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2002 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 to 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.

INDUSTRY CLASSIFICATIONS

Data from the 2002 Economic Census are published primarily according to the 2002 North American Industry Classification System (NAICS). NAICS was first adopted in the United States, Canada, and Mexico in 1997. The 2002 Economic Census covers 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 Food Services
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), largely covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 100 subsectors (three-digit codes), 317 industry groups (four-digit codes), and, as implemented in the United States, 1,179 industries (six-digit codes).

RELATIONSHIP TO HISTORICAL INDUSTRY CLASSIFICATIONS

Prior to the 1997 Economic Census, data were published according to the Standard Industrial Classification (SIC) system. 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 1997 Economic Census *Bridge Between NAICS and SIC* demonstrates the relationships between NAICS and SIC industries. Where changes are significant, it may not be possible to construct time series that include data for points both before and after 1997.

Most industry classifications remained unchanged between 1997 and 2002, but NAICS 2002 includes substantial revisions within the construction and wholesale trade sectors, and a number of revisions for the retail trade and information sectors. These changes are noted in industry definitions and will be demonstrated in the *Bridge Between NAICS 2002 and NAICS 1997*.

For 2002, data for enterprise support establishments (those functioning primarily to support the activities of their company's operating establishments, such as a warehouse or a research and development laboratory) are included in the industry that reflects their activities (such as warehousing). For 1997, such establishments were termed auxiliaries and were excluded from industry totals.

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. (For selected industries, only payroll, employment, and classification are collected for individual establishments, while other data are collected on a consolidated basis.)

GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required to tabulate the census data for states, metropolitan and micropolitan statistical areas, counties, and corporate municipalities (places) including cities, towns, townships, villages, and boroughs. Respondents were required to report their physical location (street address, municipality, county, and state) if it differed from their mailing address. For establishments not surveyed by mail (and those single-establishment companies that did not provide acceptable information on physical location), location information from administrative sources is used as a basis for coding.

AVAILABILITY OF ADDITIONAL DATA

All results of the 2002 Economic Census are available on the Census Bureau Internet site (www.census.gov) and on digital versatile discs (DVD-ROMs) for sale by the Census Bureau. The American FactFinder system at the Internet site allows selective retrieval and downloading of the data. For more information, including a description of reports being issued, see the Internet site, write to the U.S. Census Bureau, Washington, DC 20233-6100, or call Customer Services at 301-763-4100.

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 service trades in 1933. Censuses of construction, manufacturing, and the other business 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 and 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 report forms.

The range of industries covered in the economic census expanded between 1967 and 2002. 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. New for 2002 is coverage of four industries classified in the agriculture, forestry, and fishing sector under the SIC system: landscape architectural services, landscaping services, veterinary services, and pet care services.

Printed statistical reports from the 1992 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. Reports for 1997 were published primarily on the Internet and copies of 1992 reports are also available there. CD-ROMs issued from the 1987, 1992, and 1997 Economic Censuses contain databases that include all or 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 the 2002 Economic Census and related surveys is published in the *Guide to the 2002 Economic Census* at www.census.gov/econ/census02/guide. More information on the methodology, procedures, and history of the census will be published in the *History of the 2002 Economic Census* at www.census.gov/econ/www/history.html.

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Manufacturing

SCOPE

The Manufacturing sector (sector 31-33) 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.

Exclusions. There are activities that are sometimes considered manufacturing, but for NAICS are classified in another sector. These activities include logging, classified in Sector 11, Agriculture, Forestry, Fishing and Hunting is considered a harvesting operation; the beneficiating of ores and other minerals, classified in Sector 21, Mining, is considered part of the activity of mining; the construction of structures and fabricating operations performed at the site of construction by contractors, is classified in Sector 23, Construction; 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 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).

The tabulations for this sector do not include central administrative offices, warehouses, or other establishments that serve manufacturing establishments within the same organization. Data for such establishments are classified according to the nature of the service they provide. For example, separate headquarters establishments are reported in NAICS Sector 55, Management of Companies and Enterprises.

The reports described below exclude establishments of firms with no paid employees. These “nonemployers,” typically self-employed individuals or partnerships operating businesses that they have not chosen to incorporate, are reported separately in Nonemployer Statistics. The contribution of nonemployers, relatively small for this sector, may be examined at www.census.gov/nonemployerimpact.

The reports described below cover all manufacturing establishments with one or more paid employees.

Definitions. Industry categories are defined in Appendix B, NAICS Codes, Titles, and Descriptions. Other terms are defined in Appendix A, Explanation of Terms.

REPORTS

The following reports provide statistics on this sector:

Industry Series. There are 473 reports, each covering a single NAICS industry (six-digit code). 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. The industry reports also include data for states with 100 employees or more in the industry. The data in industry reports are preliminary and subject to change in the following reports.

Geographic Area Series. There are 51 separate reports, one for each state and the District of Columbia. Each state report presents similar statistics at the “all manufacturing” level for each state and its metropolitan and micropolitan areas 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.

Subject Series:

- **Industry-Product Analysis Summary.** This report presents value of shipments, value of product shipments, percentage of product shipments of the total value of shipments, and percentage of distribution of value of product shipments on the NAICS six-digit industry level and by the six- and seven-digit product code levels. It also includes miscellaneous receipts at the six- and seven-digit product code levels by NAICS six-digit industry levels.
- **General Summary.** This 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.
- **Product Summary.** This report summarizes the products data published in the industry reports. This report also includes a table with data for products that are primary to more than one industry, which are not in the industry reports.
- **Materials Summary.** This report summarizes the materials data published in the industry reports.
- **Concentration Ratio Summary.** This report publishes data on the percentage of value of shipments and value added accounted for by the 4-, 8-, 20-, and 50-largest companies for each manufacturing industry. Also shown in this report are Herfindahl-Herschmann indexes for each industry.
- **Location of Manufacturing Plants Summary.** This report contains 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.

ZIP Code Statistics. This report contains statistics on the number of establishments for the three- and six-digit NAICS industry by employment-size of the establishment by ZIP Code.

Other reports. Data for this sector are also included in reports with multisector coverage, including Nonemployer Statistics, Comparative Statistics, Bridge Between 2002 NAICS and 1997 NAICS, Business Expenses, and the Survey of Business Owners reports.

GEOGRAPHIC AREAS COVERED

The level of geographic detail varies by report. Maps are available at www.census.gov/econ2002maps. Notes specific to areas in the state are included in Appendix D, Geographic Notes.

1. The United States as a whole.
2. States and the District of Columbia.
3. Metropolitan and micropolitan statistical areas with 250 employees or more. A core based statistical areas (CBSA) contains a core area with a substantial population nucleus, together with adjacent communities having a high degree of social and economic integration with that core. CBSAs are differentiated into metropolitan and micropolitan statistical areas based on size criteria. Both metropolitan and micropolitan areas are defined in terms of entire counties, and are listed in Appendix E, Metropolitan and Micropolitan Statistical Areas.
 - a. Metropolitan Statistical Areas (metro areas). Metro areas have at least one urbanized area of 50,000 or more population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties.
 - b. Micropolitan Statistical Areas (micro areas). Micro areas have at least one urban cluster of at least 10,000 but less than 50,000 population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties.
 - c. Metropolitan Divisions (metro divisions). If specified criteria are met, a metro area containing a single core with a population of 2.5 million or more may be subdivided to form smaller groupings of counties referred to as Metropolitan Divisions.

-
- d. Combined Statistical Areas (combined areas). If specified criteria are met, adjacent metro and micro areas, in various combinations, may become the components of a new set of areas called Combined Statistical Areas. The areas that combine retain their own designations as metro or micro areas within the larger combined area.
4. Counties and county equivalents defined as of January 1, 2002, with 500 employees or more. Counties are the primary divisions of states, except in Louisiana where they are called parishes and in Alaska where they are called boroughs, census areas, and city and boroughs. Maryland, Missouri, Nevada, and Virginia have one place or more that is independent of any county organization and constitutes primary divisions of their states. These places are treated as counties and as places.
 5. Economic places with 500 employees or more.
 - a. Municipalities of 2,500 inhabitants or more defined as of January 1, 2002. These are areas of significant population incorporated as cities, boroughs, villages, or towns according to the 2000 Census of Population. For the economic census, boroughs and census areas in Alaska and boroughs in New York are not included in this category.
 - b. Consolidated cities defined as of January 1, 2002. Consolidated cities are consolidated governments that consist of separately incorporated municipalities.
 - c. Townships in Michigan, New Jersey, and Pennsylvania, and towns in New York, Wisconsin, and the six New England states with 10,000 inhabitants or more (according to the 2000 Census of Population).
 - d. Balance of county. Areas outside the entities listed above, including incorporated municipalities with populations of fewer than 2,500, town and townships not qualifying as noted above, and the remainders of counties outside places are categorized as "Balance of county."

DOLLAR VALUES

All dollar values presented are expressed in current dollars; i.e., 2002 data are expressed in 2002 dollars, and 1997 data, in 1997 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.

COMPARABILITY OF THE 1997 AND 2002 ECONOMIC CENSUSES

Both the 2002 Economic Census and the 1997 Economic Census present data based on the North American Industry Classification System (NAICS). While there were revisions to selected industries for 2002, this sector is not affected by those revisions.

For 2002, there have been several additional data tables added, which did not exist in 1997. These tables for 2002 include products primary to more than one industry, industry-product analysis, e-commerce value of shipments, and leased and nonleased detail employment statistics by subsectors.

RELIABILITY OF DATA

All data compiled for this sector are subject to nonsampling errors. Nonsampling errors can be attributed to many sources: inability to identify all cases in the actual universe; definition and classification difficulties; differences in the interpretation of questions; errors in recording or coding the data obtained; and other errors of collection, response, coverage, processing, and estimation for missing or misreported data. Selected data in tables titled "Detailed Statistics" are based on the Annual Survey of Manufactures and are subject to sampling errors as well as nonsampling errors.

No direct measurement of these effects has been obtained except for estimation for missing or misreported data, as by the percentages shown in the tables. Precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize the effects of nonsampling errors. More information on the reliability of the data is included in Appendix C, Methodology.

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 in a specific industry or geographic area is not considered a disclosure; therefore, this information may be released even though other information is withheld. Techniques employed to limit disclosure are discussed at www.census.gov/epcd/ec02/disclosure.htm.

The disclosure analysis for "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. Nonetheless, the suppressed data are included in higher-level totals. A separate disclosure analysis is performed for capital expenditures, which 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 55,000 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 the Current Industrial Reports (CIR) program. The CIR program publishes selected detailed product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. 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.

In addition, the County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county, and Statistics of U.S. Businesses provides annual statistics classified by the employment size of the enterprise, further classified by industry for the United States, and by broader categories for states and metropolitan areas.

CONTACTS FOR DATA USERS

Questions about these data may be directed to the U.S. Census Bureau, Manufacturing & Construction Division, Information Services Center, 301-763-4673 or ask.census.gov.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with these 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
S	Withheld because estimates did not meet publication standards
X	Not applicable
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
nsk	Not specified by kind
-	Represents zero (page image/print only)
(CC)	Consolidated city
(IC)	Independent city

Table 1. Industry Statistics for the State: 2002

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments ²			All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
WASHINGTON													
31-33	Manufacturing	1	7 535	1 977	265 010	11 163 873	167 547	333 981	16 038 160	35 398 551	42 418 619	79 313 884	1 769 708
311	Food manufacturing	3	785	269	36 139	1 044 778	28 342	54 350	716 978	3 890 127	5 134 227	9 015 499	252 980
3111	Animal food manufacturing	-	35	12	534	20 200	322	698	11 064	114 147	196 939	311 205	3 524
31111	Animal food manufacturing	-	35	12	534	20 200	322	698	11 064	114 147	196 939	311 205	3 524
311119	Other animal food manufacturing	-	30	10	e	D	D	D	D	D	D	D	3 415
3112	Grain and oilseed milling	5	20	8	603	24 023	377	735	11 257	78 959	177 235	257 091	4 185
31121	Flour milling and malt manufacturing	1	11	4	e	D	D	D	D	D	D	D	D
311211	Flour milling	-	9	3	c	D	D	D	D	D	D	D	D
311213	Malt manufacturing	2	1	1	c	D	D	D	D	D	D	D	D
31122	Starch and vegetable fats and oils manufacturing	8	8	4	259	10 266	165	288	4 729	43 566	86 684	131 663	1 699
311221	Wet corn milling	5	2	2	c	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing	2	43	11	877	21 679	645	1 091	10 725	73 453	33 670	107 029	5 249
31133	Confectionery manufacturing from purchased chocolate	2	32	7	561	15 568	389	772	6 811	45 362	24 979	70 213	D
311330	Confectionery manufacturing from purchased chocolate ..	2	32	7	561	15 568	389	772	6 811	45 362	24 979	70 213	D
31134	Nonchocolate confectionery manufacturing	2	9	3	e	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing	2	9	3	e	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	2	81	50	10 682	302 082	9 448	18 600	239 741	1 185 983	1 231 726	2 430 421	63 669
31141	Frozen food manufacturing	2	36	27	6 953	198 409	6 235	12 499	162 049	855 280	760 464	1 616 264	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	2	27	23	6 525	183 029	5 854	11 604	149 520	792 406	712 179	1 505 682	40 719
311412	Frozen specialty food manufacturing	-	9	4	428	15 380	381	895	12 529	62 874	48 285	110 582	D
31142	Fruit and vegetable canning, pickling, and drying	1	45	23	3 729	103 673	3 213	6 101	77 692	330 703	471 262	814 157	D
311421	Fruit and vegetable canning ..	1	31	16	3 033	81 206	2 620	5 031	61 603	301 058	376 680	679 303	9 928
311423	Dried and dehydrated food manufacturing	1	13	7	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing	2	29	18	1 379	55 567	837	1 718	29 900	291 911	586 210	816 110	26 282
31151	Dairy product (except frozen) manufacturing	2	20	14	1 039	44 042	562	1 155	21 131	273 206	525 391	734 070	24 641
311511	Fluid milk manufacturing	4	11	9	f	D	D	D	D	D	D	D	D
311512	Creamery butter manufacturing	-	2	1	c	D	D	D	D	D	D	D	D
311513	Cheese manufacturing	-	3	1	c	D	D	D	D	D	D	D	D
311514	Dry, condensed, and evaporated dairy product manufacturing	-	4	3	c	D	D	D	D	D	D	D	D
31152	Ice cream and frozen dessert manufacturing	7	9	4	340	11 525	275	563	8 769	18 705	60 819	82 040	1 641
311520	Ice cream and frozen dessert manufacturing	7	9	4	340	11 525	275	563	8 769	18 705	60 819	82 040	1 641
3116	Animal slaughtering and processing	5	93	26	5 126	131 240	4 462	9 600	104 496	381 562	1 383 044	1 799 607	21 632
31161	Animal slaughtering and processing	5	93	26	5 126	131 240	4 462	9 600	104 496	381 562	1 383 044	1 799 607	21 632
311611	Animal (except poultry) slaughtering	7	50	6	2 883	70 373	2 588	5 683	59 340	93 858	1 082 519	1 224 650	5 089
311612	Meat processed from carcasses	4	35	14	1 433	41 562	1 209	2 442	29 719	197 993	203 570	390 613	13 235
311613	Rendering and meat byproduct processing	-	4	3	c	D	D	D	D	D	D	D	D
311615	Poultry processing	-	4	3	f	D	D	D	D	D	D	D	D
3117	Seafood product preparation and packaging	2	106	61	7 497	188 680	6 501	11 228	145 187	608 750	748 438	1 357 013	78 651
31171	Seafood product preparation and packaging	2	106	61	7 497	188 680	6 501	11 228	145 187	608 750	748 438	1 357 013	78 651
311711	Seafood canning	4	31	10	917	24 680	714	1 367	14 007	72 217	146 788	218 996	3 450
311712	Fresh and frozen seafood processing	2	75	51	6 580	164 000	5 787	9 861	131 180	536 533	601 650	1 138 017	75 201
3118	Bakeries and tortilla manufacturing	2	253	51	6 351	194 171	3 500	6 174	96 589	646 501	391 804	1 040 847	17 896
31181	Bread and bakery product manufacturing	2	226	39	5 132	157 660	2 522	4 418	70 375	456 421	219 864	676 811	13 128
311811	Retail bakeries	3	157	15	1 301	19 770	649	830	9 639	37 063	17 700	54 904	1 847
311812	Commercial bakeries	2	63	21	3 612	131 915	1 702	3 266	56 581	400 841	184 917	586 084	10 222
311813	Frozen cakes, pies, and other pastries manufacturing	8	6	3	219	5 975	171	322	4 155	18 517	17 247	35 823	1 059
31182	Cookie, cracker, and pasta manufacturing	1	24	10	f	D	D	D	D	D	D	D	D
311821	Cookie and cracker manufacturing	5	12	3	318	8 364	274	578	6 261	40 843	16 981	57 832	760
311822	Flour mixes and dough purchased flour	-	7	6	514	16 859	352	672	10 352	103 209	130 562	236 449	3 152
31183	Tortilla manufacturing	-	3	2	e	D	D	D	D	D	D	D	D
311830	Tortilla manufacturing	-	3	2	e	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
WASHINGTON—Con.													
311	Food manufacturing—Con.												
3119	Other food manufacturing	3	125	32	3 090	107 136	2 250	4 506	68 019	508 861	385 161	896 176	31 892
31191	Snack food manufacturing	—	6	2	f	D	D	D	D	D	D	D	D
311919	Other snack food manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
31192	Coffee and tea manufacturing	9	18	3	477	20 340	348	726	14 536	88 621	82 113	170 680	3 877
311920	Coffee and tea manufacturing	9	18	3	477	20 340	348	726	14 536	88 621	82 113	170 680	3 877
31193	Flavoring syrup and concentrate manufacturing	—	5	3	237	10 551	150	306	5 881	29 414	48 746	82 370	4 850
311930	Flavoring syrup and concentrate manufacturing	—	5	3	237	10 551	150	306	5 881	29 414	48 746	82 370	4 850
31194	Seasoning and dressing manufacturing	2	16	8	e	D	D	D	D	D	D	D	D
311942	Spice and extract manufacturing	2	11	7	375	14 253	241	490	6 847	50 634	72 722	122 766	D
31199	All other food manufacturing	3	80	16	1 245	38 341	967	1 986	25 628	128 473	98 038	225 208	6 091
311991	Perishable prepared food manufacturing	—	29	9	762	22 997	586	1 190	14 934	57 125	47 791	103 778	2 573
311999	All other miscellaneous food manufacturing	6	51	7	483	15 344	381	796	10 694	71 348	50 247	121 430	3 518
312	Beverage and tobacco product manufacturing	1	131	26	3 320	130 423	1 720	3 262	64 599	586 367	742 328	1 259 260	65 482
3121	Beverage manufacturing	1	131	26	3 320	130 423	1 720	3 262	64 599	586 367	742 328	1 259 260	65 482
31211	Soft drink and ice manufacturing	—	31	14	1 343	54 308	714	1 399	27 074	203 189	424 593	620 137	15 461
312111	Soft drink manufacturing	—	15	14	1 255	51 341	680	1 342	26 365	197 728	421 408	611 492	15 118
31212	Breweries	7	18	5	f	D	D	D	D	D	D	D	D
312120	Breweries	7	18	5	f	D	D	D	D	D	D	D	D
31213	Wineries	—	81	7	1 352	53 008	630	1 188	22 861	297 814	240 993	476 973	44 384
312130	Wineries	—	81	7	1 352	53 008	630	1 188	22 861	297 814	240 993	476 973	44 384
313	Textile mills	1	45	6	703	28 945	528	1 046	19 458	47 978	91 384	141 182	3 299
3132	Fabric mills	2	27	4	476	18 050	408	784	13 873	44 073	37 718	81 612	2 145
31321	Broadwoven fabric mills	5	15	2	281	8 931	251	499	7 128	12 947	15 321	27 717	699
313210	Broadwoven fabric mills	5	15	2	281	8 931	251	499	7 128	12 947	15 321	27 717	699
31323	Nonwoven fabric mills	—	4	1	c	D	D	D	D	D	D	D	D
313230	Nonwoven fabric mills	—	4	1	c	D	D	D	D	D	D	D	D
3133	Textile and fabric finishing and fabric coating mills	—	15	2	220	10 725	114	251	5 454	3 703	53 254	58 957	D
31332	Fabric coating mills	—	2	1	c	D	D	D	D	D	D	D	D
313320	Fabric coating mills	—	2	1	c	D	D	D	D	D	D	D	D
314	Textile product mills	1	159	30	2 296	69 557	1 638	2 887	37 156	144 687	132 631	277 833	5 061
3141	Textile furnishings mills	2	31	4	204	5 088	162	283	3 078	11 676	19 772	31 001	283
31412	Curtain and linen mills	2	30	4	c	D	D	D	D	D	D	D	D
314129	Other household textile product mills	—	9	2	112	3 002	90	156	1 976	8 085	16 849	24 486	240
3149	Other textile product mills	1	128	26	2 092	64 469	1 476	2 604	34 078	133 011	112 859	246 832	4 778
31491	Textile bag and canvas mills	—	57	8	788	28 723	505	889	13 670	55 435	40 884	97 611	1 434
314911	Textile bag mills	2	14	3	148	3 367	130	225	2 298	6 610	4 027	10 321	209
314912	Canvas and related product mills	—	43	5	640	25 356	375	664	11 372	48 825	36 857	87 290	1 225
31499	All other textile product mills	1	71	18	1 304	35 746	971	1 715	20 408	77 576	71 975	149 221	3 344
314991	Rope, cordage, and twine mills	—	10	5	271	9 378	188	349	3 885	19 950	25 289	44 632	2 068
314999	All other miscellaneous textile product mills	1	61	13	1 033	26 368	783	1 366	16 523	57 626	46 686	104 589	1 276
315	Apparel manufacturing	1	138	36	2 289	47 619	1 811	3 201	29 770	94 251	73 341	167 541	D
3151	Apparel knitting mills	—	5	1	c	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills	—	4	1	c	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills	—	4	1	c	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing	1	110	29	1 860	37 907	1 484	2 609	23 947	77 493	63 616	141 434	D
31521	Cut and sew apparel contractors	3	70	14	1 095	18 490	985	1 649	15 173	27 672	7 146	35 837	727
315211	Men's and boys' cut and sew apparel contractors	3	19	7	494	8 758	429	691	6 680	12 547	2 667	15 447	434
315212	Women's, girls', and infants' cut and sew apparel contractors	4	51	7	601	9 732	556	958	8 493	15 125	4 479	20 390	293
31522	Men's and boys' cut and sew apparel manufacturing	—	13	8	464	11 994	302	577	5 325	26 860	27 698	54 276	D
315224	Men's and boys' cut and sew trouser, slack, and jean manufacturing	—	1	1	c	D	D	D	D	D	D	D	D
315228	Men's and boys' cut and sew other outerwear manufacturing	—	7	4	177	4 554	120	215	2 242	7 678	18 083	24 805	142
31523	Women's and girls' cut and sew apparel manufacturing	2	17	5	197	5 026	129	249	2 446	12 725	22 156	35 111	D
31529	Other cut and sew apparel manufacturing	1	10	2	104	2 397	68	134	1 003	10 236	6 616	16 210	113
3159	Apparel accessories and other apparel manufacturing	3	23	6	c	D	D	D	D	D	D	D	73
31599	Apparel accessories and other apparel manufacturing	3	23	6	c	D	D	D	D	D	D	D	73

