | 30  | h                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 16 771  |
| 311712                  | packaging<br>Fresh & frozen  | 1           | 42           | 30  | h                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | 16 771  |
|                         | seafood processing   | 1           | 37           | 30  | h                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 3118<br>31181           | Bakeries & tortilla mfg<br>Bread & bakery product                              | 2           | 69           | 17  | 3 556               | 105 395              | 1 495          | 3 165            | 46 193             | 262 116                                    | 180 573                           | 442 481                            | 18 795  |
| 311812                  | mfg<br>Commercial bakeries .   | 2<br>2      | 55<br>24     | 13<br>13                                  | 3 060<br>2 955      | 88 857<br>87 560     | 1 181<br>1 109 | 2 680<br>2 606   | 39 089<br>38 452   | 181 793<br>178 769                         | 124 806<br>122 935                | 306 669<br>301 774                 | 10 397<br>10 217                                |
| 312                     | Beverage & tobacco product mfg   | 3           | 13           | 9   | 1 352               | 32 316               | 394            | 773              | 11 114             | 109 422                                    | 100 439                           | 209 458                            | 6 866   |
| 3121<br>31211<br>312111 | Beverage mfg<br>Soft drink & ice mfg<br>Soft drink mfg                         | 3<br>6<br>6 | 13<br>5<br>4 | 9<br>4<br>3                               | 1 352<br>f<br>f     | 32 316<br>D<br>D     | 394<br>D<br>D  | 773<br>D<br>D    | 11 114<br>D<br>D   | 109 422<br>D<br>D                          | 100 439<br>D<br>D                 | 209 458<br>D<br>D                  | 6 866<br>D<br>D                                 |
| 31212<br>312120         | Breweries<br>Breweries   | -           | 8            | 5   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 314                     | Textile product mills  | 2           | 49           | 10  | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 315                     | Apparel mfg  | 2           | 74           | 21  | 1 980               | 40 465               | 1 698          | 3 437            | 28 696             | 65 417                                     | 56 515                            | 122 536                            | 2 151   |
| 3152                    | Cut & sew apparel mfg<br>Men's & boys' cut & sew                               | 1           | 54           | 18  | g                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 31522                   | Men's & boys' cut & sew<br>apparel mfg   | 1           | 10           | 4   | f                   | D                    | D              | D                | D                  | D  | D                                 | D                                  | D   |
| 322                     | Paper mfg  | -           | 12           | 6   | 564                 | 20 490               | 362            | 728              | 11 015             | 42 276                                     | 49 945                            | 91 154                             | 2 995   |
| 3222                    | Converted paper product<br>mfg   | _           | 12           | 6   | 564                 | 20 490               | 362            | 728              | 11 015             | 42 276                                     | 49 945                            | 91 154                             | 2 995   |

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|                 |  |             |                | ll<br>hments                              | All emp             | loyees                | Pro             | oduction worke   | ers                   |  |                                   |                                    |   |
|-----------------|--|-------------|----------------|---|---------------------|-----------------------|-----------------|------------------|-----------------------|--|-----------------------------------|------------------------------------|---|
| NAICS<br>code   | Geographic area and industry   | E1          | Total          | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000)  | Number          | Hours<br>(1,000) | Wages<br>(\$1,000)    | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                 | SEATTLE, WA-Con.   |             |                |   |                     |                       |                 |                  |                       |  |                                   |                                    |   |
| 31-33           | Manufacturing—<br>Con.   |             |                |   |                     |                       |                 |                  |                       |  |                                   |                                    |   |
| 323             | Printing & related support activities  | 1           | 205            | 46  | 2 945               | 108 934               | 2 051           | 4 040            | 63 761                | 206 413                                    | 112 265                           | 317 981                            | 25 046  |
| 3231            | Printing & related support activities  | 1           | 205            | 46  | 2 945               | 108 934               | 2 051           | 4 040            | 63 761                | 206 413                                    | 112 265                           | 317 981                            | 25 046  |
| 32311<br>323110 | Printing<br>Commercial   | 1           | 180            | 39  | 2 517               | 91 282                | 1 712           | 3 393            | 52 237                | 175 720                                    | 106 270                           | 281 584                            | 23 453  |
| 325             | lithographic printing<br>Chemical mfg  | 1<br>1      | 86<br>31       | 24<br>10                                  | 1 582<br>774        | 61 504<br>44 554      | 1 077<br>436    | 2 205<br>909     | 36 318<br>13 090      | 117 543<br>116 248                         | 73 400<br>91 511                  | 190 758<br>207 009                 | 18 794<br>D                                     |
| 326             | Plastics & rubber products mfg   | 1           | 25             | 8   | 1 151               | 30 570                | 897             | 1 695            | 20 337                | 77 484                                     | 51 157                            | 127 373                            | 4 692   |
| 3261            | Plastics product mfg   | -           | 22             | 7   | g                   | D                     | D               | D                | _0 00.                | D  | D                                 | D                                  | D   |
| 32619<br>326199 | Other plastics product   | -           | 12             | 5   | 822                 | 19 710                | 650             | 1 213            | 13 721                | 51 428                                     | 31 226                            | 80 640                             | 2 999   |
| 320199          | All other plastics product mfg   | -           | 11             | 5   | f                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 327             | Nonmetallic mineral product mfg  | _           | 43             | 14  | 1 609               | 60 584                | 1 276           | 2 603            | 44 243                | 194 546                                    | 159 067                           | 365 338                            | 14 388  |
| 3272<br>32721   | Glass & glass product mfg .<br>Glass & glass product                                   | -           | 22             | 4   | 1 016               | 34 481                | 843             | 1 684            | 27 035                | 114 632                                    | 59 971                            | 183 982                            | 8 385   |
| 32721           | mfg  | -           | 22<br>1        | 4   | 1 016<br>f          | 34 481<br>D           | 843<br>D        | 1 684<br>D       | 27 035<br>D           | 114 632<br>D                               | 59 971<br>D                       | 183 982<br>D                       | 8 385<br>D                                      |
| 331             | Primary metal mfg  | -           | 13             | 7   | 664                 | 27 133                | 534             | 1 204            | 19 767                | 108 292                                    | 121 848                           | 234 137                            | 6 621   |
| 332             | Fabricated metal product   | _           | 131            | 37  | 3 028               | 101 855               | 2 241           | 4 305            | 59 952                | 185 258                                    | 115 380                           | 299 818                            | 12 367  |
| 3323            | Architectural & structural metals mfg  | 1           | 37             | 8   | 508                 | 17 843                | 363             | 721              | 10 921                | 29 442                                     | 29 822                            | 58 650                             | 988   |
| 3327            | Machine shops, turned  |             |                |   |                     |                       |                 |                  |                       |  |                                   |                                    |   |
| 33271<br>332710 | product, & screw, nut, &<br>bolt mfg<br>Machine shops<br>Machine shops                 | -<br>-<br>- | 39<br>33<br>33 | 9<br>7<br>7                               | f<br>697<br>697     | D<br>24 085<br>24 085 | D<br>533<br>533 | D<br>943<br>943  | D<br>13 753<br>13 753 | D<br>42 176<br>42 176                      | D<br>10 899<br>10 899             | D<br>52 778<br>52 778              | 5 235<br>3 557<br>3 557                         |
| 3328<br>33281   | Coating, engraving, heat<br>treating, & allied activities.<br>Coating, engraving, heat | -           | 17             | 8   | 955                 | 29 662                | 742             | 1 508            | 17 375                | 58 627                                     | 20 065                            | 77 628                             | 2 954   |
| 332813          | treating, & allied<br>activities<br>Electroplating, plating,                           | -           | 17             | 8   | 955                 | 29 662                | 742             | 1 508            | 17 375                | 58 627                                     | 20 065                            | 77 628                             | 2 954   |
|                 | polishing, anodizing,<br>& coloring  | -           | 8              | 4   | 751                 | 23 624                | 556             | 1 094            | 12 715                | 47 601                                     | 16 769                            | 63 275                             | 2 515   |
| 333             | Machinery mfg  | 1           | 50             | 19  | 1 564               | 66 991                | 992             | 2 099            | 36 811                | 151 751                                    | 97 533                            | 251 257                            | 5 262   |
| 3339            | Other general-purpose<br>machinery mfg   | 1           | 18             | 8   | 572                 | 26 549                | 355             | 764              | 15 705                | 58 032                                     | 40 721                            | 99 322                             | 1 633   |
| 334             | Computer & electronic<br>product mfg   | 3           | 70             | 17  | 2 029               | 83 599                | 934             | 1 814            | 25 375                | 217 271                                    | 111 801                           | 323 380                            | 26 470  |
| 3344<br>33441   | Semiconductor & other<br>electronic component<br>mfg<br>Semiconductor & other          | -           | 19             | 6   | 994                 | 34 359                | 501             | 1 027            | 12 717                | 83 461                                     | 23 711                            | 105 464                            | D   |
|                 | electronic component<br>mfg  | _           | 19             | 6   | 994                 | 34 359                | 501             | 1 027            | 12 717                | 83 461                                     | 23 711                            | 105 464                            | D   |
| 334419          | Other electronic component mfg   | -           | 9              | 3   | 588                 | 21 364                | 260             | 548              | 7 208                 | 48 900                                     | 11 383                            | 59 811                             | D   |
| 336             | Transportation equipment mfg   | 1           | 68             | 25  | 3 862               | 142 036               | 2 376           | 5 002            | 80 167                | 273 663                                    | 183 440                           | 452 934                            | 11 136  |
| 3364            | Aerospace product & parts<br>mfg   | 2           | 11             | 6   | g                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 33641<br>336413 | Aerospace product &<br>parts mfg   | 2           | 11             | 6   | g                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 330413          | Other aircraft part & auxiliary equipment mfg  | -           | 9              | 5   | g                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | D   |
| 3366<br>33661   | Ship & boat building<br>Ship & boat building   | -           | 36<br>36       | 15<br>15                                  | 2 042<br>2 042      | 88 500<br>88 500      | 1 358<br>1 358  | 3 287<br>3 287   | 54 853<br>54 853      | 161 912<br>161 912                         | 85 067<br>85 067                  | 246 760<br>246 760                 | D<br>D  |
| 336611          | Ship building & repairing  | -           | 23             | 12  | 1 858               | 81 615                | 1 219           | 3 027            | 51 034                | 147 529                                    | 77 572                            | 225 101                            | D   |
| 337             | Furniture & related product mfg  | 4           | 73             | 14  | f                   | D                     | D               | D                | D                     | D  | D                                 | D                                  | 2 617   |
| 339             | Miscellaneous mfg  | 3           | 124            | 19  | 1 321               | 41 527                | 936             | 1 622            | 23 083                | 97 011                                     | 47 495                            | 144 782                            | 3 211   |
| 3399            | Other miscellaneous mfg  | 3           | 86             | 13  | 979                 | 29 039                | 682             | 1 219            | 16 724                | 68 368                                     | 34 360                            | 102 700                            | 1 414   |

64 WASHINGTON

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

|                     |   |        |             | All<br>shments                            | All emp             | loyees               | Pr           | oduction worke        | ers                |  |                                   |                                    |   |
|---------------------|---|--------|-------------|---|---------------------|----------------------|--------------|-----------------------|--------------------|--|-----------------------------------|------------------------------------|---|
| NAICS               | Geographic area and industry                          | E1     | Total       | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number       | Hours<br>(1,000)      | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|                     | SELAH, WA   |        |             |   |                     |                      |              |                       |                    |  |                                   |                                    |   |
| 31-33               | Manufacturing   | -      | 6           | 4   | f                   | D                    | D            | D                     | D                  | D  | D                                 | D                                  | 8 281   |
| 311                 | Food mfg  | -      | 3           | 3   | f                   | D                    | D            | D                     | D                  | D  | D                                 | D                                  | D   |
| 3114                | Fruit & vegetable<br>preserving & specialty           |        | 3           | 3   | f                   | D                    | D            | D                     | D                  | D  | D                                 | D                                  | D   |
| 31142               | food mfg<br>Fruit & vegetable<br>canning, pickling, & |        |             |   | I                   |                      |              |                       |                    |  |                                   |                                    |   |
|                     | drying  | -      | 3           | 3   | f                   | D                    | D            | D                     | D                  | D  | D                                 | D                                  | D   |
|                     | SHELTON, WA   |        |             |   |                     |                      |              |                       |                    |  |                                   |                                    | _   |
| <b>31-33</b><br>321 | Manufacturing   | _      | 13<br>4     | 5<br>3                                    | 1 137<br>f          | 36 925<br>D          | 999<br>D     | 2 031<br>D            | 28 457<br>D        | 94 510<br>D                                | <b>168 157</b><br>D               | 259 943<br>D                       | D   |
|                     | SPOKANE, WA   |        |             |   |                     |                      |              |                       |                    |  |                                   |                                    |   |
| 31-33               | Manufacturing   | 2      | 315         | 89  | 6 862               | 210 024              | 4 435        | 8 495                 | 121 023            | 447 426                                    | 470 427                           | 927 544                            | 30 099  |
| 31-33               | Food mfg  | -      | 28          | 16  | 1 320               | 40 021               | 4 435<br>631 | <b>6 495</b><br>1 114 | 17 055             | 110 787                                    | 128 872                           | 239 662                            | 8 858   |
| 3118<br>31181       | Bakeries & tortilla mfg<br>Bread & bakery product     | -      | 13          | 9   | f                   | D                    | D            | D                     | D                  | D  | D                                 | D                                  | D   |
| 311812              | mfg<br>Commercial bakeries .                          | -      | 9<br>7      | 6<br>5                                    | f<br>f              | D<br>D               | D<br>D       | D<br>D                | D<br>D             | D<br>D                                     | D<br>D                            | D<br>D                             | D<br>D  |
| 323                 | Printing & related support<br>activities              | 2      | 48          | 8   | 587                 | 14 552               | 375          | 643                   | 8 334              | 34 068                                     | 13 806                            | 47 811                             | 2 844   |
| 3231                | Printing & related support activities                 | 2      | 48          | 8   | 587                 | 14 552               | 375          | 643                   | 8 334              | 34 068                                     | 13 806                            | 47 811                             | 2 844   |
| 32311<br>332        | Printing  | 2<br>2 | 42          | 8   | 562                 | 13 906               | 355          | 607                   | 7 849              | 32 749                                     | 13 502                            | 46 190                             | 2 790   |
| 332                 | Fabricated metal product mfg                          | 2      | 65          | 16  | 811                 | 22 365               | 626          | 1 112                 | 14 513             | 44 400                                     | 41 669                            | 86 178                             | 2 668   |
| 333                 | Machinery mfg   | 1      | 21          | 2   | 526                 | 17 717               | 354          | 587                   | 9 984              | 27 350                                     | 20 000                            | 47 269                             | 914   |
| 336                 | Transportation equipment mfg                          | 3      | 32          | 12  | g                   | D                    | D            | D                     | D                  | D  | D                                 | D                                  | 3 133   |
| 3364                | Aerospace product & parts mfg                         | 1      | 6           | 2   | f                   | D                    | D            | D                     | D                  | D  | D                                 | D                                  | D   |
| 33641               | Aerospace product &<br>parts mfg                      | 1      | 6           | 2   | f                   | D                    | D            | D                     | D                  | D  | D                                 | D                                  | D   |
| 336413              | Other aircraft part &<br>auxiliary equipment<br>mfg   | 1      | 6           | 2   | f                   | D                    | D            | D                     | D                  | D  | D                                 | D                                  | D   |
|                     | SUMNER, WA  |        |             | -   |                     |                      |              | D                     | D                  | 5  | D                                 | U                                  |   |
| 31-33               | Manufacturing   | _      | 26          | 15  | 1 504               | 37 193               | 1 293        | 2 555                 | 29 492             | 97 435                                     | 170 026                           | 265 876                            | 5 362   |
| 321                 | Wood product mfg                                      | -      | 8           | 6   | 519                 | 11 243               | 442          | 867                   | 9 241              | 30 492                                     | 42 901                            | 74 991                             | 426   |
|                     | SUNNYSIDE, WA   |        |             |   |                     |                      |              |                       |                    |  |                                   |                                    |   |
| 31-33               | Manufacturing   | -      | 16          | 6   | 543                 | 14 117               | 445          | 761                   | 9 536              | 64 920                                     | 147 511                           | 210 957                            | 14 434  |
|                     | TACOMA, WA  |        |             |   |                     |                      |              |                       |                    |  |                                   |                                    |   |
| 31-33               | Manufacturing   | 1      | 276         | 104                                       | 10 894              | 363 498              | 8 320        | 17 358                | 250 449            | 1 037 083                                  | 1 585 468                         | 2 625 635                          | 87 482  |
| 311                 | Food mfg  | 2      | 21          | 9   | 1 182               | 33 388               | 914          | 2 064                 | 24 839             | 236 164                                    | 267 465                           | 505 488                            | 12 297  |
| 321                 | Wood product mfg                                      | -      | 28          | 13  | 1 859               | 53 809               | 1 494        | 3 088                 | 38 628             | 103 112                                    | 284 921                           | 388 296                            | 9 419   |
| 3211                | Sawmills & wood preservation                          | _      | 10          | 7   | 1 106               | 35 506               | 829          | 1 777                 | 23 956             | 74 786                                     | 217 901                           | 293 907                            | 6 056   |
| 32111               | Sawmills & wood preservation                          | -      | 10          | 7   | 1 106               | 35 506               | 829          | 1 777                 | 23 956             | 74 786                                     | 217 901                           | 293 907                            | 6 056   |
| 321113<br>3219      | Sawmills<br>Other wood product mfg                    | _      | 9<br>16     | 6<br>5                                    | f                   | D                    | D            | D                     | D                  | D  | D                                 | D                                  | D   |
| 32191               | Millwork  | -      | 12          | 5   | 561                 | 13 178               | 511          | 1 000                 | 11 175             | 23 406                                     | 32 368                            | 55 568                             | D   |
| 322<br>3221         | Paper mfg<br>Pulp, paper, & paperboard                | -      | 11          | 6   | 870                 | 39 444               | 646          | 1 286                 | 28 331             | 94 251                                     | 173 230                           | 269 972                            | D   |
| 32213<br>322130     | mills<br>Paperboard mills<br>Paperboard mills         |        | 2<br>2<br>2 | 2<br>2<br>2                               | f<br>f<br>f         | D<br>D<br>D          | D<br>D<br>D  | D<br>D<br>D           | D<br>D<br>D        | D<br>D<br>D                                |                                   | D<br>D<br>D                        | D<br>D<br>D                                     |
| 326                 | Plastics & rubber products mfg                        | 3      | 17          | 10  | 738                 | 22 850               | 605          | 1 228                 | 16 332             | 59 262                                     | 73 966                            | 133 619                            | 11 437  |
| 3261                | Plastics product mfg                                  | 3      | 16          | 10  | f                   | D                    | D            | D                     | D                  | D  | D                                 | D                                  | D   |
| 327                 | Nonmetallic mineral product mfg                       | 1      | 15          | 8   | 755                 | 26 008               | 594          | 1 257                 | 17 828             | 76 445                                     | 69 336                            | 144 879                            | 5 183   |
|                     |   | 1      | 6           | 3   | f                   | D                    | D            | D                     | D                  | D  | D                                 | D                                  | D   |

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

|                     | nbols, see introductory text]                              |                     |                       |   |                      |                          |                      |                        |                          |  |                                   |                                    |   |
|---------------------|--|---------------------|-----------------------|---|----------------------|--------------------------|----------------------|------------------------|--------------------------|--|-----------------------------------|------------------------------------|---|
|                     |  |                     | All<br>establishments |   | All employees        |                          | Production workers   |                        |                          |  |                                   |                                    |   |
| NAICS<br>code       | Geographic area and industry                               | /<br>E <sup>1</sup> | Total                 | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup>  | Payroll<br>(\$1,000)     | Number               | Hours<br>(1,000)       | Wages<br>(\$1,000)       | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
| 31-33               | TACOMA, WA-Con.<br>Manufacturing-<br>Con.                  |                     |                       |   |                      |                          |                      |                        |                          |  |                                   |                                    |   |
| 332                 | Fabricated metal product                                   | 1                   | 39                    | 11  | 648                  | 22 673                   | 501                  | 1 008                  | 15 569                   | 40 488                                     | 35 003                            | 75 142                             | 2 290   |
| 336                 | Transportation equipment<br>mfg                            | 1                   | 23                    | 12  | g                    | D                        | D                    | D                      | D                        | D  | D                                 | D                                  | 4 982   |
|                     | TOPPENISH, WA  |                     |                       |   |                      |                          |                      |                        |                          |  |                                   |                                    |   |
| 31-33               | Manufacturing  | -                   | 4                     | 2   | f                    | D                        | D                    | D                      | D                        | D  | D                                 | D                                  | D   |
|                     | TUKWILA, WA  |                     |                       |   |                      |                          |                      |                        |                          |  |                                   |                                    |   |
| 31-33               | Manufacturing  | 3                   | 93                    | 37  | 2 645                | 91 702                   | 1 829                | 3 494                  | 52 052                   | 200 283                                    | 209 626                           | 406 090                            | 8 726   |
|                     | TUMWATER, WA   |                     |                       |   |                      |                          |                      |                        |                          |  |                                   |                                    |   |
| 31-33               | Manufacturing  | -                   | 31                    | 13  | 958                  | 28 452                   | 728                  | 1 384                  | 18 500                   | 97 705                                     | 157 846                           | 252 313                            | 18 148  |
|                     | UNION GAP, WA  |                     |                       |   |                      |                          |                      |                        |                          |  |                                   |                                    |   |
| 31-33               | Manufacturing  | 1                   | 20                    | 12  | 885                  | 23 996                   | 716                  | 1 242                  | 16 225                   | 50 889                                     | 92 956                            | 146 047                            | 6 425   |
|                     | VANCOUVER, WA  |                     |                       |   |                      |                          |                      |                        |                          |  |                                   |                                    |   |
| <b>31-33</b><br>311 | Manufacturing  | -                   | <b>193</b><br>11      | <b>74</b><br>4                            | <b>13 073</b><br>931 | <b>494 024</b><br>39 205 | <b>10 504</b><br>750 | <b>20 872</b><br>1 686 | <b>355 323</b><br>21 836 | 1 316 796<br>155 875                       | <b>1 229 854</b><br>178 285       | <b>2 515 908</b><br>333 201        | D   |
| 3119<br>31191       | Other food mfg<br>Snack food mfg<br>Other snack food mfg . | _                   | 2                     | 1   | f                    | D                        | D                    | D                      | D                        | D  | D                                 | D                                  | D   |
| 311919              |  | -                   | 1                     | 1   | f                    | D<br>D                   | D                    | D                      | D                        | D  | D                                 | D<br>D                             | D   |
| 322<br>3222         | Paper mfg<br>Converted paper product                       | -                   | 10                    | 9   | f                    | D                        | D                    | D                      | D                        | D  | D                                 | D                                  | D   |
| 326                 | mfg<br>Plastics & rubber products                          | -                   | 10                    | 7   | 632                  | 18 635                   | 364                  | 741                    | 9 647                    | 36 612                                     | 31 688                            | 69 296                             | D   |
| 3261                | Plastics product mfg                                       | _                   | 10                    | 7   | 632                  | 18 635                   | 364                  | 741                    | 9 647<br>9 647           | 36 612                                     | 31 688                            | 69 296<br>69 296                   | D   |
| 32619<br>326199     | Other plastics product<br>mfg<br>All other plastics        | -                   | 6                     | 5   | f                    | D                        | D                    | D                      | D                        | D  | D                                 | D                                  | D   |
| 332                 | product mfg<br>Fabricated metal product                    | -                   | 6                     | 5   | f                    | D                        | D                    | D                      | D                        | D  | D                                 | D                                  | D   |
| 333                 | mfg  | -                   | 33<br>22              | 14<br>5                                   | 1 140<br>831         | 34 546<br>31 827         | 892<br>468           | 1 654<br>824           | 24 294<br>14 194         | 66 178<br>52 400                           | 53 237<br>59 655                  | 118 901<br>115 519                 | D   |
| 334                 | Machinery mfg  | -                   | 22                    | 5   | 031                  | 31 027                   | 400                  | 024                    | 14 194                   | 52 400                                     | 59 655                            | 115 519                            | U   |
| 3341                | product mfg<br>Computer & peripheral                       | -                   | 12                    | 7   | i                    | D                        | D                    | D                      | D                        | D  | D                                 | D                                  | D   |
| 33411               | equipment mfg<br>Computer & peripheral<br>equipment mfg    | -                   | 1                     | 1   | h<br>h               | D                        | D                    | D                      | D                        | D  | D                                 | D                                  | D   |
| 334119              | Other computer<br>peripheral equipment                     | _                   |                       |   |                      |                          |                      |                        |                          |  |                                   |                                    |   |
| 3344                | mfg<br>Semiconductor & other                               | -                   | 1                     | 1   | h                    | D                        | D                    | D                      | D                        | D  | D                                 | D                                  | D   |
| 33441               | electronic component<br>mfg<br>Semiconductor & other       | -                   | 4                     | 3   | h                    | D                        | D                    | D                      | D                        | D  | D                                 | D                                  | D   |
| 334413              | electronic component<br>mfg<br>Semiconductor &             | -                   | 4                     | 3   | h                    | D                        | D                    | D                      | D                        | D  | D                                 | D                                  | D   |
| 334414              | related device mfg<br>Electronic capacitor                 | -                   | 1                     | 1   | g                    | D                        | D                    | D                      | D                        | D  | D                                 | D                                  | D   |
|                     | mfg<br>WALLA WALLA, WA                                     | -                   | 1                     | 1   | ť                    | D                        | D                    | D                      | D                        | D  | D                                 | D                                  | D   |
| 31-33               | Manufacturing  | 1                   | 43                    | 9   | 1 137                | 31 234                   | 928                  | 1 829                  | 21 799                   | 95 598                                     | 57 016                            | 154 668                            | 4 536   |
|                     | WASHOUGAL, WA  |                     |                       |   |                      |                          |                      |                        |                          |  |                                   |                                    |   |
| 31-33               | Manufacturing  | 1                   | 25                    | 14  | 929                  | 27 243                   | 691                  | 1 169                  | 17 908                   | 59 568                                     | 106 220                           | 168 164                            | 3 574   |
|                     | WENATCHEE, WA  |                     |                       |   |                      |                          |                      |                        |                          |  |                                   |                                    |   |
| 31-33               | Manufacturing  | 1                   | 32                    | 7   | 621                  | 13 496                   | 520                  | 954                    | 10 041                   | 42 191                                     | 29 282                            | 71 571                             | 1 170   |
|                     | WOODINVILLE, WA *  |                     |                       |   |                      |                          |                      |                        |                          |  |                                   |                                    |   |
| 31-33               | Manufacturing  | -                   | 86                    | 28  | 1 832                | 56 356                   | 1 223                | 2 237                  | 27 677                   | 227 282                                    | 161 853                           | 363 842                            | 31 479  |

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

| -             |   |                |                       |   |                     |                      |                    |                  |                    |  |                                   |                                    |   |
|---------------|---|----------------|-----------------------|---|---------------------|----------------------|--------------------|------------------|--------------------|--|-----------------------------------|------------------------------------|---|
|               |   |                | All<br>establishments |   | All employees       |                      | Production workers |                  |                    |  |                                   |                                    |   |
| NAICS<br>code | Geographic area and industry                          | E <sup>1</sup> | Total                 | With 20<br>em-<br>ploy-<br>ees or<br>more | Number <sup>2</sup> | Payroll<br>(\$1,000) | Number             | Hours<br>(1,000) | Wages<br>(\$1,000) | Value added by<br>manufacture<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Total capital<br>expendi-<br>tures<br>(\$1,000) |
|               | WOODLAND, WA *  |                |                       |   |                     |                      |                    |                  |                    |  |                                   |                                    |   |
| 31-33         | Manufacturing   | -              | 17                    | 9   | 810                 | 26 285               | 561                | 1 216            | 15 517             | 77 762                                     | 102 061                           | 181 174                            | 3 174   |
|               | YAKIMA, WA  |                |                       |   |                     |                      |                    |                  |                    |  |                                   |                                    |   |
| 31-33         | Manufacturing   | -              | 102                   | 34  | 4 624               | 123 996              | 3 513              | 6 815            | 85 724             | 320 084                                    | 430 304                           | 747 679                            | 38 129  |
| 311           | Food mfg  | -              | 6                     | 4   | 625                 | 14 394               | 596                | 1 167            | 11 430             | 51 725                                     | 53 743                            | 105 594                            | D   |
| 3114          | Fruit & vegetable<br>preserving & specialty           |                |                       |   |                     |                      |                    |                  |                    |  |                                   |                                    |   |
| 31142         | food mfg<br>Fruit & vegetable<br>canning, pickling, & | -              | 3                     | 3   | f                   | D                    | D                  | D                | D                  | D  | D                                 | D                                  | D   |
| 311421        | drying<br>Fruit & vegetable                           | -              | 3                     | 3   | f                   | D                    | D                  | D                | D                  | D  |                                   | D                                  | D   |
|               | canning   |                | 2                     | 2   | f                   | D                    | D                  | D                | D                  | D  | _                                 | D                                  | D   |
| 321           | Wood product mfg                                      | -              | 10                    | 5   | 566                 | 17 198               | 501                | 984              | 14 715             | 28 777                                     | 107 716                           | 134 869                            | D   |
| 326           | Plastics & rubber products mfg                        | -              | 6                     | 4   | 861                 | 23 927               | 703                | 1 530            | 16 543             | 62 376                                     | 86 244                            | 147 774                            | D   |
| 3261          | Plastics product mfg                                  | -              | 6                     | 4   | 861                 | 23 927               | 703                | 1 530            | 16 543             | 62 376                                     | 86 244                            | 147 774                            | D   |
| 332           | Fabricated metal product mfg                          | -              | 13                    | 3   | 518                 | 16 401               | 302                | 534              | 10 683             | 32 786                                     | 17 664                            | 49 509                             | 1 843   |
| 333           | Machinery mfg   | 8              | 12                    | 3   | 594                 | 14 701               | 346                | 463              | 7 018              | 32 315                                     | 27 672                            | 60 122                             | 2 166   |

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to as percent; 9–90 percent or more of the figures shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 500 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: c–100 to 24 employees; –250 to 499 employees; f–500 to 999 employees; g–1,000 to 2,499 employees; k–25,000 to 49,999 employees; I–50,000 to 9,999 employees; m–100,000 employees or more.