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NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
WASHINGTON—Con.													
316	Leather and allied product manufacturing	3	28	4	342	8 988	259	506	5 388	17 749	11 219	28 634	D
3162	Footwear manufacturing	—	7	1	148	3 806	109	212	2 383	8 558	5 247	13 453	D
31621	Footwear manufacturing	—	7	1	148	3 806	109	212	2 383	8 558	5 247	13 453	D
316213	Men's footwear (except athletic) manufacturing	—	4	1	c	D	D	D	D	D	D	D	D
3169	Other leather and allied product manufacturing	4	18	3	c	D	D	D	D	D	D	D	D
31699	Other leather and allied product manufacturing	4	18	3	c	D	D	D	D	D	D	D	D
321	Wood product manufacturing	1	515	203	18 470	651 356	15 654	31 731	504 585	1 400 702	2 621 484	4 016 534	143 549
3211	Sawmills and wood preservation	—	172	76	8 495	340 755	7 336	15 629	273 586	749 551	1 588 090	2 336 266	108 974
32111	Sawmills and wood preservation	—	172	76	8 495	340 755	7 336	15 629	273 586	749 551	1 588 090	2 336 266	108 974
321113	Sawmills	—	157	67	7 829	313 952	6 853	14 531	258 598	683 037	1 435 404	2 111 957	98 103
321114	Wood preservation	—	15	9	666	26 803	483	1 098	14 988	66 514	152 686	224 309	10 871
3212	Veneer, plywood, and engineered wood product manufacturing	—	71	43	3 383	121 146	2 819	5 931	92 041	237 602	387 884	626 847	12 318
32121	Veneer, plywood, and engineered wood product manufacturing	—	71	43	3 383	121 146	2 819	5 931	92 041	237 602	387 884	626 847	12 318
321211	Hardwood veneer and plywood manufacturing	—	8	3	333	11 579	261	437	7 295	20 599	53 057	73 878	1 357
321212	Softwood veneer and plywood manufacturing	—	16	11	1 504	61 268	1 371	2 949	52 510	111 792	232 194	343 755	4 136
321213	Engineered wood member (except truss) manufacturing	3	10	7	276	7 178	252	554	6 285	16 210	29 578	45 752	455
321214	Truss manufacturing	—	30	18	949	28 616	679	1 417	17 036	53 414	40 632	93 827	4 350
321219	Reconstituted wood product manufacturing	—	7	4	321	12 505	256	574	8 915	35 587	32 423	69 635	2 020
3219	Other wood product manufacturing	1	272	84	6 592	189 455	5 499	10 171	138 958	413 549	645 510	1 053 421	22 257
32191	Millwork	1	138	49	4 166	122 146	3 553	6 719	92 646	264 911	462 729	721 953	12 397
321911	Wood window and door manufacturing	1	54	19	1 900	59 496	1 551	2 946	42 173	128 020	141 575	269 612	4 661
321912	Cut stock, resawing lumber, and planing	2	46	20	1 374	36 254	1 267	2 366	31 299	88 783	251 783	335 023	6 130
321918	Other millwork (including flooring)	—	38	10	892	26 396	735	1 407	19 174	48 108	69 371	117 318	1 606
32192	Wood container and pallet manufacturing	1	46	18	907	20 832	749	1 272	14 362	41 307	66 191	107 736	3 567
321920	Wood container and pallet manufacturing	1	46	18	907	20 832	749	1 272	14 362	41 307	66 191	107 736	3 567
32199	All other wood product manufacturing	1	88	17	1 519	46 477	1 197	2 180	31 950	107 331	116 590	223 732	6 293
321991	Manufactured home (mobile home) manufacturing	—	7	3	392	9 692	328	524	6 092	14 260	22 162	36 921	139
321992	Prefabricated wood building manufacturing	—	22	6	458	15 510	330	622	9 776	43 894	48 503	92 747	2 832
321999	All other miscellaneous wood product manufacturing	3	59	8	669	21 275	539	1 034	16 082	49 177	45 925	94 064	3 322
322	Paper manufacturing	—	99	73	12 985	667 364	9 992	20 044	485 389	1 810 209	2 799 793	4 608 907	268 396
3221	Pulp, paper, and paperboard mills	—	20	18	7 922	472 956	6 201	12 453	357 530	1 382 964	1 978 857	3 354 077	232 050
32211	Pulp mills	—	1	1	e	D	D	D	D	D	D	D	D
322110	Pulp mills	—	1	1	e	D	D	D	D	D	D	D	D
32212	Paper mills	—	14	12	4 796	289 547	3 846	7 871	227 360	1 057 307	1 261 498	2 321 568	D
322121	Paper (except newsprint) mills	—	10	8	3 699	216 973	3 017	6 117	173 683	783 229	874 000	1 658 016	126 543
322122	Newsprint mills	—	4	4	1 097	72 574	829	1 754	53 677	274 078	387 498	663 552	D
32213	Paperboard mills	—	5	5	h	D	D	D	D	D	D	D	D
322130	Paperboard mills	—	5	5	h	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	—	79	55	5 063	194 408	3 791	7 591	127 859	427 245	820 936	1 254 830	36 346
32221	Paperboard container manufacturing	—	36	31	2 979	117 255	2 255	4 543	81 218	234 412	546 612	783 333	19 634
322211	Corrugated and solid fiber box manufacturing	—	23	21	2 214	83 952	1 629	3 254	56 410	162 427	420 525	583 569	8 272
322212	Folding paperboard box manufacturing	—	6	5	449	19 275	367	766	13 746	45 216	68 579	113 360	D
322214	Fiber can, tube, drum, and similar products manufacturing	—	4	3	c	D	D	D	D	D	D	D	D
322215	Nonfolding sanitary food container manufacturing	—	2	1	c	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing	1	15	9	675	27 602	469	920	16 586	58 834	156 296	222 102	D
322222	Coated and laminated paper manufacturing	2	7	3	210	7 672	109	170	2 889	24 977	33 008	57 630	929
322224	Uncoated paper and multiwall bag manufacturing	—	3	3	e	D	D	D	D	D	D	D	D
322226	Surface-coated paperboard manufacturing	—	3	2	126	6 506	100	199	4 886	8 359	88 648	103 771	D

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
WASHINGTON—Con.													
322	Paper manufacturing—Con.												
3222	Converted paper product manufacturing—Con.												
32223	Stationery product manufacturing	—	14	7	849	28 112	684	1 384	18 922	50 349	48 255	97 445	D
322231	Die-cut paper and paperboard office supplies manufacturing	—	5	2	278	8 040	206	422	4 491	14 738	8 037	22 660	556
322232	Envelope manufacturing	—	4	3	483	17 357	401	831	12 453	27 923	31 432	58 632	D
32229	Other converted paper product manufacturing	—	14	8	560	21 439	383	744	11 133	83 650	69 773	151 950	D
322299	All other converted paper product manufacturing	—	13	7	e	D	D	D	D	D	D	D	D
323	Printing and related support activities	1	713	98	8 478	296 251	6 022	10 494	175 665	637 878	340 406	983 212	39 153
3231	Printing and related support activities	1	713	98	8 478	296 251	6 022	10 494	175 665	637 878	340 406	983 212	39 153
32311	Printing	1	645	91	7 795	267 121	5 505	9 525	155 947	584 880	330 877	920 853	36 817
323110	Commercial lithographic printing	1	299	60	4 820	170 086	3 457	5 877	99 975	372 115	232 967	608 584	28 974
323112	Commercial flexographic printing	2	14	4	329	13 230	199	390	6 397	27 567	16 113	43 323	708
323113	Commercial screen printing	2	82	11	755	21 118	574	1 030	13 441	39 406	19 190	58 659	1 519
323114	Quick printing	4	157	5	725	20 171	477	802	12 235	48 077	16 467	64 530	1 958
323115	Digital printing	1	22	1	184	6 385	134	244	4 078	14 371	4 458	18 886	983
323116	Manifold business forms printing	—	14	5	574	22 262	364	730	11 654	49 612	30 665	81 583	1 298
323119	Other commercial printing	1	48	4	315	10 611	229	322	5 991	27 874	7 660	35 647	1 022
32312	Support activities for printing	1	68	7	683	29 130	517	969	19 718	52 998	9 529	62 359	2 336
323121	Tradebinding and related work	—	29	5	321	10 270	255	475	7 227	18 149	3 310	21 471	742
323122	Prepress services	1	39	2	362	18 860	262	494	12 491	34 849	6 219	40 888	1 594
324	Petroleum and coal products manufacturing	—	30	11	2 163	151 341	1 458	3 201	91 908	1 658 152	5 171 984	6 791 353	243 357
3241	Petroleum and coal products manufacturing	—	30	11	2 163	151 341	1 458	3 201	91 908	1 658 152	5 171 984	6 791 353	243 357
32411	Petroleum refineries	—	6	6	1 709	132 356	1 161	2 575	81 549	1 578 745	5 056 589	6 598 320	239 603
324110	Petroleum refineries	—	6	6	1 709	132 356	1 161	2 575	81 549	1 578 745	5 056 589	6 598 320	239 603
32412	Asphalt paving, roofing, and saturated materials manufacturing	—	19	4	395	16 179	267	571	9 321	69 587	105 639	173 428	3 298
324121	Asphalt paving mixture and block manufacturing	1	14	1	119	4 544	93	168	3 449	25 146	43 709	67 227	2 728
324122	Asphalt shingle and coating materials manufacturing	—	5	3	276	11 635	174	403	5 872	44 441	61 930	106 201	570
325	Chemical manufacturing	1	239	57	4 884	241 627	2 871	5 854	113 560	895 503	697 691	1 591 509	57 269
3251	Basic chemical manufacturing	—	41	13	1 544	96 700	900	2 108	44 231	327 565	291 672	617 876	23 488
32512	Industrial gas manufacturing	—	11	2	125	7 228	45	103	2 276	50 016	24 534	74 442	1 172
325120	Industrial gas manufacturing	—	11	2	125	7 228	45	103	2 276	50 016	24 534	74 442	1 172
32518	Other basic inorganic chemical manufacturing	—	20	6	g	D	D	D	D	D	D	D	9 884
325188	All other basic inorganic chemical manufacturing	—	19	5	1 026	70 359	557	1 414	28 691	197 058	175 248	370 584	D
32519	Other basic organic chemical manufacturing	—	10	5	e	D	D	D	D	D	D	D	12 432
325199	All other basic organic chemical manufacturing	—	7	5	336	17 079	245	493	11 557	68 830	75 290	144 438	D
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	1	12	3	120	3 903	97	199	2 875	15 699	13 265	29 475	665
32521	Resin and synthetic rubber manufacturing	1	11	3	c	D	D	D	D	D	D	D	665
325211	Plastics material and resin manufacturing	—	6	3	101	3 234	82	177	2 400	13 918	10 846	25 285	D
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing	3	34	10	529	22 873	328	673	13 362	67 762	103 418	173 172	4 667
32531	Fertilizer manufacturing	2	22	7	366	15 610	226	455	9 561	21 255	76 030	99 660	3 226
325311	Nitrogenous fertilizer manufacturing	1	5	2	147	8 892	84	165	5 036	6 300	40 223	48 991	594
325314	Fertilizer (mixing only) manufacturing	3	17	5	219	6 718	142	290	4 525	14 955	35 807	50 669	2 632
32532	Pesticide and other agricultural chemical manufacturing	5	12	3	163	7 263	102	218	3 801	46 507	27 388	73 512	1 441
325320	Pesticide and other agricultural chemical manufacturing	5	12	3	163	7 263	102	218	3 801	46 507	27 388	73 512	1 441
3254	Pharmaceutical and medicine manufacturing	1	36	10	1 193	50 782	750	1 313	25 215	196 940	63 404	261 683	15 619

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NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
WASHINGTON—Con.													
325	Chemical manufacturing—Con.												
3254	Pharmaceutical and medicine manufacturing—Con.												
32541	Pharmaceutical and medicine manufacturing	1	36	10	1 193	50 782	750	1 313	25 215	196 940	63 404	261 683	15 619
325411	Medicinal and botanical manufacturing	2	8	4	195	5 720	158	299	3 253	17 761	21 044	38 813	1 152
325412	Pharmaceutical preparation manufacturing	2	13	2	398	19 107	179	331	6 141	61 179	18 011	80 544	8 178
325413	In-vitro diagnostic substance manufacturing	—	10	2	268	14 208	166	312	7 641	55 510	10 561	65 724	D
325414	Biological product (except diagnostic) manufacturing ..	—	5	2	332	11 747	247	371	8 180	62 490	13 788	76 602	D
3255	Paint, coating, and adhesive manufacturing	1	40	10	761	35 656	340	603	11 796	115 491	113 193	228 055	4 681
32551	Paint and coating manufacturing	1	32	8	611	28 483	277	498	9 603	88 359	98 624	186 330	4 208
325510	Paint and coating manufacturing	1	32	8	611	28 483	277	498	9 603	88 359	98 624	186 330	4 208
32552	Adhesive manufacturing	—	8	2	150	7 173	63	105	2 193	27 132	14 569	41 725	473
325520	Adhesive manufacturing	—	8	2	150	7 173	63	105	2 193	27 132	14 569	41 725	473
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	3	39	5	333	12 757	221	456	5 554	60 809	35 274	93 157	D
32561	Soap and cleaning compound manufacturing	3	24	3	c	D	D	D	D	D	D	D	D
325611	Soap and other detergent manufacturing	2	18	2	134	6 874	71	152	2 170	33 317	18 133	51 555	D
32562	Toilet preparation manufacturing	5	15	2	c	D	D	D	D	D	D	D	1 090
325620	Toilet preparation manufacturing	5	15	2	c	D	D	D	D	D	D	D	1 090
3259	Other chemical product and preparation manufacturing	4	37	6	404	18 956	235	502	10 527	111 237	77 465	188 091	D
32599	All other chemical product and preparation manufacturing ..	4	32	5	347	16 247	207	442	9 119	103 038	69 816	171 990	D
325998	All other miscellaneous chemical product and preparation manufacturing ..	4	17	4	267	12 288	153	333	7 074	93 009	58 316	150 458	D
326	Plastics and rubber products manufacturing	2	240	112	11 294	379 950	8 733	17 286	252 411	1 002 975	934 768	1 934 281	85 569
3261	Plastics product manufacturing ..	2	216	107	10 920	367 544	8 440	16 791	243 793	971 851	909 265	1 879 072	84 500
32611	Plastics packaging materials and unlaminated film and sheet manufacturing	—	20	11	1 400	61 771	1 061	2 136	40 497	90 262	153 113	243 873	13 938
326111	Plastics bag manufacturing ..	3	5	3	e	D	D	D	D	D	D	D	D
326113	Unlaminated plastics film and sheet (except packaging) manufacturing	—	13	7	1 002	48 505	732	1 608	31 325	58 046	124 514	183 494	11 097
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing	1	28	14	1 684	58 268	1 338	2 672	38 815	149 562	137 520	285 795	18 229
326121	Unlaminated plastics profile shape manufacturing	—	19	8	1 304	46 172	1 040	2 117	30 820	113 439	81 078	196 307	14 207
326122	Plastics pipe and pipe fitting manufacturing	2	9	6	380	12 096	298	555	7 995	36 123	56 442	89 488	4 022
32614	Polystyrene foam product manufacturing	2	9	5	400	12 331	346	708	9 442	43 229	39 782	81 858	D
326140	Polystyrene foam product manufacturing	2	9	5	400	12 331	346	708	9 442	43 229	39 782	81 858	D
32615	Urethane and other foam product (except polystyrene) manufacturing	—	10	5	342	12 056	223	446	7 192	29 013	35 898	67 045	1 524
326150	Urethane and other foam product (except polystyrene) manufacturing	—	10	5	342	12 056	223	446	7 192	29 013	35 898	67 045	1 524
32616	Plastics bottle manufacturing ..	—	7	6	505	15 761	434	751	13 303	36 220	77 348	115 776	12 535
326160	Plastics bottle manufacturing	—	7	6	505	15 761	434	751	13 303	36 220	77 348	115 776	12 535
32619	Other plastics product manufacturing	2	137	65	6 547	205 946	5 007	10 015	133 528	620 119	461 640	1 077 298	35 591
326191	Plastics plumbing fixture manufacturing	2	10	6	e	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	2	126	59	6 060	192 410	4 610	9 273	123 469	583 751	435 073	1 014 182	34 450
3262	Rubber product manufacturing ...	3	24	5	374	12 406	293	495	8 618	31 124	25 503	55 209	1 069
32629	Other rubber product manufacturing	3	12	5	e	D	D	D	D	D	D	D	467
326299	All other rubber product manufacturing	3	10	5	257	8 614	211	330	6 146	22 123	13 910	35 708	D
327	Nonmetallic mineral product manufacturing	1	'351	93	'7 754	'292 869	'5 976	'12 033	'204 433	'887 405	'692 353	'1 572 403	'56 299

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NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
WASHINGTON—Con.													
327	Nonmetallic mineral product manufacturing—Con.												
3271	Clay product and refractory manufacturing	1	'43	6	e	D	D	D	D	D	D	D	'544
32711	Pottery, ceramics, and plumbing fixture manufacturing	'1	'29	3	'168	'4 181	'133	'234	'2 752	'9 744	'4 136	'13 842	'428
327112	Vitreous china, fine earthenware, and other pottery product manufacturing	'1	'29	3	'168	'4 181	'133	'234	'2 752	'9 744	'4 136	'13 842	'428
32712	Clay building material and refractories manufacturing	—	14	3	c	D	D	D	D	D	D	D	116
327121	Brick and structural clay tile manufacturing	—	2	2	c	D	D	D	D	D	D	D	D
327122	Ceramic wall and floor tile manufacturing	2	9	1	112	3 080	97	147	2 288	6 233	2 349	8 618	D
3272	Glass and glass product manufacturing	2	81	15	2 219	77 874	1 811	3 738	57 288	247 134	181 299	424 675	12 567
32721	Glass and glass product manufacturing	2	81	15	2 219	77 874	1 811	3 738	57 288	247 134	181 299	424 675	12 567
327211	Flat glass manufacturing	—	1	1	c	D	D	D	D	D	D	D	D
327213	Glass container manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	3	52	12	1 501	48 398	1 181	2 437	32 343	120 359	114 301	231 664	7 574
3273	Cement and concrete product manufacturing	1	175	59	4 290	'170 621	'3 180	6 507	'115 946	492 127	401 977	893 202	34 433
32731	Cement manufacturing	—	7	2	c	D	D	D	D	D	D	D	D
327310	Cement manufacturing	—	7	2	c	D	D	D	D	D	D	D	D
32732	Ready-mix concrete manufacturing	3	82	29	2 111	85 399	1 637	3 441	64 071	220 685	202 873	424 177	17 092
327320	Ready-mix concrete manufacturing	3	82	29	2 111	85 399	1 637	3 441	64 071	220 685	202 873	424 177	17 092
32733	Concrete pipe, brick, and block manufacturing	2	'28	'10	e	D	D	D	D	D	D	D	D
327331	Concrete block and brick manufacturing	2	20	5	222	8 567	157	325	6 278	27 126	23 113	49 038	D
327332	Concrete pipe manufacturing	1	'8	'5	c	D	D	D	D	D	D	D	'770
32739	Other concrete product manufacturing	—	'58	'18	'1 466	'56 112	'1 056	'2 016	'33 149	'165 838	'96 661	'265 883	'8 163
327390	Other concrete product manufacturing	—	'58	'18	'1 466	'56 112	'1 056	'2 016	'33 149	'165 838	'96 661	'265 883	'8 163
3274	Lime and gypsum product manufacturing	—	9	4	e	D	D	D	D	D	D	D	D
32742	Gypsum product manufacturing	—	8	3	223	10 593	169	283	7 758	50 732	63 174	114 234	D
327420	Gypsum product manufacturing	—	8	3	223	10 593	169	283	7 758	50 732	63 174	114 234	D
3279	Other nonmetallic mineral product manufacturing	4	43	9	567	19 641	435	832	12 965	44 094	29 566	73 469	D
32791	Abrasive product manufacturing	1	6	2	147	4 888	104	209	2 703	10 650	5 769	16 714	285
327910	Abrasive product manufacturing	1	6	2	147	4 888	104	209	2 703	10 650	5 769	16 714	285
32799	All other nonmetallic mineral product manufacturing	5	37	7	420	14 753	331	623	10 262	33 444	23 797	56 755	D
327991	Cut stone and stone product manufacturing	7	24	4	259	9 124	226	427	7 185	16 611	7 408	23 906	1 331
327999	All other miscellaneous nonmetallic mineral product manufacturing	4	8	2	124	4 269	77	151	2 049	14 459	13 352	27 360	803
331	Primary metal manufacturing	1	95	45	6 678	299 767	4 589	9 432	189 174	589 857	796 298	1 447 297	37 479
3311	Iron and steel mills and ferroalloy manufacturing	—	11	7	874	41 774	680	1 494	30 459	69 106	152 181	220 176	D
33111	Iron and steel mills and ferroalloy manufacturing	—	11	7	874	41 774	680	1 494	30 459	69 106	152 181	220 176	D
331111	Iron and steel mills	—	11	7	874	41 774	680	1 494	30 459	69 106	152 181	220 176	D
3312	Steel product manufacturing from purchased steel	—	5	1	c	D	D	D	D	D	D	D	D
33122	Rolling and drawing of purchased steel	—	5	1	c	D	D	D	D	D	D	D	D
331222	Steel wire drawing	—	5	1	c	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing	2	11	6	2 026	97 721	1 099	2 125	54 272	210 253	398 948	660 327	D
33131	Alumina and aluminum production and processing	2	11	6	2 026	97 721	1 099	2 125	54 272	210 253	398 948	660 327	D
331312	Primary aluminum production	3	4	3	g	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, and foil manufacturing	—	3	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
WASHINGTON—Con.													
331 3314	Primary metal manufacturing—Con. Nonferrous metal (except aluminum) production and processing	—	18	7	g	D	D	D	D	D	D	D	18 095
33141	Nonferrous metal (except aluminum) smelting and refining	—	7	3	522	29 740	361	752	18 061	29 908	61 451	103 080	D
331419	Primary smelting and refining of nonferrous metal (except copper and aluminum)	—	7	3	522	29 740	361	752	18 061	29 908	61 451	103 080	D
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying	—	9	4	f	D	D	D	D	D	D	D	D
331491	Nonferrous metal (except copper and aluminum) rolling, drawing, and extruding	1	6	4	770	33 795	499	1 028	18 503	60 815	67 171	127 727	D
3315	Foundries	1	50	24	2 297	88 034	1 820	3 737	61 037	193 692	83 887	276 868	7 856
33151	Ferrous metal foundries	1	25	15	1 296	47 248	1 064	2 214	35 309	93 834	52 117	145 824	3 639
331511	Iron foundries	2	6	5	e	D	D	D	D	D	D	D	1 590
331512	Steel investment foundries ..	—	4	3	c	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	—	15	7	744	28 116	604	1 213	21 934	55 718	31 875	87 137	D
33152	Nonferrous metal foundries ..	1	25	9	1 001	40 786	756	1 523	25 728	99 858	31 770	131 044	4 217
331524	Aluminum foundries (except die-casting)	—	9	6	842	34 593	642	1 277	22 439	84 386	27 206	111 043	3 788
332	Fabricated metal product manufacturing	2	1 225	225	18 322	663 474	13 179	25 098	412 229	1 524 491	1 108 923	2 623 074	75 058
3321	Forging and stamping	3	28	7	458	16 951	318	588	10 576	45 021	42 731	86 471	2 084
33211	Forging and stamping	3	28	7	458	16 951	318	588	10 576	45 021	42 731	86 471	2 084
332114	Custom roll forming	3	14	5	262	8 016	169	280	4 743	28 677	31 698	58 911	1 623
332116	Metal stamping	—	6	2	106	4 696	82	171	3 177	8 203	5 143	13 255	123
3322	Cutlery and handtool manufacturing	3	34	6	384	11 391	282	558	7 192	22 897	10 177	33 011	915
33221	Cutlery and handtool manufacturing	3	34	6	384	11 391	282	558	7 192	22 897	10 177	33 011	915
332212	Hand and edge tool manufacturing	4	26	5	280	7 698	211	395	4 794	14 023	5 731	19 676	D
3323	Architectural and structural metals manufacturing	3	337	78	6 082	211 764	4 373	8 115	127 057	466 282	413 153	882 400	25 889
33231	Plate work and fabricated structural product manufacturing	3	136	29	2 338	86 034	1 666	2 968	52 080	198 521	166 475	370 545	13 599
332311	Prefabricated metal building and component manufacturing	—	13	3	265	12 142	163	263	5 323	58 244	13 218	71 009	412
332312	Fabricated structural metal manufacturing	4	111	25	1 868	66 424	1 347	2 404	41 529	123 659	146 492	273 710	8 909
332313	Plate work manufacturing ..	4	12	1	205	7 468	156	301	5 228	16 618	6 765	25 826	4 278
33232	Ornamental and architectural metal products manufacturing	2	201	49	3 744	125 730	2 707	5 147	74 977	267 761	246 678	511 855	12 290
332321	Metal window and door manufacturing	2	24	8	659	20 485	486	986	12 619	37 157	46 641	85 050	754
332322	Sheet metal work manufacturing	2	112	37	2 509	85 447	1 784	3 495	50 102	188 628	174 047	358 563	10 107
332323	Ornamental and architectural metal work manufacturing ..	3	65	4	576	19 798	437	666	12 256	41 976	25 990	68 242	1 429
3324	Boiler, tank, and shipping container manufacturing	1	31	14	1 071	47 313	826	1 722	32 770	160 479	190 502	350 372	3 625
33241	Power boiler and heat exchanger manufacturing	7	7	2	229	8 547	171	366	5 476	18 067	13 839	31 895	334
332410	Power boiler and heat exchanger manufacturing ..	7	7	2	229	8 547	171	366	5 476	18 067	13 839	31 895	334
33242	Metal tank (heavy gauge) manufacturing	6	11	5	207	8 127	154	312	5 001	19 178	7 247	25 715	135
332420	Metal tank (heavy gauge) manufacturing	6	11	5	207	8 127	154	312	5 001	19 178	7 247	25 715	135
33243	Metal can, box, and other metal container (light gauge) manufacturing	—	13	7	635	30 639	501	1 044	22 293	123 234	169 416	292 762	3 156
332431	Metal can manufacturing	—	6	5	466	23 818	379	777	18 198	108 969	154 536	263 560	2 597
332439	Other metal container manufacturing	4	7	2	169	6 821	122	267	4 095	14 265	14 880	29 202	559
3325	Hardware manufacturing	2	19	4	266	8 863	202	342	5 279	27 235	15 374	41 609	3 471
33251	Hardware manufacturing	2	19	4	266	8 863	202	342	5 279	27 235	15 374	41 609	3 471
332510	Hardware manufacturing	2	19	4	266	8 863	202	342	5 279	27 235	15 374	41 609	3 471
3326	Spring and wire product manufacturing	5	29	4	419	13 568	301	517	7 112	28 196	24 566	52 724	1 213
33261	Spring and wire product manufacturing	5	29	4	419	13 568	301	517	7 112	28 196	24 566	52 724	1 213
332618	Other fabricated wire product manufacturing	8	25	3	335	10 187	262	435	5 787	19 400	17 304	36 657	761

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		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
WASHINGTON—Con.													
332	Fabricated metal product manufacturing—Con.												
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2	511	55	5 213	186 018	3 793	7 462	125 732	384 897	173 617	563 892	21 982
33271	Machine shops	2	460	44	4 300	148 577	3 136	6 309	100 428	311 662	138 465	453 802	18 550
332710	Machine shops	2	460	44	4 300	148 577	3 136	6 309	100 428	311 662	138 465	453 802	18 550
33272	Turned product and screw, nut, and bolt manufacturing	—	51	11	913	37 441	657	1 153	25 304	73 235	35 152	110 090	3 432
332721	Precision turned product manufacturing	—	46	10	838	34 499	599	1 046	23 377	67 620	32 567	101 901	2 780
3328	Coating, engraving, heat treating, and allied activities	—	97	26	2 147	82 516	1 440	2 856	45 378	185 543	89 572	265 543	9 078
33281	Coating, engraving, heat treating, and allied activities ..	—	97	26	2 147	82 516	1 440	2 856	45 378	185 543	89 572	265 543	9 078
332811	Metal heat treating	5	9	4	132	4 704	110	204	3 418	15 308	4 122	19 457	1 223
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	—	48	14	1 210	50 555	767	1 634	26 778	126 206	75 529	192 031	6 902
332813	Electroplating, plating, polishing, anodizing, and coloring	1	40	8	805	27 257	563	1 018	15 182	44 029	9 921	54 055	953
3329	Other fabricated metal product manufacturing	2	139	31	2 282	85 090	1 644	2 938	51 133	203 941	149 231	347 052	6 801
33291	Metal valve manufacturing	1	19	7	619	21 164	451	560	12 131	59 720	48 044	99 601	2 577
332911	Industrial valve manufacturing	4	7	4	135	4 752	95	175	2 650	10 872	8 432	18 090	229
332912	Fluid power valve and hose fitting manufacturing	1	4	1	c	D	D	D	D	D	D	D	D
332919	Other metal valve and pipe fitting manufacturing	—	5	2	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	2	120	24	1 663	63 926	1 193	2 378	39 002	144 221	101 187	247 451	4 224
332993	Ammunition (except small arms) manufacturing	—	1	1	c	D	D	D	D	D	D	D	D
332996	Fabricated pipe and pipe fitting manufacturing	3	17	5	278	9 284	190	391	5 039	20 089	21 574	42 217	374
332999	All other miscellaneous fabricated metal product manufacturing	2	83	17	1 098	42 022	817	1 622	27 745	92 966	67 050	159 825	3 038
333	Machinery manufacturing	1	450	133	12 761	547 037	8 178	15 851	299 839	1 214 943	1 022 367	2 214 892	42 234
3331	Agriculture, construction, and mining machinery manufacturing	2	62	11	944	39 012	579	1 191	20 078	82 590	82 335	164 355	4 201
33311	Agricultural implement manufacturing	2	35	4	484	19 889	312	664	10 905	38 815	41 708	81 096	2 045
333111	Farm machinery and equipment manufacturing ..	2	31	4	464	19 357	296	633	10 546	37 233	38 273	76 079	1 946
33312	Construction machinery manufacturing	2	23	5	372	15 792	211	433	7 718	38 511	33 280	70 540	1 925
333120	Construction machinery manufacturing	2	23	5	372	15 792	211	433	7 718	38 511	33 280	70 540	1 925
3332	Industrial machinery manufacturing	2	100	26	2 800	121 755	1 665	3 016	58 000	259 799	148 972	405 133	9 215
33321	Sawmill and woodworking machinery manufacturing	—	12	3	274	12 402	175	333	6 658	24 072	11 971	35 970	538
333210	Sawmill and woodworking machinery manufacturing ..	—	12	3	274	12 402	175	333	6 658	24 072	11 971	35 970	538
33322	Plastics and rubber industry machinery manufacturing	9	11	2	460	17 967	283	363	6 365	17 340	11 517	28 745	485
333220	Plastics and rubber industry machinery manufacturing ..	9	11	2	460	17 967	283	363	6 365	17 340	11 517	28 745	485
33329	Other industrial machinery manufacturing	1	77	21	2 066	91 386	1 207	2 320	44 977	218 387	125 484	340 418	8 192
333291	Paper industry machinery manufacturing	—	10	4	400	17 641	209	387	8 595	38 726	15 668	53 148	1 380
333293	Printing machinery and equipment manufacturing ..	5	10	3	c	D	D	D	D	D	D	D	D
333294	Food product machinery manufacturing	1	27	8	742	31 033	493	1 022	17 677	89 964	56 275	145 883	2 179
333298	All other industrial machinery manufacturing	2	23	5	719	32 993	398	717	14 800	72 090	38 580	109 372	D
3333	Commercial and service industry machinery manufacturing	2	37	12	1 061	47 171	574	1 198	22 269	102 251	74 330	176 226	2 988
33331	Commercial and service industry machinery manufacturing	2	37	12	1 061	47 171	574	1 198	22 269	102 251	74 330	176 226	2 988
333319	Other commercial and service industry machinery manufacturing	2	21	9	846	37 993	473	987	18 917	89 058	65 950	154 559	2 533

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		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
WASHINGTON—Con.													
333 3334	Machinery manufacturing—Con. Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	3	33	12	1 455	49 204	1 003	2 024	27 847	124 959	120 099	243 098	2 819
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	3	33	12	1 455	49 204	1 003	2 024	27 847	124 959	120 099	243 098	2 819
333414	Heating equipment (except warm air furnaces) manufacturing	3	14	6	988	34 547	673	1 355	19 210	79 571	68 548	147 002	1 600
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing	1	14	4	332	11 656	228	459	6 910	34 443	42 578	76 693	940
3335	Metalworking machinery manufacturing	1	81	23	1 813	83 921	1 111	2 071	40 050	207 794	89 240	261 807	12 698
33351	Metalworking machinery manufacturing	1	81	23	1 813	83 921	1 111	2 071	40 050	207 794	89 240	261 807	12 698
333511	Industrial mold manufacturing	—	27	8	423	15 918	350	614	12 168	23 454	9 753	32 931	4 293
333512	Machine tool (metal cutting types) manufacturing	—	5	4	292	17 724	102	207	4 615	70 079	25 533	65 089	1 195
333513	Machine tool (metal forming types) manufacturing	—	1	1	c	D	D	D	D	D	D	D	D
333514	Special die and tool, die set, jig, and fixture manufacturing	2	28	5	c	D	D	D	D	D	D	D	306
333515	Cutting tool and machine tool accessory manufacturing	2	16	4	649	32 158	337	600	11 533	86 515	35 672	119 234	D
3336	Engine, turbine, and power transmission equipment manufacturing	4	10	3	199	8 975	150	290	5 887	18 915	9 720	28 061	434
33361	Engine, turbine, and power transmission equipment manufacturing	4	10	3	199	8 975	150	290	5 887	18 915	9 720	28 061	434
3339	Other general purpose machinery manufacturing	1	127	46	4 489	196 999	3 096	6 061	125 708	418 635	497 671	936 212	9 879
33391	Pump and compressor manufacturing	—	9	3	295	15 373	119	253	4 491	49 965	35 090	83 123	1 361
333911	Pump and pumping equipment manufacturing ..	—	4	2	c	D	D	D	D	D	D	D	D
333912	Air and gas compressor manufacturing	—	4	1	c	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing	—	46	17	2 475	107 505	1 944	3 845	83 137	241 935	353 177	613 456	4 181
333922	Conveyor and conveying equipment manufacturing ..	—	16	7	470	20 994	321	551	13 052	43 599	31 937	74 994	819
333923	Overhead traveling crane, hoist, and monorail system manufacturing	—	14	7	1 846	79 339	1 539	3 146	67 572	188 202	304 156	511 178	2 994
333924	Industrial truck, tractor, trailer, and stacker machinery manufacturing ..	1	11	3	136	6 061	67	117	1 877	8 044	15 514	23 624	322
33399	All other general purpose machinery manufacturing	2	72	26	1 719	74 121	1 033	1 963	38 080	126 735	109 404	239 633	4 337
333993	Packaging machinery manufacturing	1	18	10	599	24 614	328	684	11 201	41 617	32 003	74 141	2 217
333995	Fluid power cylinder and actuator manufacturing	2	14	4	543	27 180	403	719	18 077	31 250	36 477	70 878	1 068
333997	Scale and balance (except laboratory) manufacturing ..	—	3	3	137	5 368	62	124	1 859	10 815	5 595	16 445	158
333999	All other miscellaneous general purpose machinery manufacturing	3	29	6	331	12 440	175	311	4 815	34 023	27 922	61 486	554
334	Computer and electronic product manufacturing	1	'390	'149	'28 487	'1 695 460	'11 820	'24 250	'412 905	'3 483 715	'3 220 724	'7 117 991	'166 197
3341	Computer and peripheral equipment manufacturing	2	'46	15	'3 315	'173 140	'1 192	'2 406	'40 398	'639 286	'531 796	'1 175 579	'18 990
33411	Computer and peripheral equipment manufacturing	2	'46	15	'3 315	'173 140	'1 192	'2 406	'40 398	'639 286	'531 796	'1 175 579	'18 990
334111	Electronic computer manufacturing	5	'12	4	'1 001	'53 374	'197	'396	'9 294	'68 935	'115 689	'187 711	'5 890
334112	Computer storage device manufacturing	9	5	2	338	15 492	128	272	3 075	42 498	28 987	71 485	2 773
334119	Other computer peripheral equipment manufacturing ..	1	29	9	1 976	104 274	867	1 738	28 029	527 853	387 120	916 383	10 327
3342	Communications equipment manufacturing	1	55	23	2 040	99 280	902	1 870	27 362	242 714	220 036	469 456	4 619
33421	Telephone apparatus manufacturing	—	15	10	1 038	52 415	447	973	12 144	147 671	158 935	312 886	3 005
334210	Telephone apparatus manufacturing	—	15	10	1 038	52 415	447	973	12 144	147 671	158 935	312 886	3 005
33422	Radio and television broadcasting and wireless communications equipment manufacturing	3	24	10	729	35 627	357	697	11 367	67 915	46 110	115 030	1 021