## Table 5. Detailed Statistics for the State: 1997

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

| Item   | Value   | Item  | Value   |
|--|---|---|---|
| WASHINGTON   |   | WASHINGTON-Con.   |   |
| Companies <sup>1</sup> number  | 7 396   | Quantity of electricity purchased for heat and power  | 35 770 643<br>1 032 478   |
| All establishments       number.         Establishments with 1 to 19 employees       number.         Establishments with 20 to 99 employees       number.         Establishments with 100 employees or more       number.         All employees       number.         All employees       number.         Stablishments with 100 employees or more       number.         All employees       number.         Total compensation <sup>2</sup> \$1,000.         Annual payroll.       \$1,000.         Total fringe benefits       \$1,000.         Production workers, average for year       number. | 7 801<br>5 642<br>1 586<br>573<br>328 511<br>16 068 448<br>13 004 063<br>3 064 385<br>213 330 | Total inventories, beginning of year       \$1,000.         Finished goods inventories, beginning of year       \$1,000.         Work-in-process inventories, beginning of year       \$1,000.         Materials and supplies inventories, beginning of year       \$1,000.         Total inventories, end of year       \$1,000.         Finished goods inventories, beginning of year       \$1,000.         Work-in-process inventories, end of year       \$1,000.         Finished goods inventories, end of year       \$1,000.         Work-invercess inventories and of year       \$1,000. | 78 852 486<br>2 910 220<br>30 434 838<br>17 679 809<br>2 558 362<br>12 243 713<br>2 877 734<br>18 978 031<br>2 764 436<br>12 666 104<br>3 547 491 |
| Production workers on March 12       number.         Production workers on May 12       number.         Production workers on August 12       number.         Production workers on November 12       number.         Production-worker hours       1,000.         Production-worker wages       \$1,000.  | 207 630<br>211 130<br>215 548<br>219 012<br>425 003<br>7 046 371                              | Gross book value of total assets at beginning of year\$1,000<br>Total capital expenditures (new and used)\$1,000<br>Capital expenditures for buildings and other structures<br>(new and used)\$1,000<br>Capital expenditures for machinery and equipment (new<br>and used)\$1,000<br>Total retirements <sup>2</sup> \$1,000.  | 34 258 096<br>2 640 230<br>694 020<br>1 946 210<br>935 405  |
| Total cost of materials         \$1,000.           Cost of materials, parts, containers, etc., consumed         \$1,000.           Cost of resales         \$1,000.           Cost of fuels         \$1,000.           Cost of contract work         \$1,000.  | 49 023 723<br>44 006 071<br>2 476 282<br>346 903<br>984 399<br>1 210 068                      | Gross book value of total assets at end of year   | 35 962 921<br>2 230 595<br>545 475<br>300 584<br>244 891  |

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control. <sup>2</sup>These items are collected in the ASM and estimated for the remaining establishments.

## Appendix A. Explanation of Terms

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

Respondents were asked to report their beginning-ofyear 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:

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

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

# Duplication in Cost of Materials and Value of Shipment

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

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

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

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

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

## **DEPRECIATION CHARGES FOR FIXED ASSETS**

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

## **EMPLOYEES**

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

#### **Production Workers**

This item includes workers (up through the linesupervisor 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 companyoperated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees.

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

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

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

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

#### NUMBER OF ESTABLISHMENTS AND COMPANIES

A separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

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

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

## PAYROLL

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

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

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

#### **PRODUCTION-WORKER HOURS**

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

## QUANTITY OF ELECTRIC ENERGY CONSUMED FOR HEAT AND POWER

Data on the cost of purchased electric energy were collected on all census forms. However, data on the quantity of purchased electric energy were collected only on the Annual Survey of Manufactures (ASM) form. In addition, information is collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.

#### **RENTAL PAYMENTS**

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

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

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

#### **RETIREMENTS OF DEPRECIABLE ASSETS**

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

#### TOTAL CAPITAL EXPENDITURES (NEW AND USED)

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

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

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

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

## VALUE ADDED

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

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

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

#### VALUE OF SHIPMENTS

This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and sold without further processing. Included are all items made by or for the establishments from material owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials. In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, including not only the direct cost of production but also a reasonable proportion of "all other costs" (including company overhead) and profit.

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

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

# Duplication in Cost of Materials and Value of Shipment

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

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

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

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

## Appendix B. NAICS Codes, Titles, and Descriptions

#### SECTOR 31-33 MANUFACTURING

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

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

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

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

The subsectors in the Manufacturing sector generally reflect distinct production processes related to material inputs, production equipment, and employee skills. In the machinery area, where assembling is a key activity, parts and accessories for manufactured products are classified in the industry of the finished manufactured item when they are made for separate sale. For example, a replacement refrigerator door would be classified with refrigerators and an attachment for a piece of metal working machinery would be classified with metal working machinery. However, components, input from other manufacturing establishments, are classified based on the production function of the component manufacturer. For example, electronic components are classified in Subsector 334, Computer and Electronic Product Manufacturing and stampings are classified in Subsector 332, Fabricated Metal Product Manufacturing.

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

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

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

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

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

## **311 Food Manufacturing**

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

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

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

## **3111 Animal Food Manufacturing**

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

## **31111 Animal Food Manufacturing**

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

## 311111 Dog and Cat Food Manufacturing

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

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

2047 Dog and cat food

## **311119 Other Animal Food Manufacturing**

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

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

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

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

## 3112 Grain and Oilseed Milling

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

## **31121 Flour Milling and Malt Manufacturing**

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

## 311211 Flour Milling

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

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

- 2034 Dehydrated fruits, vegetables, and soup mixes (pt)
- 2041 Flour and other grain mill products

## 311212 Rice Milling

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

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

2044 Rice milling

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

## 311213 Malt Manufacturing

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

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

2083 Malt

#### 31122 Starch and Vegetable Fats and Oils Manufacturing

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

#### 311221 Wet Corn Milling

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

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

2046 Wet corn milling

#### 311222 Soybean Processing

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

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

#### 2075 Soybean oil mills (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 311222 do not include establishments primarily engaged in the processing of soybean oil from soybeans crushed in the same establishment. The NAICS definitions will be fully implemented with the 2002 Economic Census.

#### **311223 Other Oilseed Processing**

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

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

2074 Cottonseed oil mills (pt)

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

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

#### 311225 Fats and Oils Refining and Blending

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

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

2074 Cottonseed oil mills (pt)

2075 Soybean oil mills (pt)

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

2077 Animal and marine fats and oil (pt)

2079 Shortening and cooking oils

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

#### 31123 Breakfast Cereal Manufacturing

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

## 311230 Breakfast Cereal Manufacturing

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

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

2043 Cereal breakfast foods (pt)

## 3113 Sugar and Confectionery Product Manufacturing

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

## **31131 Sugar Manufacturing**

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

## 311311 Sugarcane Mills

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

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

2061 Raw cane sugar

## 311312 Cane Sugar Refining

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

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

2062 Cane sugar refining

## 311313 Beet Sugar Manufacturing

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

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

2063 Beet sugar

## 31132 Chocolate and Confectionery Manufacturing From Cacao Beans

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

## 311320 Chocolate and Confectionery Manufacturing From Cacao Beans

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

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

2066 Chocolate and cocoa products

## 31133 Confectionery Manufacturing From Purchased Chocolate

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

## 311330 Confectionery Manufacturing From Purchased Chocolate

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

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

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

5441 Candy, nut, and confectionery stores (pt)

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

## 3113301 Chocolate and Chocolate-type Confectionery Retail – Manufacturer

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

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## 3113302 Chocolate and Chocolate-type Confectionery – Manufacturer

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

## 31134 Nonchocolate Confectionery Manufacturing

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

## 311340 Nonchocolate Confectionery Manufacturing

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

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

- 2064 Candy and other confectionery products and chewing gum (pt)
- 2099 Food preparations, n.e.c. (pt)
- 5441 Candy, nut, and confectionery stores (pt)

## 3113401 Nonchocolate-Type Confectionery Products Retail – Manufacturer

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

## 3113402 Nonchocolate-Type Confectionery Products – Manufacturer

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

## 3114 Fruit and Vegetable Preserving and Specialty Food Manufacturing

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

## **31141 Frozen Food Manufacturing**

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

## 311411 Frozen Fruit, Juice, and Vegetable Manufacturing

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

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

2037 Frozen fruits and vegetables

## **311412 Frozen Specialty Food Manufacturing**

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

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

2038 Frozen specialties, n.e.c.

## 31142 Fruit and Vegetable Canning, Pickling, and Drying

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

## 311421 Fruit and Vegetable Canning

This U.S. industry comprises establishments primarily engaged in manufacturing canned, pickled, and brined fruits and vegetables. Examples of products made in these establishments are canned juices; canned jams and jellies; canned tomato-based sauces, such as catsup, salsa, chili, spaghetti, barbeque, and tomato paste; pickles, relishes, and sauerkraut. The data published with NAICS code 311421 include the following SIC industries:

2033 Canned fruits and vegetables

2035 Pickles, sauces, and salad dressings (pt)

## 311422 Specialty Canning

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

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

2032 Canned specialties (pt)

## 311423 Dried and Dehydrated Food Manufacturing

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

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

2034 Dehydrated fruits, vegetables, and soups (pt)

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

## **3115 Dairy Product Manufacturing**

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

31151 Dairy Product (Except Frozen) Manufacturing

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

## 311511 Fluid Milk Manufacturing

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

The data published with NAICS code 31511 include the following SIC industry:

2026 Fluid milk

## **311512 Creamery Butter Manufacturing**

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

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

2021 Creamery butter

## 311513 Cheese Manufacturing

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

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

2022 Cheese, natural and processed

## 311514 Dry, Condensed, and Evaporated Dairy Product Manufacturing

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

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

2023 Dry, condensed and evaporated milk

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

## 31152 Ice Cream and Frozen Dessert Manufacturing

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

## 311520 Ice Cream and Frozen Dessert Manufacturing

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

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

2024 Ice cream and frozen desserts

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## **3116 Meat Product Manufacturing**

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

## 31161 Animal Slaughtering and Processing

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

#### 311611 Animal (Except Poultry) Slaughtering

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

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

2011 Meat packing plants

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

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

## **311612 Meat Processed From Carcasses**

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

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

2013 Sausages and other prepared meats

5147 Meat and meat products (pt)

#### 311613 Rendering and Meat Byproduct Processing

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

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

2077 Animal and marine fats and oil (pt)

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

#### **311615 Poultry Processing**

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

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

2015 Poultry and egg processing (pt)

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

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

#### **31171 Seafood Product Preparation and Packaging**

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

#### 311711 Seafood Canning

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

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

2077 Animal and marine fats and oil (pt)

2091 Canned and cured seafood

#### **311712 Fresh and Frozen Seafood Processing**

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) eviscerating fresh fish by removing heads, fins, scales, bones, and entrails; (2) shucking and packing fresh shellfish; (3) manufacturing frozen seafood; and (4) processing fresh and frozen marine fats and oils.

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

2077 Animal and marine fats and oil (pt)

2092 Prepared fresh or frozen fish and seafood

## **3118 Bakeries and Tortilla Manufacturing**

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

## 31181 Bread and Bakery Product Manufacturing

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

## 311811 Retail Bakeries

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

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

5461 Retail bakeries (pt)

## **311812 Commercial Bakeries**

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

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

2051 Bread, cake, and related products

2052 Cookies and crackers (pt)

## 311813 Frozen Cakes, Pies, and Other Pastries Manufacturing

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

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

2053 Frozen bakery products, except bread

## 31182 Cookie, Cracker, and Pasta Manufacturing

This industry comprises establishments primarily engaged in one of the following: (1) manufacturing cookies and crackers; (2) preparing flour and dough mixes and dough from flour ground elsewhere; and (3) manufacturing dry pasta. The establishments in this industry may package the dry pasta they manufacture with other ingredients.

## 311821 Cookie and Cracker Manufacturing

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

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

2052 Cookies and crackers (pt)

## 311822 Flour Mixes and Dough Manufacturing From Purchased Flour

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

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

2045 Blended and prepared flour

## 311823 Dry Pasta Manufacturing

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

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

2098 Macaroni and spaghetti

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

## 31183 Tortilla Manufacturing

This industry comprises establishments primarily engaged in manufacturing tortillas.

## 311830 Tortilla Manufacturing

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

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

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

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## **3119 Other Food Manufacturing**

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

## **31191 Snack Food Manufacturing**

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

#### 311911 Roasted Nuts and Peanut Butter Manufacturing

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

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

2068 Salted and roasted nuts and seeds

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

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

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

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

2052 Cookies and crackers (pt)

2096 Potato chips and similar snacks

#### **31192 Coffee and Tea Manufacturing**

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

#### 311920 Coffee and Tea Manufacturing

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

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

2043 Cereal breakfast foods (pt)

2095 Roasted coffee (pt)

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

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

## 31193 Flavoring Syrup and Concentrate Manufacturing

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

## 311930 Flavoring Syrup and Concentrate Manufacturing

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

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

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

#### **31194 Seasoning and Dressing Manufacturing**

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

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## 311941 Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing

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

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

2035 Pickles, sauces, and salad dressings (pt)

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

## 311942 Spice and Extract Manufacturing

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

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

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

2095 Roasted coffee (pt)

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

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

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

## **31199 All Other Food Manufacturing**

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

## 311991 Perishable Prepared Food Manufacturing

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

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

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

## 311999 All Other Miscellaneous Food Manufacturing

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

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

2015 Poultry slaughtering and processing (pt)

2032 Canned specialties (pt)

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

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

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

## 312 Beverage and Tobacco Product Manufacturing

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

In the case of activities related to the manufacture of beverages, the structure follows the defined productive processes. Brandy, a distilled beverage, was not placed under distillery product manufacturing, but rather under the NAICS class for winery product manufacturing since the productive process used in the manufacturing of alcoholic grape-based beverages produces both wines (fermented beverage) and brandies (distilled beverage).

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

## 3121 Beverage Manufacturing

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

## 31211 Soft Drink and Ice Manufacturing

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

## 312111 Soft Drink Manufacturing

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

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

2086 Bottled and canned soft drinks (pt)

## 312112 Bottled Water Manufacturing

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

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

2086 Bottled and canned soft drinks (pt)

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

## 312113 Ice Manufacturing

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

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

2097 Manufactured ice

## 31212 Breweries

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

## 312120 Breweries

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

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

2082 Malt beverages

## **31213 Wineries**

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

## 312130 Wineries

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

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

2084 Wines, brandy, and brandy spirits

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

## **31214 Distilleries**

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

## 312140 Distilleries

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

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

2085 Distilled liquor, except brandy

## 3122 Tobacco Manufacturing

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

## 31221 Tobacco Stemming and Redrying

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

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

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

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

2141 Tobacco stemming and redrying (pt)

#### **31222 Tobacco Product Manufacturing**

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

#### 312221 Cigarette Manufacturing

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

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

2111 Cigarettes

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

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

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

2121 Cigars

2131 Chewing and smoking tobacco

2141 Tobacco stemming and redrying (pt)

#### **313 Textile Mills**

Industries in the Textile Mills subsector group establishments that transform a basic fiber (natural or synthetic) into a product, such as yarn or fabric, that is further manufactured into usable items, such as apparel, sheets and towels, and textile bags for individual or industrial consumption. The further manufacturing may be performed in the same establishment and classified in this subsector, or it may be performed at a separate establishment and be classified elsewhere in manufacturing. The main processes in this subsector include preparation and spinning of fiber, knitting or weaving of fabric, and the finishing of the textile. The NAICS structure follows and captures this process flow. Major industries in this flow, such as preparation of fibers, weaving of fabric, knitting of fabric, and fiber and fabric finishing, are uniquely identified. Texturizing, throwing, twisting, and winding of yarn contains aspects of both fiber preparation and fiber finishing and is classified with preparation of fibers rather than with finishing of fibers.

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

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

#### 3131 Fiber, Yarn, and Thread Mills

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

#### 31311 Fiber, Yarn, and Thread Mills

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

#### 313111 Yarn Spinning Mills

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

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

2281 Yarn spinning mills

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

## 313112 Yarn Texturizing, Throwing, and Twisting Mills

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

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

2282 Yarn throwing and winding mills (pt)

## 3131121 Yarn Texturing, Throwing, and Twisting Mills - Manufacturer

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

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

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

## 313113 Thread Mills

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

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

2284 Thread mills (pt)

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

## 3132 Fabric Mills

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

## 31321 Broadwoven Fabric Mills

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

## 313210 Broadwoven Fabric Mills

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

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

2211 Weaving mills, cotton

2221 Weaving mills, synthetics

2231 Weaving and finishing mills, wool (pt)

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

## 31322 Narrow Fabric Mills and Schiffli Machine Embroidery

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

## 313221 Narrow Fabric Mills

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

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

2241 Narrow fabric mills

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

## 313222 Schiffli Machine Embroidery

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

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

2397 Schiffli machine embroideries

## 31323 Nonwoven Fabric Mills

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

## 313230 Nonwoven Fabric Mills

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

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

2297 Nonwoven fabrics

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

## 31324 Knit Fabric Mills

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

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

## 313241 Weft Knit Fabric Mills

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

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

2257 Circular knit fabric mills (pt)

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

## 3132411 Weft Knit Fabric Mills – Manufacturer

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

## 3132412 Weft Knit Fabric Mills - Jobber

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

## 3132413 Weft Knit Fabric Mills - Contractor

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

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

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

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

2258 Lace and warp knit fabric mills (pt) 2259 Knitting mills, n.e.c. (pt)

## 3132491 Other Knit Fabric and Lace Mills – Manufacturer

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

## 3132492 Other Knit Fabric and Lace Mills - Jobber

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

## 3132493 Other Knit Fabric and Lace Mills -Contractor

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

## 3133 Textile and Fabric Finishing and Fabric Coating Mills

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

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

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

## 313311 Broadwoven Fabric Finishing Mills

This U.S. industry comprises (1) establishments primarily engaged in finishing broadwoven fabrics and (2) establishments of converters who buy broadwoven fabrics in the grey, have them finished on contract, and sell at wholesale. Finishing operations include bleaching, dyeing, printing (e.g., roller, screen, flock, plisse), and other mechanical finishing, such as preshrinking, shrinking, sponging, calendering, mercerizing and napping. The data published with NAICS code 313311 include the following SIC industries:

2231 Weaving and finishing mills, wool (pt)

2261 Finishing plants, cotton

2262 Finishing plants, synthetics

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

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

## 3133111 Broadwoven Fabric Finishing Mills -Manufacturer

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

## 3133112 Broadwoven Fabric Finishing Mills -Converter

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

## 3133113 Broadwoven Fabric Finishing Mills – Commission Finisher

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

## 313312 Textile and Fabric Finishing (Except Broadwoven Fabric) Mills

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

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

2231 Weaving and finishing mills, wool (pt)

2257 Circular knit fabric mills (pt)

2258 Lace and warp knit fabric mills (pt)

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

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

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

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

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

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

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

## **31332 Fabric Coating Mills**

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

## **313320 Fabric Coating Mills**

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

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

2295 Coated fabrics, not rubberized

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

## **314 Textile Product Mills**

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

## **3141 Textile Furnishings Mills**

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

## **31411 Carpet and Rug Mills**

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

## **314110 Carpet and Rug Mills**

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

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

2273 Carpets and rugs

## **31412 Curtain and Linen Mills**

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

## **314121 Curtain and Drapery Mills**

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

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

2391 Curtains and draperies

5714 Drapery and upholstery stores (pt)

## **314129 Other Household Textile Product Mills**

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

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

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

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 314129 do not include establishments primarily engaged in the making of custom slip covers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## **3149 Other Textile Product Mills**

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

## **31491 Textile Bag and Canvas Mills**

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

## 314911 Textile Bag Mills

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

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

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

2393 Textile bags

## **314912 Canvas and Related Product Mills**

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

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

2394 Canvas and related products

## **31499 All Other Textile Product Mills**

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

## 314991 Rope, Cordage, and Twine Mills

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

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

2298 Cordage and twine

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## 314992 Tire Cord and Tire Fabric Mills

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

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

2296 Tire cord and fabric

## 314999 All Other Miscellaneous Textile Product Mills

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

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

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

2395 Pleating and stitching (pt)

2396 Automotive and apparel trimmings (pt)

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

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

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

## **315 Apparel Manufacturing**

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

## **3151 Apparel Knitting Mills**

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

## **31511 Hosiery and Sock Mills**

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

## 315111 Sheer Hosiery Mills

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

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

2251 Women's hosiery, except socks

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

## **315119 Other Hosiery and Sock Mills**

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

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

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

## **31519 Other Apparel Knitting Mills**

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

## **315191 Outerwear Knitting Mills**

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) knitting outerwear; (2) knitting fabric and manufacturing outerwear; and (3) knitting, manufacturing, and finishing knit outerwear. Examples of products made in knit outerwear mills are shirts, shorts, sweat suits, sweaters, gloves, and pants. The data published with NAICS code 315191 include the following SIC industries:

2253 Knit outerwear mills

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

## 3151911 Outerwear Knitting Mills - Manufacturer

Establishments primarily engaged in knitting outerwear clothing.

## 3151912 Outerwear Knitting Mills - Jobber

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

## 3151913 Outerwear Knitting Mills - Contractor

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

## 315192 Underwear and Nightwear Knitting Mills

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

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

2254 Knit underwear mills

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

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

## 3152 Cut and Sew Apparel Manufacturing

This industry group comprises establishments primarily engaged in manufacturing cut and sew apparel from woven fabric or purchased knit fabric. Included in this industry group is a diverse range of establishments manufacturing full lines of ready-to-wear apparel and custom apparel: apparel contractors, performing cutting or sewing operations on materials owned by others; jobbers performing entrepreneurial functions involved in apparel manufacture; and tailors, manufacturing custom garments for individual clients. Establishments weaving or knitting fabric, without manufacturing apparel, are classified in Subsector 313, Textile Mills.

## **31521 Cut and Sew Apparel Contractors**

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

# 315211 Men's and Boys' Cut and Sew Apparel Contractors

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

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

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

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

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

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

- 2326 Men's and boys' work clothing (pt)
- 2329 Men's and boys' clothing, n.e.c. (pt)
- 2341 Women's and children's underwear (pt)
- 2384 Robes and dressing gowns (pt)
- 2385 Waterproof outer garments (pt)
- 2395 Pleating and stitching (pt)

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

## 315212 Women's, Girls', and Infants' Cut and Sew Apparel Contractors

This U.S. industry comprises establishments commonly referred to as contractors primarily engaged in (1) cutting materials owned by others for women's, girls', and infants' apparel and accessories and/or (2) sewing materials owned by others for women's, girls', and infants' apparel and accessories. The data published with NAICS code 315212 include the following SIC industries:

2331 Women's blouses and waists (pt)

2335 Women's dresses (pt)

2337 Women's suits and coats (pt)

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

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

2342 Brassieres and allied garments (pt)

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

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

2384 Robes and dressing gowns (pt)

2385 Waterproof outer garments (pt)

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

2395 Pleating and stitching (pt)

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

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

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

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

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' underwear and nightwear from purchased fabric. Men's and boys' underwear and nightwear jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Examples of products made by these establishments are briefs, bathrobes, underwear T-shirts and shorts, nightshirts, and pajamas. The data published with NAICS code 315221 include the following SIC industries:

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

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

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

2384 Robes and dressing gowns (pt)

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

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

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

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

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

2385 Waterproof outer garments (pt)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2385 Waterproof outer garments (pt)

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

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

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

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

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

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

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

This U.S. industry comprises establishments primarily engaged in manufacturing women's and girls' bras, girdles, and other underwear; lingerie; loungewear; and nightwear from purchased fabric. Women's and girls' lingerie, loungewear, and nightwear jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Examples of products made by these establishments are bathrobes, foundation garments, nightgowns, pajamas, panties, and slips.

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

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

2342 Brassieres and allied garments (pt)

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

2384 Robes and dressing gowns (pt)

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

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

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

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

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

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

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

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

2331 Women's blouses and waists (pt)

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

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

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

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

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

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

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

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

2335 Women's dresses (pt)

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

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

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

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

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

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

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

This U.S. industry comprises establishments primarily engaged in manufacturing women's and girls' suits, pantsuits, skirts, tailored jackets, vests, raincoats, and other tailored coats, (except fur and leather coats) from purchased fabric. Women's and girls' suit, coat, tailored jacket, and skirt jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

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

2337 Women's suits and coats (pt)

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

2385 Waterproof outer garments (pt)

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

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

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

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

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

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

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

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

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

2385 Waterproof outer garments (pt)

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

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

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

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

## 31529 Other Cut and Sew Apparel Manufacturing

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

## 315291 Infants' Cut and Sew Apparel Manufacturing

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

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

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

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

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

2385 Waterproof outer garments (pt)

## 3152911 Infants' Cut and Sew Apparel Manufacturing – Manufacturer

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

## 3152912 Infants' Cut and Sew Apparel Manufacturing – Jobbers

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

## 315292 Fur and Leather Apparel Manufacturing

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

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

2371 Fur goods

2386 Leather and sheep-lined clothing

## 315299 All Other Cut and Sew Apparel Manufacturing

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

demic caps and gowns, clerical vestments, and costumes. The data published with NAICS code 315299 include the following SIC industries:

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

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

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

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 315299 do not include establishments primarily engaged in the manufacture of waterproof rubber and plastic outerwear or rubber pants and raincoats. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## 3152991 All Other Cut and Sew Apparel Manufacturing – Manufacturer

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

## 3152992 All Other Cut and Sew Apparel Manufacturing – Jobbers

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

## 3159 Apparel Accessories and Other Apparel Manufacturing

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

# 31599 Apparel Accessories and Other Apparel Manufacturing

This industry comprises establishments primarily engaged in manufacturing apparel and accessories (except apparel knitting mills, cut and sew apparel contractors, men's and boys' cut and sew apparel, women's and girls' cut and sew apparel, and other cut and sew apparel). Jobbers, who perform entrepreneurial functions involved in apparel accessories manufacture, including buying raw materials, designing and preparing samples, arranging for apparel accessories to be made from their materials, and marketing finished apparel accessories, are included. Examples of products made by these establishments are belts, caps, gloves (except medical, sporting, safety), hats, and neckties.

## 315991 Hat, Cap, and Millinery Manufacturing

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

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

2353 Hats, caps, and millinery

## **315992 Glove and Mitten Manufacturing**

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

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

2381 Fabric gloves and mittens

3151 Leather gloves and mittens

## 315993 Men's and Boys' Neckwear Manufacturing

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

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

2323 Men's and boys' neckwear

## 315999 Other Apparel Accessories and Other Apparel Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing apparel and apparel accessories (except apparel knitting mills; cut and sew apparel contractors; cut and sew apparel; hats and caps; mittens and gloves; and men's and boys' neckwear). Jobbers for these products, who perform entrepreneurial functions involved in other apparel and accessory manufacture, including buying raw materials, designing and preparing samples, arranging for other apparel and accessories to be made from their materials, and marketing finished other apparel and accessories, are included. Examples of products made by these establishments are apparel trimmings and findings, belts, women's scarves, suspenders, and waterproof outerwear.

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

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

2385 Waterproof outer garments (pt)

2387 Apparel belts

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

2396 Automotive and apparel trimmings (pt)

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

5699 Miscellaneous apparel and accessory stores (pt)

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

## **316 Leather and Allied Product Manufacturing**

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

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

#### 3161 Leather and Hide Tanning and Finishing

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

#### **31611 Leather and Hide Tanning and Finishing**

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

#### **316110 Leather and Hide Tanning and Finishing**

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

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

3111 Leather tanning and finishing

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

#### **3162 Footwear Manufacturing**

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

#### **31621 Footwear Manufacturing**

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

## 316211 Rubber and Plastics Footwear Manufacturing

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

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

Rubber and plastics footwear

## **316212 House Slipper Manufacturing**

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

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

3142 House slippers

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

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

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

3143 Men's footwear, except athletic

## 316214 Women's Footwear (Except Athletic) Manufacturing

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

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

3144 Women's footwear, except athletic

## **316219 Other Footwear Manufacturing**

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

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

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

## 3169 Other Leather and Allied Product Manufacturing

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

## 31699 Other Leather and Allied Product Manufacturing

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

## 316991 Luggage Manufacturing

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

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

3161 Luggage

## 316992 Women's Handbag and Purse Manufacturing

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

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

3171 Women's handbags and purses

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

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

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

3172 Personal leather goods, n.e.c.

## **316999 All Other Leather Goods Manufacturing**

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

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

3131 Footwear cut stock and findings (pt)

3199 Leather goods, n.e.c.

## 321 Wood Product Manufacturing

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

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

#### **3211 Sawmills and Wood Preservation**

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

#### **32111 Sawmills and Wood Preservation**

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

#### 321113 Sawmills

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

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

2421 Sawmills and planing mills, general (pt)

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

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

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

#### 321114 Wood Preservation

This U.S. industry comprises establishments primarily engaged in (1) treating wood sawed, planed, or shaped in other establishments with creosote or other preservatives, such as chromated copper arsenate, to prevent decay and to protect against fire and insects and/or (2) sawing round wood poles, pilings, and posts and treating them with preservatives.

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

2491 Wood preserving

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

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

## 32121 Veneer, Plywood, and Engineered Wood Product Manufacturing

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

## 321211 Hardwood Veneer and Plywood Manufacturing

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

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

2435 Hardwood veneer and plywood

## 321212 Softwood Veneer and Plywood Manufacturing

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

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

2436 Softwood veneer and plywood

## 321213 Engineered Wood Member (Except Truss) Manufacturing

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

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

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

## 321214 Truss Manufacturing

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

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

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

## 321219 Reconstituted Wood Product Manufacturing

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

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

2493 Reconstituted wood products

#### 3219 Other Wood Product Manufacturing

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

#### 32191 Millwork

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

#### 321911 Wood Window and Door Manufacturing

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

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

2431 Millwork (pt)

## 321912 Cut Stock, Resawing Lumber, and Planing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing dimension lumber from purchased lumber; (2) manufacturing dimension stock (i.e., shapes) or cut stock; (3) resawing the output of sawmills; and (4) planing purchased lumber. These establishments generally use woodworking machinery, such as jointers, planers, lathes, and routers to shape wood. The data published with NAICS code 321912 include the following SIC industries:

2421 Sawmills and planing mills, general (pt)

2426 Hardwood dimension and flooring mills (pt)

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

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

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

#### 321918 Other Millwork (Including Flooring)

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

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

2421 Sawmills and planing mills, general (pt)

2426 Hardwood dimension and flooring mills (pt)

2431 Millwork (pt)

#### 32192 Wood Container and Pallet Manufacturing

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

#### 321920 Wood Container and Pallet Manufacturing

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

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

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

2441 Nailed wood boxes & shook

2448 Wood pallets and skids

2449 Wood containers, n.e.c.

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

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

#### 32199 All Other Wood Product Manufacturing

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

## 321991 Manufactured Home (Mobile Home) Manufacturing

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

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

2451 Mobile homes

## 321992 Prefabricated Wood Building Manufacturing

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

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

2452 Prefabricated wood buildings

## 321999 All Other Miscellaneous Wood Product Manufacturing

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

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

2421 Sawmills and planing mills, general (pt)

- 2429 Special product sawmills, n.e.c. (pt)
- 2499 Wood products, n.e.c. (pt)
- 3131 Footwear cut stock and findings (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

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

## **322 Paper Manufacturing**

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

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

Establishments that make products from purchased paper and other materials make up the second industry group, Converted Paper Product Manufacturing. This general activity is then subdivided based, for the most part, on process distinctions. Paperboard container manufacturing uses corrugating, cutting, and shaping machinery to form paperboard into containers. Paper bag and coated and treated paper manufacturing establishments cut and coat paper and foil. Stationery product manufacturing establishments make a variety of paper products used for writing, filing, and similar applications. Other converted paper product manufacturing includes, in particular, the conversion of sanitary paper stock into such things as tissue paper and disposable diapers. An important process used in the Paper Bag and Coated and Treated Paper Manufacturing industry is lamination, often combined with coating. Lamination and coating makes a composite material with improved properties of strength, impermeability, and so on. The laminated materials may be paper, metal foil, or plastics film. While paper is often one of the components, it is not always. Lamination of plastics film to plastics film is classified in the NAICS Subsector 326, Plastics and Rubber Products Manufacturing, because establishments that do this often first make the film.

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

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

## 3221 Pulp, Paper, and Paperboard Mills

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

#### 32211 Pulp Mills

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

## 322110 Pulp Mills

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

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

2611 Pulp mills

## 32212 Paper Mills

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

## 322121 Paper (Except Newsprint) Mills

This U.S. industry comprises establishments primarily engaged in manufacturing paper (except newsprint and uncoated groundwood paper) from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paper they make. The data published with NAICS code 322121 include the following SIC industries:

2621 Paper mills (pt)

2676 Sanitary paper products (pt)

3842 Surgical appliances and supplies (pt)

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

## 3221211 Paper (Except Newsprint) Mills – Integrated Producer

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

#### 3221212 Paper (Except Newsprint) Mills – Nonintegrated Producer

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

## 322122 Newsprint Mills

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

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

2621 Paper mills (pt)

## 3221221 Newsprint Mills - Integrated Producer

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

## 3221222 Newsprint Mills - Nonintegrated Producer

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

## 32213 Paperboard Mills

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

#### 322130 Paperboard Mills

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

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

2631 Paperboard mills

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

#### 3221301 Paperboard Mills – Integrated Producer

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

## 3221302 Paperboard Mills – Nonintegrated Producer

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

#### **3222 Converted Paper Product Manufacturing**

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

#### 32221 Paperboard Container Manufacturing

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

#### 322211 Corrugated and Solid Fiber Box Manufacturing

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

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

2653 Corrugated and solid fiber boxes

#### 322212 Folding Paperboard Box Manufacturing

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

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

2657 Folding paperboard boxes

#### 322213 Setup Paperboard Box Manufacturing

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

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

2652 Setup paperboard boxes

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

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

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

2655 Fiber cans, drums, and similar products

#### 322215 Nonfolding Sanitary Food Container Manufacturing

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

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

2656 Sanitary food containers

#### 32222 Paper Bag and Coated and Treated Paper Manufacturing

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

# 322221 Coated and Laminated Packaging Paper and Plastics Film Manufacturing

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

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

2671 Paper - coated and laminated, packaging (pt)

# 322222 Coated and Laminated Paper Manufacturing

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

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

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

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

# 322223 Plastics, Foil, and Coated Paper Bag Manufacturing

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

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

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

# 322224 Uncoated Paper and Multiwall Bag Manufacturing

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

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

2674 Bags - uncoated paper and multiwall

# 322225 Laminated Aluminum Foil Manufacturing for Flexible Packaging Uses

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

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

3497 Metal foil and leaf (pt)

## 322226 Surface-Coated Paperboard Manufacturing

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

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

2675 Die-cut paper and board (pt)

# **32223 Stationery Product Manufacturing**

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

# 322231 Die-Cut Paper and Paperboard Office Supplies Manufacturing

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

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

2675 Die-cut paper and board (pt)

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

## 322232 Envelope Manufacturing

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

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

2677 Envelopes

# 322233 Stationery, Tablet, and Related Product Manufacturing

This U.S. industry comprises establishments primarily engaged in converting paper and paperboard into products used for writing and similar applications (e.g., looseleaf fillers, notebooks, pads, stationery, tablets). The data published with NAICS code 322233 include the following SIC industry:

2678 Stationery products

## 32229 Other Converted Paper Product Manufacturing

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

# 322291 Sanitary Paper Product Manufacturing

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

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

2676 Sanitary paper products (pt)

3842 Surgical appliances and supplies (pt)

# 322299 All Other Converted Paper Product Manufacturing

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

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

2675 Die-cut paper and board (pt)

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

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

# **323 Printing and Related Support Activities**

Industries in the Printing and Related Support Activities subsector print products, such as newspapers, books, periodicals, business forms, greeting cards, and other materials, and perform support activities, such as bookbinding, platemaking services, and data imaging. The support activities included here are an integral part of the printing industry, and a product (a printing plate, a bound book, or a computer disk or file) that is an integral part of the printing industry is almost always provided by these operations. Processes used in printing include a variety of methods used to transfer an image from a plate, screen, or computer file to some medium, such as paper, plastics, metal, textile articles, or wood. The most prominent of these methods is to transfer the image from a plate or screen to the medium (lithographic, gravure, screen, and flexographic printing). A rapidly growing new technology uses a computer file to directly "drive" the printing mechanism to create the image and new electrostatic and other types of equipment (digital or nonimpact printing).

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

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

## **3231 Printing and Related Support Activities**

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

## 32311 Printing

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

## 323110 Commercial Lithographic Printing

This U.S. industry comprises establishments primarily engaged in lithographic (i.e., offset) printing without publishing (except books, grey goods, and manifold business forms). This industry includes establishments engaged in lithographic printing on purchased stock materials, such as stationery, letterhead, invitations, labels, and similar items, on a job order basis. The data published with NAICS code 323110 include the following SIC industries:

2752 Commercial printing, lithographic (pt)

2771 Greeting cards (pt)

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

# 323111 Commercial Gravure Printing

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

The data published with NAICS code 323111 include the following SIC industries:

2754 Commercial printing, gravure

2771 Greeting cards (pt)

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

# 323112 Commercial Flexographic Printing

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

The data published with NAICS code 323112 include the following SIC industries:

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

2771 Greeting cards (pt)

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

# 323113 Commercial Screen Printing

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

The data published with NAICS code 323113 include the following SIC industries:

2396 Automotive and apparel trimmings (pt)

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

2771 Greeting cards (pt)

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

# 323114 Quick Printing

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

The data published with NAICS code 323114 include the following SIC industries:

2752 Commercial printing, lithographic (pt)

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

# 323115 Digital Printing

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

The data published with NAICS code 323115 include the following SIC industry:

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

# 323116 Manifold Business Form Printing

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

The data published with NAICS code 323116 include the following SIC industries:

2761 Manifold business forms

2782 Blankbooks and looseleaf binders (pt)

# 323117 Book Printing

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

The data published with NAICS code 323117 include the following SIC industry:

2732 Book printing

# 323118 Blankbook, Looseleaf Binders, and Devices Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing blankbooks, looseleaf devices, and binders. Establishments in this industry may print or print and bind. The data published with NAICS code 323118 include the following SIC industry:

2782 Blankbooks and looseleaf binders (pt)

# 323119 Other Commercial Printing

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

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

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

2771 Greeting cards (pt)

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

# **32312 Support Activities for Printing**

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

# 323121 Tradebinding and Related Work

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

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

2789 Bookbinding and related work

## 323122 Prepress Services

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

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

2791 Typesetting

2796 Platemaking services

## 324 Petroleum and Coal Products Manufacturing

The Petroleum and Coal Products Manufacturing subsector is based on the transformation of crude petroleum and coal into usable products. The dominant process is petroleum refining that involves the separation of crude petroleum into component products through such techniques as cracking and distillation.

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

# 3241 Petroleum and Coal Products Manufacturing

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

# 32411 Petroleum Refineries

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

# 324110 Petroleum Refineries

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

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

2911 Petroleum refining

# 32412 Asphalt Paving, Roofing, and Saturated Materials Manufacturing

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

# 32412 Asphalt Paving, Roofing, and Saturated Materials Manufacturing

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

U.S. Census Bureau, 1997 Economic Census

# 324121 Asphalt Paving Mixture and Block Manufacturing

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

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

2951 Asphalt paving mixtures and blocks

# 324122 Asphalt Shingle and Coating Materials Manufacturing

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

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

2952 Asphalt felts and coatings

# 32419 Other Petroleum and Coal Products Manufacturing

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

# 324191 Petroleum Lubricating Oil and Grease Manufacturing

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

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

2992 Lubricating oils and greases

# 324199 All Other Petroleum and Coal Products Manufacturing

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

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

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

3312 Blast furnaces and steel mills (pt)

# **325 Chemical Manufacturing**

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

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

# 3251 Basic Chemical Manufacturing

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

## 32511 Petrochemical Manufacturing

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

## 325110 Petrochemical Manufacturing

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

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

2865 Cyclic crudes and intermediates (pt)

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

# 32512 Industrial Gas Manufacturing

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

## **325120 Industrial Gas Manufacturing**

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

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

2813 Industrial gases

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

## 32513 Synthetic Dye and Pigment Manufacturing

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

## 325131 Inorganic Dye and Pigment Manufacturing

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

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

2816 Inorganic pigments (pt)

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

## 325132 Synthetic Organic Dye and Pigment Manufacturing

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

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

2865 Cyclic crudes and intermediates (pt)

## 32518 Other Basic Inorganic Chemical Manufacturing

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

## 325181 Alkalies and Chlorine Manufacturing

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

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

2812 Alkalies and chlorine

## 325182 Carbon Black Manufacturing

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

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

2816 Inorganic pigments (pt)

2895 Carbon black

## 325188 All Other Basic Inorganic Chemical Manufacturing

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

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

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

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

## 32519 Other Basic Organic Chemical Manufacturing

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

### 325191 Gum and Wood Chemical Manufacturing

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

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

2861 Gum and wood chemicals

## 325192 Cyclic Crude and Intermediate Manufacturing

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

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

2865 Cyclic crudes and intermediates (pt)

# 325193 Ethyl Alcohol Manufacturing

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

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

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

# 325199 All Other Basic Organic Chemical Manufacturing

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

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

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

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

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

## 32521 Resin and Synthetic Rubber Manufacturing

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

## 325211 Plastics Material and Resin Manufacturing

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

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

2821 Plastics materials and resins

## 325212 Synthetic Rubber Manufacturing

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

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

2822 Synthetic rubber

# 32522 Artificial and Synthetic Fibers and Filaments Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing cellulosic (i.e., rayon and acetate) and noncellulosic (i.e., nylon, polyolefin, and polyester) fibers and filaments in the form of monofilament, filament yarn, staple, or tow or (2) manufacturing and texturing cellulosic and noncellulosic fibers and filaments.

### 325221 Cellulosic Organic Fiber Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing cellulosic (i.e., rayon and acetate) fibers and filaments in the form of monofilament, filament yarn, staple, or tow or (2) manufacturing and texturizing cellulosic fibers and filaments.

The data published with NAICS code 325221 include the following SIC industry:

2823 Cellulosic manmade fibers

## 325222 Noncellulosic Organic Fiber Manufacturing

This U.S. industry consists of establishments primarily engaged in (1) manufacturing noncellulosic (i.e., nylon, polyolefin, and polyester) fibers and filaments in the form of monofilament, filament yarn, staple, or tow or (2) manufacturing and texturizing noncellulosic fibers and filaments.

The data published with NAICS code 325222 include the following SIC industry:

2824 Organic fibers, noncellulosic

## 3253 Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32531, Fertilizer Manufacturing; and 32532, Pesticide and Other Agricultural Chemical Manufacturing.

### 32531 Fertilizer Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing nitrogenous or phosphatic fertilizer materials; (2) manufacturing fertilizers from sewage or animal waste; (3) manufacturing nitrogenous or phosphatic materials and mixing with other ingredients into fertilizers; and (4) mixing ingredients made elsewhere into fertilizers.

### 325311 Nitrogenous Fertilizer Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing nitrogenous fertilizer materials and mixing ingredients

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into fertilizers; (2) manufacturing fertilizers from sewage or animal waste; and (3) manufacturing nitrogenous materials and mixing them into fertilizers.

The data published with NAICS code 325311 include the following SIC industry:

2873 Nitrogenous fertilizers

# 325312 Phosphatic Fertilizer Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing phosphatic fertilizer materials or (2) manufacturing phosphatic materials and mixing them into fertilizers.

The data published with NAICS code 325312 include the following SIC industry:

2874 Phosphatic fertilizers

## 325314 Fertilizer (Mixing Only) Manufacturing

This U.S. industry comprises establishments primarily engaged in mixing ingredients made elsewhere into fertilizers.

The data published with NAICS code 325314 include the following SIC industry:

2875 Fertilizers, mixing only

## 32532 Pesticide and Other Agricultural Chemical Manufacturing

This industry comprises establishments primarily engaged in the formulation and preparation of agricultural and household pest control chemicals (except fertilizers).

# 325320 Pesticide and Other Agricultural Chemical Manufacturing

This U.S. industry comprises establishments primarily engaged in the formulation and preparation of agricultural and household pest control chemicals (except fertilizers).

The data published with NAICS code 325320 include the following SIC industry:

2879 Agricultural chemicals, n.e.c.

## 3254 Pharmaceutical and Medicine Manufacturing

This NAICS industry group includes establishments classified in Industry 32541, Pharmaceutical and Medicine Manufacturing.

## 32541 Pharmaceutical and Medicine Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing biological and medicinal products; (2) processing (i.e., grading, grinding, and milling) botanical drugs and herbs; (3) isolating active medicinal principals from botanical drugs and herbs; and (4) manufacturing pharmaceutical products intended for internal and external consumption in such forms as ampoules, tablets, capsules, vials, ointments, powders, solutions, and suspensions.

## 325411 Medicinal and Botanical Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing uncompounded medicinal chemicals and their derivatives (i.e., generally for use by pharmaceutical preparation manufacturers) and/or (2) grading, grinding, and milling uncompounded botanicals.

The data published with NAICS code 325411 include the following SIC industry:

2833 Medicinals and botanicals

## 325412 Pharmaceutical Preparation Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing in-vivo diagnostic substances and pharmaceutical preparations (except biological) intended for internal and external consumption in dose forms, such as ampoules, tablets, capsules, vials, ointments, powders, solutions, and suspensions.

The data published with NAICS code 325412 include the following SIC industries:

2834 Pharmaceutical preparations

2835 Diagnostic substances (pt)

## 325413 In-Vitro Diagnostic Substance Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing in-vitro (i.e., not taken internally) diagnostic substances, such as chemical, biological, or radioactive substances. The substances are used for diagnostic tests that are performed in test tubes, petri dishes, machines, and other diagnostic test-type devices.

The data published with NAICS code 325413 include the following SIC industry:

2835 Diagnostic substances (pt)

# 325414 Biological Product (Except Diagnostic) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing vaccines, toxoids, blood fractions, and culture media of plant or animal origin (except diagnostic).

The data published with NAICS code 325414 include the following SIC industry:

2836 Biological products, except diagnostic

## 3255 Paint, Coating, and Adhesive Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32551, Paint and Coating Manufacturing; and 32552, Adhesive Manufacturing.

## 32551 Paint and Coating Manufacturing

This industry comprises establishments primarily engaged in (1) mixing pigments, solvents, and binders into paints and other coatings, such as stains, varnishes, lacquers, enamels, shellacs, and water repellant coatings for concrete and masonry, and/or (2) manufacturing allied paint products, such as putties, paint and varnish removers, paint brush cleaners, and frit.

# 325510 Paint and Coating Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) mixing pigments, solvents, and binders into paints and other coatings, such as stains, varnishes, lacquers, enamels, shellacs, and water repellant coatings for concrete and masonry, and/or (2) manufacturing allied paint products, such as putties, paint and varnish removers, paint brush cleaners, and frit.

The data published with NAICS code 325510 include the following SIC industries:

2851 Paints and allied products

2899 Chemical preparations, n.e.c. (pt)

## 32552 Adhesive Manufacturing

This industry comprises establishments primarily engaged in manufacturing adhesives, glues, and caulking compounds.

## 325520 Adhesive Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing adhesives, glues, and caulking compounds.

The data published with NAICS code 325520 include the following SIC industry:

2891 Adhesives and sealants

## 3256 Soap, Cleaning Compound, and Toilet Preparation Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32561, Soap and Cleaning Compound Manufacturing; and 32562, Toilet Preparation Manufacturing.

# 32561 Soap and Cleaning Compound Manufacturing

This industry comprises establishments primarily engaged in manufacturing and packaging soap and other cleaning compounds, surface active agents, and textile and leather finishing agents used to reduce tension or speed the drying process.

# 325611 Soap and Other Detergent Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and packaging soaps and other detergents, such as laundry detergents; dishwashing detergents; toothpaste gels and tooth powders; and natural glycerin.

The data published with NAICS code 325611 include the following SIC industries:

2841 Soap and other detergents

2844 Toilet preparations (pt)

# 325612 Polish and Other Sanitation Good Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and packaging polishes and specialty cleaning preparations.

The data published with NAICS code 325612 include the following SIC industry:

2842 Polishes and sanitation goods

## 325613 Surface Active Agent Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing bulk surface active agents for use as wetting agents, emulsifiers, and penetrants, and/or (2) manufacturing textiles and leather finishing agents used to reduce tension or speed the drying process.

The data published with NAICS code 325613 include the following SIC industry:

2843 Surface active agents

## **32562 Toilet Preparation Manufacturing**

This industry comprises establishments primarily engaged in preparing, blending, compounding, and packaging toilet preparations, such as perfumes, shaving preparations, hair preparations, face creams, lotions (including sunscreens), and other cosmetic preparations.

## 325620 Toilet Preparation Manufacturing

This U.S. industry comprises establishments primarily engaged in preparing, blending, compounding, and packaging toilet preparations, such as perfumes, shaving preparations, hair preparations, face creams, lotions (including sunscreens), and other cosmetic preparations.

The data published with NAICS code 325620 include the following SIC industry:

2844 Toilet preparations (pt)

## **3259 Other Chemical Product Manufacturing**

This industry group comprises establishments primarily engaged in manufacturing chemical products (except basic chemicals; resins, synthetic rubber, cellulosic and

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noncellulosic fibers and filaments; pesticides, fertilizers, and other agricultural chemicals; pharmaceuticals and medicines; paints, coatings, and adhesives; soaps and cleaning compounds; and toilet preparations).

## 32591 Printing Ink Manufacturing

This industry comprises establishments primarily engaged in manufacturing printing and inkjet inks and inkjet cartridges.

## 325910 Printing Ink Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing printing and inkjet inks and inkjet cartridges.

The data published with NAICS code 325910 include the following SIC industry:

2893 Printing ink

## **32592 Explosives Manufacturing**

This industry comprises establishments primarily engaged in manufacturing explosives.

# 325920 Explosives Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing explosives.

The data published with NAICS code 325920 include the following SIC industry:

2892 Explosives

# 32599 All Other Chemical Product and Preparation Manufacturing

This industry comprises establishments primarily engaged in manufacturing chemical products (except basic chemicals, resins, and synthetic rubber; cellulosic and noncellulosic fibers and filaments; pesticides, fertilizers, and other agricultural chemicals; pharmaceuticals and medicines; paints, coatings, and adhesives; and soaps, cleaning compounds, and toilet preparations; printing inks; and explosives).

# 325991 Custom Compounding of Purchased Resins

This U.S. industry comprises establishments primarily engaged in (1) custom mixing and blending plastics resins made elsewhere or (2) reformulating plastics resins from recycled plastics products.

The data published with NAICS code 325991 include the following SIC industries:

3087 Custom compound purchased resins

# 325992 Photographic Film, Paper, Plate, and Chemical Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sensitized film, sensitized paper, sensitized cloth, sensitized plates, toners (i.e., for photocopiers, laser printers, and similar electrostatic printing devices), toner cartridges, and photographic chemicals.

The data published with NAICS code 325992 include the following SIC industry:

3861 Photographic equipment and supplies (pt)

# 325998 All Other Miscellaneous Chemical Product and Preparation Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing chemical products (except basic chemicals, resins, synthetic rubber; cellulosic and noncellulosic fiber and filaments; pesticides, fertilizers, and other agricultural chemicals; pharmaceuticals and medicines; paints, coatings, and adhesives; soap, cleaning compounds, and toilet preparations; printing inks; explosives; custom compounding of purchased resins; and photographic films, papers, plates, and chemicals).

The data published with NAICS code 325998 include the following SIC industries:

2819 Industrial inorganic chemicals, n.e.c. (pt)

2899 Chemical preparations, n.e.c. (pt)

3952 Lead pencils and art goods (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 325998 do not include establishments primarily engaged in aerosol packaging. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## 326 Plastics and Rubber Products Manufacturing

Industries in the Plastics and Rubber Products Manufacturing subsector make goods by processing plastics materials and raw rubber. The core technology employed by establishments in this subsector is that of plastics or rubber product production. Plastics and rubber are combined in the same subsector because plastics are increasingly being used as a substitute for rubber; however, the subsector is generally restricted to the production of products made of just one material, either solely plastics or rubber.

Many manufacturing activities use plastics or rubber, for example the manufacture of footwear, or furniture. Typically, the production process of these products involves more than one material. In these cases, technologies that allow disparate materials to be formed and combined are of central importance in describing the manufacturing activity. In NAICS, such activities (the footwear and furniture manufacturing) are not classified in the Plastics and Rubber Products Manufacturing subsector because the core technologies for these activities are diverse and involve multiple materials.