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		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)				
WASHINGTON—Con.												
334	Computer and electronic product manufacturing—Con.											
3342	Communications equipment manufacturing—Con.											
33422	Radio and television broadcasting and wireless communications equipment manufacturing—Con.											
334220	Radio and television broadcasting and wireless communications equipment manufacturing	3	24	10	729	35 627	357	697	11 367	67 915	46 110	115 030
33429	Other communications equipment manufacturing	6	16	3	273	11 238	98	200	3 851	27 128	14 991	41 540
334290	Other communications equipment manufacturing	6	16	3	273	11 238	98	200	3 851	27 128	14 991	41 540
3343	Audio and video equipment manufacturing	2	17	3	938	29 320	655	1 463	18 855	77 490	299 544	378 947
33431	Audio and video equipment manufacturing	2	17	3	938	29 320	655	1 463	18 855	77 490	299 544	378 947
334310	Audio and video equipment manufacturing	2	17	3	938	29 320	655	1 463	18 855	77 490	299 544	378 947
3344	Semiconductor and other electronic component manufacturing	—	109	50	7 751	319 366	4 653	9 398	163 033	806 831	599 508	1 431 121
33441	Semiconductor and other electronic component manufacturing	—	109	50	7 751	319 366	4 653	9 398	163 033	806 831	599 508	1 431 121
334412	Bare printed circuit board manufacturing	1	22	12	982	38 023	795	1 497	26 302	76 107	41 120	118 605
334413	Semiconductor and related device manufacturing	—	24	12	3 484	165 904	2 084	4 289	86 049	497 780	344 094	866 776
334416	Electronic coil, transformer, and other inductor manufacturing	—	7	4	277	9 642	142	267	3 331	33 969	60 943	94 706
334417	Electronic connector manufacturing	—	4	1	179	5 799	134	313	2 875	9 012	13 393	21 017
334418	Printed circuit assembly (electronic assembly) manufacturing	2	14	11	794	31 225	504	1 071	13 314	52 772	80 450	134 752
334419	Other electronic component manufacturing	—	35	10	2 004	67 481	980	1 936	30 696	134 308	58 167	190 877
3345	Navigational, measuring, electromedical, and control instruments manufacturing	1	139	54	14 091	1 062 089	4 173	8 665	156 681	1 694 460	1 553 747	3 623 878
33451	Navigational, measuring, electromedical, and control instruments manufacturing	1	139	54	14 091	1 062 089	4 173	8 665	156 681	1 694 460	1 553 747	3 623 878
334510	Electromedical and electrotherapeutic apparatus manufacturing	1	19	14	5 127	327 108	1 278	2 674	44 468	751 239	914 751	1 638 672
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	—	22	12	4 884	514 433	1 211	2 496	52 853	421 631	343 448	1 165 813
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use	—	4	2	c	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables	3	16	4	179	8 543	77	149	2 421	17 284	10 251	27 518
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	—	18	11	2 855	156 490	1 159	2 414	38 171	402 116	209 537	610 026
334516	Analytical laboratory instrument manufacturing	1	14	4	243	14 165	63	121	2 786	16 298	26 422	41 301
334519	Other measuring and controlling device manufacturing	—	31	5	573	30 554	288	627	13 054	62 532	21 513	88 553
3346	Manufacturing and reproducing magnetic and optical media	3	24	4	352	12 265	245	448	6 576	22 934	16 093	39 010
33461	Manufacturing and reproducing magnetic and optical media	3	24	4	352	12 265	245	448	6 576	22 934	16 093	39 010
334612	Prerecorded compact disc (except software), tape, and record reproducing	—	12	3	250	7 868	172	311	4 177	15 129	11 033	26 139
335	Electrical equipment, appliance, and component manufacturing	2	98	30	3 397	131 821	2 037	3 710	48 409	489 639	260 306	749 465
3351	Electric lighting equipment manufacturing	—	21	6	f	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing	—	21	6	f	D	D	D	D	D	D	D
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing	—	8	4	652	19 436	492	969	12 192	32 312	46 670	77 600

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WASHINGTON—Con.												
335	Electrical equipment, appliance, and component manufacturing—Con.											
3352	Household appliance manufacturing	—	5	2	f	D	D	D	D	D	D	D
33521	Small electrical appliance manufacturing	—	5	2	f	D	D	D	D	D	D	D
335211	Electric housewares and household fan manufacturing	—	3	2	f	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing	3	43	11	740	32 026	417	803	12 270	76 035	60 049	136 177
33531	Electrical equipment manufacturing	3	43	11	740	32 026	417	803	12 270	76 035	60 049	136 177
335312	Motor and generator manufacturing	6	3	2	c	D	D	D	D	D	D	207
335313	Switchgear and switchboard apparatus manufacturing	5	10	2	111	4 456	76	145	2 315	14 692	11 082	25 748
335314	Relay and industrial control manufacturing	1	28	7	486	22 801	243	471	7 346	48 786	37 910	86 842
3359	Other electrical equipment and component manufacturing	4	29	11	1 337	50 495	795	1 401	18 014	164 757	95 362	258 338
33593	Wiring device manufacturing	9	4	1	c	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing	9	2	1	c	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing	3	21	9	g	D	D	D	D	D	D	4 604
335999	All other miscellaneous electrical equipment and component manufacturing	3	20	8	1 013	37 702	634	1 151	15 135	108 756	72 061	178 899
336	Transportation equipment manufacturing	—	402	141	65 259	3 189 390	29 577	65 103	1 633 615	13 555 488	15 645 014	30 384 500
3361	Motor vehicle manufacturing	—	7	1	f	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing	—	2	1	f	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing	—	2	1	f	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing	1	36	13	g	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing	1	36	13	g	D	D	D	D	D	D	D
336211	Motor vehicle body manufacturing	1	13	6	e	D	D	D	D	D	D	2 873
336212	Truck trailer manufacturing	1	7	1	c	D	D	D	D	D	D	194
336213	Motor home manufacturing	—	2	2	f	D	D	D	D	D	D	D
336214	Travel trailer and camper manufacturing	2	14	4	275	8 508	211	342	4 824	14 556	31 475	45 287
3363	Motor vehicle parts manufacturing	2	83	25	g	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine and engine parts manufacturing	3	23	5	e	D	D	D	D	D	D	1 215
336312	Gasoline engine and engine parts manufacturing	2	22	4	e	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing	5	18	7	509	18 845	400	852	11 802	61 093	50 822	111 590
336322	Other motor vehicle electrical and electronic equipment manufacturing	5	18	7	509	18 845	400	852	11 802	61 093	50 822	111 590
33636	Motor vehicle seating and interior trim manufacturing	—	5	3	c	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing	—	5	3	c	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing	1	25	9	g	D	D	D	D	D	D	D
336391	Motor vehicle air-conditioning manufacturing	—	1	1	c	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing	1	24	8	f	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing	—	110	47	l	D	D	D	D	D	D	116 641
33641	Aerospace product and parts manufacturing	—	110	47	l	D	D	D	D	D	D	116 641
336411	Aircraft manufacturing	—	13	5	k	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing	—	9	2	c	D	D	D	D	D	D	106
336413	Other aircraft parts and auxiliary equipment manufacturing	—	80	36	j	D	D	D	D	D	D	52 202
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing	8	2	2	e	D	D	D	D	D	D	D
336419	Other guided missile and space vehicle parts and auxiliary equipment manufacturing	—	6	2	e	D	D	D	D	D	D	D

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WASHINGTON—Con.													
336	Transportation equipment manufacturing—Con.												
3366	Ship and boat building	2	143	53	6 022	237 793	4 823	9 904	171 612	459 491	286 199	745 690	18 206
33661	Ship and boat building	2	143	53	6 022	237 793	4 823	9 904	171 612	459 491	286 199	745 690	18 206
336611	Ship building and repairing ..	3	58	21	3 244	144 564	2 678	5 474	110 642	298 434	146 656	445 090	9 081
336612	Boat building	1	85	32	2 778	93 229	2 145	4 430	60 970	161 057	139 543	300 600	9 125
3369	Other transportation equipment manufacturing	5	21	1	c	D	D	D	D	D	D	D	273
33699	Other transportation equipment manufacturing	5	21	1	c	D	D	D	D	D	D	D	273
336991	Motorcycle, bicycle, and parts manufacturing	2	14	1	c	D	D	D	D	D	D	D	146
337	Furniture and related product manufacturing	2	'522	95	'7 911	'243 830	'5 983	'11 471	'154 547	'552 542	'357 004	'912 232	'18 413
3371	Household and institutional furniture and kitchen cabinet manufacturing	2	396	49	4 860	136 859	3 822	7 321	91 741	293 517	186 382	478 719	9 400
33711	Wood kitchen cabinet and countertop manufacturing	1	246	28	3 231	92 859	2 518	4 881	61 341	183 307	106 212	288 230	6 676
337110	Wood kitchen cabinet and countertop manufacturing ..	1	246	28	3 231	92 859	2 518	4 881	61 341	183 307	106 212	288 230	6 676
33712	Household and institutional furniture manufacturing	4	150	21	1 629	44 000	1 304	2 440	30 400	110 210	80 170	190 489	2 724
337121	Upholstered household furniture manufacturing	7	23	3	281	6 966	232	392	4 956	15 125	13 788	28 930	516
337122	Nonupholstered wood household furniture manufacturing	2	100	8	601	14 155	511	968	11 121	34 649	29 532	64 170	D
337127	Institutional furniture manufacturing	4	13	7	597	19 367	437	885	11 625	54 359	32 117	86 540	974
3372	Office furniture (including fixtures) manufacturing	2	'108	39	'2 556	'90 904	'1 795	'3 426	'52 945	'197 880	'124 695	'326 011	'7 878
33721	Office furniture (including fixtures) manufacturing	2	'108	39	'2 556	'90 904	'1 795	'3 426	'52 945	'197 880	'124 695	'326 011	'7 878
337211	Wood office furniture manufacturing	1	20	8	478	16 090	340	645	8 727	37 886	17 482	55 560	665
337212	Custom architectural woodwork and millwork manufacturing	—	'43	16	'927	'34 237	'653	'1 295	'19 737	'74 233	'34 090	'109 346	'1 252
337214	Office furniture (except wood) manufacturing	1	5	1	195	8 563	112	248	4 097	17 374	13 206	30 359	D
337215	Showcase, partition, shelving, and locker manufacturing	4	40	14	956	32 014	690	1 238	20 384	68 387	59 917	130 746	D
3379	Other furniture related product manufacturing	1	18	7	495	16 067	366	724	9 861	61 145	45 927	107 502	1 135
33791	Mattress manufacturing	—	14	5	430	14 511	314	625	8 706	57 874	42 152	100 441	D
337910	Mattress manufacturing	—	14	5	430	14 511	314	625	8 706	57 874	42 152	100 441	D
339	Miscellaneous manufacturing	2	880	'141	'11 078	'382 026	'7 180	'13 171	'186 142	'913 893	'564 374	'1 476 285	'37 452
3391	Medical equipment and supplies manufacturing	2	380	57	4 166	159 396	2 688	4 909	75 356	396 943	166 803	562 930	19 300
33911	Medical equipment and supplies manufacturing	2	380	57	4 166	159 396	2 688	4 909	75 356	396 943	166 803	562 930	19 300
339111	Laboratory apparatus and furniture manufacturing	—	8	3	198	8 472	93	210	3 165	17 712	13 823	31 178	245
339112	Surgical and medical instrument manufacturing ..	1	34	12	900	46 603	385	755	11 807	157 102	60 814	218 108	8 190
339113	Surgical appliance and supplies manufacturing	4	33	14	846	32 366	586	973	14 468	76 809	40 953	117 290	6 227
339114	Dental equipment and supplies manufacturing	2	23	7	351	14 068	230	375	6 225	32 122	16 397	48 519	886
339115	Ophthalmic goods manufacturing	5	12	4	306	10 606	220	440	5 800	28 644	16 499	45 151	1 022
339116	Dental laboratories	4	270	17	1 565	47 281	1 174	2 156	33 891	84 554	18 317	102 684	2 730
3399	Other miscellaneous manufacturing	2	500	'84	'6 912	'222 630	'4 492	'8 262	'110 786	'516 950	'397 571	'913 355	'18 152
33991	Jewelry and silverware manufacturing	3	46	4	243	7 214	171	305	4 304	11 775	8 687	20 466	273
339911	Jewelry (except costume) manufacturing	2	31	3	195	6 123	135	227	3 567	9 840	7 817	17 653	223
33992	Sporting and athletic goods manufacturing	2	96	18	2 408	77 583	1 549	2 969	35 895	224 595	199 399	422 135	6 108
339920	Sporting and athletic goods manufacturing	2	96	18	2 408	77 583	1 549	2 969	35 895	224 595	199 399	422 135	6 108
33993	Doll, toy, and game manufacturing	7	25	6	308	8 532	219	380	4 305	21 971	16 810	38 878	686
339932	Game, toy, and children's vehicle manufacturing	8	22	4	260	7 430	203	355	4 066	19 569	14 980	34 571	D
33994	Office supplies (except paper) manufacturing	5	23	5	298	8 919	216	391	5 232	16 752	13 090	29 800	507
339943	Marking device manufacturing	2	16	4	249	7 548	179	319	4 267	11 590	9 228	20 776	373
33995	Sign manufacturing	3	153	21	1 392	48 406	863	1 493	23 298	93 114	55 995	149 116	2 930
339950	Sign manufacturing	3	153	21	1 392	48 406	863	1 493	23 298	93 114	55 995	149 116	2 930

Table 1. Industry Statistics for the State: 2002—Con.

[Includes data for industry groups and industries with 100 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
WASHINGTON—Con.													
339	Miscellaneous manufacturing—Con.												
3399	Other miscellaneous manufacturing—Con.												
33999	All other miscellaneous manufacturing	1	157	'30	'2 263	'71 976	'1 474	'2 724	'37 752	'148 743	'103 590	'252 960	'7 648
339991	Gasket, packing, and sealing device manufacturing	1	10	3	170	5 845	115	194	3 221	10 832	5 760	16 608	344
339992	Musical instrument manufacturing	3	21	4	282	8 225	215	428	5 589	19 176	10 172	28 855	1 233
339999	All other miscellaneous manufacturing	1	117	'23	'1 759	'56 309	'1 105	'2 025	'27 987	'114 433	'85 694	'201 318	D

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

²Includes establishments with payroll at any time during the year.

³Industries with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: c–100 to 249 employees; e–250 to 499 employees; f–500 to 999 employees; g–1,000 to 2,499 employees; h–2,500 to 4,999 employees; i–5,000 to 9,999 employees; j–10,000 to 24,999 employees; k–25,000 to 49,999 employees; l–50,000 to 99,999 employees; m–100,000 employees or more.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
	SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA												
31-33	Manufacturing	-	4 530	1 209	m	D	D	D	D	D	D	896 950	
311	Food manufacturing	3	437	142	j	D	D	D	D	D	D	D	
3113	Sugar and confectionery product manufacturing	3	24	7	f	D	D	D	D	D	D	D	
31133	Confectionery manufacturing from purchased chocolate ...	2	19	6	e	D	D	D	D	D	D	D	
311330	Confectionery manufacturing from purchased chocolate ..	2	19	6	e	D	D	D	D	D	D	D	
3114	Fruit and vegetable preserving and specialty food manufacturing	-	24	7	g	D	D	D	D	D	D	D	
31141	Frozen food manufacturing	-	11	4	f	D	D	D	D	D	D	D	
311412	Frozen specialty food manufacturing	-	8	3	e	D	D	D	D	D	D	D	
31142	Fruit and vegetable canning, pickling, and drying	-	13	3	e	D	D	D	D	D	D	D	
311421	Fruit and vegetable canning ..	-	9	2	e	D	D	D	D	D	D	D	
3115	Dairy product manufacturing	6	16	10	f	D	D	D	D	D	D	D	
31151	Dairy product (except frozen) manufacturing	6	11	7	f	D	D	D	D	D	D	D	
311511	Fluid milk manufacturing	7	7	5	385	17 551	176	378	7 759	173 334	112 952	216 342	3 416
31152	Ice cream and frozen dessert manufacturing	7	5	3	e	D	D	D	D	D	D	D	
311520	Ice cream and frozen dessert manufacturing	7	5	3	e	D	D	D	D	D	D	D	
3116	Animal slaughtering and processing	3	41	15	g	D	D	D	D	D	D	D	
31161	Animal slaughtering and processing	3	41	15	g	D	D	D	D	D	D	D	
311612	Meat processed from carcasses	4	22	10	g	D	D	D	D	D	D	D	
3117	Seafood product preparation and packaging	2	66	37	i	D	D	D	D	D	D	D	
31171	Seafood product preparation and packaging	2	66	37	i	D	D	D	D	D	D	D	
311711	Seafood canning	3	24	8	f	D	D	D	D	D	D	D	
311712	Fresh and frozen seafood processing	2	42	29	h	D	D	D	D	D	D	D	
3118	Bakeries and tortilla manufacturing	2	164	38	i	D	D	D	D	D	D	D	
31181	Bread and bakery product manufacturing	2	145	28	h	D	D	D	D	D	D	D	
311811	Retail bakeries	3	97	9	f	D	D	D	D	D	D	D	
311812	Commercial bakeries	2	44	17	3 090	112 528	1 492	2 898	50 946	340 527	159 354	500 239	8 827
31182	Cookie, cracker, and pasta manufacturing	1	16	8	f	D	D	D	D	D	D	D	
311821	Cookie and cracker manufacturing	5	9	3	e	D	D	D	D	D	D	D	
311822	Flour mixes and dough purchased flour	-	4	4	e	D	D	D	D	D	D	D	
31183	Tortilla manufacturing	-	3	2	e	D	D	D	D	D	D	D	
311830	Tortilla manufacturing	-	3	2	e	D	D	D	D	D	D	D	
3119	Other food manufacturing	5	87	23	g	D	D	D	D	D	D	D	
31192	Coffee and tea manufacturing ..	9	16	3	e	D	D	D	D	D	D	D	
311920	Coffee and tea manufacturing	9	16	3	e	D	D	D	D	D	D	D	
31194	Seasoning and dressing manufacturing	4	12	5	e	D	D	D	D	D	D	D	
31199	All other food manufacturing ...	3	55	13	g	D	D	D	D	D	D	D	
311991	Perishable prepared food manufacturing	-	28	9	f	D	D	D	D	D	D	D	
311999	All other miscellaneous food manufacturing	7	27	4	e	D	D	D	D	D	D	D	
312	Beverage and tobacco product manufacturing	1	43	14	g	D	D	D	D	D	D	D	
3121	Beverage manufacturing	1	43	14	g	D	D	D	D	D	D	D	
31211	Soft drink and ice manufacturing	-	12	8	f	D	D	D	D	D	D	D	
312111	Soft drink manufacturing	-	8	3	f	D	D	D	D	D	D	D	
31212	Breweries	7	9	3	f	D	D	D	D	D	D	D	
312120	Breweries	7	9	3	f	D	D	D	D	D	D	D	
31213	Wineries	-	21	3	f	D	D	D	D	D	D	D	
312130	Wineries	-	21	3	f	D	D	D	D	D	D	D	
313	Textile mills	2	27	4	e	D	D	D	D	D	D	D	

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.													
314	Textile product mills	1	94	21	g	D	D	D	D	D	D	D	D
3149	Other textile product mills	1	79	17	g	D	D	D	D	D	D	D	D
31491	Textile bag and canvas mills . . .	—	35	7	f	D	D	D	D	D	D	D	D
314912	Canvas and related product mills	—	25	5	f	D	D	D	D	D	D	D	D
31499	All other textile product mills . . .	1	44	10	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills	1	42	10	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing	1	103	27	g	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing	1	80	22	g	D	D	D	D	D	D	D	D
31521	Cut and sew apparel contractors	3	50	9	f	D	D	D	D	D	D	D	D
315211	Men's and boys' cut and sew apparel contractors	3	14	6	e	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors	3	36	3	e	D	D	D	D	D	D	D	D
31522	Men's and boys' cut and sew apparel manufacturing	—	9	6	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing	—	219	84	i	D	D	D	D	D	D	D	D
3211	Sawmills and wood preservation . . .	—	54	30	h	D	D	D	D	D	D	D	D
32111	Sawmills and wood preservation	—	54	30	h	D	D	D	D	D	D	D	D
321113	Sawmills	—	48	25	h	D	D	D	D	D	D	D	D
321114	Wood preservation	—	6	5	399	15 296	310	742	9 442	36 762	84 145	131 856	9 701
3212	Veneer, plywood, and engineered wood product manufacturing	—	28	13	g	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing	—	28	13	g	D	D	D	D	D	D	D	D
321212	Softwood veneer and plywood manufacturing	—	5	2	e	D	D	D	D	D	D	D	D
321214	Truss manufacturing	1	10	6	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing	2	137	41	h	D	D	D	D	D	D	D	D
32191	Millwork	2	74	27	g	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing	1	36	13	g	D	D	D	D	D	D	D	D
321912	Cut stock, resawing lumber, and planing	5	16	8	e	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring)	—	22	6	363	10 788	272	496	6 893	20 106	27 687	47 387	498
32192	Wood container and pallet manufacturing	—	18	6	e	D	D	D	D	D	D	D	D
321920	Wood container and pallet manufacturing	—	18	6	e	D	D	D	D	D	D	D	D
32199	All other wood product manufacturing	—	45	8	f	D	D	D	D	D	D	D	D
321992	Prefabricated wood building manufacturing	—	12	5	364	12 825	256	485	7 785	40 969	41 235	82 314	D
322	Paper manufacturing	—	54	36	h	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills	—	5	4	1 513	95 935	1 219	2 337	74 428	400 633	462 277	869 698	D
32212	Paper mills	—	2	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	2	1	f	D	D	D	D	D	D	D	D
32213	Paperboard mills	—	3	3	f	D	D	D	D	D	D	D	D
322130	Paperboard mills	—	3	3	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	1	49	32	h	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing	—	21	18	g	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing	—	14	13	g	D	D	D	D	D	D	D	D
322212	Folding paperboard box manufacturing	—	4	4	e	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing ..	3	8	5	e	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing	—	13	6	f	D	D	D	D	D	D	D	D
322232	Envelope manufacturing	—	4	3	483	17 357	401	831	12 453	27 923	31 432	58 632	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.													
323	Printing and related support activities	1	501	79	i	D	D	D	D	D	D	D	D
3231	Printing and related support activities	1	501	79	i	D	D	D	D	D	D	D	D
32311	Printing	1	460	73	i	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	1	203	50	h	D	D	D	D	D	D	D	D
323112	Commercial flexographic printing	—	12	3	e	D	D	D	D	D	D	D	D
323113	Commercial screen printing ..	1	55	8	f	D	D	D	D	D	D	D	D
323114	Quick printing	4	116	5	f	D	D	D	D	D	D	D	D
323116	Manifold business forms printing	—	10	3	483	19 580	285	612	9 417	44 711	26 259	72 274	1 063
323119	Other commercial printing ...	1	39	4	e	D	D	D	D	D	D	D	D
32312	Support activities for printing...	—	41	6	554	25 566	419	806	17 322	45 780	7 486	53 097	796
323122	Prepress services	—	22	2	e	D	D	D	D	D	D	D	D
324	Petroleum and coal products manufacturing	—	16	5	e	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing	—	16	5	e	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, and saturated materials manufacturing	1	11	2	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing	2	122	29	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing	1	18	3	f	D	D	D	D	D	D	D	7 000
32541	Pharmaceutical and medicine manufacturing	1	18	3	f	D	D	D	D	D	D	D	7 000
325413	In-vitro diagnostic substance manufacturing	—	8	2	e	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) manufacturing ..	—	2	1	e	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing	1	24	6	e	D	D	D	D	D	D	D	D
32551	Paint and coating manufacturing	—	19	6	e	D	D	D	D	D	D	D	D
325510	Paint and coating manufacturing	—	19	6	e	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	3	28	5	e	D	D	D	D	D	D	D	4 615
3259	Other chemical product and preparation manufacturing	5	24	5	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	2	140	70	i	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	2	125	65	i	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing	1	12	8	767	29 792	632	1 151	22 211	56 907	78 236	136 672	D
326111	Plastics bag manufacturing ..	3	4	3	e	D	D	D	D	D	D	D	2 252
326113	Unlaminated plastics film and sheet (except packaging) manufacturing	—	7	4	e	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing	1	16	9	g	D	D	D	D	D	D	D	D
326121	Unlaminated plastics profile shape manufacturing	—	11	6	g	D	D	D	D	D	D	D	D
32615	Urethane and other foam product (except polystyrene) manufacturing	—	8	4	e	D	D	D	D	D	D	D	D
326150	Urethane and other foam product (except polystyrene) manufacturing	—	8	4	e	D	D	D	D	D	D	D	D
32616	Plastics bottle manufacturing ..	—	4	4	e	D	D	D	D	D	D	D	D
326160	Plastics bottle manufacturing	—	4	4	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	2	77	36	4 255	133 834	3 277	6 453	87 730	419 741	335 294	753 057	D
326191	Plastics plumbing fixture manufacturing	—	7	3	e	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	3	70	33	h	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	2	15	5	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.													
327	Nonmetallic mineral product manufacturing	1	214	61	i	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing	1	63	12	g	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing	1	63	12	g	D	D	D	D	D	D	D	D
327213	Glass container manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	3	39	10	g	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing	—	89	36	h	D	D	D	D	D	D	D	D
32732	Ready-mix concrete manufacturing	1	35	17	g	D	D	D	D	D	D	D	D
327320	Ready-mix concrete manufacturing	1	35	17	g	D	D	D	D	D	D	D	D
32733	Concrete pipe, brick, and block manufacturing	3	17	6	e	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing	—	34	11	f	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing	—	34	11	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing	4	27	7	e	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product manufacturing	4	23	6	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing	—	45	21	g	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing	—	7	5	f	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing	—	7	5	f	D	D	D	D	D	D	D	D
331111	Iron and steel mills	—	7	5	f	D	D	D	D	D	D	D	D
3315	Foundries	1	30	13	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	1	15	9	f	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	1	10	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	2	772	160	j	D	D	D	D	D	D	D	D
3321	Forging and stamping	3	17	4	e	D	D	D	D	D	D	D	D
33211	Forging and stamping	3	17	4	e	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing	3	203	52	h	D	D	D	D	D	D	D	D
33231	Plate work and fabricated structural product manufacturing	5	72	15	g	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing	5	57	12	f	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing	2	131	37	h	D	D	D	D	D	D	D	D
332321	Metal window and door manufacturing	2	15	5	484	15 764	346	712	9 486	26 235	33 285	60 515	509
332322	Sheet metal work manufacturing	2	71	29	g	D	D	D	D	D	D	D	D
332323	Ornamental and architectural metal work manufacturing ..	5	45	3	e	D	D	D	D	D	D	D	D
3324	Boiler, tank, and shipping container manufacturing	1	20	10	f	D	D	D	D	D	D	D	D
33243	Metal can, box, and other metal container (light gauge) manufacturing	—	11	6	f	D	D	D	D	D	D	D	D
332431	Metal can manufacturing	—	5	4	e	D	D	D	D	D	D	D	D
3325	Hardware manufacturing	2	14	4	e	D	D	D	D	D	D	D	D
33251	Hardware manufacturing	2	14	4	e	D	D	D	D	D	D	D	D
332510	Hardware manufacturing	2	14	4	e	D	D	D	D	D	D	D	D
3326	Spring and wire product manufacturing	6	19	2	e	D	D	D	D	D	D	D	D
33261	Spring and wire product manufacturing	6	19	2	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.													
332	Fabricated metal product manufacturing—Con.												
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2	336	46	h	D	D	D	D	D	D	D	D
33271	Machine shops	2	292	36	h	D	D	D	D	D	D	D	D
332710	Machine shops	2	292	36	h	D	D	D	D	D	D	D	D
33272	Turned product and screw, nut, and bolt manufacturing	—	44	10	f	D	D	D	D	D	D	D	D
332721	Precision turned product manufacturing	—	40	10	f	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities	—	70	21	g	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, and allied activities ..	—	70	21	g	D	D	D	D	D	D	D	D
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	—	37	11	f	D	D	D	D	D	D	D	D
332813	Electroplating, plating, polishing, anodizing, and coloring	1	26	7	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing	1	80	19	g	D	D	D	D	D	D	D	D
33291	Metal valve manufacturing	1	14	7	f	D	D	D	D	D	D	D	D
332919	Other metal valve and pipe fitting manufacturing	—	3	2	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	2	66	12	g	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product manufacturing	2	43	7	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	1	230	67	i	D	D	D	D	D	D	D	D
3331	Agriculture, construction, and mining machinery manufacturing	1	19	5	e	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing	1	12	4	278	11 996	149	306	5 527	30 033	23 526	52 362	1 544
333120	Construction machinery manufacturing	1	12	4	278	11 996	149	306	5 527	30 033	23 526	52 362	1 544
3332	Industrial machinery manufacturing	2	43	9	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing	2	34	8	f	D	D	D	D	D	D	D	D
333294	Food product machinery manufacturing	2	12	3	347	12 328	237	483	7 206	35 811	34 742	70 742	568
3333	Commercial and service industry machinery manufacturing	4	24	7	f	D	D	D	D	D	D	D	D
33331	Commercial and service industry machinery manufacturing	4	24	7	f	D	D	D	D	D	D	D	D
333319	Other commercial and service industry machinery manufacturing	4	12	6	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2	15	4	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2	15	4	f	D	D	D	D	D	D	D	D
333414	Heating equipment (except warm air furnaces) manufacturing	1	6	2	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing	1	54	15	g	D	D	D	D	D	D	D	D
33351	Metalworking machinery manufacturing	1	54	15	g	D	D	D	D	D	D	D	D
333512	Machine tool (metal cutting types) manufacturing	—	4	3	e	D	D	D	D	D	D	D	D
333515	Cutting tool and machine tool accessory manufacturing	2	13	4	f	D	D	D	D	D	D	D	D

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Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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	SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.												
333	Machinery manufacturing—Con.												
3339	Other general purpose machinery manufacturing	—	67	24	h	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing	—	28	10	g	D	D	D	D	D	D	D	D
333923	Overhead traveling crane, hoist, and monorail system manufacturing	—	10	6	1 777	76 159	1 508	3 081	66 489	182 999	299 680	502 057	2 914
33399	All other general purpose machinery manufacturing	3	34	14	f	D	D	D	D	D	D	D	D
333995	Fluid power cylinder and actuator manufacturing	4	8	3	e	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	1	'277	'103	j	D	D	D	D	D	D	D	D
3341	Computer and peripheral equipment manufacturing	2	'34	11	g	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing	2	'34	11	g	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing	—	'8	2	f	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing	9	3	2	e	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	1	23	7	g	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing	1	39	20	g	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing	—	14	9	f	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing	—	14	9	f	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing	2	15	9	f	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing	2	15	9	f	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing	9	13	2	f	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing	9	13	2	f	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing	9	13	2	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing	—	'67	'29	h	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing	—	'67	'29	h	D	D	D	D	D	D	D	D
334412	Bare printed circuit board manufacturing	1	'19	'10	f	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing	—	9	3	596	27 674	203	407	10 570	67 287	33 753	106 505	3 301
334418	Printed circuit assembly (electronic assembly) manufacturing	—	8	6	e	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing	—	23	7	1 696	56 865	745	1 390	24 103	106 203	53 759	160 566	5 609
3345	Navigational, measuring, electromedical, and control instruments manufacturing	—	106	37	j	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	106	37	j	D	D	D	D	D	D	D	D
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	1	15	11	h	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	—	19	11	h	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	1	13	7	g	D	D	D	D	D	D	D	D
334519	Other measuring and controlling device manufacturing	—	26	2	e	D	D	D	D	D	D	D	D
3346	Manufacturing and reproducing magnetic and optical media	3	18	4	e	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media ...	3	18	4	e	D	D	D	D	D	D	D	D

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Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.													
335	Electrical equipment, appliance, and component manufacturing	2	68	20	g	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
335211	Electric housewares and household fan manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing	3	31	9	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing	3	31	9	f	D	D	D	D	D	D	D	D
335314	Relay and industrial control manufacturing	1	18	5	e	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing	4	20	7	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing	2	14	5	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	2	14	5	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	-	247	87	l	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing	-	5	1	f	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	2	49	11	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing	-	14	4	e	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing	-	92	41	l	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	-	92	41	l	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing	-	10	4	k	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing	-	68	31	j	D	D	D	D	D	D	D	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing	8	2	2	e	D	D	D	D	D	D	D	D
3366	Ship and boat building	2	74	26	h	D	D	D	D	D	D	D	D
33661	Ship and boat building	2	74	26	h	D	D	D	D	D	D	D	D
336611	Ship building and repairing ..	3	38	15	g	D	D	D	D	D	D	D	D
336612	Boat building	1	36	11	g	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	2	333	77	i	D	D	D	D	D	D	D	12 341
3371	Household and institutional furniture and kitchen cabinet manufacturing	3	238	37	h	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing	1	135	21	g	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing ..	1	135	21	g	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing	4	103	16	g	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing	2	64	8	f	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing	4	9	5	e	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing	2	81	34	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing	2	81	34	g	D	D	D	D	D	D	D	D
337211	Wood office furniture manufacturing	1	17	8	e	D	D	D	D	D	D	D	D
337212	Custom architectural woodwork and millwork manufacturing	-	30	14	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing	4	30	11	f	D	D	D	D	D	D	D	D

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SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.													
337	Furniture and related product manufacturing—Con.												
3379	Other furniture related product manufacturing	–	14	6	e	D	D	D	D	D	D	D	D
33791	Mattress manufacturing	–	11	4	e	D	D	D	D	D	D	D	D
337910	Mattress manufacturing	–	11	4	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	2	566	'99	i	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing	2	252	41	h	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing	2	252	41	h	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	–	25	10	f	D	D	D	D	D	D	D	D
339113	Surgical appliance and supplies manufacturing	4	24	10	e	D	D	D	D	D	D	D	D
339114	Dental equipment and supplies manufacturing	1	19	4	e	D	D	D	D	D	D	D	D
339116	Dental laboratories	4	173	13	1 136	35 700	846	1 614	25 740	63 948	13 771	77 531	D
3399	Other miscellaneous manufacturing	2	314	'58	h	D	D	D	D	D	D	D	D
33992	Sporting and athletic goods manufacturing	2	55	14	g	D	D	D	D	D	D	D	D
339920	Sporting and athletic goods manufacturing	2	55	14	g	D	D	D	D	D	D	D	D
33995	Sign manufacturing	2	99	13	934	34 793	585	1 041	16 413	69 626	39 547	108 985	D
339950	Sign manufacturing	2	99	13	934	34 793	585	1 041	16 413	69 626	39 547	108 985	D
33999	All other miscellaneous manufacturing	1	103	'22	g	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing	1	73	'17	g	D	D	D	D	D	D	D	D
Bremerton-Silverdale, WA Metropolitan Statistical Area													
31-33	Manufacturing	4	171	19	2 321	74 290	1 442	2 562	35 818	168 239	98 795	267 059	6 885
334	Computer and electronic product manufacturing	5	14	2	679	27 883	266	594	8 131	55 695	24 023	79 718	2 544
3345	Navigational, measuring, electromedical, and control instruments manufacturing	5	6	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	5	6	2	f	D	D	D	D	D	D	D	D
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	–	1	1	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	5	21	3	336	9 167	214	380	3 993	27 908	17 206	45 021	719
339	Miscellaneous manufacturing	1	29	3	298	9 539	213	386	5 477	20 221	10 023	29 996	1 180
Oak Harbor, WA Micropolitan Statistical Area													
31-33	Manufacturing	5	50	7	f	D	D	D	D	D	D	D	2 400
Olympia, WA Metropolitan Statistical Area													
31-33	Manufacturing	2	174	32	3 121	115 048	2 455	4 788	83 443	300 144	444 894	742 749	26 409
312	Beverage and tobacco product manufacturing	5	5	3	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing	5	5	3	f	D	D	D	D	D	D	D	D
31212	Breweries	9	1	1	e	D	D	D	D	D	D	D	D
312120	Breweries	9	1	1	e	D	D	D	D	D	D	D	D
322	Paper manufacturing	–	3	2	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	–	3	2	e	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing	–	2	2	e	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing	–	2	2	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	–	8	5	616	18 678	535	957	16 094	51 511	65 670	118 298	11 470
3261	Plastics product manufacturing ..	–	8	5	616	18 678	535	957	16 094	51 511	65 670	118 298	11 470
32619	Other plastics product manufacturing	–	4	2	286	8 422	245	445	6 491	23 796	14 816	38 640	D
332	Fabricated metal product manufacturing	1	23	5	386	16 501	285	563	11 480	50 107	62 440	112 115	1 102