Within the Plastics and Rubber Products Manufacturing subsector, a distinction is made between plastics and rubber products at the industry group level, although it is not a rigid distinction, as can be seen from the definition of Industry 32622, Rubber and Plastics Hose and Belting Manufacturing. As materials technology progresses, plastics are increasingly being used as a substitute for rubber; and eventually, the distinction may disappear as a basis for establishment classification.

In keeping with the core technology focus of plastics, lamination of plastics film to plastics film as well as the production of bags from plastics only is classified in this subsector. Lamination and bag production involving plastics and materials other than plastics are classified in the NAICS Subsector 322, Paper Manufacturing.

### **3261 Plastics Product Manufacturing**

This industry group comprises establishments primarily engaged in processing new or spent (i.e., recycled) plastics resins into intermediate or final products, using such processes as compression molding; extrusion molding; injection molding; blow molding; and casting. Within most of these industries, the production process is such that a wide variety of products can be made.

## 32611 Unsupported Plastics Film, Sheet, and Bag Manufacturing

This industry comprises establishments primarily engaged in (1) converting plastics resins into unsupported plastics film and sheet and/or (2) forming, coating, or laminating plastics film and sheet into plastics bags.

### 326111 Unsupported Plastics Bag Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) converting plastics resins into plastics bags or (2) forming, coating, or laminating plastics film and sheet into single wall or multiwall plastics bags. Establishments in this industry may print on the bags they manufacture.

The data published with NAICS code 326111 include the following SIC industry:

2673 Bags - plastics, laminated, and coated (pt)

# 326112 Unsupported Plastics Packaging Film and Sheet Manufacturing

This U.S. industry comprises establishments primarily engaged in converting plastics resins into plastics packaging (flexible) film and packaging sheet. The data published with NAICS code 326112 include the following SIC industry:

2671 Paper - coated and laminated, packaging (pt)

## 326113 Unsupported Plastics Film and Sheet (Except Packaging) Manufacturing

This U.S. industry comprises establishments primarily engaged in converting plastics resins into plastics film and unlaminated sheet (except packaging).

The data published with NAICS code 326113 include the following SIC industry:

3081 Unsupported plastics film and sheet

## 32612 Plastics Pipe, Pipe Fitting, and Unsupported Profile Shape Manufacturing

This industry comprises establishments primarily engaged in manufacturing plastics pipes and pipe fittings, and plastics profile shapes such as rod, tube, and sausage casings.

## 326121 Unsupported Plastics Profile Shapes Manufacturing

This U.S. industry comprises establishments primarily engaged in converting plastics resins into nonrigid plastics profile shapes (except film, sheet, and bags), such as rod, tube, and sausage casings.

The data published with NAICS code 326121 include the following SIC industry:

3082 Unsupported plastics profile shapes

## 326122 Plastics Pipe and Pipe Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in converting plastics resins into rigid plastics pipes and pipe fittings.

The data published with NAICS code 326122 include the following SIC industries:

3084 Plastics pipe

3089 Plastics products, n.e.c. (pt)

# 32613 Laminated Plastics Plate, Sheet, and Shape Manufacturing

This industry comprises establishments primarily engaged in laminating plastics profile shapes such as plate, sheet (except packaging), and rod. The lamination process generally involves bonding or impregnating profiles with plastics resins and compressing them under heat.

# 326130 Laminated Plastics Plate, Sheet, and Shape Manufacturing

This U.S. industry comprises establishments primarily engaged in laminating plastics profile shapes such as plate, sheet (except packaging), and rod. The lamination process generally involves bonding or impregnating profiles with plastics resins and compressing them under heat.

The data published with NAICS code 326130 include the following SIC industry:

3083 Laminated plastics plate and sheet

## 32614 Polystyrene Foam Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing polystyrene foam products.

## 326140 Polystyrene Foam Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing polystyrene foam products.

The data published with NAICS code 326140 include the following SIC industry:

3086 Plastics foam products (pt)

# 32615 Urethane and Other Foam Product (Except Polystyrene) Manufacturing

This industry comprises establishments primarily engaged in manufacturing plastics foam products (except polystyrene).

# 326150 Urethane and Other Foam Product (Except Polystyrene) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing plastics foam products (except polystyrene).

The data published with NAICS code 326150 include the following SIC industry:

3086 Plastics foam products (pt)

## **32616 Plastics Bottle Manufacturing**

This industry comprises establishments primarily engaged in manufacturing plastics bottles.

## **326160 Plastics Bottle Manufacturing**

This U.S. industry comprises establishments primarily engaged in manufacturing plastics bottles.

The data published with NAICS code 326160 include the following SIC industry:

3085 Plastics bottles

# **32619 Other Plastics Product Manufacturing**

This industry comprises establishments primarily engaged in manufacturing resilient floor covering and other plastics products (except film, sheet, bags, profile shapes, pipes, pipe fittings, laminates, foam products, and bottles).

## 326191 Plastics Plumbing Fixture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing plastics or fiberglass plumbing fixtures. Examples of products made by these establishments are plastics or fiberglass bathtubs, hot tubs, portable toilets, and shower stalls.

The data published with NAICS code 326191 include the following SIC industry:

3088 Plastics plumbing fixtures

## 326192 Resilient Floor Covering Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing resilient floor coverings for permanent installation.

The data published with NAICS code 326192 include the following SIC industries:

3069 Fabricated rubber products, n.e.c. (pt)

3996 Hard surface floor coverings

## **326199 All Other Plastics Product Manufacturing**

This U.S. industry comprises establishments primarily engaged in manufacturing plastics products (except film, sheet, bags, profile shapes, pipes, pipe fittings, laminates, foam products, bottles, plumbing fixtures, and resilient floor coverings).

The data published with NAICS code 326199 include the following SIC industries:

3089 Plastics products, n.e.c. (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 326199 include establishments primarily engaged in the manufacture of plastic furniture parts. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## 3262 Rubber Product Manufacturing

This industry group comprises establishments primarily engaged in processing natural and synthetic or reclaimed rubber materials into intermediate or final products using processes such as vulcanizing, cementing, molding, extruding, and lathe-cutting.

## 32621 Tire Manufacturing

This industry comprises establishments primarily engaged in manufacturing tires and inner tubes from natural and synthetic rubber and retreading or rebuilding tires.

## 326211 Tire Manufacturing (Except Retreading)

This U.S. industry comprises establishments primarily engaged in manufacturing tires and inner tubes from natural and synthetic rubber.

The data published with NAICS code 326211 include the following SIC industry:

3011 Tires and inner tubes

## 326212 Tire Retreading

This U.S. industry comprises establishments primarily engaged in retreading, or rebuilding tires.

The data published with NAICS code 326212 include the following SIC industry:

7534 Tire retreading and repair shops (pt)

## 32622 Rubber and Plastics Hoses and Belting Manufacturing

This industry comprises establishments primarily engaged in manufacturing rubber hose and/or plastics (reinforced) hose and belting from natural and synthetic rubber and/or plastics resins. Establishments manufacturing garden hoses from purchased hose are included in this industry.

## 326220 Rubber and Plastics Hoses and Belting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing rubber hose and/or plastics (reinforced) hose and belting from natural and synthetic rubber and/or plastics resins. Establishments manufacturing garden hoses from purchased hose are included in this industry.

The data published with NAICS code 326220 include the following SIC industry:

3052 Rubber and plastics hose and belting

## 32629 Other Rubber Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing rubber products (except tires, hoses, and belting) from natural and synthetic rubber.

## 326291 Rubber Product Manufacturing for Mechanical Use

This U.S. industry comprises establishments primarily engaged in molding, extruding, or lathe-cutting rubber to manufacture rubber goods (except tubing) for mechanical applications. Products of this industry are generally parts for motor vehicles, machinery, and equipment. The data published with NAICS code 326291 include the following SIC industry:

3061 Mechanical rubber goods

### 326299 All Other Rubber Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing rubber products (except tires; hoses and belting; and molded, extruded, and lathe-cut rubber goods for mechanical applications) from natural and synthetic rubber.

The data published with NAICS code 326299 include the following SIC industry:

3069 Fabricated rubber products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 326299 include establishments primarily engaged in the manufacture of rubber products including gloves, toys, pants, raincoats, bibs, aprons, bathing caps, life jackets, and wet suits. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## 327 Nonmetallic Mineral Product Manufacturing

The Nonmetallic Mineral Product Manufacturing subsector transforms mined or quarried nonmetallic minerals, such as sand, gravel, stone, clay, and refractory materials, into products for intermediate or final consumption. Processes used include grinding, mixing, cutting, shaping, and honing. Heat often is used in the process and chemicals are frequently mixed to change the composition, purity, and chemical properties for the intended product. For example, glass is produced by heating silica sand to the melting point (sometimes combined with cullet or recycled glass) and then drawn, floated, or blow molded to the desired shape or thickness. Refractory materials are heated and then formed into bricks or other shapes for use in industrial applications.

The Nonmetallic Mineral Product Manufacturing subsector includes establishments that manufacture products, such as bricks, refractories, ceramic products, and glass and glass products, such as plate glass and containers. Also included are cement and concrete products, lime, gypsum and other nonmetallic mineral products including abrasive products, ceramic plumbing fixtures, statuary, cut stone products, and mineral wool. The products are used in a wide range of activities from construction and heavy and light manufacturing to articles for personal use.

Mining, beneficiating, and manufacturing activities often occur in a single location. Separate receipts will be collected for these activities whenever possible. When receipts cannot be broken out between mining and manufacturing, establishments that mine or quarry nonmetallic minerals, beneficiate the nonmetallic minerals and further process the nonmetallic minerals into a more finished manufactured product are classified based on the primary activity of the establishment. A mine that manufactures a small amount of finished products will be classified in Sector 21, Mining. An establishment that mines whose primary output is a more-finished manufactured product will be classified in the Manufacturing Sector.

Excluded from the Nonmetallic Mineral Product Manufacturing subsector are establishments that primarily 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

This NAICS industry group includes establishments classified in the following NAICS Industries: 32711, Pottery, Ceramics, and Plumbing Fixture Manufacturing; and 32712, Clay Building Material and Refractories Manufacturing.

## 32711 Pottery, Ceramics, and Plumbing Fixture Manufacturing

This industry comprises establishments primarily engaged in shaping, molding, glazing, and firing pottery, ceramics, and plumbing fixtures made entirely or partly of clay or other ceramic materials.

## 327111 Vitreous China Plumbing Fixture and China and Earthenware Bathroom Accessories Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing vitreous china plumbing fixtures and china and earthenware bathroom accessories, such as faucet handles, towel bars, and soap dishes.

The data published with NAICS code 327111 include the following SIC industry:

3261 Vitreous plumbing fixtures

## 327112 Vitreous China, Fine Earthenware, and Other Pottery Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing table and kitchen articles, art and ornamental items, and similar vitreous china, fine earthenware, stoneware, coarse earthenware, and pottery products.

The data published with NAICS code 327112 include the following SIC industries:

3262 Vitreous china table and kitchen articles

3263 Fine earthenware table and kitchen articles

3269 Pottery products, n.e.c.

3299 Nonmetallic mineral products, n.e.c. (pt)

## 327113 Porcelain Electrical Supply Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing porcelain electrical insulators, molded porcelain parts for electrical devices, ferrite or ceramic magnets, and electronic and electrical supplies from nonmetallic minerals, such as clay and ceramic materials.

The data published with NAICS code 327113 include the following SIC industry:

3264 Porcelain electrical supplies

## 32712 Clay Building Material and Refractories Manufacturing

This industry comprises establishments primarily engaged in shaping, molding, baking, burning, or hardening clay refractories, nonclay refractories, ceramic tile, structural clay tile, brick, and other structural clay building materials.

## 327121 Brick and Structural Clay Tile Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing brick and structural clay tiles.

The data published with NAICS code 327121 include the following SIC industry:

3251 Brick and structural clay tile

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 327121 include establishments primarily engaged in the manufacture of slumped brick. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## 327122 Ceramic Wall and Floor Tile Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ceramic wall and floor tiles.

The data published with NAICS code 327122 include the following SIC industry:

3253 Ceramic wall and floor tile

# 327123 Other Structural Clay Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing clay sewer pipe, drain tile, flue lining tile, architectural terra-cotta, and other structural clay products.

The data published with NAICS code 327123 include the following SIC industry:

3259 Structural clay products, n.e.c.

# 327124 Clay Refractory Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing clay refractory, mortar, brick, block, tile, and fabricated clay refractories, such as melting pots. A refractory is a material that will retain its shape and chemical identity when subjected to high temperatures and is used in applications that require extreme resistance to heat, such as furnace linings.

The data published with NAICS code 327124 include the following SIC industry:

3255 Clay refractories

## 327125 Nonclay Refractory Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonclay refractory, mortar, brick, block, tile, and fabricated nonclay refractories such as graphite, magnesite, silica, or alumina crucibles. A refractory is a material that will retain its shape and chemical identity when subjected to high temperatures and is used in applications that require extreme resistance to heat, such as furnace linings.

The data published with NAICS code 327125 include the following SIC industry:

3297 Nonclay refractories

## 3272 Glass and Glass Product Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 32721, Glass and Glass Product Manufacturing.

## 32721 Glass and Glass Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing glass and/or glass products. Establishments in this industry may manufacture glass and/or glass products by melting silica sand or cullet, or purchasing glass.

## 327211 Flat Glass Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing flat glass by melting silica sand or cullet or (2) manufacturing both flat glass and laminated glass by melting silica sand or cullet.

The data published with NAICS code 327211 include the following SIC industry:

3211 Flat glass

# 327212 Other Pressed and Blown Glass and Glassware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing glass by melting silica sand or cullet and making pressed, blown, or shaped glass or glassware (except glass packaging containers). The data published with NAICS code 327212 include the following SIC industry:

3229 Pressed and blown glass, n.e.c.

## 327213 Glass Container Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing glass packaging containers.

The data published with NAICS code 327213 include the following SIC industry:

3221 Glass containers

## 327215 Glass Product Manufacturing Made of Purchased Glass

This U.S. industry comprises establishments primarily engaged in remelting, pressing, blowing, or shaping purchased glass.

The data published with NAICS code 327215 include the following SIC industry:

3231 Products of purchased glass

## 3273 Cement and Concrete Product Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32731, Cement Manufacturing; 32732, Ready-Mix Concrete Manufacturing; 32733, Concrete Pipe, Brick, and Block Manufacturing; and 32739, Other Concrete Product Manufacturing.

## 32731 Cement Manufacturing

This industry comprises establishments primarily engaged in manufacturing portland, natural, masonry, pozzalanic, and other hydraulic cements. Cement manufacturing establishments may calcine earths or mine, quarry, manufacture, or purchase lime.

## 327310 Cement Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing portland, natural, masonry, pozzalanic, and other hydraulic cements. Cement manufacturing establishments may calcine earths or mine, quarry, manufacture, or purchase lime.

The data published with NAICS code 327310 include the following SIC industry:

3241 Cement, hydraulic

### 32732 Ready-Mix Concrete Manufacturing

This industry comprises establishments, such as batch plants or mix plants, primarily engaged in manufacturing concrete delivered to a purchaser in a plastic and unhardened state. Ready-mix concrete manufacturing establishments may mine, quarry, or purchase sand and gravel.

## 327320 Ready-Mix Concrete Manufacturing

This U.S. industry comprises establishments, such as batch plants or mix plants, primarily engaged in manufacturing concrete delivered to a purchaser in a plastic and unhardened state. Ready-mix concrete manufacturing establishments may mine, quarry, or purchase sand and gravel.

The data published with NAICS code 327320 include the following SIC industry:

3273 Ready-mixed concrete

# 32733 Concrete Pipe, Brick, and Block Manufacturing

This industry comprises establishments primarily engaged in manufacturing concrete pipe, brick, and block

## 327331 Concrete Block and Brick Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing concrete block and brick.

The data published with NAICS code 327331 include the following SIC industry:

3271 Concrete brick and block

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 327331 do not include establishments primarily engaged in the manufacture of slumped brick. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## 327332 Concrete Pipe Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing concrete pipe.

The data published with NAICS code 327332 include the following SIC industry:

3272 Concrete products, n.e.c. (pt)

## 32739 Other Concrete Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing concrete products (except block, brick, and pipe).

## 327390 Other Concrete Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing concrete products (except block, brick, and pipe).

The data published with NAICS code 327390 include the following SIC industry:

3272 Concrete products, n.e.c. (pt)

## 3274 Lime and Gypsum Product Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32741, Lime Manufacturing; and 32742, Gypsum Product Manufacturing.

## 32741 Lime Manufacturing

This industry comprises establishments primarily engaged in manufacturing lime from calcitic limestone, dolomitic limestone, or other calcareous materials, such as coral, chalk, and shells. Lime manufacturing establishments may mine, quarry, collect, or purchase the sources of calcium carbonate.

## 327410 Lime Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing lime from calcitic limestone, dolomitic limestone, or other calcareous materials, such as coral, chalk, and shells. Lime manufacturing establishments may mine, quarry, collect, or purchase the sources of calcium carbonate.

The data published with NAICS code 327410 include the following SIC industry:

3274 Lime

## 32742 Gypsum Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing gypsum products such as wallboard, plaster, plasterboard, molding, ornamental moldings, statuary, and architectural plaster work. Gypsum product manufacturing establishments may mine, quarry, or purchase gypsum.

# 327420 Gypsum Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing gypsum products, such as wallboard, plaster, plasterboard, molding, ornamental moldings, statuary, and architectural plaster work. Gypsum product manufacturing establishments may mine, quarry, or purchase gypsum.

The data published with NAICS code 327420 include the following SIC industries:

3275 Gypsum products

3299 Nonmetallic mineral products, n.e.c. (pt)

# 3279 Other Nonmetallic Mineral Product Manufacturing

The Other Nonmetallic Mineral Product Manufacturing industry group comprises establishments manufacturing nonmetallic mineral products (except clay products, refractory products, glass products, cement and concrete products, lime, and gypsum products).

# 32791 Abrasive Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, abrasive-coated products, and other abrasive products

## 327910 Abrasive Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, abrasive-coated products, and other abrasive products.

The data published with NAICS code 327910 include the following SIC industry:

3291 Abrasive products (pt)

# 32799 All Other Nonmetallic Mineral Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing nonmetallic mineral products (except pottery, ceramics, and plumbing fixtures; clay building materials and refractories; glass and glass products; cement; ready-mix concrete; concrete products; lime; gypsum products; and abrasive products).

# 327991 Cut Stone and Stone Product Manufacturing

This U.S. industry comprises establishments primarily engaged in cutting, shaping, and finishing granite, marble, limestone, slate, and other stone for building and miscellaneous uses. Stone product manufacturing establishments may mine, quarry, or purchase stone.

The data published with NAICS code 327991 include the following SIC industry:

3281 Cut stone and stone products

## 327992 Ground or Treated Mineral and Earth Manufacturing

This U.S. industry comprises establishments primarily engaged in calcining, dead burning, or otherwise processing beyond beneficiation, clays, ceramic and refractory minerals, barite, and miscellaneous nonmetallic minerals.

The data published with NAICS code 327992 include the following SIC industry:

3295 Minerals, ground or treated

## 327993 Mineral Wool Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing mineral wool and mineral wool (i.e., fiberglass) insulation products made of such siliceous materials as rock, slag, and glass or combinations thereof.

The data published with NAICS code 327993 include the following SIC industry:

3296 Mineral wool

## 327999 All Other Miscellaneous Nonmetallic Mineral Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonmetallic mineral products (except pottery, ceramics, and plumbing fixtures; clay building materials and refractories; glass and glass products; cement; ready-mix concrete; concrete products; lime; gypsum products; abrasive products; cut stone and stone products; ground and treated minerals and earth; and mineral wool).

The data published with NAICS code 327999 include the following SIC industries:

3272 Concrete products, n.e.c. (pt)

3292 Asbestos products (pt)

3299 Nonmetallic mineral products, n.e.c. (pt)

# **331 Primary Metal Manufacturing**

Industries in the Primary Metal Manufacturing subsector smelt and/or refine ferrous and nonferrous metals from ore, pig or scrap, using electrometallurgical and other process metallurgical techniques. Establishments in this subsector also manufacture metal alloys and superalloys by introducing other chemical elements to pure metals. The output of smelting and refining, usually in ingot form, is used in rolling, drawing, and extruding operations to make sheet, strip, bar, rod, or wire, and in molten form to make castings and other basic metal products.

Primary manufacturing of ferrous and nonferrous metals begins with ore or concentrate as the primary input. Establishments manufacturing primary metals from ore and/or concentrate remain classified in the primary smelting, primary refining, or iron and steel mill, industries regardless of the form of their output. Establishments primarily engaged in secondary smelting and/or secondary refining recover ferrous and nonferrous metals from scrap and/or dross. The output of the secondary smelting and/or secondary refining industries is limited to shapes, such as ingot or billet, that will be further processed. Recovery of metals from scrap often occurs in establishments that are primarily engaged in activities, such as rolling, drawing, extruding, or similar processes.

Excluded from the Primary Metal Manufacturing subsector are establishments primarily engaged in manufacturing ferrous and nonferrous forgings (except ferrous forgings made in steel mills) and stampings. Although forging, stamping, and casting are all methods used to make metal shapes, forging and stamping do not use molten metals and are included in Subsector 332, Fabricated Metal Product Manufacturing. Establishments primarily engaged in operating coke ovens are classified in Industry 32419, Other Petroleum and Coal Products Manufacturing.

# 3311 Iron and Steel Mills and Ferroalloy Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33111, Iron and Steel Mills and Ferroalloy Manufacturing.

# 33111 Iron and Steel Mills and Ferroalloy Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) direct reduction of iron ore; (2) manufacturing pig iron in molten or solid form; (3) converting pig iron into steel; (4) manufacturing ferroalloys; (5) making steel; (6) making steel and manufacturing shapes (e.g., bar, plate, rod, sheet, strip, wire); and (7) making steel and forming pipe and tube.

# 331111 Iron and Steel Mills

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) direct reduction of iron ore; (2) manufacturing pig iron in molten or solid form; (3) converting pig iron into steel; (4) making steel; (5) making steel and manufacturing shapes (e.g., bar, plate, rod, sheet, strip, wire); and (6) making steel and forming tube and pipe.

The data published with NAICS code 331111 include the following SIC industries:

3312 Blast furnaces and steel mills (pt)

3399 Primary metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 331111 include establishments primarily engaged in the manufacture of ferrous metal powder, paste, and flake. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## 3311111 Iron and Steel Mills -- Fully Integrated

Establishments primarily engaged in smelting iron ore in a blast furnace to produce pig iron in molten or solid form; then converting pig iron into steel by removal of the carbon in the iron through combustion in a basic oxygen or electric furnace; then producing iron and steel basic shapes, such as plates, sheets, strips, and bars, and other related products, such as pipes, tubes, and wire.

# 3311112 Iron and Steel Mills – Partially Integrated With a Blast Furnace

Establishments primarily engaged in smelting iron ore in a blast furnace to produce pig iron in molten or solid form; then converting pig iron into steel by removal of the carbon in the iron through combustion in a basic oxygen or electric furnace; then producing ingots and/or semifinished shapes, such as blooms, billets, and rods.

## 3311113 Iron and Steel Mills – Partially Integrated Without a Blast Furnace

Establishments primarily engaged in converting pig iron, direct reduced iron, and/or scrap into steel by removal of the carbon in the iron through combustion in a basic oxygen or electric furnace; then producing iron and steel basic shapes, such as plates, sheets, strips, and bars, and other related products, such as pipes, tubes, and wire.

## 3311114 Iron and Steel Mills - Nonintegrated

Establishments primarily engaged in producing iron and steel basic shapes, such as plates, sheets, strips, and bars, and other related products, such as pipes, tubes, and wire from purchased ingots and/or semifinished shapes, such as blooms, billets, and rods.

# 331112 Electrometallurgical Ferroalloy Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electrometallurgical ferroalloys. Ferroalloys add critical elements, such as silicon and manganese for carbon steel and chromium, vanadium, tungsten, titanium, and molybdenum for low- and high-alloy metals. Ferroalloys include iron-rich alloys and more pure forms of elements added during the steel manufacturing process that alter or improve the characteristics of the metal being made.

The data published with NAICS code 331112 include the following SIC industry:

3313 Electrometallurgical products (pt)

# 3312 Steel Product Manufacturing From Purchased Steel

This industry group comprises establishments primarily engaged in manufacturing iron and steel tube and pipe, drawing steel wire, and rolling or drawing shapes from purchased iron or steel.

# 33121 Iron and Steel Pipes and Tubes Manufacturing From Purchased Steel

This industry comprises establishments primarily engaged in manufacturing welded, riveted, or seamless pipe and tube from purchased iron or steel.

## 331210 Iron and Steel Pipes and Tubes Manufacturing From Purchased Steel

This U.S. industry comprises establishments primarily engaged in manufacturing welded, riveted, or seamless pipe and tube from purchased iron or steel.

The data published with NAICS code 331210 include the following SIC industry:

3317 Steel pipe and tubes

# 33122 Rolling and Drawing of Purchased Steel

This industry comprises establishments primarily engaged in rolling and/or drawing steel shapes, such as plate, sheet, strip, rod, and bar, from purchased steel.

## 331221 Rolled Steel Shape Manufacturing

This U.S. industry comprises establishments primarily engaged in rolling or drawing shapes (except wire), such as plate, sheet, strip, rod, and bar, from purchased steel.

The data published with NAICS code 331221 include the following SIC industry:

3316 Cold finishing of steel shapes

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 331221 do not include establishments primarily engaged in making coke oven and blast furnace products; in making steel and rolling or drawing steel shapes; or in the making of ferrous metal powder, paste, and flake. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## 331222 Steel Wire Drawing

This U.S. industry comprises establishments primarily engaged in drawing wire from purchased steel.

The data published with NAICS code 331222 include the following SIC industry:

3315 Steel wire and related products (pt)

# 3313 Alumina and Aluminum Production and Processing

This NAICS industry group includes establishments classified in NAICS Industry 33131, Alumina and Aluminum Production and Processing.

# 33131 Alumina and Aluminum Production and Processing

This industry comprises establishments primarily engaged in one or more of the following: (1) refining alumina; (2) making (i.e., the primary production) aluminum from alumina; (3) recovering aluminum from scrap or dross; (4) alloying purchased aluminum; and (5) manufacturing aluminum primary forms (e.g., bar, foil, pipe, plate, rod, sheet, tube, wire).

## 331311 Alumina Refining

This U.S. industry comprises establishments primarily engaged in refining alumina (i.e., aluminum oxide) generally from bauxite.

The data published with NAICS code 331311 include the following SIC industry:

2819 Industrial inorganic chemicals, n.e.c. (pt)

# 331312 Primary Aluminum Production

This U.S. industry comprises establishments primarily engaged in (1) making aluminum from alumina and/or (2) making aluminum from alumina and rolling, drawing, extruding, or casting the aluminum they make into primary forms (e.g., bar, billet, ingot, plate, rod, sheet, strip). Establishments in this industry may make primary aluminum or aluminum-based alloys from alumina.

The data published with NAICS code 331312 include the following SIC industry:

3334 Primary aluminum

# 331314 Secondary Smelting and Alloying of Aluminum

This U.S. industry comprises establishments primarily engaged in (1) recovering aluminum and aluminum alloys from scrap and/or dross (i.e., secondary smelting) and making billet or ingot (except by rolling) and/or (2) manufacturing alloys, powder, paste, or flake from purchased aluminum.

The data published with NAICS code 331314 include the following SIC industries:

3341 Secondary nonferrous metals (pt)

3399 Primary metal products, n.e.c. (pt)

# 331315 Aluminum Sheet, Plate, and Foil Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) flat rolling or continuous casting sheet, plate, foil, and welded tube from purchased aluminum and/or (2) recovering aluminum from scrap and flat rolling or continuous casting sheet, plate, foil, and welded tube in integrated mills.

The data published with NAICS code 331315 include the following SIC industry:

3353 Aluminum sheet, plate, and foil (pt)

# 331316 Aluminum Extruded Product Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) extruding aluminum bar, pipe, and tube blooms or extruding or drawing tube from purchased aluminum; and/or (2) recovering aluminum from scrap and extruding bar, pipe, and tube blooms or drawing tube in integrated mills.

The data published with NAICS code 331316 include the following SIC industry:

3354 Aluminum extruded products

# 331319 Other Aluminum Rolling and Drawing

This U.S. industry comprises establishments primarily engaged in (1) rolling, drawing, or extruding shapes (except flat rolled sheet, plate, foil, and welded tube; extruded rod, bar, pipe, and tube blooms; and drawn or extruded tube) from purchased aluminum and/or (2) recovering aluminum from scrap and rolling, drawing or extruding shapes (except flat rolled sheet, plate, foil, and welded tube; extruded rod, bar, pipe, and tube blooms; and drawn or extruded tube) in integrated mills.

The data published with NAICS code 331319 include the following SIC industries:

3355 Aluminum rolling and drawing, n.e.c.

3357 Nonferrous wire drawing and insulating (pt)

## 3314 Nonferrous Metal (Except Aluminum) Production and Processing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33141, Nonferrous Metal (Except Aluminum) Smelting and Refining; 33142, Copper Rolling, Drawing, Extruding, and Alloying; and 33149, Nonferrous Metal (Except Copper and Aluminum) Rolling, Drawing, Extruding, and Alloying.

## 33141 Nonferrous Metal (Except Aluminum) Smelting and Refining

This industry comprises establishments primarily engaged in (1) smelting ores into nonferrous metals and/or (2) the primary refining of nonferrous metals (except aluminum) using electrolytic or other processes.

## **331411 Primary Smelting and Refining of Copper**

This U.S. industry comprises establishments primarily engaged in (1) smelting copper ore and/or (2) the primary refining of copper by electrolytic methods or other processes. Establishments in this industry make primary copper and copper-based alloys, such as brass and bronze, from ore or concentrates.

The data published with NAICS code 331411 include the following SIC industry:

3331 Primary copper

## 331419 Primary Smelting and Refining of Nonferrous Metal (Except Copper and Aluminum)

This U.S. industry comprises establishments primarily engaged in (1) making (i.e., the primary production) nonferrous metals by smelting ore and/or (2) the primary refining of nonferrous metals by electrolytic methods or other processes.

The data published with NAICS code 331419 include the following SIC industry:

3339 Primary nonferrous metals, n.e.c.

# 33142 Copper Rolling, Drawing, Extruding, and Alloying

This industry comprises establishments primarily engaged in one or more of the following: (1) recovering copper or copper alloys from scraps; (2) alloying purchased copper; (3) rolling, drawing, or extruding shapes, (e.g., bar, plate, sheet, strip, tube, and wire) from purchased copper; and (4) recovering copper or copper alloys from scrap and rolling drawing, or extruding shapes (e.g., bar, plate, sheet, strip, tube, and wire).

## 331421 Copper Rolling, Drawing, and Extruding

This U.S. industry comprises establishments primarily engaged in (1) rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, tube (except bare or insulated copper communication or energy wire)) from purchased copper; and/or (2) recovering copper from scrap and rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, tube (except bare or insulated copper communication or energy wire in integrated mills)).

The data published with NAICS code 331421 include the following SIC industry:

3351 Copper rolling and drawing

## 331422 Copper Wire (Except Mechanical) Drawing

This U.S. industry comprises establishments primarily engaged in drawing or drawing and insulating communication and energy wire and cable from purchased copper or in integrated secondary smelting and wire drawing plants.

The data published with NAICS code 331422 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

# 331423 Secondary Smelting, Refining, and Alloying of Copper

This U.S. industry comprises establishments primarily engaged in (1) recovering copper and copper alloys from scrap and/or (2) alloying purchased copper. Establishments in this industry make primary forms, such as ingot, wire bar, cake, and slab from copper or copper alloys, such as brass and bronze.

The data published with NAICS code 331423 include the following SIC industries:

3341 Secondary nonferrous metals (pt)

3399 Primary metal products, n.e.c. (pt)

# 33149 Nonferrous Metal (Except Copper and Aluminum) Rolling, Drawing, Extruding, and Alloying

This industry comprises establishments primarily engaged in one or more of the following: (1) recovering nonferrous metals (except copper and aluminum) and nonferrous metal alloys from scrap; (2) alloying purchased nonferrous metals (except copper and aluminum); (3) rolling, drawing, and extruding shapes from purchased nonferrous metals (except copper and aluminum); and (4) recovering nonferrous metals from scrap (except copper and aluminum) and rolling, drawing, or extruding shapes in integrated facilities.

# 331491 Nonferrous Metal (Except Copper and Aluminum) Rolling, Drawing, and Extruding

This U.S. industry comprises establishments primarily engaged in (1) rolling, drawing, or extruding shapes (e.g., bar, plate, sheet, strip, tube) from purchased nonferrous metals) and/or (2) recovering nonferrous metals from scrap and rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, tube) in integrated mills.

The data published with NAICS code 331491 include the following SIC industries:

3356 Nonferrous rolling and drawing, n.e.c.

3357 Nonferrous wire drawing and insulting (pt)

## 331492 Secondary Smelting, Refining, and Alloying of Nonferrous Metal (Except Copper and Aluminum)

This U.S. industry comprises establishments primarily engaged in (1) alloying purchased nonferrous metals and/or (2) recovering nonferrous metals from scrap. Establishments in this industry make primary forms (e.g., bar, billet, bloom, cake, ingot, slab, slug, wire) using smelting or refining processes.

The data published with NAICS code 331492 include the following SIC industries:

3313 Electrometallurgical products (pt)

3341 Secondary nonferrous metals (pt)

3399 Primary metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 331492 include establishments primarily engaged in the manufacture of other nonferrous additive alloys. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## 3315 Foundries

This industry group comprises establishments primarily engaged in pouring molten metal into molds or dies to form castings. Establishments making castings and further manufacturing, such as machining or assembling, a specific manufactured product are classified in the industry of the finished product. Foundries may perform operations, such as cleaning and deburring, on the castings they manufacture. More involved processes, such as tapping, threading, milling, or machining to tight tolerances, that transform castings into more finished products are classified elsewhere in the manufacturing sector based on the product being made.

Establishments in this industry group make castings from purchased metals or in integrated secondary smelting and casting facilities. When the production of primary metals is combined with making castings, the establishment is classified in 331 with the primary metal being made.

## **33151 Ferrous Metal Foundries**

This industry comprises establishments primarily engaged in pouring molten iron and steel into molds of a desired shape to make castings. Establishments in this industry purchase iron and steel made in other establishments.

## 331511 Iron Foundries

This U.S. industry comprises establishments primarily engaged in pouring molten pig iron or iron alloys into molds to manufacture castings, (e.g., cast iron man-hole covers, cast iron pipe, cast iron skillets). Establishments in this industry purchase iron made in other establishments.

The data published with NAICS code 331511 include the following SIC industries:

3321 Gray iron foundries

3322 Malleable iron foundries

## **331512 Steel Investment Foundries**

This U.S. industry comprises establishments primarily engaged in manufacturing steel investment castings. Investment molds are formed by covering a wax shape with a refractory slurry. After the refractory slurry hardens, the wax is melted, leaving a seamless mold. Investment molds provide highly detailed, consistent castings. Establishments in this industry purchase steel made in other establishments.

The data published with NAICS code 331512 include the following SIC industry:

3324 Steel investment foundries

## 331513 Steel Foundries (Except Investment)

This U.S. industry comprises establishments primarily engaged in manufacturing steel castings (except steel investment castings). Establishments in this industry purchase steel made in other establishments.

The data published with NAICS code 331513 include the following SIC industry:

3325 Steel foundries, n.e.c.

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## **33152 Nonferrous Metal Foundries**

This industry comprises establishments primarily engaged in pouring and/or introducing molten nonferrous metal, under high pressure, into metal molds or dies to manufacture castings. Establishments in this industry purchase nonferrous metals made in other establishments.

## 331521 Aluminum Die-Casting Foundries

This U.S. industry comprises establishments primarily engaged in introducing molten aluminum, under high pressure, into molds or dies to make aluminum diecastings. Establishments in this industry purchase aluminum made in other establishments.

The data published with NAICS code 331521 include the following SIC industry:

3363 Aluminum die-castings

# 331522 Nonferrous (Except Aluminum) Die-Casting Foundries

This U.S. industry comprises establishments primarily engaged in introducing molten nonferrous metal (except aluminum), under high pressure, into molds to make nonferrous metal die-castings. Establishments in this industry purchase nonferrous metals made in other establishments.

The data published with NAICS code 331522 include the following SIC industry:

3364 Nonferrous die-casting, except aluminum

# 331524 Aluminum Foundries (Except Die-Casting)

This U.S. industry comprises establishments primarily engaged in pouring molten aluminum into molds to manufacture aluminum castings. Establishments in this industry purchase aluminum made in other establishments.

The data published with NAICS code 331524 include the following SIC industry:

3365 Aluminum foundries

### 331525 Copper Foundries (Except Die-Casting)

This U.S. industry comprises establishments primarily engaged in pouring molten copper into molds to manufacture copper castings. Establishments in this industry purchase copper made in other establishments.

The data published with NAICS code 331525 include the following SIC industry:

3366 Copper foundries

# 331528 Other Nonferrous Foundries (Except Die-Casting)

This U.S. industry comprises establishments primarily engaged in pouring molten nonferrous metals (except aluminum and copper) into molds to manufacture nonferrous castings (except aluminum die-castings, nonferrous (except aluminum) die-castings, aluminum castings, and copper castings). Establishments in this industry purchase nonferrous metals, such as nickel, lead, and zinc, made in other establishments.

The data published with NAICS code 331528 include the following SIC industry:

3369 Nonferrous foundries, n.e.c.

#### **332 Fabricated Metal Product Manufacturing**

Industries in the Fabricated Metal Product Manufacturing subsector transform metal into intermediate or end products, other than machinery, computers and electronics, and metal furniture or treating metals and metal formed products fabricated elsewhere. Important fabricated metal processes are forging, stamping, bending, forming, and machining, used to shape individual pieces of metal; and other processes, such as welding and assembling, used to join separate parts together. Establishments in this subsector may use one of these processes or a combination of these processes.

The NAICS structure for this subsector distinguishes the forging and stamping processes in a single industry. The remaining industries, in the subsector, group establishments based on similar combinations of processes used to make products.

The manufacturing performed in the Fabricated Metal Product Manufacturing subsector begins with manufactured metal shapes. The establishments in this sector further fabricate the purchased metal shapes into a product. For instance, the Spring and Wire Product Manufacturing industry starts with wire and fabricates such items.

Within manufacturing there are other establishments that make the same products made by this subsector; only these establishments begin production further back in the production process. These establishments have a more integrated operation. For instance, one establishment may manufacture steel, draw it into wire, and make wire products in the same establishment. Such operations are classified in the Primary Metal Manufacturing subsector.

### **3321 Forging and Stamping**

This NAICS industry group includes establishments classified in NAICS Industry 33211, Forging and Stamping.

#### 33211 Forging and Stamping

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing forgings from purchased metals; (2) manufacturing metal custom roll forming products; (3) manufacturing metal stamped and spun products (except automotive, cans, coins); and (4) manufacturing powder metallurgy products. Establishments making metal forgings, metal stampings, and metal spun products and further manufacturing (e.g., machining, assembling) a specific manufactured product are classified in the industry of the finished product. Metal forging, metal stamping, and metal spun products establishments may perform surface finishing operations, such as cleaning and deburring, on the products they manufacture.

## 332111 Iron and Steel Forging

This U.S. industry comprises establishments primarily engaged in manufacturing iron and steel forgings from purchased iron and steel by hammering mill shapes. Establishments making iron and steel forgings and further manufacturing (e.g., machining, assembling) a specific manufactured product are classified in the industry of the finished product. Iron and steel forging establishments may perform surface finishing operations, such as cleaning and deburring, on the forgings they manufacture.

The data published with NAICS code 332111 include the following SIC industry:

3462 Iron and steel forgings

### **332112 Nonferrous Forging**

This U.S. industry comprises establishments primarily engaged in manufacturing nonferrous forgings from purchased nonferrous metals by hammering mill shapes. Establishments making nonferrous forgings and further manufacturing (e.g., machining, assembling) a specific manufactured product are classified in the industry of the finished product. Nonferrous forging establishments may perform surface finishing operations, such as cleaning and deburring, on the forgings they manufacture.

The data published with NAICS code 332112 include the following SIC industry:

3463 Nonferrous forgings

### 332114 Custom Roll Forming

This U.S. industry comprises establishments primarily engaged in custom roll forming metal products by use of rotary motion of rolls with various contours to bend or shape the products.

The data published with NAICS code 332114 include the following SIC industry:

3449 Miscellaneous metal work (pt)

#### 332115 Crown and Closure Manufacturing

This U.S. industry comprises establishments primarily engaged in stamping metal crowns and closures, such as bottle caps and home canning lids and rings.

The data published with NAICS code 332115 include the following SIC industry:

3466 Crowns and closures

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### 332116 Metal Stamping

This U.S. industry comprises establishments primarily engaged in manufacturing unfinished metal stampings and spinning unfinished metal products (except crowns, cans, closures, automotive, and coins). Establishments making metal stampings and metal spun products and further manufacturing (e.g., machining, assembling) a specific product are classified in the industry of the finished product. Metal stamping and metal spun products establishments may perform surface finishing operations, such as cleaning and deburring, on the products they manufacture.

The data published with NAICS code 332116 include the following SIC industry:

3469 Metal stampings, n.e.c. (pt)

#### 332117 Powder Metallurgy Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing powder metallurgy products by compacting them in a shaped die and sintering. Establishments in this industry generally make a wide range of parts on a job or order basis.

The data published with NAICS code 332117 include the following SIC industry:

3499 Fabricated metal products, n.e.c. (pt)

### **3322 Cutlery and Handtool Manufacturing**

This NAICS industry group includes establishments classified in NAICS Industry 33221, Cutlery and Handtool Manufacturing.

#### 33221 Cutlery and Handtool Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing nonprecious and precious plated metal cutlery and flatware; (2) manufacturing nonpowered hand and edge tools, (3) manufacturing nonpowered handsaws; (4) manufacturing saw blades, all types (including those for sawing machines); and (5) manufacturing metal kitchen utensils (except cutting-type) and pots and pans (except those manufactured by casting (e.g., cast iron skillets) or stamped without further fabrication).

## 332211 Cutlery and Flatware (Except Precious) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonprecious and precious plated metal cutlery and flatware.

The data published with NAICS code 332211 include the following SIC industries:

3421 Cutlery

3914 Silverware and plated ware (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census– Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332211 do not include establishments primarly engaged in the manufacture of hand-operated clippers for human hair. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## 332212 Hand and Edge Tool Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonpowered hand and edge tools (except saws).

The data published with NAICS code 332212 include the following SIC industries:

3423 Hand and edge tools, n.e.c.

3523 Farm machinery and equipment (pt)

3524 Lawn and garden equipment (pt)

3545 Machine tool accessories (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

3799 Transportation equipment, n.e.c. (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332212 include establishments primarily engaged in the manufacture of wheelbarrows or quality control laser equipment but do not include establishments primarily engaged in the manufacture of tool-type shears or fish wire, an electrical wiring tool. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### 332213 Saw Blade and Handsaw Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing nonpowered handsaws and/or (2) manufacturing saw blades, all types (including those for power sawing machines).

The data published with NAICS code 332213 include the following SIC industry:

3425 Saw blades and handsaws

## 332214 Kitchen Utensil, Pot, and Pan Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal kitchen utensils (except cutting-type), pots, and pans (except those manufactured by casting (e.g., cast iron skillets) or stamped without further fabrication).

The data published with NAICS code 332214 include the following SIC industry:

3469 Metal stampings, n.e.c. (pt)

## 3323 Architectural and Structural Metals Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33231, Plate Work and Fabricated Structural Product Manufacturing; and 33232, Ornamental and Architectural Metal Products Manufacturing.

## 33231 Plate Work and Fabricated Structural Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following: (1) prefabricated metal buildings, panels, and sections; (2) structural metal products; and (3) metal plate work products.

## 332311 Prefabricated Metal Building and Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing prefabricated metal buildings, panels, and sections.

The data published with NAICS code 332311 include the following SIC industry:

3448 Prefabricated metal buildings

## 332312 Fabricated Structural Metal Manufacturing

This U.S. industry comprises establishments primarily engaged in fabricating structural metal products, such as concrete reinforcing bars and fabricated bar joists.

The data published with NAICS code 332312 include the following SIC industries:

3441 Fabricated structural metal

3449 Miscellaneous metal work (pt)

### 332313 Plate Work Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated metal plate work by cutting, punching, bending, shaping, and welding purchased metal plate.

The data published with NAICS code 332313 include the following SIC industry:

3443 Fabricated plate work, boiler shops (pt)

## 33232 Ornamental and Architectural Metal Products Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following: (1) metal framed windows (i.e., typically using purchased glass) and metal doors; (2) sheet metal work; and (3) ornamental and architectural metal products.

## 332321 Metal Window and Door Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal framed windows (i.e., typically using purchased glass) and metal doors. Examples of products made by these establishments are metal door frames; metal framed window and door screens; metal molding and trim (except automotive); and metal curtain walls.

The data published with NAICS code 332321 include the following SIC industries:

2499 Wood products, n.e.c. (pt)

3442 Metal doors, sash, and trim

3449 Miscellaneous metal work (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332321 include establishments primarily engaged in the manufacture of metal finished moldings for mirrors and pictures. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## 332322 Sheet Metal Work Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sheet metal work (except stampings).

The data published with NAICS code 332322 include the following SIC industry:

3444 Sheet metal work (pt)

## 332323 Ornamental and Architectural Metal Work Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ornamental and architectural metal work, such as staircases, metal open steel flooring, fire escapes, railings, and scaffolding.

The data published with NAICS code 332323 include the following SIC industries:

3446 Architectural metal work

3449 Miscellaneous metal work (pt)

3523 Farm machinery and equipment (pt)

# 3324 Boiler, Tank, and Shipping Container Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33241, Power Boiler and Heat Exchanger Manufacturing; 33242, Metal Tank (Heavy Gauge) Manufacturing; and 33243, Metal Can, Box, and Other Metal Container (Light Gauge) Manufacturing.

## 33241 Power Boiler and Heat Exchanger Manufacturing

This industry comprises establishments primarily engaged in manufacturing power boilers and heat exchangers. Establishments in this industry may perform installation in addition to manufacturing power boilers and heat exchangers.

## 332410 Power Boiler and Heat Exchanger Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing power boilers and heat exchangers. Establishments in this industry may perform installation in addition to manufacturing power boilers and heat exchangers.

The data published with NAICS code 332410 include the following SIC industry:

3443 Fabricated plate work, boiler shops (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332410 do not include establishments primarily engaged in the manufacture of nuclear control drive mechanisms. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## 33242 Metal Tank (Heavy Gauge) Manufacturing

This industry comprises establishments primarily engaged in cutting, forming, and joining heavy gauge metal to manufacture tanks, vessels, and other containers.

## 332420 Metal Tank (Heavy Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in cutting, forming, and joining heavy gauge metal to manufacture tanks, vessels, and other containers.

The data published with NAICS code 332420 include the following SIC industry:

3443 Fabricated plate work, boiler shops (pt)

# 33243 Metal Can, Box, and Other Metal Container (Light Gauge) Manufacturing

This industry comprises establishments primarily engaged in forming light gauge metal containers.

## 332431 Metal Can Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal cans, lids, and ends.

The data published with NAICS code 332431 include the following SIC industry:

3411 Metal cans

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# 332439 Other Metal Container Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal (light gauge) containers (except cans).

The data published with NAICS code 332439 include the following SIC industries:

3412 Metal barrels, drums, and pails

3429 Hardware, n.e.c. (pt)

3444 Sheet metal work (pt)

3499 Fabricated metal products, n.e.c. (pt)

3537 Industrial trucks and tractors (pt)

## 3325 Hardware Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33251, Hardware Manufacturing.

## 33251 Hardware Manufacturing

This industry comprises establishments primarily engaged in manufacturing metal hardware, such as metal hinges, metal handles, keys, and locks (except coinoperated, time locks).

## 332510 Hardware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal hardware, such as metal hinges, metal handles, keys, and locks (except coinoperated, time locks).

The data published with NAICS code 332510 include the following SIC industries:

3429 Hardware, n.e.c. (pt)

3499 Fabricated metal products, n.e.c. (pt)

## 3326 Spring and Wire Product Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33261, Spring and Wire Product Manufacturing.

## 33261 Spring and Wire Product Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing steel springs by forming, such as cutting, bending, and heat winding metal rod or strip stock and/or (2) manufacturing wire springs and fabricated wire products from wire drawn elsewhere (except watch and clock springs).

## 332611 Spring (Heavy Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing heavy gauge springs by forming, such as cutting, bending, and heat winding rod or strip stock. The data published with NAICS code 332611 include the following SIC industry:

3493 Steel springs, except wire

## 332612 Spring (Light Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing light gauge springs from purchased wire or strip.

The data published with NAICS code 332612 include the following SIC industry:

3495 Wire springs (pt)

## 332618 Other Fabricated Wire Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated wire products (except springs) made from purchased wire.

The data published with NAICS code 332618 include the following SIC industries:

3315 Steel wire and related products (pt)

3399 Primary metal products, n.e.c. (pt)

3496 Miscellaneous fabricated wire products

## 3327 Machine Shops; Turned Product; and Screw, Nut, and Bolt Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33271, Machine Shops; and 33272, Turned Product and Screw, Nut, and Bolt Manufacturing.

## 33271 Machine Shops

This industry comprises establishments known as machine shops primarily engaged in machining metal parts on a job or order basis. Generally machine shop jobs are low volume using machine tools, such as lathes (including computer numerically controlled); automatic screw machines; and machines for boring, grinding, and milling.

## 332710 Machine Shops

This U.S. industry comprises establishments known as machine shops primarily engaged in machining metal parts on a job or order basis. Generally machine shop jobs are low volume using machine tools, such as lathes (including computer numerically controlled); automatic screw machines; and machines for boring, grinding, and milling.

The data published with NAICS code 332710 include the following SIC industry:

3599 Industrial machinery, n.e.c. (pt)

# 33272 Turned Product and Screw, Nut, and Bolt Manufacturing

This industry comprises establishments primarily engaged in (1) machining precision turned products or (2) manufacturing metal bolts, nuts, screws, rivets, and other industrial fasteners. Included in this industry are establishments primarily engaged manufacturing parts for machinery and equipment on a customized basis.

# 332721 Precision Turned Product Manufacturing

This U.S. industry comprises establishments known as precision turned manufacturers primarily engaged in machining precision products of all materials on a job or order basis. Generally precision turned product jobs are large volume using machines, such as automatic screw machines, rotary transfer machines, computer numerically controlled (CNC) lathes, or turning centers.

The data published with NAICS code 332721 include the following SIC industry:

3451 Screw machine products

## 332722 Bolt, Nut, Screw, Rivet, and Washer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal bolts, nuts, screws, rivets, and washers, and other industrial fasteners using machines, such as headers, threaders, and nut forming machines.

The data published with NAICS code 332722 include the following SIC industry:

3452 Bolts, nuts, rivets, and washers

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332722 do not include establishments primarily engaged in the manufacture of turnbuckles and hose clamps. The NAICS definitions will be fully implemented with the 2002 Economic Census.

# 3328 Coating, Engraving, Heat Treating, and Allied Activities

This NAICS industry group includes establishments classified in NAICS Industry 33281, Coating, Engraving, Heat Treating, and Allied Activities.

# 33281 Coating, Engraving, Heat Treating, and Allied Activities

This industry comprises establishments primarily engaged in one or more of the following: (1) heat treating metals and metal products; (2) enameling, lacquering, varnishing metals and metal products; (3) hot dip galvanizing metals and metal products; (4) engraving, chasing, or etching metals and metal products (except jewelry; personal goods carried on or about the person, such as compacts and cigarette cases; precious metal products (except precious plated flatware and other plated ware); and printing plates); (5) powder coating metals and metal products; (6) electroplating, plating, anodizing, coloring, and finishing metals and metal products; and (7) providing other metal surfacing services for the trade. Establishments in this industry coat engravings and heat treat metals and metal formed products fabricated elsewhere.

# 332811 Metal Heat Treating

This U.S. industry comprises establishments primarily engaged in heat treating, such as annealing, tempering, and brazing, metals and metal products for the trade.

The data published with NAICS code 332811 include the following SIC industry:

3398 Metal heat treating

## 332812 Metal Coating, Engraving (Except Jewelry and Silverware), and Allied Services to Manufacturers

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) enameling, lacquering, and varnishing metals and metal products; (2) hot dip galvanizing metals and metal products; (3) engraving, chasing, or etching metals and metal products (except jewelry; personal goods carried on or about the person, such as compacts and cigarette cases; precious metal products (except precious plated flatware and other plated ware); and printing plates); (4) powder coating metals and metal products; and (5) providing other metal surfacing services for the trade.

The data published with NAICS code 332812 include the following SIC industry:

3479 Metal coating and allied services (pt)

# 332813 Electroplating, Plating, Polishing, Anodizing, and Coloring

This U.S. industry comprises establishments primarily engaged in electroplating, plating, anodizing, coloring, buffing, polishing, cleaning, and sandblasting metals and metal products for the trade.

The data published with NAICS code 332813 include the following SIC industry:

3471 Plating and polishing

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332813 do not include establishments primarily engaged in laminating steel. The NAICS definitions will be fully implemented with the 2002 Economic Census.

# 3329 Other Fabricated Metal Product Manufacturing

This industry group comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metals, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, and nuts and bolts).

# 33291 Metal Valve Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following metal valves: (1) industrial valves; (2) fluid power valves and hose fittings; (3) plumbing fixture fittings and trim; and (4) other metal valves and pipe fittings.

# 332911 Industrial Valve Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial valves and valves for water works and municipal water systems.

The data published with NAICS code 332911 include the following SIC industries:

3491 Industrial valves

# 332912 Fluid Power Valve and Hose Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power valves and hose fittings.

The data published with NAICS code 332912 include the following SIC industries:

3492 Fluid power valves and hose fittings

3728 Aircraft parts and equipment, n.e.c. (pt)

# 332913 Plumbing Fixture Fitting and Trim Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal and plastics plumbing fixture fittings and trim, such as faucets, flush valves, and shower heads.

The data published with NAICS code 332913 include the following SIC industry:

3432 Plumbing fittings and brass goods (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332913 include establishments primarily engaged in the manufacture of lawn hose nozzels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

# 332919 Other Metal Valve and Pipe Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal valves (except industrial valves, fluid power valves, fluid power hose fittings, and plumbing fixture fittings and trim).

The data published with NAICS code 332919 include the following SIC industries:

3429 Hardware, n.e.c. (pt)

3494 Valves and pipe fittings, n.e.c. (pt)

3499 Fabricated metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332919 do not include establishments primarily engaged in manufacturing lawn hose nozzles. The NAICS definitions will be fully implemented with the 2002 Economic Census.

# 33299 All Other Fabricated Metal Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metal products, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, nuts and bolts, and metal valves).

# 332991 Ball and Roller Bearing Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ball and roller bearings of all materials.

The data published with NAICS code 332991 include the following SIC industry:

3562 Ball and roller bearings

# 332992 Small Arms Ammunition Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small arms ammunition.

The data published with NAICS code 332992 include the following SIC industry:

3482 Small arms ammunition

# 332993 Ammunition (Except Small Arms) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ammunition (except small arms). Examples of products made by these establishments are bombs, depth charges, rockets (except guided missiles), grenades, mines, and torpedoes. The data published with NAICS code 332993 include the following SIC industry:

3483 Ammunition, except small arms, n.e.c.

## 332994 Small Arms Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small firearms that are carried and fired by the individual.