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SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.													
Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area													
31-33	Manufacturing	—	4 085	1 138	166 817	7 480 574	94 878	191 341	3 689 126	24 511 175	25 609 534	51 570 568	827 607
311	Food manufacturing	3	389	136	16 701	514 394	12 279	22 799	327 509	1 930 327	1 809 697	3 663 152	132 981
3113	Sugar and confectionery product manufacturing	3	21	7	f	D	D	D	D	D	D	D	D
31133	Confectionery manufacturing from purchased chocolate	2	17	6	481	13 232	348	689	5 808	38 371	21 598	59 778	824
311330	Confectionery manufacturing from purchased chocolate ..	2	17	6	481	13 232	348	689	5 808	38 371	21 598	59 778	824
3114	Fruit and vegetable preserving and specialty food manufacturing	—	18	6	1 020	35 087	824	1 583	23 088	144 879	105 732	250 034	8 102
31141	Frozen food manufacturing	—	9	4	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing	—	7	3	e	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying	—	9	2	e	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning .	—	7	2	e	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing	6	13	9	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing	5	9	6	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing	7	7	5	385	17 551	176	378	7 759	173 334	112 952	216 342	3 416
31152	Ice cream and frozen dessert manufacturing	7	4	3	e	D	D	D	D	D	D	D	D
311520	Ice cream and frozen dessert manufacturing	7	4	3	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing	3	37	14	1 618	46 638	1 382	2 889	33 923	238 348	271 299	497 934	15 743
31161	Animal slaughtering and processing	3	37	14	1 618	46 638	1 382	2 889	33 923	238 348	271 299	497 934	15 743
311612	Meat processed from carcasses	4	21	9	1 133	33 171	974	2 027	24 000	181 930	162 305	334 456	11 937
3117	Seafood product preparation and packaging	2	60	36	5 472	145 854	4 747	8 268	113 909	498 976	605 845	1 104 743	75 037
31171	Seafood product preparation and packaging	2	60	36	5 472	145 854	4 747	8 268	113 909	498 976	605 845	1 104 743	75 037
311711	Seafood canning	3	22	8	732	20 721	583	1 130	12 293	68 355	136 963	205 237	2 968
311712	Fresh and frozen seafood processing	2	38	28	4 740	125 133	4 164	7 138	101 616	430 621	468 882	899 506	72 069
3118	Bakeries and tortilla manufacturing	2	148	37	5 073	161 694	2 874	5 184	83 621	555 808	349 196	907 685	14 839
31181	Bread and bakery product manufacturing	2	129	27	h	D	D	D	D	D	D	D	D
311811	Retail bakeries	3	81	8	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries	2	44	17	3 090	112 528	1 492	2 898	50 946	340 527	159 354	500 239	8 827
31182	Cookie, cracker, and pasta manufacturing	1	16	8	f	D	D	D	D	D	D	D	D
311821	Cookie and cracker manufacturing	5	9	3	e	D	D	D	D	D	D	D	D
311822	Flour mixes and dough manufacturing from purchased flour	—	4	4	e	D	D	D	D	D	D	D	D
31183	Tortilla manufacturing	—	3	2	e	D	D	D	D	D	D	D	D
311830	Tortilla manufacturing	—	3	2	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing	5	79	22	1 943	68 987	1 406	2 851	43 123	241 626	206 900	448 144	12 523
31192	Coffee and tea manufacturing .	9	15	3	467	19 894	340	709	14 216	87 778	81 107	168 831	3 837
311920	Coffee and tea manufacturing	9	15	3	467	19 894	340	709	14 216	87 778	81 107	168 831	3 837
31194	Seasoning and dressing manufacturing	4	10	5	270	10 220	172	334	5 009	36 555	36 929	73 560	D
31199	All other food manufacturing ...	3	50	12	1 019	31 931	799	1 644	21 178	88 605	76 931	164 358	3 688
311991	Perishable prepared food manufacturing	—	27	8	f	D	D	D	D	D	D	D	D
311999	All other miscellaneous food manufacturing	7	23	4	e	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing	—	35	11	g	D	D	D	D	D	D	D	48 889
3121	Beverage manufacturing	—	35	11	g	D	D	D	D	D	D	D	48 889
31211	Soft drink and ice manufacturing	1	9	6	634	26 900	271	515	9 454	66 852	233 155	297 459	D
312111	Soft drink manufacturing	1	6	6	604	25 662	259	493	9 171	65 580	232 062	295 093	D
31213	Wineries	—	18	3	f	D	D	D	D	D	D	D	D
312130	Wineries	—	18	3	f	D	D	D	D	D	D	D	D
313	Textile mills	2	25	4	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.													
Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area—Con.													
314	Textile product mills	1	84	20	1 558	49 014	1 082	1 955	25 926	104 607	91 053	196 840	D
3149	Other textile product mills	1	70	16	g	D	D	D	D	D	D	D	D
31491	Textile bag and canvas mills . . .	—	30	7	681	25 794	423	754	11 811	49 070	37 187	87 974	D
314912	Canvas and related product mills	—	22	5	571	23 367	327	589	10 240	44 842	34 305	80 765	D
31499	All other textile product mills . . .	1	40	9	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills	1	38	9	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing	1	94	25	g	D	D	D	D	D	D	D	2 871
3152	Cut and sew apparel manufacturing	1	73	20	g	D	D	D	D	D	D	D	D
31521	Cut and sew apparel contractors	3	45	9	f	D	D	D	D	D	D	D	D
315211	Men's and boys' cut and sew apparel contractors	3	14	6	e	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors	3	31	3	e	D	D	D	D	D	D	D	D
31522	Men's and boys' cut and sew apparel manufacturing	—	7	4	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing	1	187	75	6 069	215 484	4 871	9 816	154 088	459 822	779 201	1 242 412	51 752
3211	Sawmills and wood preservation .	—	41	26	2 638	107 353	2 219	4 595	82 579	221 778	479 045	702 321	39 569
32111	Sawmills and wood preservation	—	41	26	2 638	107 353	2 219	4 595	82 579	221 778	479 045	702 321	39 569
321113	Sawmills	—	35	21	2 239	92 057	1 909	3 853	73 137	185 016	394 900	570 465	29 868
321114	Wood preservation	—	6	5	399	15 296	310	742	9 442	36 762	84 145	131 856	9 701
3212	Veneer, plywood, and engineered wood product manufacturing	—	22	11	814	27 846	644	1 381	18 880	51 912	72 358	126 355	1 954
32121	Veneer, plywood, and engineered wood product manufacturing	—	22	11	814	27 846	644	1 381	18 880	51 912	72 358	126 355	1 954
321214	Truss manufacturing	1	7	5	281	8 677	215	442	5 466	16 384	10 589	26 932	392
3219	Other wood product manufacturing	2	124	38	2 617	80 285	2 008	3 840	52 629	186 132	227 798	413 736	10 229
32191	Millwork	2	67	24	1 677	49 511	1 330	2 622	33 860	109 910	131 806	241 347	6 577
321911	Wood window and door manufacturing	1	33	13	1 040	30 686	813	1 604	20 215	64 925	68 539	133 376	3 343
321912	Cut stock, resawing lumber, and planing	6	12	5	274	8 037	245	522	6 752	24 879	35 580	60 584	2 736
321918	Other millwork (including flooring)	—	22	6	363	10 788	272	496	6 893	20 106	27 687	47 387	498
32192	Wood container and pallet manufacturing	—	17	6	376	11 482	283	521	7 087	22 624	41 592	64 643	1 137
321920	Wood container and pallet manufacturing	—	17	6	376	11 482	283	521	7 087	22 624	41 592	64 643	1 137
32199	All other wood product manufacturing	—	40	8	564	19 292	395	697	11 682	53 598	54 400	107 746	2 515
321992	Prefabricated wood building manufacturing	—	12	5	364	12 825	256	485	7 785	40 969	41 235	82 314	D
322	Paper manufacturing	—	51	34	4 294	193 664	3 264	6 385	136 927	615 216	785 081	1 404 601	101 708
3221	Pulp, paper, and paperboard mills	—	5	4	1 513	95 935	1 219	2 337	74 428	400 633	462 277	869 698	D
32212	Paper mills	—	2	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	2	1	f	D	D	D	D	D	D	D	D
32213	Paperboard mills	—	3	3	f	D	D	D	D	D	D	D	D
322130	Paperboard mills	—	3	3	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	1	46	30	2 781	97 729	2 045	4 048	62 499	214 583	322 804	534 903	D
32221	Paperboard container manufacturing	—	19	16	1 525	55 322	1 114	2 218	36 629	124 251	215 904	340 326	D
322211	Corrugated and solid fiber box manufacturing	1	12	11	1 100	37 800	765	1 505	23 524	84 547	149 979	235 011	D
322212	Folding paperboard box manufacturing	—	4	4	e	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing ..	3	8	5	e	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing	—	13	6	f	D	D	D	D	D	D	D	D
322232	Envelope manufacturing	—	4	3	483	17 357	401	831	12 453	27 923	31 432	58 632	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

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SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.													
Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area—Con.													
323	Printing and related support activities	1	458	75	6 613	241 495	4 629	8 235	141 004	508 140	264 029	775 336	29 293
3231	Printing and related support activities	1	458	75	6 613	241 495	4 629	8 235	141 004	508 140	264 029	775 336	29 293
32311	Printing	1	417	69	6 059	215 929	4 210	7 429	123 682	462 360	256 543	722 239	28 497
323110	Commercial lithographic printing	1	187	47	3 775	137 275	2 683	4 620	79 206	288 154	180 030	469 941	22 463
323112	Commercial flexographic printing	—	12	3	e	D	D	D	D	D	D	D	D
323113	Commercial screen printing ..	2	48	8	541	15 851	433	805	10 707	30 532	13 422	43 960	1 272
323114	Quick printing	4	102	5	550	15 351	345	599	9 209	37 238	12 299	49 532	1 129
323116	Manifold business forms printing	—	10	3	483	19 580	285	612	9 417	44 711	26 259	72 274	1 063
323119	Other commercial printing ...	1	35	3	e	D	D	D	D	D	D	D	920
32312	Support activities for printing...	—	41	6	554	25 566	419	806	17 322	45 780	7 486	53 097	796
323122	Prepress services	—	22	2	e	D	D	D	D	D	D	D	D
324	Petroleum and coal products manufacturing	—	16	5	e	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing	—	16	5	e	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, and saturated materials manufacturing	1	11	2	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing	2	115	28	g	D	D	D	D	D	D	D	20 530
3254	Pharmaceutical and medicine manufacturing	1	18	3	f	D	D	D	D	D	D	D	7 000
32541	Pharmaceutical and medicine manufacturing	1	18	3	f	D	D	D	D	D	D	D	7 000
325413	In-vitro diagnostic substance manufacturing	—	8	2	e	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) manufacturing ..	—	2	1	e	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing	1	23	6	e	D	D	D	D	D	D	D	D
32551	Paint and coating manufacturing	—	18	6	e	D	D	D	D	D	D	D	3 535
325510	Paint and coating manufacturing	—	18	6	e	D	D	D	D	D	D	D	3 535
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	3	28	5	e	D	D	D	D	D	D	D	4 615
3259	Other chemical product and preparation manufacturing	5	20	5	e	D	D	D	D	D	D	D	1 685
326	Plastics and rubber products manufacturing	2	128	64	6 696	223 922	5 251	10 436	150 161	634 567	563 174	1 196 816	40 977
3261	Plastics product manufacturing ..	2	115	60	i	D	D	D	D	D	D	D	40 591
32611	Plastics packaging materials and unlaminated film and sheet manufacturing	1	12	8	767	29 792	632	1 151	22 211	56 907	78 236	136 672	D
326111	Plastics bag manufacturing ..	3	4	3	e	D	D	D	D	D	D	D	2 252
326113	Unlaminated plastics film and sheet (except packaging) manufacturing	—	7	4	e	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing	1	13	8	1 199	42 497	977	2 083	28 120	107 642	93 817	201 489	13 699
326121	Unlaminated plastics profile shape manufacturing	—	9	6	1 039	37 584	851	1 875	25 158	92 171	66 530	160 395	12 493
32615	Urethane and other foam product (except polystyrene) manufacturing	—	7	4	e	D	D	D	D	D	D	D	D
326150	Urethane and other foam product (except polystyrene) manufacturing	—	7	4	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	3	73	34	3 969	125 412	3 032	6 008	81 239	395 945	320 478	714 417	17 529
326199	All other plastics product manufacturing	3	67	32	3 884	122 941	2 970	5 898	79 578	389 346	314 313	701 639	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.												
	Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area—Con.												
327	Nonmetallic mineral product manufacturing	1	'170	57	'5 072	'201 347	'3 872	'7 871	'138 756	'616 653	'466 591	'1 077 726	'33 462
3272	Glass and glass product manufacturing	2	52	11	1 858	65 881	1 526	3 149	49 161	202 974	144 331	344 072	9 421
32721	Glass and glass product manufacturing	2	52	11	1 858	65 881	1 526	3 149	49 161	202 974	144 331	344 072	9 421
327213	Glass container manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	4	34	9	g	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing	—	64	33	2 407	104 440	1 731	3 593	68 298	301 527	235 200	534 292	15 289
32732	Ready-mix concrete manufacturing	1	22	14	1 016	46 436	788	1 715	33 929	101 597	99 661	201 753	3 636
327320	Ready-mix concrete manufacturing	1	22	14	1 016	46 436	788	1 715	33 929	101 597	99 661	201 753	3 636
32733	Concrete pipe, brick, and block manufacturing	3	13	6	e	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing	—	26	11	874	36 370	592	1 092	20 296	119 826	58 695	179 264	D
327390	Other concrete product manufacturing	—	26	11	874	36 370	592	1 092	20 296	119 826	58 695	179 264	D
3279	Other nonmetallic mineral product manufacturing	4	25	7	391	13 945	287	559	8 632	33 758	23 566	56 926	D
32799	All other nonmetallic mineral product manufacturing	4	21	6	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing	—	42	20	g	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing	—	6	4	f	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing	—	6	4	f	D	D	D	D	D	D	D	D
331111	Iron and steel mills	—	6	4	f	D	D	D	D	D	D	D	D
3315	Foundries	1	28	13	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	1	14	9	f	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	1	10	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	2	724	152	11 832	437 320	8 529	16 588	272 534	952 218	672 003	1 630 936	41 366
3321	Forging and stamping.....	3	16	4	269	10 705	208	420	7 060	20 845	25 386	45 274	1 024
33211	Forging and stamping.....	3	16	4	269	10 705	208	420	7 060	20 845	25 386	45 274	1 024
3323	Architectural and structural metals manufacturing	3	190	50	3 422	124 951	2 436	4 840	74 466	260 437	248 321	511 638	9 175
33231	Plate work and fabricated structural product manufacturing	5	67	14	917	37 143	654	1 293	21 924	82 478	76 989	161 745	2 998
332312	Fabricated structural metal manufacturing	5	54	12	f	D	D	D	D	D	D	D	2 543
33232	Ornamental and architectural metal products manufacturing	2	123	36	2 505	87 808	1 782	3 547	52 542	177 959	171 332	349 893	6 177
332321	Metal window and door manufacturing	2	15	5	484	15 764	346	712	9 486	26 235	33 285	60 515	509
332322	Sheet metal work manufacturing	2	66	28	1 667	58 938	1 184	2 374	35 048	128 140	122 133	249 640	4 624
332323	Ornamental and architectural metal work manufacturing ..	5	42	3	354	13 106	252	461	8 008	23 584	15 914	39 738	1 044
3324	Boiler, tank, and shipping container manufacturing	1	16	8	631	28 591	478	1 039	18 797	96 679	96 927	196 240	2 457
33243	Metal can, box, and other metal container (light gauge) manufacturing	—	8	4	361	17 968	270	615	12 073	70 493	84 173	157 489	2 092
3326	Spring and wire product manufacturing	5	18	2	298	11 090	201	413	5 628	20 536	17 356	37 883	D
33261	Spring and wire product manufacturing	5	18	2	298	11 090	201	413	5 628	20 536	17 356	37 883	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2	321	45	3 979	142 587	2 893	5 786	96 628	297 204	133 627	438 378	16 961
33271	Machine shops	2	278	35	3 169	109 299	2 318	4 771	74 228	233 612	100 965	340 457	13 637
332710	Machine shops	2	278	35	3 169	109 299	2 318	4 771	74 228	233 612	100 965	340 457	13 637
33272	Turned product and screw, nut, and bolt manufacturing	—	43	10	810	33 288	575	1 015	22 400	63 592	32 662	97 921	3 324
332721	Precision turned product manufacturing	—	39	10	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.												
	Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area—Con.												
332	Fabricated metal product manufacturing—Con.												
3328	Coating, engraving, heat treating, and allied activities	-	65	21	1 426	49 792	1 026	1 764	29 432	88 401	23 722	111 662	2 902
33281	Coating, engraving, heat treating, and allied activities ..	-	65	21	1 426	49 792	1 026	1 764	29 432	88 401	23 722	111 662	2 902
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	-	35	11	631	22 037	469	804	13 775	42 503	13 843	55 754	D
332813	Electroplating, plating, polishing, anodizing, and coloring	1	23	7	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing	1	74	17	g	D	D	D	D	D	D	D	4 030
33291	Metal valve manufacturing	1	13	6	f	D	D	D	D	D	D	D	D
332919	Other metal valve and pipe fitting manufacturing	-	3	2	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	2	61	11	f	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product manufacturing	2	41	7	546	23 514	395	827	15 001	49 437	37 681	89 080	1 159
333	Machinery manufacturing	1	215	64	6 575	288 536	4 461	8 725	171 045	698 561	614 556	1 294 291	19 833
3331	Agriculture, construction, and mining machinery manufacturing	1	18	5	e	D	D	D	D	D	D	D	1 692
33312	Construction machinery manufacturing	1	12	4	278	11 996	149	306	5 527	30 033	23 526	52 362	1 544
333120	Construction machinery manufacturing	1	12	4	278	11 996	149	306	5 527	30 033	23 526	52 362	1 544
3332	Industrial machinery manufacturing	2	41	9	849	36 190	539	1 078	19 289	82 024	63 326	144 575	D
33329	Other industrial machinery manufacturing	2	33	8	696	28 997	426	841	14 318	69 018	57 969	126 323	D
333294	Food product machinery manufacturing	2	12	3	347	12 328	237	483	7 206	35 811	34 742	70 742	568
3333	Commercial and service industry machinery manufacturing	4	23	7	597	27 936	351	696	13 965	72 269	34 329	106 447	1 994
33331	Commercial and service industry machinery manufacturing	4	23	7	597	27 936	351	696	13 965	72 269	34 329	106 447	1 994
333319	Other commercial and service industry machinery manufacturing	4	12	6	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2	14	4	633	22 523	482	943	13 789	62 150	44 694	104 327	977
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2	14	4	633	22 523	482	943	13 789	62 150	44 694	104 327	977
333414	Heating equipment (except warm air furnaces) manufacturing	1	6	2	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing	1	48	13	1 243	61 090	701	1 276	25 492	164 001	73 950	205 451	8 882
33351	Metalworking machinery manufacturing	1	48	13	1 243	61 090	701	1 276	25 492	164 001	73 950	205 451	8 882
333512	Machine tool (metal cutting types) manufacturing	-	4	3	e	D	D	D	D	D	D	D	D
333515	Cutting tool and machine tool accessory manufacturing...	2	10	3	598	30 454	302	543	10 396	80 944	34 585	112 583	D
3339	Other general purpose machinery manufacturing	-	63	23	2 738	118 846	2 065	4 113	86 840	267 414	360 862	647 041	4 391
33392	Material handling equipment manufacturing	-	27	10	g	D	D	D	D	D	D	D	3 193
333923	Overhead traveling crane, hoist, and monorail system manufacturing	-	10	6	1 777	76 159	1 508	3 081	66 489	182 999	299 680	502 057	2 914
33399	All other general purpose machinery manufacturing	1	32	13	f	D	D	D	D	D	D	D	1 171

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SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.													
Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area—Con.													
334	Computer and electronic product manufacturing	1	'258	'100	'19 283	'1 279 487	'6 896	'13 606	'244 890	'2 400 399	'2 175 351	'4 967 598	'101 083
3341	Computer and peripheral equipment manufacturing	1	'31	11	'2 311	'129 702	'796	'1 500	'29 203	'482 205	'378 275	'864 106	'12 890
33411	Computer and peripheral equipment manufacturing	1	'31	11	'2 311	'129 702	'796	'1 500	'29 203	'482 205	'378 275	'864 106	'12 890
334111	Electronic computer manufacturing	—	'6	2	f	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing	9	3	2	e	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	1	22	7	g	D	D	D	D	D	D	D	8 378
3342	Communications equipment manufacturing	1	37	20	g	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing	—	14	9	f	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing	—	14	9	f	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing	2	13	9	554	29 618	237	467	8 544	54 545	34 756	90 333	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing	2	13	9	554	29 618	237	467	8 544	54 545	34 756	90 333	D
3343	Audio and video equipment manufacturing	9	11	2	f	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing	9	11	2	f	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing	9	11	2	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing	—	'65	'28	'3 587	'137 607	'1 886	'3 700	'65 351	'272 727	'155 352	'435 811	'15 816
33441	Semiconductor and other electronic component manufacturing	—	'65	'28	'3 587	'137 607	'1 886	'3 700	'65 351	'272 727	'155 352	'435 811	'15 816
334412	Bare printed circuit board manufacturing	1	'18	'9	'696	'31 148	'541	'1 092	'20 563	'66 870	'30 870	'98 228	'5 644
334413	Semiconductor and related device manufacturing	—	9	3	596	27 674	203	407	10 570	67 287	33 753	106 505	3 301
334418	Printed circuit assembly (electronic assembly) manufacturing	—	8	6	e	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing	—	23	7	1 696	56 865	745	1 390	24 103	106 203	53 759	160 566	5 609
3345	Navigational, measuring, electromedical, and control instruments manufacturing	—	98	35	11 157	919 575	2 997	6 279	119 682	1 407 271	1 383 200	3 166 916	63 793
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	98	35	11 157	919 575	2 997	6 279	119 682	1 407 271	1 383 200	3 166 916	63 793
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	1	14	10	3 962	283 324	765	1 651	32 005	646 756	863 588	1 483 028	33 628
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	—	17	10	4 603	498 120	1 118	2 307	48 897	387 027	328 906	1 116 524	18 161
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	1	12	7	1 760	93 968	748	1 541	23 214	291 247	136 066	427 607	D
334519	Other measuring and controlling device manufacturing	—	25	2	447	23 889	224	504	10 522	52 575	16 849	73 648	1 176
3346	Manufacturing and reproducing magnetic and optical media	3	16	4	e	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media ...	3	16	4	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	2	64	19	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.												
	Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area—Con.												
335	Electrical equipment, appliance, and component manufacturing—Con.												
3352	Household appliance manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
335211	Electric housewares and household fan manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing	2	28	8	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing	2	28	8	f	D	D	D	D	D	D	D	D
335314	Relay and industrial control manufacturing	1	17	5	e	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing	4	20	7	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing	2	14	5	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	2	14	5	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	—	218	83	l	D	D	D	D	D	D	D	130 960
3361	Motor vehicle manufacturing	—	5	1	f	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	2	45	11	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing	—	14	4	e	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing	—	85	41	l	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	—	85	41	l	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing	—	10	4	k	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing	—	61	31	j	D	D	D	D	D	D	D	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing	8	2	2	e	D	D	D	D	D	D	D	D
3366	Ship and boat building	2	60	23	h	D	D	D	D	D	D	D	D
33661	Ship and boat building	2	60	23	h	D	D	D	D	D	D	D	D
336611	Ship building and repairing ..	2	32	12	g	D	D	D	D	D	D	D	5 817
336612	Boat building	1	28	11	g	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	2	'287	69	'5 259	'168 485	'3 938	'7 890	'107 698	'376 383	'243 744	'622 875	'10 813
3371	Household and institutional furniture and kitchen cabinet manufacturing	2	199	35	3 032	88 596	2 351	4 728	59 790	183 381	118 838	301 155	D
33711	Wood kitchen cabinet and countertop manufacturing	1	111	20	1 932	57 020	1 462	3 044	38 080	111 475	63 647	174 154	2 820
337110	Wood kitchen cabinet and countertop manufacturing ..	1	111	20	1 932	57 020	1 462	3 044	38 080	111 475	63 647	174 154	2 820
33712	Household and institutional furniture manufacturing	3	88	15	1 100	31 576	889	1 684	21 710	71 906	55 191	127 001	D
337122	Nonupholstered wood household furniture manufacturing	2	54	8	481	11 433	416	799	9 083	29 670	25 230	54 839	848
337127	Institutional furniture manufacturing	1	7	4	341	12 787	244	485	7 214	27 045	15 689	42 682	456
3372	Office furniture (including fixtures) manufacturing	2	'75	29	'1 888	'69 456	'1 317	'2 640	'41 021	'151 563	'94 864	'249 811	'5 703