The data published with NAICS code 332994 include the following SIC industry:

3484 Small arms

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332994 do not include establishments primarily engaged in the manufacture of tranquilizer guns. The NAICS definitions will be fully implemented with the 2002 Economic Census.

# 332995 Other Ordnance and Accessories Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ordnance (except small arms) and accessories.

The data published with NAICS code 332995 include the following SIC industry:

3489 Ordnance and accessories, n.e.c.

# 332996 Fabricated Pipe and Pipe Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in fabricating (such as cutting, threading and bending) metal pipes and pipe fittings made from purchased metal pipe.

The data published with NAICS code 332996 include the following SIC industries:

3353 Aluminum sheet, plate, and foil (pt)

3498 Fabricated pipe and fittings

## 332997 Industrial Pattern Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial patterns.

The data published with NAICS code 332997 include the following SIC industry:

3543 Industrial patterns

# 332998 Enameled Iron and Metal Sanitary Ware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing enameled iron and metal sanitary ware. The data published with NAICS code 332998 include the following SIC industry:

3431 Metal sanitary ware

# 332999 All Other Miscellaneous Fabricated Metal Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metals, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, nuts, and bolts, metal valves, ball and roller bearings, ammunition, small arms and other ordnances, fabricated pipes and pipe fittings, industrial patterns, and enameled iron and metal sanitary ware).

The data published with NAICS code 332999 include the following SIC industries:

3291 Abrasive products (pt)

3432 Plumbing fixture fittings and trim

3494 Valves and pipe fittings, n.e.c. (pt)

3497 Metal foil and leaf (pt)

3499 Fabricated metal products, n.e.c. (pt)

3537 Industrial trucks and tractors (pt)

3599 Industrial machinery, n.e.c. (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332999 do not include establishments primarily engaged in manufacturing fireplace fixtures, traps, handcuffs and leg irons, ladder jacks, or other like metal products, or primarily engaged in manufacturing precious metal hollowware. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## **333 Machinery Manufacturing**

Industries in the Machinery Manufacturing subsector create end products that apply mechanical force, for example, the application of gears and levers, to perform work. Some important processes for the manufacture of machinery are forging, stamping, bending, forming, and machining that are used to shape individual pieces of metal. Processes, such as welding and assembling are used to join separate parts together. Although these processes are similar to those used in metal fabricating establishments, machinery manufacturing is different because it typically employs multiple metal forming processes in manufacturing the various parts of the machine. Moreover, complex assembly operations are an inherent part of the production process.

In general, design considerations are very important in machinery production. Establishments specialize in making machinery designed for particular applications. Thus, design is considered to be part of the production process for the purpose of implementing NAICS. The NAICS structure reflects this by defining industries and industry groups that make machinery for different applications. A broad distinction exists between machinery that is generally used in a variety of industrial applications (i.e., general-purpose machinery) and machinery that is designed to be used in a particular industry (i.e., specialpurpose machinery). Three industry groups consist of special-purpose machinery—Agricultural, Construction, and Mining Machinery Manufacturing; Industrial Machinery Manufacturing; and Commercial and Service Industry Machinery Manufacturing. The other industry groups make general-purpose machinery: Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing; Metalworking Machinery Manufacturing; Engine, Turbine, and Power Transmission Equipment Manufacturing; and Other General-Purpose Machinery Manufacturing.

# 3331 Agriculture, Construction, and Mining Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33311, Agricultural Implement Manufacturing; 33312, Construction Machinery Manufacturing; and 33313, Mining and Oil and Gas Field Machinery Manufacturing.

## 33311 Agricultural Implement Manufacturing

This industry comprises establishments primarily engaged in manufacturing farm machinery and equipment, powered mowing equipment, and other powered home lawn and garden equipment.

## 333111 Farm Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing agricultural and farm machinery and equipment, and other turf and grounds care equipment, including planting, harvesting, and grass mowing equipment (except lawn and garden-type).

The data published with NAICS code 333111 include the following SIC industry:

3523 Farm machinery and equipment (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333111 do not include establishments primarily engaged in manufacturing cotton ginning machinery. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## 333112 Lawn and Garden Tractor and Home Lawn and Garden Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing powered lawnmowers, lawn and garden tractors, and other home lawn and garden equipment, such as tillers, shredders, and yard vacuums and blowers.

The data published with NAICS code 333112 include the following SIC industry:

3524 Lawn and garden equipment (pt)

# **33312 Construction Machinery Manufacturing**

This industry comprises establishments primarily engaged in manufacturing construction machinery, surface mining machinery, and logging equipment.

## 333120 Construction Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing construction machinery, surface mining machinery, and logging equipment.

The data published with NAICS code 333120 include the following SIC industry:

3531 Construction machinery (pt)

# 33313 Mining and Oil and Gas Field Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing oil and gas field and underground mining machinery and equipment.

# 333131 Mining Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing underground mining machinery and equipment, such as coal breakers, mining cars, core drills, coal cutters, rock drills and (2) manufacturing mineral beneficiating machinery and equipment used in surface or underground mines.

The data published with NAICS code 333131 include the following SIC industry:

3532 Mining machinery

# 333132 Oil and Gas Field Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing oil and gas field machinery and equipment, such as oil and gas field drilling machinery and equipment; oil and gas field production machinery and equipment; and oil and gas field derricks and (2) manufacturing water well drilling machinery. The data published with NAICS code 333132 include the following SIC industry:

3533 Oil field machinery

# **3332 Industrial Machinery Manufacturing**

This NAICS industry group includes establishments classified in the following NAICS Industries: 33321, Sawmill and Woodworking Machinery Manufacturing; 33322, Plastics and Rubber Industry Machinery Manufacturing; and 33329, Other Industrial Machinery Manufacturing.

# 33321 Sawmill and Woodworking Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing sawmill and woodworking machinery (except handheld), such as circular and band sawing equipment, planing machinery, and sanding machinery.

# 333210 Sawmill and Woodworking Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sawmill and woodworking machinery (except handheld), such as circular and band sawing equipment, planing machinery, and sanding machinery.

The data published with NAICS code 333210 include the following SIC industry:

3553 Woodworking machinery

## 33322 Plastics and Rubber Industry Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing plastics and rubber products making machinery, such as plastics compression, extrusion and injection molding machinery and equipment, and tire building and recapping machinery and equipment.

# 333220 Plastics and Rubber Industry Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing plastics and rubber products making machinery, such as plastics compression, extrusion and injection molding machinery and equipment, and tire building and recapping machinery and equipment.

The data published with NAICS code 333220 include the following SIC industry:

3559 Special industry machinery, n.e.c. (pt)

## **33329 Other Industrial Machinery Manufacturing**

This industry comprises establishments primarily engaged in manufacturing industrial machinery (except agricultural and farm-type, construction, mining, sawmill and woodworking, and plastics and rubber products making machinery).

## 333291 Paper Industry Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing paper industry machinery for making paper and paper products, such as pulp making machinery, paper and paperboard making machinery, and paper and paperboard converting machinery.

The data published with NAICS code 333291 include the following SIC industry:

3554 Paper industries machinery

## 333292 Textile Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing textile machinery for making thread, yarn, and fiber.

The data published with NAICS code 333292 include the following SIC industries:

3552 Textile machinery

3699 Electrical equipment and supplies, n.e.c. (pt)

## 333293 Printing Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing printing and bookbinding machinery and equipment, such as printing presses, typesetting machinery, and bindery machinery.

The data published with NAICS code 333293 include the following SIC industries:

3555 Printing trades machinery

3699 Electrical equipment and supplies, n.e.c. (pt)

## 333294 Food Product Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing food and beverage manufacturing-type machinery and equipment, such as dairy product plant machinery and equipment (e.g., homogenizers, pasteurizers, ice cream freezers), bakery machinery and equipment (e.g., dough mixers, bake ovens, pastry rolling machines), meat and poultry processing and preparation machinery, and other commercial food products machinery (e.g., slicers, choppers, and mixers).

The data published with NAICS code 333294 include the following SIC industry:

3556 Food products machinery

## 333295 Semiconductor Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wafer processing equipment, semiconductor assembly and packaging equipment, and other semiconductor making machinery.

The data published with NAICS code 333295 include the following SIC industry:

3559 Special industry machinery, n.e.c. (pt)

# 333298 All Other Industrial Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial machinery (except agricultural and farm-type, construction and mining machinery, sawmill and woodworking machinery, plastics and rubber making machinery, paper and paperboard making machinery, textile machinery, printing machinery and equipment, food manufacturing-type machinery, and semiconductor making machinery).

The data published with NAICS code 333298 include the following SIC industries:

3559 Special industry machinery, n.e.c. (pt)

3639 Household appliances, n.e.c. (pt)

# 3333 Commercial and Service Industry Machinery Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33331, Commercial and Service Industry Machinery Manufacturing.

# 33331 Commercial and Service Industry Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing commercial and service machinery, such as automatic vending machinery, commercial laundry and drycleaning machinery, office machinery, photographic and photocopying machinery, optical instruments and machinery, automotive maintenance equipment (except mechanic's handtools), industrial vacuum cleaners, and commercial-type cooking equipment.

# 333311 Automatic Vending Machine Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing coin, token, currency, or magnetic card operated vending machines and/or (2) manufacturing coin operated mechanism for machines, such as vending machines, lockers, and laundry machines.

The data published with NAICS code 333311 include the following SIC industry:

3581 Automatic merchandising machines

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333311 do not include establishments primarily engaged in the manufacture of change making machines. The NAICS definitions will be fully implemented with the 2002 Economic Census.

# 333312 Commercial Laundry, Drycleaning, and Pressing Machine Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing commercial and industrial laundry and drycleaning equipment and pressing machines.

The data published with NAICS code 333312 include the following SIC industry:

3582 Commercial laundry equipment

## 333313 Office Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing office machinery (except computers and photocopying equipment), such as mailhandling machinery and equipment, calculators, typewriters, and dedicated word processing equipment.

The data published with NAICS code 333313 include the following SIC industries:

3578 Calculating and accounting equipment (pt)

3579 Office machines, n.e.c. (pt)

# 333314 Optical Instrument and Lens Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing optical instruments and lens, such as binoculars, microscopes (except electron, proton), telescopes, prisms, and lenses (except ophthalmic); (2) coating or polishing lenses (except ophthalmic); and (3) mounting lenses (except ophthalmic).

The data published with NAICS code 333314 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3827 Optical instruments and lenses

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333314 include establishments primarily engaged in the manufacture of sighting and tracking laser products.

# 333315 Photographic and Photocopying Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing photographic and photocopying equipment, such as cameras (except television, video, digital projectors, film developing equipment, photocopying equipment, and microfilm equipment).

The data published with NAICS code 333315 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3861 Photographic equipment and supplies (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333315 include establishments primarily engaged in the manufacture of photographic laser products.

# 333319 Other Commercial and Service Industry Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing commercial and service industry equipment (except automatic vending machines, commercial laundry, drycleaning and pressing machines, office machinery, optical instruments and lenses, and photographic and photocopying equipment).

The data published with NAICS code 333319 include the following SIC industries:

3559 Special industry machinery, n.e.c. (pt)

3589 Service industry machinery, n.e.c.

3599 Industrial machinery, n.e.c. (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333319 do not include establishments primarily engaged in the manufacture of beauty and barbershop equipment, except chairs. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## 3334 Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33341, Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing.

## 33341 Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing ventilating, heating, airconditioning, and commercial and industrial refrigeration and freezer equipment.

# 333411 Air Purification Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing stationary air purification equipment, such as industrial dust and fume collection equipment, electrostatic precipitation equipment, warm air furnace filters, air washers, and other dust collection equipment. The data published with NAICS code 333411 include the following SIC industry:

3564 Blowers and fans (pt)

# 333412 Industrial and Commercial Fan and Blower Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing attic fans and industrial and commercial fans and blowers, such as commercial exhaust fans and commercial ventilating fans.

The data published with NAICS code 333412 include the following SIC industry:

3564 Blowers and fans (pt)

## 333414 Heating Equipment (Except Warm Air Furnaces) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing heating equipment (except electric and warm air furnaces), such as heating boilers, heating stoves, floor and wall furnaces, and wall and baseboard heating units.

The data published with NAICS code 333414 include the following SIC industries:

3433 Heating equipment, except electric

3634 Electric housewares and fans (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333414 do not include establishments primarily engaged in the manufacture of cooling towers of wood, metal, or sheet metal, or the manufacture of electric swimming pool heaters. The NAICS definitions will be fully implemented with the 2002 Economic Census.

# 333415 Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing air-conditioning (except motor vehicle) and warm air furnace equipment and/or (2) manufacturing commercial and industrial refrigeration and freezer equipment.

The data published with NAICS code 333415 include the following SIC industries:

3443 Fabricated plate work, boiler shops (pt)

3585 Refrigeration and heating equipment (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333415 include establishments primarily engaged in the manufacture of metal cooling towers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

## 3335 Metalworking Machinery Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33351, Metalworking Machinery Manufacturing.

# 33351 Metalworking Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing metalworking machinery, such as metal cutting and metal forming machine tools; cutting tools; and accessories for metalworking machinery; special dies, tools, jigs, and fixtures; industrial molds; rolling mill machinery; assembly machinery; coil handling, conversion, or straightening equipment; and wire drawing and fabricating machines.

# 333511 Industrial Mold Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial molds for casting metals or forming other materials, such as plastics, glass, or rubber.

The data published with NAICS code 333511 include the following SIC industry:

3544 Special dies, tools, jigs, and fixtures (pt)

## 333512 Machine Tool (Metal Cutting Types) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal cutting machine tools (except handtools).

The data published with NAICS code 333512 include the following SIC industries:

3541 Machine tools, metal cutting types

3699 Electrical equipment and supplies, n.e.c. (pt)

# 333513 Machine Tool (Metal Forming Types) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal forming machine tools (except handtools), such as punching, sheering, bending, forming, pressing, forging and die-casting machines.

The data published with NAICS code 333513 include the following SIC industries:

3542 Machine tools, metal forming types

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# 333514 Special Die and Tool, Die Set, Jig, and Fixture Manufacturing

This U.S. industry comprises establishments, known as tool and die shops, primarily engaged in manufacturing special tools and fixtures, such as cutting dies and jigs.

The data published with NAICS code 333514 include the following SIC industry:

3544 Special dies, tools, jigs, and fixtures (pt)

# 333515 Cutting Tool and Machine Tool Accessory Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing accessories and attachments for metal cutting and metal forming machine tools.

The data published with NAICS code 333515 include the following SIC industry:

3545 Machine tool accessories (pt)

# 333516 Rolling Mill Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing rolling mill machinery and equipment for metal production.

The data published with NAICS code 333516 include the following SIC industry:

3547 Rolling mill machinery

# 333518 Other Metalworking Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal working machinery (except industrial molds; metal cutting machine tools; metal forming machine tools; special dies and tools, die sets, jigs, and fixtures; cutting tools and machine tool accessories; and rolling mill machinery and equipment).

The data published with NAICS code 333518 include the following SIC industry:

3549 Metalworking machinery, n.e.c.

# 3336 Engine, Turbine, and Power Transmission Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33361, Engine, Turbine, and Power Transmission Equipment Manufacturing.

# 33361 Engine, Turbine, and Power Transmission Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing turbines, power transmission equipment, and internal combustion engines (except automotive gasoline and aircraft).

# 333611 Turbine and Turbine Generator Set Units Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing turbines (except aircraft); and complete turbine generator set units, such as steam, hydraulic, gas, and wind.

The data published with NAICS code 333611 include the following SIC industry:

3511 Turbines and turbine generator sets

# 333612 Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing gears, speed changers, and industrial high-speed drives (except hydrostatic).

The data published with NAICS code 333612 include the following SIC industry:

3566 Speed changers, drives, and gears

# 333613 Mechanical Power Transmission Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing mechanical power transmission equipment (except motor vehicle and aircraft), such as plain bearings, brakes and clutches (except motor vehicle and electromagnetic industrial control), couplings, joints, and drive chains.

The data published with NAICS code 333613 include the following SIC industry:

3568 Power transmission equipment, n.e.c.

# 333618 Other Engine Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing internal combustion engines (except automotive gasoline and aircraft).

The data published with NAICS code 333618 include the following SIC industries:

3519 Internal combustion engines, n.e.c. (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

# 3339 Other General-Purpose Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33391, Pump and Compressor Manufacturing; 33392, Material Handling Equipment Manufacturing; and 33399, All Other General-Purpose Machinery Manufacturing.

## 33391 Pump and Compressor Manufacturing

This industry comprises establishments primarily engaged in manufacturing pumps and compressors, such as general-purpose air and gas compressors, nonagricultural spraying and dusting equipment, general-purpose pumps and pumping equipment (except fluid power pumps and motors), and measuring and dispensing pumps.

# 333911 Pump and Pumping Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing general-purpose pumps and pumping equipment (except fluid power pumps and motors), such as reciprocating pumps, turbine pumps, centrifugal pumps, rotary pumps, diaphragm pumps, domestic water system pumps, oil well and oil field pumps and sump pumps.

The data published with NAICS code 333911 include the following SIC industries:

3561 Pumps and pumping equipment

3743 Railroad equipment (pt)

## 333912 Air and Gas Compressor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing general-purpose air and gas compressors, such as reciprocating compressors, centrifugal compressors, vacuum pumps (except laboratory), and nonagricultural spraying and dusting compressors and spray gun units.

The data published with NAICS code 333912 include the following SIC industry:

3563 Air and gas compressors

## 333913 Measuring and Dispensing Pump Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing measuring and dispensing pumps, such as gasoline pumps and lubricating oil measuring and dispensing pumps.

The data published with NAICS code 333913 include the following SIC industry:

3586 Measuring and dispensing pumps

# 33392 Material Handling Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing material handling equipment, such as elevators and moving stairs; conveyors and conveying equipment; overhead traveling cranes, hoists, and monorail systems; and industrial trucks, tractors, trailers, and stacker machinery.

# 333921 Elevator and Moving Stairway Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing elevators and moving stairways.

The data published with NAICS code 333912 include the following SIC industry:

3534 Elevators and moving stairways

# 333922 Conveyor and Conveying Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing conveyors and conveying equipment, such as gravity conveyors, trolley conveyors, tow conveyors, pneumatic tube conveyors, carousel conveyors, farm conveyors, and belt conveyors.

The data published with NAICS code 333922 include the following SIC industries:

3523 Farm machinery and equipment (pt)

3535 Conveyors and conveying equipment

## 333923 Overhead Traveling Crane, Hoist, and Monorail System Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing overhead traveling cranes, hoists, and monorail systems.

The data published with NAICS code 333923 include the following SIC industries:

3531 Construction machinery (pt)

3536 Hoists, cranes, and monorails

# 333924 Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, and stackers (i.e., truck-type) such as forklifts, pallet loaders and unloaders, and portable loading docks.

The data published with NAICS code 333924 include the following SIC industry:

3537 Industrial trucks and tractors (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332994 do not include establishments primarily engaged in the manufacture of tranquilizer guns. The NAICS definitions will be fully implemented with the 2002 Economic Census.

# 33399 All Other General-Purpose Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing general-purpose machinery (except ventilation, heating, air-conditioning, and commercial refrigeration equipment; metal working machinery; engines, turbines, and power transmission equipment; pumps and compressors; and material handling equipment).

## 333991 Power-Driven Handtool Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing power-driven (e.g., battery, corded, pneumatic) handtools, such as drills, screwguns, circular saws, chain saws, staplers, and nailers.

The data published with NAICS code 333991 include the following SIC industry:

3546 Power-driven handtools

# 333992 Welding and Soldering Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing welding and soldering equipment and accessories (except transformers), such as arc, resistance, gas, plasma, laser, electron beam, and ultrasonic welding equipment; welding electrodes; coated or cored welding wire; and soldering equipment (except handheld).

The data published with NAICS code 333992 include the following SIC industries:

3548 Welding apparatus (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

# 333993 Packaging Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing packaging machinery, such as wrapping, bottling, canning, and labeling machinery.

The data published with NAICS code 333993 include the following SIC industry:

3565 Packaging machinery

# 333994 Industrial Process Furnace and Oven Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial process furnaces, ovens, induction and dielectric heating equipment, and kilns (except cement, chemical, wood).

The data published with NAICS code 333994 include the following SIC industry:

3567 Industrial furnaces and ovens

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### 333995 Fluid Power Cylinder and Actuator Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power (i.e., hydraulic and pneumatic) cylinders and actuators.

The data published with NAICS code 333995 include the following SIC industries:

3593 Fluid power cylinders and actuators

3728 Aircraft parts and equipment, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333995 include establishments primarily engaged in the manufacture of aerospace-type fluid power actuators. The NAICS definitions will be fully implemented with the 2002 Economic Census.

#### 333996 Fluid Power Pump and Motor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power (i.e., hydraulic and pneumatic) pumps and motors.

The data published with NAICS code 333996 include the following SIC industries:

3594 Fluid power pumps and motors

3728 Aircraft parts and equipment, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333995 include establishments primarily engaged in the manufacture of aerospace-type fluid power actuators. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### 333997 Scale and Balance (Except Laboratory) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing scales and balances (except laboratory).

The data published with NAICS code 333997 include the following SIC industry:

3596 Scales and balances, except laboratory

#### 333999 All Other Miscellaneous General-Purpose Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing general-purpose machinery (except ventilating, heating, air-conditioning, and commercial refrigeration equipment; metal working machinery; engines, turbines, and power transmission equipment; pumps and compressors; material handling equipment; power-driven handtools; welding and soldering equipment; packaging machinery; industrial process furnaces and ovens; fluid power cylinders and actuators; fluid power pumps and motors; and scales and balances).

The data published with NAICS code 333999 include the following SIC industries:

3569 General industrial machinery, n.e.c.

3599 Industrial machinery, n.e.c. (pt)

### 334 Computer and Electronic Product Manufacturing

Industries in the Computer and Electronic Product Manufacturing subsector group establishments that manufacture computers, computer peripherals, communications equipment, and similar electronic products, and establishments that manufacture components for such products. The Computer and Electronic Product Manufacturing industries have been combined in the hierarchy of NAICS because of the economic significance they have attained. Their rapid growth suggests that they will become even more important to the economies of all three North American countries in the future, and in addition their manufacturing processes are fundamentally different from the manufacturing processes of other machinery and equipment. The design and use of integrated circuits and the application of highly specialized miniaturization technologies are common elements in the production technologies of the computer and electronic subsector. Convergence of technology motivates this NAICS subsector. Digitalization of sound recording, for example, causes both the medium (the compact disc) and the equipment to resemble the technologies for recording, storing, transmitting, and manipulating data. Communications technology and equipment have been converging with computer technology. When technologically related components are in the same sector, it makes it easier to adjust the classification for future changes, without needing to redefine its basic structure. The creation of the Computer and Electronic Product Manufacturing subsector will assist in delineating new and emerging industries because the activities that will serve as the probable sources of new industries, such as computer manufacturing and communications equipment manufacturing, or computers and audio equipment are brought together. As new activities emerge, they are less likely, therefore, to cross the subsector boundaries of the classification.

### 3341 Computer and Peripheral Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33411, Computer and Peripheral Equipment Manufacturing.

### 33411 Computer and Peripheral Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or assembling electronic computers, such as mainframes, personal computers, workstations, laptops, and computer servers; and computer peripheral equipment, such as storage devices, printers, monitors, input/output devices and terminals. Computers can be analog, digital, or hybrid. Digital computers, the most common type, are devices that do all of the following: (1) store the processing program or programs and the data immediately necessary for the execution of the program; (2) can be freely programmed in accordance with the requirements of the user; (3) perform arithmetical computations specified by the user; and (4) execute, without human intervention, a processing program that requires the computer to modify its execution by logical decision during the processing run. Analog computers are capable of simulating mathematical models and comprise at least analog, control, and programming elements.

#### 334111 Electronic Computer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or assembling electronic computers, such as mainframes, personal computers, workstations, laptops, and computer servers. Computers can be analog, digital, or hybrid. Digital computers, the most common type, are devices that do all of the following: (1) store the processing program or programs and the data immediately necessary for the execution of the program; (2) can be freely programmed in accordance with the requirements of the user; (3) perform arithmetical computations specified by the user; and (4) execute, without human intervention, a processing program that requires the computer to modify its execution by logical decision during the processing run. Analog computers are capable of simulating mathematical models and contain at least analog, control, and programming elements. The manufacture of computers includes the assembly or integration of processors, coprocessors, memory, storage, and input/output devices into a user-programmable final product.

The data published with NAICS code 334111 include the following SIC industry:

3571 Electronic computers

#### 334112 Computer Storage Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing computer storage devices that allow the storage and retrieval of data from a phase change, magnetic, optical, or magnetic/optical media. Examples of products made by these establishments are CD-ROM drives, floppy disk drives, hard disk drives, and tape storage and backup units. The data published with NAICS code 334112 include the following SIC industry:

3572 Computer storage devices

#### 334113 Computer Terminal Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing computer terminals. Computer terminals are input/output devices that connect with a central computer for processing.

The data published with NAICS code 334113 include the following SIC industry:

3575 Computer terminals

#### 334119 Other Computer Peripheral Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing computer peripheral equipment (except storage devices and computer terminals).

The data published with NAICS code 334119 include the following SIC industries:

3577 Computer peripheral equipment, n.e.c.

3578 Calculating and accounting equipment (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334119 include establishments primarily engaged in the manufacture of laser products.

#### **3342 Communications Equipment Manufacturing**

This NAICS industry group includes establishments classified in the following NAICS Industries: 33421, Telephone Apparatus Manufacturing; 33422, Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing; and 33429, Other Communications Equipment Manufacturing.

#### 33421 Telephone Apparatus Manufacturing

This industry comprises establishments primarily engaged in manufacturing wire telephone and data communications equipment. These products may be standalone or board-level components of a larger system. Examples of products made by these establishments are central office switching equipment, cordless telephones (except cellular), PBX equipment, telephones, telephone answering machines, and data communications equipment, such as bridges, routers, and gateways.

### 334210 Telephone Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wire telephone and data communications equipment. These products may be standalone or board-level components of a larger system. Examples of products made by these establishments are central office switching equipment, cordless telephones (except cellular), PBX equipment, telephones, telephone answering machines, and data communications equipment, such as bridges, routers, and gateways.

The data published with NAICS code 334210 include the following SIC industry:

3661 Telephone and telegraph apparatus (pt)

#### 33422 Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communications equipment. Examples of products made by these establishments are: transmitting and receiving antennas, cable television equipment, GPS equipment, pagers, cellular phones, mobile communications equipment, and radio and television studio and broadcasting equipment.

#### 334220 Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communications equipment. Examples of products made by these establishments are: transmitting and receiving antennas, cable television equipment, GPS equipment, pagers, cellular phones, mobile communications equipment, and radio and television studio and broadcasting equipment.

The data published with NAICS code 334220 include the following SIC industries:

3663 Radio and TV communications equipment

3679 Electronic components, n.e.c. (pt)

#### 33429 Other Communications Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing communications equipment (except telephone apparatus, and radio and television broadcast, and wireless communications equipment).

#### 334290 Other Communications Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing communications equipment (except telephone apparatus, radio and television broadcast, and wireless communications equipment). The data published with NAICS code 334290 include the following SIC industry:

3669 Communications equipment, n.e.c.

#### 3343 Audio and Video Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33431, Audio and Video Equipment Manufacturing.

#### 33431 Audio and Video Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing electronic audio and video equipment for home entertainment, motor vehicle, public address and musical instrument amplifications. Examples of products made by these establishments are video cassette recorders, televisions, stereo equipment, speaker systems, household-type video cameras, jukeboxes, and amplifiers for musical instruments and public address systems.