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.													
Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area—Con.													
337	Furniture and related product manufacturing—Con.												
3372	Office furniture (including fixtures) manufacturing—Con.												
33721	Office furniture (including fixtures) manufacturing	2	'75	29	'1 888	'69 456	'1 317	'2 640	'41 021	'151 563	'94 864	'249 811	'5 703
337211	Wood office furniture manufacturing	1	16	7	e	D	D	D	D	D	D	D	D
337212	Custom architectural woodwork and millwork manufacturing	—	'28	12	'734	'27 613	'501	'1 033	'15 487	'62 513	'26 217	'89 118	D
337215	Showcase, partition, shelving, and locker manufacturing	5	27	9	598	21 472	428	803	13 926	46 697	43 192	92 927	3 188
3379	Other furniture related product manufacturing	1	13	5	339	10 433	270	522	6 887	41 439	30 042	71 909	D
33791	Mattress manufacturing	—	10	3	e	D	D	D	D	D	D	D	D
337910	Mattress manufacturing	—	10	3	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	2	503	'94	'7 245	'267 497	'4 493	'8 511	'121 841	'648 950	'397 442	'1 043 932	'25 141
3391	Medical equipment and supplies manufacturing	2	225	39	2 776	116 715	1 674	3 153	50 800	301 211	117 342	417 643	14 198
33911	Medical equipment and supplies manufacturing	2	225	39	2 776	116 715	1 674	3 153	50 800	301 211	117 342	417 643	14 198
339112	Surgical and medical instrument manufacturing ..	—	22	9	719	40 597	247	461	8 174	143 349	52 825	196 340	6 131
339113	Surgical appliance and supplies manufacturing	4	22	9	414	19 882	260	497	7 894	43 624	21 199	64 151	4 842
339116	Dental laboratories	4	155	13	1 070	33 660	798	1 521	24 316	59 972	12 944	72 727	1 593
3399	Other miscellaneous manufacturing	2	278	'55	'4 469	'150 782	'2 819	'5 358	'71 041	'347 739	'280 100	'626 289	'10 943
33992	Sporting and athletic goods manufacturing	2	48	12	1 584	54 597	986	1 999	23 961	154 536	164 893	317 329	4 449
339920	Sporting and athletic goods manufacturing	2	48	12	1 584	54 597	986	1 999	23 961	154 536	164 893	317 329	4 449
33995	Sign manufacturing	2	88	12	856	31 310	532	943	14 164	64 241	35 841	99 917	2 101
339950	Sign manufacturing	2	88	12	856	31 310	532	943	14 164	64 241	35 841	99 917	2 101
33999	All other miscellaneous manufacturing	1	91	'22	'1 516	'49 385	'925	'1 779	'24 231	'96 925	'54 685	'152 572	'3 473
339999	All other miscellaneous manufacturing	1	64	'17	'1 116	'36 587	'632	'1 217	'16 361	'69 795	'41 788	'112 996	'2 879
Seattle-Bellevue-Everett, WA Metropolitan Division													
31-33	Manufacturing	—	3 421	939	147 355	6 769 259	80 280	163 629	3 235 362	22 733 685	23 489 724	47 675 972	719 146
311	Food manufacturing	3	330	119	14 313	443 268	10 390	19 457	278 124	1 700 127	1 551 696	3 175 087	117 128
3113	Sugar and confectionery product manufacturing	6	18	6	e	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	—	16	5	f	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing	—	8	4	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing	—	7	3	e	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing	6	13	9	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing	5	9	6	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing	7	7	5	385	17 551	176	378	7 759	173 334	112 952	216 342	3 416
31152	Ice cream and frozen dessert manufacturing	7	4	3	e	D	D	D	D	D	D	D	D
311520	Ice cream and frozen dessert manufacturing	7	4	3	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing	1	28	11	1 463	42 016	1 280	2 660	31 196	203 971	215 473	407 673	12 550
31161	Animal slaughtering and processing	1	28	11	1 463	42 016	1 280	2 660	31 196	203 971	215 473	407 673	12 550
311612	Meat processed from carcasses	2	19	8	g	D	D	D	D	D	D	D	D
3117	Seafood product preparation and packaging	2	52	32	4 930	132 450	4 284	7 497	103 536	466 974	552 566	1 019 462	66 520
31171	Seafood product preparation and packaging	2	52	32	4 930	132 450	4 284	7 497	103 536	466 974	552 566	1 019 462	66 520
311711	Seafood canning	3	18	7	640	18 496	494	981	10 201	63 357	124 488	187 764	D
311712	Fresh and frozen seafood processing	2	34	25	4 290	113 954	3 790	6 516	93 335	403 617	428 078	831 698	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.												
	Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area—Con.												
	Seattle-Bellevue-Everett, WA Metropolitan Division—Con.												
311	Food manufacturing—Con.												
3118	Bakeries and tortilla manufacturing	2	126	32	4 152	130 323	2 136	3 923	58 862	475 435	280 826	759 285	12 225
31181	Bread and bakery product manufacturing	2	111	25	3 445	109 018	1 609	2 846	45 026	356 389	143 041	499 730	9 402
311811	Retail bakeries	3	68	8	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries	2	40	15	2 664	95 378	1 158	2 211	37 443	325 553	120 452	446 246	D
31182	Cookie, cracker, and pasta manufacturing	—	13	6	f	D	D	D	D	D	D	D	D
311822	Flour mixes and dough manufacturing from purchased flour	—	4	4	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing	5	67	20	1 820	65 088	1 320	2 680	40 935	228 249	193 168	421 036	12 132
31192	Coffee and tea manufacturing	9	13	3	e	D	D	D	D	D	D	D	D
311920	Coffee and tea manufacturing	9	13	3	e	D	D	D	D	D	D	D	D
31199	All other food manufacturing	2	42	11	961	30 034	753	1 560	20 002	83 351	71 369	153 543	3 453
311991	Perishable prepared food manufacturing	—	23	8	f	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing	—	33	11	g	D	D	D	D	D	D	D	D
3121	Beverage manufacturing	—	33	11	g	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing	1	8	6	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing	1	6	6	604	25 662	259	493	9 171	65 580	232 062	295 093	D
31213	Wineries	—	17	3	f	D	D	D	D	D	D	D	D
312130	Wineries	—	17	3	f	D	D	D	D	D	D	D	D
314	Textile product mills	1	70	17	g	D	D	D	D	D	D	D	2 078
3149	Other textile product mills	1	59	13	g	D	D	D	D	D	D	D	D
31491	Textile bag and canvas mills	—	24	6	f	D	D	D	D	D	D	D	1 236
314912	Canvas and related product mills	—	17	4	f	D	D	D	D	D	D	D	D
31499	All other textile product mills	2	35	7	e	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills	2	33	7	e	D	D	D	D	D	D	D	D
315	Apparel manufacturing	2	81	17	g	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing	2	61	13	f	D	D	D	D	D	D	D	D
31521	Cut and sew apparel contractors	4	37	5	e	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors	3	29	3	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing	1	124	43	3 397	121 929	2 719	5 648	89 343	264 955	434 433	699 208	36 287
3211	Sawmills and wood preservation	—	26	14	1 324	56 412	1 164	2 529	47 755	112 919	240 886	353 165	28 439
32111	Sawmills and wood preservation	—	26	14	1 324	56 412	1 164	2 529	47 755	112 919	240 886	353 165	28 439
321113	Sawmills	—	23	12	1 250	53 856	1 106	2 392	46 048	110 441	232 419	342 240	D
3212	Veneer, plywood, and engineered wood product manufacturing	—	12	5	414	13 437	336	719	9 104	24 088	31 039	55 315	811
32121	Veneer, plywood, and engineered wood product manufacturing	—	12	5	414	13 437	336	719	9 104	24 088	31 039	55 315	811
3219	Other wood product manufacturing	2	86	24	1 659	52 080	1 219	2 400	32 484	127 948	162 508	290 728	7 037
32191	Millwork	3	46	16	1 037	32 497	782	1 616	21 247	73 000	90 511	163 922	4 266
321911	Wood window and door manufacturing	1	22	8	554	17 793	394	830	10 657	37 684	40 122	77 995	1 480
321918	Other millwork (including flooring)	—	16	5	268	8 168	194	366	5 065	13 607	16 845	30 544	227
32199	All other wood product manufacturing	1	31	5	396	12 473	279	503	7 135	38 940	40 438	78 949	2 376

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	Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area—Con.												
	Seattle-Bellevue-Everett, WA Metropolitan Division—Con.												
322	Paper manufacturing	—	39	24	3 170	140 240	2 414	4 796	100 416	453 199	563 432	1 027 129	D
3221	Pulp, paper, and paperboard mills	—	2	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	—	2	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	2	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	1	37	23	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing	—	17	14	g	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing	1	11	10	g	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing	—	13	6	f	D	D	D	D	D	D	D	D
322232	Envelope manufacturing	—	4	3	483	17 357	401	831	12 453	27 923	31 432	58 632	D
323	Printing and related support activities	1	405	68	5 996	221 923	4 193	7 524	129 359	458 804	230 391	691 298	27 093
3231	Printing and related support activities	1	405	68	5 996	221 923	4 193	7 524	129 359	458 804	230 391	691 298	27 093
32311	Printing	1	368	62	5 474	197 514	3 796	6 761	112 732	415 364	224 073	641 694	26 371
323110	Commercial lithographic printing	2	164	43	3 408	126 180	2 411	4 230	72 390	254 921	159 356	416 180	21 287
323113	Commercial screen printing ..	1	40	7	457	14 024	365	682	9 456	26 384	12 394	38 796	1 214
323114	Quick printing	4	94	5	509	14 022	324	561	8 404	34 780	11 370	46 161	853
323116	Manifold business forms printing	—	8	3	e	D	D	D	D	D	D	D	D
32312	Support activities for printing...	—	37	6	522	24 409	397	763	16 627	43 440	6 318	49 604	722
323122	Prepress services	—	18	2	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing	2	100	24	g	D	D	D	D	D	D	D	19 035
3254	Pharmaceutical and medicine manufacturing	1	17	3	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing	1	17	3	f	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance manufacturing	—	7	2	e	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) manufacturing ..	—	2	1	e	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing	1	21	5	e	D	D	D	D	D	D	D	D
32551	Paint and coating manufacturing	1	16	5	e	D	D	D	D	D	D	D	D
325510	Paint and coating manufacturing	1	16	5	e	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	3	26	4	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	2	94	42	4 315	146 375	3 402	6 736	99 088	400 144	361 664	763 224	26 843
3261	Plastics product manufacturing ..	2	84	38	h	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing	1	8	5	f	D	D	D	D	D	D	D	D
326111	Plastics bag manufacturing ..	3	4	3	e	D	D	D	D	D	D	D	2 252
326113	Unlaminated plastics film and sheet (except packaging) manufacturing	—	4	2	e	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing	—	7	3	749	28 985	626	1 417	20 427	73 429	45 859	120 287	D
326121	Unlaminated plastics profile shape manufacturing	—	6	3	f	D	D	D	D	D	D	D	D
32615	Urethane and other foam product (except polystyrene) manufacturing	—	7	4	e	D	D	D	D	D	D	D	D
326150	Urethane and other foam product (except polystyrene) manufacturing	—	7	4	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	4	56	24	2 317	71 310	1 767	3 444	45 354	228 499	196 116	423 490	11 064
326199	All other plastics product manufacturing	4	52	22	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.												
	Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area—Con.												
	Seattle-Bellevue-Everett, WA Metropolitan Division—Con.												
327	Nonmetallic mineral product manufacturing	1	128	37	3 457	137 981	2 598	5 185	94 117	411 058	317 975	724 313	22 329
3272	Glass and glass product manufacturing	2	46	8	1 374	50 071	1 134	2 303	38 562	171 772	105 419	274 855	8 723
32721	Glass and glass product manufacturing	2	46	8	1 374	50 071	1 134	2 303	38 562	171 772	105 419	274 855	8 723
327213	Glass container manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	5	29	6	f	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing	1	44	20	1 551	68 802	1 056	2 166	42 979	169 783	164 005	331 095	D
32732	Ready-mix concrete manufacturing	2	16	9	693	30 351	526	1 114	21 738	70 082	72 400	143 045	D
327320	Ready-mix concrete manufacturing	2	16	9	693	30 351	526	1 114	21 738	70 082	72 400	143 045	D
32739	Other concrete product manufacturing	—	14	5	e	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing	—	14	5	e	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing	4	20	5	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing	—	37	16	g	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing	—	5	3	f	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing	—	5	3	f	D	D	D	D	D	D	D	D
331111	Iron and steel mills	—	5	3	f	D	D	D	D	D	D	D	D
3315	Foundries	1	24	10	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	—	11	6	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	2	608	133	10 218	374 784	7 328	14 200	232 318	809 866	570 564	1 383 930	36 936
3323	Architectural and structural metals manufacturing	3	154	41	2 745	99 661	1 938	3 893	59 073	196 169	186 977	383 453	7 027
33231	Plate work and fabricated structural product manufacturing	4	50	11	741	30 398	526	1 055	17 614	65 294	57 614	125 103	1 927
332312	Fabricated structural metal manufacturing	5	41	9	f	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing	2	104	30	2 004	69 263	1 412	2 838	41 459	130 875	129 363	258 350	5 100
332321	Metal window and door manufacturing	4	14	4	e	D	D	D	D	D	D	D	D
332322	Sheet metal work manufacturing	1	58	25	1 404	48 780	986	1 991	28 895	94 499	98 970	190 341	3 888
332323	Ornamental and architectural metal work manufacturing ..	6	32	1	e	D	D	D	D	D	D	D	D
3324	Boiler, tank, and shipping container manufacturing	1	12	7	535	24 414	403	864	16 092	83 532	94 935	181 184	D
33243	Metal can, box, and other metal container (light gauge) manufacturing	—	7	4	e	D	D	D	D	D	D	D	2 092
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2	272	41	3 670	130 269	2 660	5 325	87 651	274 512	124 442	406 579	15 966
33271	Machine shops	2	233	32	2 938	100 250	2 146	4 422	67 701	217 007	94 438	317 327	12 851
332710	Machine shops	2	233	32	2 938	100 250	2 146	4 422	67 701	217 007	94 438	317 327	12 851
33272	Turned product and screw, nut, and bolt manufacturing	—	39	9	732	30 019	514	903	19 950	57 505	30 004	89 252	3 115
332721	Precision turned product manufacturing	—	35	9	f	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities	—	62	20	g	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, and allied activities ..	—	62	20	g	D	D	D	D	D	D	D	D
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	—	32	10	f	D	D	D	D	D	D	D	D
332813	Electroplating, plating, polishing, anodizing, and coloring	1	23	7	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.												
	Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area—Con.												
	Seattle-Bellevue-Everett, WA Metropolitan Division—Con.												
332	Fabricated metal product manufacturing—Con.												
3329	Other fabricated metal product manufacturing	1	59	15	1 185	46 728	830	1 445	25 735	111 128	89 457	196 254	3 157
33291	Metal valve manufacturing	1	12	6	f	D	D	D	D	D	D	D	D
332919	Other metal valve and pipe fitting manufacturing	—	3	2	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	1	47	9	f	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product manufacturing	2	32	5	327	14 474	235	503	9 065	27 251	17 732	47 036	433
333	Machinery manufacturing	1	184	54	5 862	260 903	3 958	7 783	154 255	636 973	563 270	1 181 421	18 473
3332	Industrial machinery manufacturing	4	35	6	488	21 941	279	561	10 054	42 068	36 201	77 473	1 013
33329	Other industrial machinery manufacturing	4	28	6	e	D	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing	4	19	7	579	27 159	339	675	13 573	69 602	33 518	102 898	1 754
33331	Commercial and service industry machinery manufacturing	4	19	7	579	27 159	339	675	13 573	69 602	33 518	102 898	1 754
333319	Other commercial and service industry machinery manufacturing	4	11	6	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2	13	4	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2	13	4	f	D	D	D	D	D	D	D	D
333414	Heating equipment (except warm air furnaces) manufacturing	1	6	2	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing	1	40	10	1 070	54 976	563	1 046	21 351	158 075	65 854	190 859	D
33351	Metalworking machinery manufacturing	1	40	10	1 070	54 976	563	1 046	21 351	158 075	65 854	190 859	D
333512	Machine tool (metal cutting types) manufacturing	—	4	3	e	D	D	D	D	D	D	D	D
333515	Cutting tool and machine tool accessory manufacturing	2	6	2	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing	—	57	21	2 685	116 658	2 033	4 045	85 686	261 954	354 394	635 367	4 301
33392	Material handling equipment manufacturing	—	26	9	g	D	D	D	D	D	D	D	3 193
333923	Overhead traveling crane, hoist, and monorail system manufacturing	—	9	5	g	D	D	D	D	D	D	D	2 914
33399	All other general purpose machinery manufacturing	1	28	12	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	1	'238	'97	'19 018	'1 266 058	'6 763	'13 318	'237 158	'2 389 243	'2 164 025	'4 941 771	'98 029
3341	Computer and peripheral equipment manufacturing	1	'29	11	g	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing	1	'29	11	g	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing	—	'6	2	f	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing	9	3	2	e	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	1	20	7	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.												
	Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area—Con.												
	Seattle-Bellevue-Everett, WA Metropolitan Division—Con.												
334	Computer and electronic product manufacturing—Con.												
3342	Communications equipment manufacturing	1	37	20	g	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing	—	14	9	f	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing	—	14	9	f	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing	2	13	9	554	29 618	237	467	8 544	54 545	34 756	90 333	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing	2	13	9	554	29 618	237	467	8 544	54 545	34 756	90 333	D
3343	Audio and video equipment manufacturing	9	10	1	f	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing	9	10	1	f	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing	9	10	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing	—	'60	'27	h	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing	—	'60	'27	h	D	D	D	D	D	D	D	D
334412	Bare printed circuit board manufacturing	1	'17	'9	f	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing	—	7	2	e	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing	—	8	6	e	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing	—	21	7	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	—	86	34	11 112	917 794	2 985	6 256	119 325	1 403 677	1 381 735	3 161 749	63 728
33451	Navigational, measuring, electromedical, and control instruments manufacturing	—	86	34	11 112	917 794	2 985	6 256	119 325	1 403 677	1 381 735	3 161 749	63 728
334510	Electromedical and electrotherapeutic apparatus manufacturing	1	14	10	3 962	283 324	765	1 651	32 005	646 756	863 588	1 483 028	33 628
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	—	12	9	4 571	496 865	1 112	2 295	48 722	384 615	328 161	1 113 259	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	1	11	7	g	D	D	D	D	D	D	D	D
334519	Other measuring and controlling device manufacturing	—	23	2	e	D	D	D	D	D	D	D	D
3346	Manufacturing and reproducing magnetic and optical media	3	16	4	e	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media	3	16	4	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	2	62	19	g	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
335211	Electric housewares and household fan manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing	2	28	8	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing	2	28	8	f	D	D	D	D	D	D	D	D
335314	Relay and industrial control manufacturing	1	17	5	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
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	SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.												
	Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area—Con.												
	Seattle-Bellevue-Everett, WA Metropolitan Division—Con.												
335	Electrical equipment, appliance, and component manufacturing—Con.												
3359	Other electrical equipment and component manufacturing	4	18	7	g	D	D	D	D	D	D	D	
33599	All other electrical equipment and component manufacturing	2	13	5	f	D	D	D	D	D	D	D	
335999	All other miscellaneous electrical equipment and component manufacturing ..	2	13	5	f	D	D	D	D	D	D	D	
336	Transportation equipment manufacturing	—	188	74	l	D	D	D	D	D	D	125 909	
3361	Motor vehicle manufacturing	—	4	1	f	D	D	D	D	D	D	D	
33612	Heavy duty truck manufacturing	—	1	1	f	D	D	D	D	D	D	D	
336120	Heavy duty truck manufacturing	—	1	1	f	D	D	D	D	D	D	D	
3363	Motor vehicle parts manufacturing	2	37	9	f	D	D	D	D	D	D	D	
33639	Other motor vehicle parts manufacturing	—	11	3	e	D	D	D	D	D	D	D	
3364	Aerospace product and parts manufacturing	—	78	38	l	D	D	D	D	D	D	D	
33641	Aerospace product and parts manufacturing	—	78	38	l	D	D	D	D	D	D	D	
336411	Aircraft manufacturing	—	10	4	k	D	D	D	D	D	D	D	
336413	Other aircraft parts and auxiliary equipment manufacturing	—	57	29	j	D	D	D	D	D	D	D	
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing	8	2	2	e	D	D	D	D	D	D	D	
3366	Ship and boat building	2	50	19	h	D	D	D	D	D	D	D	
33661	Ship and boat building	2	50	19	h	D	D	D	D	D	D	D	
336611	Ship building and repairing ..	2	28	11	g	D	D	D	D	D	D	5 662	
336612	Boat building	1	22	8	g	D	D	D	D	D	D	D	
337	Furniture and related product manufacturing	2	'230	52	'3 910	'125 771	'2 906	'5 778	'80 574	'291 216	'185 990	'477 576	'7 428
3371	Household and institutional furniture and kitchen cabinet manufacturing	2	159	26	g	D	D	D	D	D	D	D	
33711	Wood kitchen cabinet and countertop manufacturing	1	88	15	1 414	43 806	1 034	2 199	28 672	89 967	50 957	140 085	2 474
337110	Wood kitchen cabinet and countertop manufacturing ..	1	88	15	1 414	43 806	1 034	2 199	28 672	89 967	50 957	140 085	2 474
33712	Household and institutional furniture manufacturing	3	71	11	f	D	D	D	D	D	D	D	
337122	Nonupholstered wood household furniture manufacturing	1	42	6	354	8 569	308	592	6 804	22 959	17 224	40 422	630
3372	Office furniture (including fixtures) manufacturing	3	'60	22	'1 480	'53 772	'1 040	'2 032	'32 122	'121 716	'75 390	'197 521	'3 430
33721	Office furniture (including fixtures) manufacturing	3	'60	22	'1 480	'53 772	'1 040	'2 032	'32 122	'121 716	'75 390	'197 521	'3 430
337211	Wood office furniture manufacturing	1	14	7	e	D	D	D	D	D	D	D	
337212	Custom architectural woodwork and millwork manufacturing	—	'21	7	e	D	D	D	D	D	D	D	
337215	Showcase, partition, shelving, and locker manufacturing	7	21	7	443	16 077	329	592	10 889	35 986	33 279	69 401	D
3379	Other furniture related product manufacturing	1	11	4	e	D	D	D	D	D	D	D	