#### 334310 Audio and Video Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic audio and video equipment for home entertainment, motor vehicle, public address and musical instrument amplifications. Examples of products made by these establishments are video cassette recorders, televisions, stereo equipment, speaker systems, household-type video cameras, jukeboxes, and amplifiers for musical instruments and public address systems.

The data published with NAICS code 334310 include the following SIC industry:

3651 Household audio and video equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334310 do not include establishments primarily engaged in the manufacture of radio headphones. The NAICS definitions will be fully implemented with the 2002 Economic Census.

#### 3344 Semiconductor and Other Electronic Component Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33441, Semiconductor and Other Electronic Component Manufacturing.

### 33441 Semiconductor and Other Electronic Component Manufacturing

This industry comprises establishments primarily engaged in manufacturing semiconductors and other components for electronic applications. Examples of products made by these establishments are capacitors, resistors, microprocessors, bare and loaded printed circuit boards, electron tubes, electronic connectors, and computer modems.

#### 334411 Electron Tube Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electron tubes and parts (except glass blanks). Examples of products made by these establishments are cathode ray tubes (i.e., picture tubes), klystron tubes, magnetron tubes, and traveling wave tubes.

The data published with NAICS code 334411 include the following SIC industries:

3671 Electron tubes

#### 334412 Bare Printed Circuit Board Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing bare (i.e., rigid or flexible) printed circuit boards without mounted electronic components. These establishments print, perforate, plate, screen, etch, or photoprint interconnecting pathways for electric current on laminates.

The data published with NAICS code 334412 include the following SIC industry:

3672 Printed circuit boards

#### 334413 Semiconductor and Related Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing semiconductors and related solid state devices. Examples of products made by these establishments are integrated circuits, memory chips, microprocessors, diodes, transistors, solar cells, and other optoelectronic devices.

The data published with NAICS code 334413 include the following SIC industry:

3674 Semiconductors and related devices

#### 334414 Electronic Capacitor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic fixed and variable capacitors and condensers.

The data published with NAICS code 334414 include the following SIC industry:

3675 Electronic capacitors

#### 334415 Electronic Resistor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic resistors, such as fixed and variable resistors, resistor networks, thermistors, and varistors. The data published with NAICS code 334415 include the following SIC industry:

3676 Electronic resistors

### 334416 Electronic Coil, Transformer, and Other Inductor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic inductors, such as coils and transformers.

The data published with NAICS code 334416 include the following SIC industries:

3661 Telephone and telegraph apparatus (pt)

3677 Electronic coils and transformers

3825 Instruments to measure electricity (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334416 include establishments primarily engaged in the manufacture of telephone transformers or portable instrument transformers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

#### 334417 Electronic Connector Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic connectors, such as coaxial, cylindrical, rack and panel, pin and sleeve, printed circuit and fiber optic.

The data published with NAICS code 334417 include the following SIC industry:

3678 Electronic connectors

#### 334418 Printed Circuit Assembly (Electronic Assembly) Manufacturing

This U.S. industry comprises establishments primarily engaged in loading components onto printed circuit boards or who manufacture and ship loaded printed circuit boards. Also known as printed circuit assemblies, electronics assemblies, or modules, these products are printed circuit boards that have some or all of the semiconductor and electronic components inserted or mounted and are inputs to a wide variety of electronic systems and devices.

The data published with NAICS code 334418 include the following SIC industries:

3661 Telephone and telegraph apparatus (pt)

3679 Electronic components, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334418 do not include

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establishments primarily engaged in the manufacture of plotter controllers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

# 334419 Other Electronic Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic components (except electron tubes; bare printed circuit boards; semiconductors and related devices; electronic capacitors; electronic resistors; coils, transformers and other inductors; connectors; and loaded printed circuit boards).

The data published with NAICS code 334419 include the following SIC industry:

3679 Electronic components, n.e.c. (pt)

#### 3345 Navigational, Measuring, Medical, and Control Instruments Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33451, Navigational, Measuring, Medical, and Control Instruments Manufacturing.

### 33451 Navigational, Measuring, Medical, and Control Instruments Manufacturing

This industry comprises establishments primarily engaged in manufacturing navigational, measuring, electromedical, and control instruments. Examples of products made by these establishments are aeronautical instruments, appliance regulators and controls (except switches), laboratory analytical instruments, navigation and guidance systems, and physical properties testing equipment.

### 334510 Electromedical and Electrotherapeutic Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electromedical and electrotherapeutic apparatus, such as magnetic resonance imaging equipment, medical ultrasound equipment, pacemakers, hearing aids, electrocardiographs, and electromedical endoscopic equipment.

The data published with NAICS code 334510 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3842 Surgical appliances and supplies (pt)

3845 Electromedical equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334510 include establishments primarily engaged in the manufacture of electromedical laser products.

### 334511 Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing search, detection, navigation, guidance, aeronautical, and nautical systems and instruments. Examples of products made by these establishments are aircraft instruments (except engine), flight recorders, navigational instruments and systems, radar systems and equipment, and sonar systems and equipment.

The data published with NAICS code 334511 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3812 Search and navigation equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334511 include establishments primarily engaged in the manufacture of search and detection laser products.

#### 334512 Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use

This U.S. industry comprises establishments primarily engaged in manufacturing automatic controls and regulators for applications, such as heating, air-conditioning, refrigeration and appliances.

The data published with NAICS code 334512 include the following SIC industry:

3822 Environmental controls

#### 334513 Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables

This U.S. industry comprises establishments primarily engaged in manufacturing instruments and related devices for measuring, displaying, indicating, recording, transmitting, and controlling industrial process variables. These instruments measure, display or control (monitor, analyze, and so forth) industrial process variables, such as temperature, humidity, pressure, vacuum, combustion, flow, level, viscosity, density, acidity, concentration, and rotation.

The data published with NAICS code 334513 include the following SIC industry:

3823 Process control instruments

# 334514 Totalizing Fluid Meter and Counting Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing totalizing (i.e., registering) fluid meters and counting devices. Examples of products made by these establishments are gas consumption meters, water consumption meters, parking meters, taxi meters, motor vehicle gauges, and fare collection equipment.

The data published with NAICS code 334514 include the following SIC industry:

3824 Fluid meters and counting devices

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334514 do not include establishments primarily engaged in the manufacture of automotive ammeters and voltmeters or motor vehicle gauges. The NAICS definitions will be fully implemented with the 2002 Economic Census.

# 334515 Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals

This U.S. industry comprises establishments primarily engaged in manufacturing instruments for measuring and testing the characteristics of electricity and electrical signals. Examples of products made by these establishments are circuit and continuity testers, volt meters, ohm meters, wattmeters, multimeters, and semiconductor test equipment.

The data published with NAICS code 334515 include the following SIC industry:

3825 Instruments to measure electricity (pt)

#### 334516 Analytical Laboratory Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing instruments and instrumentation systems for laboratory analysis of the chemical or physical composition or concentration of samples of solid, fluid, gaseous, or composite material.

The data published with NAICS code 334516 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3826 Analytical instruments

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334516 include establishments primarily engaged in the manufacture of analytical and scientific laser products.

#### 334517 Irradiation Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing irradiation apparatus and tubes for applications, such as medical diagnostic, medical therapeutic, industrial, research and scientific evaluation. Irradiation can take the form of beta-rays, gamma-rays, X-rays, or other ionizing radiation. The data published with NAICS code 334517 include the following SIC industry:

3844 X-ray apparatus and tubes

#### 334518 Watch, Clock, and Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or assembling clocks; watches; timing mechanisms for clockwork operated devices; time clocks; time and date recording devices; and clock and watch parts (except crystals), such as springs, jewels, and modules.

The data published with NAICS code 334518 include the following SIC industries:

3495 Wire springs (pt)

3579 Office machines, n.e.c. (pt)

3873 Watches, clocks, and watchcases

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334518 do not include establishments primarily engaged in the manufacture of electronic chronometers or watch jewels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

#### 334519 Other Measuring and Controlling Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing measuring and controlling devices (except search, detection, navigation, guidance, aeronautical, and nautical instruments and systems; automatic environmental controls for residential, commercial, and appliance use; instruments for measurement, display, and control of industrial process variables; totalizing fluid meters and counting devices; instruments for measuring and testing electricity and electrical signals; analytical laboratory instruments; watches, clocks, and parts; irradiation equipment; and electromedical and electrotherapeutic apparatus).

The data published with NAICS code 334519 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3829 Measuring and controlling devices, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334519 include establishments primarily engaged in the manufacture of commercial geophysical, meteorological, survey, and drafting laser products.

# 3346 Manufacturing and Reproducing Magnetic and Optical Media

This NAICS industry group includes establishments classified in NAICS Industry 33461, Manufacturing and Reproducing Magnetic and Optical Media.

# 33461 Manufacturing and Reproducing Magnetic and Optical Media

This industry comprises establishments primarily engaged in (1) manufacturing optical and magnetic media, such as blank audio tape, blank video tape, and blank diskettes and/or (2) mass duplicating (i.e., making copies) audio, video, software, and other data on magnetic, optical, and similar media.

### 334611 Software Reproducing

This U.S. industry comprises establishments primarily engaged in mass reproducing computer software. These establishments do not generally develop any software; they mass reproduce data and programs on magnetic media, such as diskettes, tapes, or cartridges. Establishments in this industry mass reproduce products, such as CD-ROMs and game cartridges.

The data published with NAICS code 334611 include the following SIC industries:

7379 Computer Related Services, n.e.c. (pt)

# 334612 Prerecorded Compact Disc (Except Software), Tape, and Record Reproducing

This U.S. industry comprises establishments primarily engaged in mass reproducing audio and video material on magnetic or optical media. Examples of products mass reproduced by these establishments are audio compact discs, prerecorded audio and video cassettes, and laser discs.

The data published with NAICS code 334612 include the following SIC industries:

3652 Prerecorded records and tapes

7819 Services allied to motion pictures (pt)

# 334613 Magnetic and Optical Recording Media Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing magnetic and optical recording media, such as blank magnetic tape, blank diskettes, blank optical discs, hard drive media, and blank magnetic tape cassettes.

The data published with NAICS code 334613 include the following SIC industry:

3695 Magnetic and optical recording media

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334613 do not include establishments primarily engaged in the manufacture of magnetic tape cleaners. The NAICS definitions will be fully implemented with the 2002 Economic Census.

# 335 Electrical Equipment, Appliance, and Component Manufacturing

Industries in the Electrical Equipment, Appliance, and Component Manufacturing subsector manufacture products that generate, distribute and use electrical power. Electric lighting equipment manufacturing establishments produce electric lamp bulbs, lighting fixtures, and parts. Household appliance manufacturing establishments make both small and major electrical appliances and parts. Electrical equipment manufacturing establishments make goods, such as electric motors, generators, transformers, and switchgear apparatus. Other electrical equipment and component manufacturing establishments make devices for storing electrical power (e.g., batteries), for transmitting electricity (e.g., insulated wire), and wiring devices (e.g., electrical outlets, fuse boxes, and light switches).

### 3351 Electric Lighting Equipment Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33511, Electric Lamp Bulb and Parts Manufacturing; and 33512, Lighting Fixture Manufacturing.

#### 33511 Electric Lamp Bulb and Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing electric light bulbs and tubes, and parts and components (except glass blanks for electric light bulbs).

#### 335110 Electric Lamp Bulb and Part Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric light bulbs and tubes, and parts and components (except glass blanks for electric light bulbs).

The data published with NAICS code 335110 include the following SIC industry:

3641 Electric lamps

#### **33512 Lighting Fixture Manufacturing**

This industry comprises establishments primarily engaged in manufacturing electric lighting fixtures (except vehicular), nonelectric lighting equipment, lamp shades (except glass and plastics) and lighting fixture components (except current-carrying wiring devices).

### 335121 Residential Electric Lighting Fixture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fixed or portable residential electric lighting fixtures and lamp shades of metal, paper, or textiles. Residential electric lighting fixtures include those for use both inside and outside the residence.

The data published with NAICS code 335121 include the following SIC industries:

3089 Plastics products, n.e.c. (pt)

3645 Residential lighting fixtures

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 335121 include establishments primarily engaged in the manufacture of plastic lampshades. The NAICS definitions will be fully implemented with the 2002 Economic Census.

#### 335122 Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing commercial, industrial, and institutional electric lighting fixtures.

The data published with NAICS code 335122 include the following SIC industry:

3646 Commercial lighting fixtures

#### 335129 Other Lighting Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric lighting fixtures (except residential, commercial, industrial, institutional, and vehicular electric lighting fixtures) and nonelectric lighting equipment.

The data published with NAICS code 335129 include the following SIC industries:

3648 Lighting equipment, n.e.c.

3699 Electrical equipment and supplies, n.e.c. (pt)

#### 3352 Household Appliance Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33521, Small Electrical Appliance Manufacturing; and 33522, Major Appliance Manufacturing.

#### 33521 Small Electrical Appliance Manufacturing

This industry comprises establishments primarily engaged in manufacturing small electric appliances and electric housewares, household-type fans, household-type vacuum cleaners, and other electric household-type floor care machines.

#### 335211 Electric Housewares and Household Fan Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small electric appliances and electric housewares for heating, cooking, and other purposes, and electric household-type fans (except attic fans).

The data published with NAICS code 335211 include the following SIC industry:

3634 Electric housewares and fans (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 335211 do not include establishments primarily engaged in the manufacture of electric hair clippers for humans. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### 335212 Household Vacuum Cleaner Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric vacuum cleaners, electric floor waxing machines, and other electric floor care machines typically for household use.

The data published with NAICS code 335212 include the following SIC industries:

3635 Household vacuum cleaners

3639 Household appliances, n.e.c. (pt)

#### 33522 Major Appliance Manufacturing

This industry comprises establishments primarily engaged in manufacturing household-type cooking appliances, household-type laundry equipment, household-type refrigerators, upright and chest freezers, and other electrical and nonelectrical major household-type appliances, such as dishwashers, water heaters, and garbage disposal units.

#### 335221 Household Cooking Appliance Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type electric and nonelectric cooking equipment (except small electric appliances and electric housewares).

The data published with NAICS code 335221 include the following SIC industry:

3631 Household cooking equipment

### 335222 Household Refrigerator and Home Freezer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type refrigerators and upright and chest freezers. The data published with NAICS code 335222 include the following SIC industry:

3632 Household refrigerators and freezers

#### 335224 Household Laundry Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type laundry equipment.

The data published with NAICS code 335224 include the following SIC industry:

3633 Household laundry equipment

### 335228 Other Major Household Appliance Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric and nonelectric major household-type appliances (except cooking equipment, refrigerators, upright and chest freezers, and householdtype laundry equipment).

The data published with NAICS code 335228 include the following SIC industry:

3639 Household appliances, n.e.c. (pt)

#### **3353 Electrical Equipment Manufacturing**

This NAICS industry group includes establishments classified in NAICS Industry 33531, Electrical Equipment Manufacturing.

#### 33531 Electrical Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers; electric motors, generators, and motor generator sets; switchgear and switchboard apparatus; relays; and industrial controls.

#### 335311 Power, Distribution, and Specialty Transformer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers (except electronic components). Industrial-type and consumer-type transformers in this industry vary (e.g., step up or step down) voltage but do not convert alternating to direct or direct to alternating current.

The data published with NAICS code 335311 include the following SIC industries:

3548 Welding apparatus (pt)

3612 Transformers

#### 335312 Motor and Generator Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric motors (except internal combustion engine starting motors), power generators (except battery charging alternators for internal combustion engines), and motor generator sets (except turbine generator set units). This industry includes establishments rewinding armatures on a factory basis.

The data published with NAICS code 335312 include the following SIC industries:

3621 Motors and generators

7694 Armature rewinding shops (pt)

#### 335313 Switchgear and Switchboard Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing switchgear and switchboard apparatus.

The data published with NAICS code 335313 include the following SIC industry:

3613 Switchgear and switchboard apparatus

#### 335314 Relay and Industrial Control Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing relays, motor starters and controllers, and other industrial controls and control accessories.

The data published with NAICS code 335314 include the following SIC industry:

3625 Relays and industrial controls

#### 3359 Other Electrical Equipment and Component Manufacturing

This industry group comprises establishments manufacturing electrical equipment and components (except electric lighting equipment, household-type appliances, transformers, switchgear, relays, motors, and generators).

#### **33591 Battery Manufacturing**

This industry comprises establishments primarily engaged in manufacturing primary and storage batteries.

#### 335911 Storage Battery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing storage batteries.

The data published with NAICS code 335911 include the following SIC industry:

3691 Storage batteries

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MANUFACTURING—INDUSTRY SERIES

#### 335912 Primary Battery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wet or dry primary batteries.

The data published with NAICS code 335912 include the following SIC industry:

3692 Primary batteries, dry and wet

# 33592 Communication and Energy Wire and Cable Manufacturing

This industry comprises establishments insulating fiberoptic cable, and manufacturing insulated nonferrous wire and cable from nonferrous wire drawn in other establishments.

### 335921 Fiber Optic Cable Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing insulated fiber-optic cable from purchased fiber-optic strand.

The data published with NAICS code 335921 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

# 335929 Other Communication and Energy Wire Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing insulated wire and cable of nonferrous metals from purchased wire.

The data published with NAICS code 335929 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

#### **33593 Wiring Device Manufacturing**

This industry comprises establishments primarily engaged in manufacturing current-carrying wiring devices and noncurrent-carrying wiring devices for wiring electrical circuits.

#### 335931 Current-Carrying Wiring Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing current-carrying wiring devices.

The data published with NAICS code 335931 include the following SIC industry:

3643 Current-carrying wiring devices

#### 335932 Noncurrent-Carrying Wiring Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing noncurrent-carrying wiring devices.

The data published with NAICS code 335932 include the following SIC industry:

3644 Noncurrent-carrying wiring devices

# 33599 All Other Electrical Equipment and Component Manufacturing

This industry comprises establishments primarily engaged in manufacturing electrical equipment (except electric lighting equipment, household-type appliances, transformers, motors, generators, switchgear, relays, industrial controls, batteries, communication and energy wire and cable, and wiring devices).

### 335991 Carbon and Graphite Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing carbon, graphite, and metalgraphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; carbon and graphite fibers; and other carbon, graphite, and metalgraphite products.

The data published with NAICS code 335991 include the following SIC industry:

3624 Carbon and graphite products

### 335999 All Other Miscellaneous Electrical Equipment and Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial and commercial electric apparatus and other equipment (except lighting equipment, household appliances, transformers, motors, generators, switchgear, relays, industrial controls, batteries, communication and energy wire and cable, wiring devices, and carbon and graphite products). This industry includes power converters (i.e., AC to DC and DC to AC), power supplies, surge suppressors, and similar equipment for industrial-type and consumer-type equipment.

The data published with NAICS code 335999 include the following SIC industries:

3629 Electrical industrial apparatus, n.e.c.

3699 Electrical equipment and supplies, n.e.c. (pt)

#### **336 Transportation Equipment Manufacturing**

Industries in the Transportation Equipment Manufacturing subsector produce equipment for transporting people and goods. Transportation equipment is a type of machinery. An entire subsector is devoted to this activity because of the significance of its economic size in all three North American countries.

Establishments in this subsector utilize production processes similar to those of other machinery manufacturing establishments - bending, forming, welding, machining, and assembling metal or plastic parts into components and finished products. However, the assembly of components and subassemblies and their further assembly into finished vehicles tends to be a more common production process in this subsector than in the Machinery Manufacturing subsector.

MANUFACTURING—INDUSTRY SERIES

NAICS has industry groups for the manufacture of equipment for each mode of transport - road, rail, air, and water. Parts for motor vehicles warrant a separate industry group because of their importance and because parts manufacture requires less assembly, and the establishments that manufacture only parts are not as vertically integrated as those that make complete vehicles.

Land use motor vehicle equipment not designed for highway operation (e.g., agricultural equipment, construction equipment, and materials handling equipment) is classified in the appropriate NAICS subsector based on the type and use of the equipment.

#### 3361 Motor Vehicle Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33611, Automobile and Light Duty Motor Vehicle Manufacturing; and 33612, Heavy Duty Truck Manufacturing.

#### 33611 Automobile and Light Duty Motor Vehicle Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing complete automobile and light duty motor vehicles (i.e., body and chassis or unibody) or (2) manufacturing chassis only.

#### 336111 Automobile Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing complete automobiles (i.e., body and chassis or unibody) or (2) manufacturing automobile chassis only.

The data published with NAICS code 336111 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

#### 336112 Light Truck and Utility Vehicle Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing complete light trucks and utility vehicles (i.e., body and chassis) or (2) manufacturing light truck and utility vehicle chassis only. Vehicles made include light duty vans, pick-up trucks, minivans, and sport utility vehicles.

The data published with NAICS code 336112 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

#### 33612 Heavy Duty Truck Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing heavy duty truck chassis and assembling complete heavy duty trucks, buses, heavy duty motor homes, and other special-purpose, heavy duty motor vehicles for highway use or (2) manufacturing heavy duty truck chassis only.

#### 336120 Heavy Duty Truck Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing heavy duty truck chassis and assembling complete heavy duty trucks, buses, heavy duty motor homes, and other special-purpose, heavy duty motor vehicles for highway use or (2) manufacturing heavy duty truck chassis only.

The data published with NAICS code 336120 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

#### 3362 Motor Vehicle Body and Trailer Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33621, Motor Vehicle Body and Trailer Manufacturing.

#### 33621 Motor Vehicle Body and Trailer Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing motor vehicle bodies and cabs or (2) manufacturing truck, automobile and utility trailers, truck trailer chassis, detachable trailer bodies and detachable trailer chassis. The products made may be sold separately or may be assembled on purchased chassis and sold as complete vehicles.

Motor homes are units where the motor and the living quarters are contained in the same integrated unit, while travel trailers are designed to be towed by a motor unit, such as an automobile or a light truck.

#### 336211 Motor Vehicle Body Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing truck and bus bodies and cabs and automobile bodies. The products made may be sold separately or may be assembled on purchased chassis and sold as complete vehicles.

The data published with NAICS code 336211 include the following SIC industries:

3711 Motor vehicles and car bodies (pt)

3713 Truck and bus bodies

3714 Motor vehicle parts and accessories (pt)

#### 336212 Truck Trailer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing truck trailers, truck trailer chassis, cargo container chassis, detachable trailer bodies, and detachable trailer chassis for sale separately.

The data published with NAICS code 336212 include the following SIC industry:

3715 Truck trailers

#### **336213 Motor Home Manufacturing**

This U.S. industry comprises establishments primarily engaged in (1) manufacturing motor homes on purchased chassis and/or (2) manufacturing conversion vans on an assembly line basis. Motor homes are units where the motor and the living quarters are integrated in the same unit.

The data published with NAICS code 336213 include the following SIC industry:

3716 Motor homes

### 336214 Travel Trailer and Camper Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing travel trailers and campers designed to attach to motor vehicles; (2) manufacturing pickup coaches (i.e., campers) and caps (i.e., covers) for mounting on pickup trucks; and (3) manufacturing automobile, utility, and light-truck trailers. Travel trailers do not have their own motor but are designed to be towed by a motor unit, such as an automobile or a light truck.

The data published with NAICS code 336214 include the following SIC industries:

3792 Travel trailer and campers

3799 Transportation equipment, n.e.c. (pt)

#### **3363 Motor Vehicle Parts Manufacturing**

This NAICS industry group includes establishments classified in the following NAICS Industries: 33631, Motor Vehicle Gasoline Engine and Engine Parts Manufacturing; 33632, Motor Vehicle Electrical and Electronic Equipment Manufacturing; 33633, Motor Vehicle Steering and Suspension Component (Except Spring) Manufacturing; 33634, Motor Vehicle Brake System Manufacturing; 33635, Motor Vehicle Transmission and Power Train Parts Manufacturing; 33636, Motor Vehicle Seating and Interior Trim Manufacturing; 33637, Motor Vehicle Metal Stamping; and 33639, Other Motor Vehicle Parts Manufacturing.

### 33631 Motor Vehicle Gasoline Engine and Engine Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle gasoline engines and engine parts, whether or not for vehicular use.

### 336311 Carburetor, Piston, Piston Ring, and Valve Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding carburetors, pistons, piston rings, and engine intake and exhaust valves. The data published with NAICS code 336311 include the following SIC industries:

3592 Carburetors, pistons, rings, and valves

#### 336312 Gasoline Engine and Engine Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding gasoline motor vehicle engines and gasoline motor vehicle engine parts, excluding carburetors, pistons, piston rings, and valves.

The data published with NAICS code 336312 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

### 33632 Motor Vehicle Electrical and Electronic Equipment Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing vehicular lighting and/or (2) manufacturing and/or rebuilding motor vehicle electrical and electronic equipment. The products made can be used for all types of transportation equipment (i.e., aircraft, automobiles, trains, ships).

### 336321 Vehicular Lighting Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing vehicular lighting fixtures.

The data published with NAICS code 336321 include the following SIC industry:

3647 Vehicular lighting equipment

### 336322 Other Motor Vehicle Electrical and Electronic Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding electrical and electronic equipment for motor vehicles and internal combustion engines.

The data published with NAICS code 336322 include the following SIC industries:

3679 Electronic components, n.e.c. (pt)

3694 Engine electrical equipment

3714 Motor vehicle parts and accessories (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336322 include establishments primarily engaged in the manufacture of electronic control modular chips for motor vehicles. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### 33633 Motor Vehicle Steering and Suspension Component (Except Spring) Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle steering mechanisms and suspension components (except springs).

#### 336330 Motor Vehicle Steering and Suspension Component (Except Spring) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle steering mechanisms and suspension components (except springs).

The data published with NAICS code 336330 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

#### 33634 Motor Vehicle Brake System Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle brake systems and related components.

### 336340 Motor Vehicle Brake System Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle brake systems and related components.

The data published with NAICS code 336340 include the following SIC industries:

3292 Asbestos products (pt)

3714 Motor vehicle parts and accessories (pt)

#### 33635 Motor Vehicle Transmission and Power Train Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle transmission and power train parts.

### 336350 Motor Vehicle Transmission and Power Train Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle transmission and power train parts.

The data published with NAICS code 336350 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

### 33636 Motor Vehicle Seating and Interior Trim Manufacturing

This industry comprises establishments primarily engaged in manufacturing motor vehicle seating, seats, seat frames, seat belts, and interior trimmings.

#### 336360 Motor Vehicle Seating and Interior Trim Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing motor vehicle seating, seats, seat frames, seat belts, and interior trimmings.

The data published with NAICS code 336360 include the following SIC industries:

2396 Automotive and apparel trimmings (pt)

2399 Fabricated textile products, n.e.c. (pt)

2531 Public building and related furniture (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336360 do not include establishments primarily engaged in the manufacture of metal motor vehicle seat frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

#### 33637 Motor Vehicle Metal Stamping

This industry comprises establishments primarily engaged in manufacturing motor vehicle stampings, such as fenders, tops, body parts, trim, and molding.

#### 336370 Motor Vehicle Metal Stamping

This U.S. industry comprises establishments primarily engaged in manufacturing motor vehicle stampings, such as fenders, tops, body parts, trim, and molding.

The data published with NAICS code 336370 include the following SIC industry:

3465 Automotive stampings

#### **33639 Other Motor Vehicle Parts Manufacturing**

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle parts and accessories (except motor vehicle gasoline engines and engine parts, motor vehicle electrical and electronic equipment, motor vehicle steering and suspension components, motor vehicle brake systems, motor vehicle transmission and power train parts, motor vehicle seating and interior trim, and motor vehicle stampings).

#### 336391 Motor Vehicle Air-Conditioning Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing air-conditioning systems and compressors for motor vehicles, such as automobiles, trucks, buses, aircraft, farm machinery, construction machinery, and other related vehicles.

The data published with NAICS code 336391 include the following SIC industry:

3585 Refrigeration and heating equipment (pt)

### 336399 All Other Motor Vehicle Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle parts and accessories (except motor vehicle gasoline engines and engine parts, motor vehicle electrical and electronic equipment, motor vehicle steering and suspension components, motor vehicle brake systems, motor vehicle transmission and power train parts, motor vehicle seating and interior trim, motor vehicle stampings, and motor vehicle air-conditioning systems and compressors).

The data published with NAICS code 336399 include the following SIC industries:

3519 Internal combustion engines, n.e.c. (pt)

3714 Motor vehicle parts and accessories (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336399 do not include establishments primarily engaged in the manufacture of luggage and utility racks or trailer hitches. The NAICS definitions will be fully implemented with the 2002 Economic Census.

#### **3364 Aerospace Product and Parts Manufacturing**

This NAICS industry group includes establishments classified in NAICS Industry 33641, Aerospace Product and Parts Manufacturing.

#### 33641 Aerospace Product and Parts Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing complete aircraft, missiles, or space vehicles; (2) manufacturing aerospace engines, propulsion units, auxiliary equipment or parts; (3) developing and making prototypes of aerospace products; (4) aircraft conversion (i.e., major modifications to systems); and (5) complete aircraft or propulsion systems overhaul and rebuilding (i.e., periodic restoration of aircraft to original design specifications).

#### 336411 Aircraft Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing or assembling complete aircraft; (2) developing and making aircraft prototypes; (3) aircraft conversion (i.e., major modifications to systems); and (4) complete aircraft overhaul and rebuilding (i.e., periodic restoration of aircraft to original design specifications).

The data published with NAICS code 336411 include the following SIC industry:

3721 Aircraft

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336411 do not include establishments primarily engaged in the manufacture of target drones. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### 336412 Aircraft Engine and Engine Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing aircraft engines and engine parts; (2) developing and making prototypes of aircraft engines and engine parts; (3) aircraft propulsion system conversion (i.e., major modifications to systems); and (4) aircraft propulsion systems overhaul and rebuilding (i.e., periodic restoration of aircraft propulsion system to original design specifications).

The data published with NAICS code 336412 include the following SIC industry:

3724 Aircraft engines and engine parts

### 336413 Other Aircraft Parts and Auxiliary Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing aircraft parts or auxiliary equipment (except engines and aircraft fluid power subassemblies) and/or (2) developing and making prototypes of aircraft parts and auxiliary equipment. Auxiliary equipment includes such items as crop dusting apparatus, armament racks, inflight refueling equipment, and external fuel tanks.

The data published with NAICS code 336413 include the following SIC industry:

3728 Aircraft parts and equipment, n.e.c. (pt)

### 336414 Guided Missile and Space Vehicle Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing complete guided missiles and space vehicles and/or (2) developing and making prototypes of guided missile or space vehicles.

The data published with NAICS code 336414 include the following SIC industry:

3761 Guided missiles and space vehicles

#### 336415 Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing guided missile and/or space vehicle propulsion units and propulsion unit parts and/or (2) developing and making prototypes of guided missile and space vehicle propulsion units and propulsion unit parts. The data published with NAICS code 336415 include the following SIC industry:

3764 Space propulsion units and parts

# 336419 Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing guided missile and space vehicle parts and auxiliary equipment (except guided missile and space vehicle propulsion units and propulsion unit parts) and/or (2) developing and making prototypes of guided missile and space vehicle parts and auxiliary equipment.

The data published with NAICS code 336419 include the following SIC industry:

3769 Space vehicle equipment, n.e.c.

# 3365 Railroad Rolling Stock Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33651, Railroad Rolling Stock Manufacturing.

# 33651 Railroad Rolling Stock Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing and/or rebuilding locomotives, locomotive frames and parts; (2) manufacturing railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and (3) manufacturing rail layers, ballast distributors, rail tamping equipment, and other railway track maintenance equipment.

# 336510 Railroad Rolling Stock Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing and/or rebuilding locomotives, locomotive frames, and parts; (2) manufacturing railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and (3) manufacturing rail layers, ballast distributors, rail tamping equipment, and other railway track maintenance equipment.

The data published with NAICS code 336510 include the following SIC industries:

3531 Construction machinery (pt)

3743 Railroad equipment (pt)

# 3366 Ship and Boat Building

This NAICS industry group includes establishments classified in NAICS Industry 33661, Ship and Boat Building.

### **33661 Ship and Boat Building**

This industry comprises establishments primarily engaged in operating shipyards or boat yards (i.e., ship or boat manufacturing facilities). Shipyards are fixed facilities with drydocks and fabrication equipment capable of building a ship, defined as watercraft typically suitable or intended for other than personal or recreational use. Boats are defined as watercraft typically suitable or intended for personal use. Activities of shipyards include the construction of ships, their repair, conversion and alteration, the production of prefabricated ship and barge sections, and specialized services, such as ship scaling.

# 336611 Ship Building and Repairing

This U.S. industry comprises establishments primarily engaged in operating a shipyard. Shipyards are fixed facilities with drydocks and fabrication equipment capable of building a ship, defined as watercraft typically suitable or intended for other than personal or recreational use. Activities of shipyards include the construction of ships, their repair, conversion and alteration, the production of prefabricated ship and barge sections, and specialized services, such as ship scaling.

The data published with NAICS code 336611 include the following SIC industry:

3731 Ship building and repairing

# 336612 Boat Building

This U.S. industry comprises establishments primarily engaged in building boats. Boats are defined as watercraft not built in shipyards and typically of the type suitable or intended for personal use.

The data published with NAICS code 336612 include the following SIC industry:

3732 Boat building and repairing (pt)

# 3369 Other Transportation Equipment Manufacturing

This industry group comprises establishments primarily engaged in manufacturing transportation equipment (except motor vehicles and parts, aerospace products and parts, railroad rolling stock, ship building, and boat manufacturing).

# 33699 Other Transportation Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, metal tricycles, complete military armored vehicles, tanks, selfpropelled weapons, vehicles pulled by draft animals, and other transportation equipment (except motor vehicles, boats, ships, railroad rolling stock, and aerospace products), including parts thereof.

#### 336991 Motorcycle, Bicycle, and Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, tricycles and similar equipment and parts.

The data published with NAICS code 336991 include the following SIC industries:

3751 Motorcycles, bicycles, and parts

3944 Games, toys, and children's vehicles (pt)

#### 336992 Military Armored Vehicle, Tank, and Tank Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing complete military armored vehicles, combat tanks, specialized components for combat tanks, and self-propelled weapons.

The data published with NAICS code 336992 include the following SIC industries:

3711 Motor vehicles and car bodies (pt)

3795 Tanks and tank components

### 336999 All Other Transportation Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing transportation equipment (except motor vehicles, motor vehicle parts, boats, ships, railroad rolling stock, aerospace products, motorcycles, bicycles, armored vehicles, and tanks).

The data published with NAICS code 336999 include the following SIC industry:

3799 Transportation equipment, n.e.c. (pt)

#### 337 Furniture and Related Product Manufacturing

Industries in the Furniture and Related Product Manufacturing subsector make furniture and related articles, such as mattresses, window blinds, cabinets, and fixtures. The processes used in the manufacture of furniture include the cutting, bending, molding, laminating, and assembly of such materials as wood, metal, glass, plastics, and rattan. However, the production process for furniture is not solely bending metal, cutting and shaping wood, or extruding and molding plastics. Design and fashion trends play an important part in the production of furniture. The integrated design of the article for both esthetic and functional qualities is also a major part of the process of manufacturing furniture. Design services may be performed by the furniture establishment's work force or may be purchased from industrial designers.

Furniture may be made of any material, but the most common ones used in North America are metal and wood. Furniture manufacturing establishments may specialize in making articles primarily from one material. Some of the equipment required to make a wooden table, for example, is different from that used to make a metal one. However, furniture is usually made from several materials. A wooden table might have metal brackets, and a wooden chair, a fabric or plastics seat. Therefore, in NAICS, furniture initially is classified based on the type of furniture (application for which it is designed) rather than the material used. For example, an upholstered sofa is treated as household furniture, although it may also be used in hotels or offices.

When classifying furniture according to the component material from which it is made, furniture made from more than one material is classified based on the material used in the frame, or if there is no frame, the predominant component material. Upholstered household furniture (excluding kitchen and dining room chairs with upholstered seats) is classified without regard to the frame material. Kitchen or dining room chairs with upholstered seats are classified according to the frame material.

Furniture may be made on a stock or custom basis and may be shipped assembled or unassembled (i.e., 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

This industry group comprises establishments manufacturing household-type furniture, such as living room, kitchen, and bedroom furniture, and institutional (i.e., public building) furniture, such as furniture for schools, theaters, and churches.

#### 33711 Wood Kitchen Cabinet and Countertop Manufacturing

This industry comprises establishments primarily engaged in manufacturing wood or plastics laminated on wood kitchen cabinets, bathroom vanities, and countertops (except freestanding). The cabinets and counters may be made on a stock or custom basis.

#### 337110 Wood Kitchen Cabinet and Countertop Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood or plastics laminated on wood kitchen cabinets, bathroom vanities, and countertops (except freestanding). The cabinets and counters may be made on a stock or custom basis.

The data published with NAICS code 3371110 include the following SIC industries:

2434 Wood kitchen cabinets

2541 Wood partitions and fixtures (pt)

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337110 include establishments primarily engaged in manufacturing wood counter tops as part of wood office and store fixtures. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### 33712 Household and Institutional Furniture Manufacturing

This industry comprises establishments primarily engaged in manufacturing household-type and public building furniture (i.e., library, school, theater, and church furniture). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

### 337121 Upholstered Household Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing upholstered household-type furniture. The furniture may be made on a stock or custom basis.

The data published with NAICS code 337121 include the following SIC industries:

2512 Upholstered household furniture

2515 Mattresses and bedsprings (pt)

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337121 do not include establishments primarily engaged in manufacturing upholstered metal household furniture. The NAICS definitions will be fully implemented with the 2002 Economic Census.

# 337122 Nonupholstered Wood Household Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonupholstered wood household-type furniture and freestanding cabinets (except television, radio, and sewing machine cabinets). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337122 include the following SIC industries:

2511 Wood household furniture

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337122 include establishments primarily engaged in manufacturing wood box spring frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

#### 337124 Metal Household Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal household-type furniture and freestanding cabinets. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337124 include the following SIC industry:

2514 Metal household furniture

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337124 include establishments primarily engaged in manufacturing upholstered metal household furniture or metal box spring frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

# 337125 Household Furniture (Except Wood and Metal) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type furniture of materials other than wood or metal, such as plastics, reed, rattan, wicker, and fiberglass. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337125 include the following SIC industry:

2519 Household furniture, n.e.c.

#### 337127 Institutional Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing institutional-type furniture (e.g., library, school, theater, and church furniture). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337127 include the following SIC industries:

2531 Public building and related furniture (pt)

2599 Furniture and fixtures, n.e.c. (pt)

3952 Lead pencils and art goods (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337127 do not include establishments primarily engaged in manufacturing wood or nonwood lunchroom tables and chairs. The NAICS definitions will be fully implemented with the 2002 Economic Census.

#### 337129 Wood Television, Radio, and Sewing Machine Cabinet Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood cabinets used as housings by television, stereo, loudspeaker, and sewing machine manufacturers.

The data published with NAICS code 337129 include the following SIC industry:

2517 Wood TV and radio cabinets

#### 3372 Office Furniture (Including Fixtures) Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33721, Office Furniture (Including Fixtures) Manufacturing.

### 33721 Office Furniture (Including Fixtures) Manufacturing

This industry comprises establishments primarily engaged in manufacturing office furniture and/or office and store fixtures. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

#### 337211 Wood Office Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood office-type furniture. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337211 include the following SIC industry:

2521 Wood office furniture

#### 337212 Custom Architectural Woodwork and Millwork Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing custom designed interiors consisting of architectural woodwork and fixtures utilizing wood, wood products, and plastics laminates. All of the industry output is made to individual order on a job shop basis and requires skilled craftsmen as a labor input. A job might include custom manufacturing of display fixtures, gondolas, wall shelving units, entrance and window architectural detail, sales and reception counters, wall paneling, and matching furniture.

The data published with NAICS code 337212 include the following SIC industry:

2541 Wood partitions and fixtures (pt)

#### 337214 Office Furniture (Except Wood) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonwood office-type furniture. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337214 include the following SIC industry:

2522 Office furniture, except wood

#### 337215 Showcase, Partition, Shelving, and Locker Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood and nonwood office and store fixtures, shelving, lockers, frames, partitions, and related fabricated products of wood and nonwood materials, including plastics laminated fixture tops. The products are made on a stock basis and may be assembled or unassembled (i.e., knockdown). Establishments exclusively making furniture parts (e.g., frames) are included in this industry.

The data published with NAICS code 337215 include the following SIC industries:

2426 Hardwood dimension and flooring mills (pt)

2541 Wood partitions and fixtures (pt)

- 2542 Partitions and fixtures, except wood
- 3499 Fabricated metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337215 include establishments primarily engaged in manufacturing wood or nonwood lunchroom tables and chairs, but do not include establishments primarily engaged in manufacturing wood or metal box spring frames, finished plastic furniture parts, convertible bed sleeper mechanisms or chair glides. The NAICS definitions will be fully implemented with the 2002 Economic Census.

# 3379 Other Furniture Related Product Manufacturing

This industry group comprises establishments manufacturing furniture related products, such as mattresses, blinds, and shades.

### **33791 Mattress Manufacturing**

This industry comprises establishments primarily engaged in manufacturing innerspring, box spring, and noninnerspring mattresses, including mattresses for waterbeds.

#### **337910 Mattress Manufacturing**

This U.S. industry comprises establishments primarily engaged in manufacturing innerspring, box spring, and noninnerspring mattresses, including mattresses for waterbeds.

The data published with NAICS code 337910 include the following SIC industry:

2515 Mattresses and bedsprings (pt)

#### 33792 Blind and Shade Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following: venetian blinds, other window blinds, shades; curtain and drapery rods, poles; and/or curtain and drapery fixtures. The blinds and shades may be made on a stock or custom basis and may be made of any material.

#### 337920 Blind and Shade Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing one or more of the following: venetian blinds, other window blinds, shades; curtain and drapery rods, poles; and/or curtain and drapery fixtures. The blinds and shades may be made on a stock or custom basis and may be made of any material.

The data published with NAICS code 337920 include the following SIC industry:

2591 Drapery hardware, blinds, and shades

#### **339 Miscellaneous Manufacturing**

Industries in the Miscellaneous Manufacturing subsector make a wide range of products that cannot readily be classified in specific NAICS subsectors in manufacturing. Processes used by these establishments vary significantly, both among and within industries. For example, a variety of manufacturing processes are used in manufacturing sporting and athletic goods that include products, such as tennis racquets and golf balls. The processes for these products differ from each other, and the processes differ significantly from the fabrication processes used in making dolls or toys, the melting and shaping of precious metals to make jewelry, and the bending, forming, and assembly used in making medical products.

The industries in this subsector are defined by what is made rather than how it is made. Although individual establishments might be appropriately classified elsewhere in the NAICS structure, for historical continuity, these product-based industries were maintained. In most cases, no one process or material predominates for an industry.

Establishments in this subsector manufacture products as diverse as medical equipment and supplies, jewelry, sporting goods, toys, and office supplies.

#### 3391 Medical Equipment and Supplies Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33911, Medical Equipment and Supplies Manufacturing.

### 33911 Medical Equipment and Supplies Manufacturing

This industry comprises establishments primarily engaged in manufacturing medical equipment and supplies. Examples of products made by these establishments are laboratory apparatus and furniture, surgical and medical instruments, surgical appliances and supplies, dental equipment and supplies, orthodontic goods, dentures, and orthodontic appliances.

#### 339111 Laboratory Apparatus and Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing laboratory apparatus and laboratory and hospital furniture (except dental). Examples of products made by these establishments are hospital beds, operating room tables, laboratory balances and scales, furnaces, ovens, centrifuges, cabinets, cases, benches, tables, and stools.

The data published with NAICS code 339111 include the following SIC industry:

3821 Laboratory apparatus and furniture

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339111 do not include establishments primarily engaged in the manufacture of hospital beds or operating tables. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### 339112 Surgical and Medical Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing medical, surgical, ophthalmic, and veterinary instruments and apparatus (except electrotherapeutic, electromedical, and irradiation apparatus). Examples of products made by these establishments are syringes, hypodermic needles, anesthesia apparatus, blood transfusion equipment, catheters, surgical clamps, and medical thermometers.

The data published with NAICS code 339112 include the following SIC industries:

3829 Measuring and controlling devices, n.e.c. (pt)

3841 Surgical and medical instruments

### 339113 Surgical Appliance and Supplies Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing surgical appliances and supplies. Examples of products made by these establishments are orthopedic devices, prosthetic appliances, surgical dressings, crutches, surgical sutures, and personal industrial safety devices (except protective eyeware).

The data published with NAICS code 339113 include the following SIC industries:

2599 Furniture and fixtures, n.e.c. (pt)

3842 Surgical appliances and supplies (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339113 do not include establishments primarily engaged in the manufacture of rubber gloves and life jackets. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### 339114 Dental Equipment and Supplies Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing dental equipment and supplies used by dental laboratories and offices of dentists, such as dental chairs, dental instrument delivery systems, dental hand instruments, and dental impression material. The data published with NAICS code 339114 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3843 Dental equipment and supplies

#### 339115 Ophthalmic Goods Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ophthalmic goods. Examples of products made by these establishments are prescription eyeglasses (except manufactured in a retail setting), contact lenses, sunglasses, eyeglass frames, and reading glasses made to standard powers.

The data published with NAICS code 339115 include the following SIC industry:

3851 Ophthalmic goods

#### **339116 Dental Laboratories**

This U.S. industry comprises establishments primarily engaged in manufacturing dentures, crowns, bridges, and orthodontic appliances customized for individual application.

The data published with NAICS code 339116 include the following SIC industry:

8072 Dental laboratories

#### **3399 Other Miscellaneous Manufacturing**

This NAICS industry group includes establishments classified in the following NAICS Industries: 33991, Jewelry and Silverware Manufacturing; 33992, Sporting and Athletic Goods Manufacturing; 33993, Doll, Toy, and Game Manufacturing; 33994, Office Supplies (Except Paper) Manufacturing; 33995, Sign Manufacturing; and 33999, All Other Miscellaneous Manufacturing.

#### 33991 Jewelry and Silverware Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing, engraving, chasing, or etching jewelry; (2) manufacturing metal personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases); (3) manufacturing, engraving, chasing, or etching precious metal solid, precious metal clad, or pewter cutlery and flatware; (4) manufacturing, engraving, chasing, or etching personal metal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases); (5) stamping coins; (6) manufacturing unassembled jewelry parts and stock shop products, such as sheet, wire, and tubing; (7) cutting, slabbing, tumbling, carving, engraving, polishing, or faceting precious or semiprecious stones and gems; (8) recutting, repolishing, and setting gem stones; and (9) drilling, sawing, and peeling cultured and costume pearls.

### 339911 Jewelry (Except Costume) Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing, engraving, chasing, or etching precious metal solid or precious metal clad jewelry; (2) manufacturing, engraving, chasing, or etching personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases) made of precious solid or clad metal; and (3) stamping coins.

The data published with NAICS code 339911 include the following SIC industries:

3479 Metal coating and allied services (pt)

3911 Jewelry, precious metal

#### 339912 Silverware and Holloware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing, engraving, chasing, or etching precious metal solid, precious metal clad, or pewter flatware and other plated ware.

The data published with NAICS code 339912 include the following SIC industries:

3479 Metal coating and allied services (pt)

3914 Silverware and plated ware (pt)

#### 339913 Jewelers' Material and Lapidary Work Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing unassembled jewelry parts and stock shop products, such as sheet, wire, and tubing; (2) cutting, slabbing, tumbling, carving, engraving, polishing or faceting precious or semiprecious stones and gems; (3) recutting, repolishing, and setting gem stones; and (4) drilling, sawing, and peeling cultured pearls.

The data published with NAICS code 339913 include the following SIC industry:

3915 Jewelers' materials and lapidary work

### 339914 Costume Jewelry and Novelty Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing, engraving, chasing, and etching costume jewelry; and/or (2) manufacturing, engraving, chasing, or etching nonprecious metal personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases). This industry includes establishments primarily engaged in manufacturing precious plated jewelry and precious plated personal goods.

The data published with NAICS code 339914 include the following SIC industries:

3479 Metal coating and allied services (pt)

3499 Fabricated metal products, n.e.c. (pt)

3961 Costume jewelry

### 33992 Sporting and Athletic Goods Manufacturing

This industry comprises establishments primarily engaged in manufacturing sporting and athletic goods (except apparel and footwear).

### 339920 Sporting and Athletic Goods Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sporting and athletic goods (except apparel and footwear).

The data published with NAICS code 339920 include the following SIC industry:

3949 Sporting and athletic goods, n.e.c.

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339920 do not include establishments primarily engaged in the manufacture of wet suits. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### 33993 Doll, Toy, and Game Manufacturing

This industry comprises establishments primarily engaged in manufacturing dolls, toys, and games, such as complete dolls, doll parts, doll clothes, action figures, toys, games (including electronic), hobby kits, and children's vehicles (except metal bicycles and tricycles).

#### 339931 Doll and Stuffed Toy Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing complete dolls, doll parts, and doll clothes, action figures, and stuffed toys.

The data published with NAICS code 339931 include the following SIC industry:

3942 Dolls

#### 339932 Game, Toy, and Children's Vehicle Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing games (including electronic), toys, and children's vehicles (except bicycles and metal tricycles).

The data published with NAICS code 339932 include the following SIC industry:

3944 Games, toys, and children's vehicles (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339932 do not include establishments primarily engaged in the manufacture of rubber toys, except dolls or embroidery kits. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### 33994 Office Supplies (Except Paper) Manufacturing

This industry comprises establishments primarily engaged in manufacturing office supplies. Examples of products made by these establishments are pens, pencils, felt tip markers, crayons, chalk, pencil sharpeners, staplers, hand operated stamps, modeling clay, and inked ribbons.

### 339941 Pen and Mechanical Pencil Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing pens, ballpoint pen refills and cartridges, mechanical pencils, and felt tipped markers.

The data published with NAICS code 339941 include the following SIC industry:

3951 Pens and mechanical pencils

# 339942 Lead Pencil and Art Goods Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonmechanical pencils and art goods. Examples of products made by these establishments are pencil leads, crayons, chalk, framed blackboards, pencil sharpeners, staplers, artists' palettes and paints, and modeling clay.

The data published with NAICS code 339942 include the following SIC industries:

2531 Public building and related furniture (pt)

3579 Office machines, n.e.c. (pt)

3952 Lead pencils and art goods (pt)

#### 339943 Marking Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing marking devices, such as hand operated stamps, embossing stamps, stamp pads, and stencils.

The data published with NAICS code 339943 include the following SIC industry:

3953 Marking devices

#### 339944 Carbon Paper and Inked Ribbon Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing carbon paper and inked ribbons.

The data published with NAICS code 339944 include the following SIC industry:

3955 Carbon paper and inked ribbons

### 33995 Sign Manufacturing

This industry comprises establishments primarily engaged in manufacturing signs and related displays of all materials (except printing paper and paperboard signs, notices, displays).

#### 339950 Sign Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing signs and related displays of all materials (except printing paper and paperboard signs, notices, displays).

The data published with NAICS code 339950 include the following SIC industries:

3993 Signs and advertising specialties

### 33999 All Other Miscellaneous Manufacturing

This industry comprises establishments primarily engaged in miscellaneous manufacturing (except medical equipment and supplies, jewelry and flatware, sporting and athletic goods, dolls, toys, games, office supplies (except paper), and signs).

#### 339991 Gasket, Packing, and Sealing Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing gaskets, packing, and sealing devices of all materials.

The data published with NAICS code 339991 include the following SIC industry:

3053 Gaskets, packing and sealing devices

#### 339992 Musical Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing musical instruments (except toys).

The data published with NAICS code 339992 include the following SIC industry:

3931 Musical instruments

#### 339993 Fastener, Button, Needle, and Pin Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fasteners, buttons, needles, pins, and buckles (except precious metals or precious and semiprecious stones and gems).

The data published with NAICS code 339993 include the following SIC industries:

3131 Footwear cut stock and findings (pt)

3965 Fasteners, buttons, needles, and pins

#### 339994 Broom, Brush, and Mop Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing brooms, mops, and brushes.

The data published with NAICS code 339994 include the following SIC industries:

2392 Housefurnishings, n.e.c. (pt)

3991 Brooms and brushes

#### 339995 Burial Casket Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing burial caskets, cases, and vaults (except concrete).

The data published with NAICS code 339995 include the following SIC industry:

3995 Burial caskets

#### **339999 All Other Miscellaneous Manufacturing**

This U.S. industry comprises establishments primarily engaged in miscellaneous manufacturing (except medical

equipment and supplies, jewelry and flatware, sporting and athletic goods, dolls, toys, games, office supplies (except paper), musical instruments, fasteners, buttons, needles, pins, brooms, brushes, mops, and burial caskets).

The data published with NAICS code 339999 include the following SIC industries:

2499 Wood products, n.e.c. (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339999 do not include establishments primarily engaged in the manufacture of electronic cigarette lighters. The NAICS definitions will be fully implemented with the 2002 Economic Census.

# Appendix C. Coverage and Methodology

#### MAIL/NONMAIL UNIVERSE

The manufacturing universe includes about 400,000 establishments. This number includes those industries in the North American Industry Classification System (NAICS) definition of manufacturing, but not those industries leaving the manufacturing sector in the classification change. The amounts of information requested from manufacturing establishments were dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the annual survey of manufactures (ASM). The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in the publication are described below:

1. Small single-establishment companies not sent a report form.

Approximately 40 percent of the manufacturing establishments were small single-establishment companies that were excused from filing a census report. Selection of these establishments was based on two factors: annual payroll and our ability to assign the correct six-digit NAICS industry classification to the establishment. For each four-digit Standard Industrial Classification (SIC) industry code, an annual payroll cutoff was determined. These cutoffs were derived so that the establishments with payroll less than the cutoff were expected to account for no more than 3 percent of the value of shipments for the industry. Generally, all single-establishment companies with less than 5 employees were excused, while all establishments with more than 20 employees were mailed forms. Establishments below the cutoff that could not be directly assigned a six-digit NAICS code were mailed a classification report which requested information for assigning NAICS industry codes. Establishments below the cutoff that could be directly assigned a six-digit NAICS code were excused from filing any report. For below cutoff establishments, information on the physical location, payroll, and receipts was obtained from the administrative records of other Federal agencies under special arrangements that safeguarded their confidentiality.

Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials were not distributed among specific products and materials for these establishments but were included in the product and material "not specified by kind" (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 fourdigit 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 materialsconsumed 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 supplybased 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 SICbased 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 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, completecoverage 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 broaderbased 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

#### WASHINGTON

Bothell is in King and Snohomish Counties.
Burien was incorporated in February 1993.
Edgewood was incorporated in February 1996.
Enumclaw is in King and Pierce Counties.
Lakewood was incorporated in February 1996.
Milton is in King and Pierce Counties.

Newcastle was incorporated in September 1994.
Pacific is in King and Pierce Counties.
Shoreline was incorporated in August 1995.
University Place was incorporated in August 1995.
Woodinville was incorporated in March 1993.
Woodland is in Clark and Cowlitz Counties.

# Appendix E. Metropolitan Areas

WASHINGTON Bellingham, WA MSA Whatcom County, WA **Bremerton, WA PMSA** Kitsap County, WA Olympia, WA PMSA Thurston County, WA 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

Richland—Kennewick—Pasco, WA MSA Benton County, WA Franklin County, WA 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 Spokane, WA MSA Spokane County, WA Tacoma, WA PMSA Pierce County, WA Yakima, WA MSA Yakima County, WA

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