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Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.													
Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area—Con.													
Seattle-Bellevue-Everett, WA Metropolitan Division—Con.													
339	Miscellaneous manufacturing	2	421	'86	'6 502	'243 672	'3 953	'7 526	'107 653	'598 849	'368 999	'966 067	'24 116
3391	Medical equipment and supplies manufacturing	2	188	36	2 482	106 834	1 460	2 741	44 621	281 755	109 232	390 144	13 812
33911	Medical equipment and supplies manufacturing	2	188	36	2 482	106 834	1 460	2 741	44 621	281 755	109 232	390 144	13 812
339112	Surgical and medical instrument manufacturing ..	—	21	9	f	D	D	D	D	D	D	D	D
339113	Surgical appliance and supplies manufacturing	4	21	9	e	D	D	D	D	D	D	D	D
339116	Dental laboratories	4	123	12	933	29 280	701	1 341	21 274	51 326	11 710	62 874	1 465
3399	Other miscellaneous manufacturing	2	233	'50	'4 020	'136 838	'2 493	'4 785	'63 032	'317 094	'259 767	'575 923	'10 304
33992	Sporting and athletic goods manufacturing	2	41	12	1 565	53 988	971	1 971	23 669	152 877	163 594	314 371	4 402
339920	Sporting and athletic goods manufacturing	2	41	12	1 565	53 988	971	1 971	23 669	152 877	163 594	314 371	4 402
33995	Sign manufacturing	2	77	11	754	27 313	475	866	12 620	52 656	28 377	80 860	1 904
339950	Sign manufacturing	2	77	11	754	27 313	475	866	12 620	52 656	28 377	80 860	1 904
33999	All other miscellaneous manufacturing	1	71	'19	'1 250	'42 257	'716	'1 394	'19 530	'81 707	'45 901	'129 199	'3 156
339999	All other miscellaneous manufacturing	1	52	'16	'1 010	'34 071	'553	'1 102	'15 008	'65 776	'38 580	'105 865	'2 786
Tacoma, WA Metropolitan Division													
31-33	Manufacturing	1	664	199	19 462	711 315	14 598	27 712	453 764	1 777 490	2 119 810	3 894 596	108 461
311	Food manufacturing	4	59	17	2 388	71 126	1 889	3 342	49 385	230 200	258 001	488 065	15 853
3113	Sugar and confectionery product manufacturing	—	3	1	e	D	D	D	D	D	D	D	D
31133	Confectionery manufacturing from purchased chocolate	—	3	1	e	D	D	D	D	D	D	D	D
311330	Confectionery manufacturing from purchased chocolate ..	—	3	1	e	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying	—	1	1	e	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning ..	—	1	1	e	D	D	D	D	D	D	D	D
3117	Seafood product preparation and packaging	7	8	4	542	13 404	463	771	10 373	32 002	53 279	85 281	8 517
31171	Seafood product preparation and packaging	7	8	4	542	13 404	463	771	10 373	32 002	53 279	85 281	8 517
311712	Fresh and frozen seafood processing	7	4	3	450	11 179	374	622	8 281	27 004	40 804	67 808	D
3118	Bakeries and tortilla manufacturing	2	22	5	921	31 371	738	1 261	24 759	80 373	68 370	148 400	2 614
31181	Bread and bakery product manufacturing	—	18	2	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries	—	4	2	426	17 150	334	687	13 503	14 974	38 902	53 993	D
31183	Tortilla manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
311830	Tortilla manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
314	Textile product mills	—	14	3	e	D	D	D	D	D	D	D	D
3149	Other textile product mills	—	11	3	e	D	D	D	D	D	D	D	D
31499	All other textile product mills ...	—	5	2	e	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills	—	5	2	e	D	D	D	D	D	D	D	D
315	Apparel manufacturing	—	13	8	e	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing	—	12	7	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.												
	Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area—Con.												
	Tacoma, WA Metropolitan Division—Con.												
321	Wood product manufacturing	—	63	32	2 672	93 555	2 152	4 168	64 745	194 867	344 768	543 204	15 465
3211	Sawmills and wood preservation	—	15	12	1 314	50 941	1 055	2 066	34 824	108 859	238 159	349 156	11 130
32111	Sawmills and wood preservation	—	15	12	1 314	50 941	1 055	2 066	34 824	108 859	238 159	349 156	11 130
321113	Sawmills	—	12	9	989	38 201	803	1 461	27 089	74 575	162 481	228 225	D
321114	Wood preservation	—	3	3	325	12 740	252	605	7 735	34 284	75 678	120 931	D
3212	Veneer, plywood, and engineered wood product manufacturing	1	10	6	400	14 409	308	662	9 776	27 824	41 319	71 040	1 143
32121	Veneer, plywood, and engineered wood product manufacturing	1	10	6	400	14 409	308	662	9 776	27 824	41 319	71 040	1 143
3219	Other wood product manufacturing	1	38	14	958	28 205	789	1 440	20 145	58 184	65 290	123 008	3 192
32191	Millwork	1	21	8	640	17 014	548	1 006	12 613	36 910	41 295	77 425	2 311
321911	Wood window and door manufacturing	1	11	5	486	12 893	419	774	9 558	27 241	28 417	55 381	1 863
322	Paper manufacturing	—	12	10	1 124	53 424	850	1 589	36 511	162 017	221 649	377 472	D
3221	Pulp, paper, and paperboard mills	—	3	3	f	D	D	D	D	D	D	D	D
32213	Paperboard mills	—	3	3	f	D	D	D	D	D	D	D	D
322130	Paperboard mills	—	3	3	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	—	9	7	f	D	D	D	D	D	D	D	D
323	Printing and related support activities	—	53	7	617	19 572	436	711	11 645	49 336	33 638	84 038	2 200
3231	Printing and related support activities	—	53	7	617	19 572	436	711	11 645	49 336	33 638	84 038	2 200
32311	Printing	—	49	7	585	18 415	414	668	10 950	46 996	32 470	80 545	2 126
323110	Commercial lithographic printing	—	23	4	367	11 095	272	390	6 816	33 233	20 674	53 761	1 176
324	Petroleum and coal products manufacturing	—	5	4	e	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing	—	5	4	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing	1	15	4	e	D	D	D	D	D	D	D	1 495
326	Plastics and rubber products manufacturing	2	34	22	2 381	77 547	1 849	3 700	51 073	234 423	201 510	433 592	14 134
3261	Plastics product manufacturing	2	31	22	g	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing	2	6	5	450	13 512	351	666	7 693	34 213	47 958	81 202	D
326121	Unlaminated plastics profile shape manufacturing	—	3	3	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	1	17	10	1 652	54 102	1 265	2 564	35 885	167 446	124 362	290 927	6 465
326199	All other plastics product manufacturing	1	15	10	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	—	42	20	1 615	63 366	1 274	2 686	44 639	205 595	148 616	353 413	11 133
3272	Glass and glass product manufacturing	2	6	3	484	15 810	392	846	10 599	31 202	38 912	69 217	698
32721	Glass and glass product manufacturing	2	6	3	484	15 810	392	846	10 599	31 202	38 912	69 217	698
327215	Glass product manufacturing made of purchased glass	2	5	3	e	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing	—	20	13	856	35 638	675	1 427	25 319	131 744	71 195	203 197	D
32732	Ready-mix concrete manufacturing	—	6	5	323	16 085	262	601	12 191	31 515	27 261	58 708	D
327320	Ready-mix concrete manufacturing	—	6	5	323	16 085	262	601	12 191	31 515	27 261	58 708	D
32739	Other concrete product manufacturing	—	12	6	e	D	D	D	D	D	D	D	2 275
327390	Other concrete product manufacturing	—	12	6	e	D	D	D	D	D	D	D	2 275

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.													
Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area—Con.													
Tacoma, WA Metropolitan Division—Con.													
331	Primary metal manufacturing	1	5	4	f	D	D	D	D	D	D	D	D
3315	Foundries	1	4	3	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	1	3	3	f	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	1	3	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	3	116	19	1 614	62 536	1 201	2 388	40 216	142 352	101 439	247 006	4 430
3323	Architectural and structural metals manufacturing	3	36	9	677	25 290	498	947	15 393	64 268	61 344	128 185	2 148
33232	Ornamental and architectural metal products manufacturing	2	19	6	501	18 545	370	709	11 083	47 084	41 969	91 543	1 077
332322	Sheet metal work manufacturing	3	8	3	263	10 158	198	383	6 153	33 641	23 163	59 299	736
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2	49	4	309	12 318	233	461	8 977	22 692	9 185	31 799	995
3329	Other fabricated metal product manufacturing	2	15	2	e	D	D	D	D	D	D	D	873
33299	All other fabricated metal product manufacturing	2	14	2	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing	1	31	10	713	27 633	503	942	16 790	61 588	51 286	112 870	1 360
3332	Industrial machinery manufacturing	—	6	3	361	14 249	260	517	9 235	39 956	27 125	67 102	D
334	Computer and electronic product manufacturing	3	20	3	265	13 429	133	288	7 732	11 156	11 326	25 827	3 054
336	Transportation equipment manufacturing	—	30	9	g	D	D	D	D	D	D	D	5 051
3364	Aerospace product and parts manufacturing	—	7	3	g	D	D	D	D	D	D	D	3 621
33641	Aerospace product and parts manufacturing	—	7	3	g	D	D	D	D	D	D	D	3 621
336413	Other aircraft parts and auxiliary equipment manufacturing	—	4	2	g	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	1	57	17	1 349	42 714	1 032	2 112	27 124	85 167	57 754	145 299	3 385
3371	Household and institutional furniture and kitchen cabinet manufacturing	2	40	9	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing	2	23	5	518	13 214	428	845	9 408	21 508	12 690	34 069	346
337110	Wood kitchen cabinet and countertop manufacturing ..	2	23	5	518	13 214	428	845	9 408	21 508	12 690	34 069	346
33712	Household and institutional furniture manufacturing	2	17	4	e	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing	—	15	7	408	15 684	277	608	8 899	29 847	19 474	52 290	2 273
33721	Office furniture (including fixtures) manufacturing	—	15	7	408	15 684	277	608	8 899	29 847	19 474	52 290	2 273
339	Miscellaneous manufacturing	1	82	8	743	23 825	540	985	14 188	50 101	28 443	77 865	1 025
3391	Medical equipment and supplies manufacturing	—	37	3	294	9 881	214	412	6 179	19 456	8 110	27 499	386
33911	Medical equipment and supplies manufacturing	—	37	3	294	9 881	214	412	6 179	19 456	8 110	27 499	386
3399	Other miscellaneous manufacturing	2	45	5	449	13 944	326	573	8 009	30 645	20 333	50 366	639
33999	All other miscellaneous manufacturing	2	20	3	266	7 128	209	385	4 701	15 218	8 784	23 373	317

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA—Con.													
Shelton, WA Micropolitan Statistical Area													
31-33	Manufacturing	—	50	13	1 466	53 362	1 196	2 393	38 876	118 047	204 700	326 688	33 649
321	Wood product manufacturing	—	15	7	948	37 299	823	1 738	29 923	81 040	180 182	262 962	D
3211	Sawmills and wood preservation	—	6	3	537	23 927	457	987	19 208	52 940	142 093	196 848	D
32111	Sawmills and wood preservation	—	6	3	537	23 927	457	987	19 208	52 940	142 093	196 848	D
321113	Sawmills	—	6	3	537	23 927	457	987	19 208	52 940	142 093	196 848	D
3212	Veneer, plywood, and engineered wood product manufacturing	—	3	1	e	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing	—	3	1	e	D	D	D	D	D	D	D	D
321212	Softwood veneer and plywood manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
ABERDEEN, WA MICROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	—	94	24	3 078	124 958	2 586	5 053	94 201	326 410	458 292	781 846	15 706
321	Wood product manufacturing	1	37	12	1 417	52 843	1 270	2 559	43 814	116 284	237 148	350 885	5 437
3211	Sawmills and wood preservation	1	24	6	612	22 656	543	1 119	18 443	55 110	136 332	188 946	4 065
32111	Sawmills and wood preservation	1	24	6	612	22 656	543	1 119	18 443	55 110	136 332	188 946	4 065
321113	Sawmills	1	24	6	612	22 656	543	1 119	18 443	55 110	136 332	188 946	4 065
3212	Veneer, plywood, and engineered wood product manufacturing	—	3	3	e	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing	—	3	3	e	D	D	D	D	D	D	D	D
321212	Softwood veneer and plywood manufacturing	—	3	3	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing	—	10	3	f	D	D	D	D	D	D	D	D
32191	Millwork	—	6	2	e	D	D	D	D	D	D	D	378
321911	Wood window and door manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
322	Paper manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills	—	2	2	f	D	D	D	D	D	D	D	D
32211	Pulp mills	—	1	1	e	D	D	D	D	D	D	D	D
322110	Pulp mills	—	1	1	e	D	D	D	D	D	D	D	D
32212	Paper mills	—	1	1	e	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	—	4	2	e	D	D	D	D	D	D	D	1 145
3366	Ship and boat building	—	4	2	e	D	D	D	D	D	D	D	1 145
33661	Ship and boat building	—	4	2	e	D	D	D	D	D	D	D	1 145
336611	Ship building and repairing	—	2	1	e	D	D	D	D	D	D	D	D
BELLINGHAM, WA METROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	—	314	90	8 365	322 761	5 957	11 413	190 947	1 751 804	3 476 669	5 211 960	164 696
311	Food manufacturing	4	45	24	1 658	46 084	1 277	2 263	28 716	135 313	336 729	471 609	7 238
3117	Seafood product preparation and packaging	4	15	11	895	19 372	794	1 356	14 815	46 773	71 705	118 544	1 587
31171	Seafood product preparation and packaging	4	15	11	895	19 372	794	1 356	14 815	46 773	71 705	118 544	1 587
311712	Fresh and frozen seafood processing	4	14	11	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing	—	28	13	1 127	34 151	962	1 785	24 859	77 443	226 186	301 512	3 466
3219	Other wood product manufacturing	1	18	8	732	19 505	655	1 269	15 474	41 493	157 169	197 466	1 799
32191	Millwork	1	11	6	650	17 669	586	1 164	14 079	36 924	155 978	191 734	1 653
321912	Cut stock, resawing lumber, and planing	—	7	3	e	D	D	D	D	D	D	D	1 068

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Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
BELLINGHAM, WA METROPOLITAN STATISTICAL AREA—Con.													
322	Paper manufacturing	-	3	2	e	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills	-	1	1	e	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	e	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	e	D	D	D	D	D	D	D	D
324	Petroleum and coal products manufacturing	-	5	3	f	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing	-	5	3	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries	-	2	2	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries	-	2	2	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	1	13	4	277	'9 854	'221	467	'6 764	25 009	25 566	50 615	2 374
3273	Cement and concrete product manufacturing	-	10	4	264	'9 408	'211	447	'6 435	24 034	24 935	49 009	2 336
331	Primary metal manufacturing	-	6	1	f	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing	-	2	1	f	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	-	2	1	f	D	D	D	D	D	D	D	D
331312	Primary aluminum production	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	3	42	3	308	10 926	230	465	7 280	24 549	14 131	37 694	792
333	Machinery manufacturing	1	22	7	442	17 034	258	497	9 279	51 696	46 519	97 676	1 272
336	Transportation equipment manufacturing	5	28	9	f	D	D	D	D	D	D	D	2 791
3366	Ship and boat building	4	17	7	e	D	D	D	D	D	D	D	D
33661	Ship and boat building	4	17	7	e	D	D	D	D	D	D	D	D
336612	Boat building	4	14	6	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	1	31	7	462	12 985	323	593	7 587	31 042	21 613	52 891	999
3391	Medical equipment and supplies manufacturing	1	17	4	270	8 299	184	374	4 910	21 697	9 588	31 539	872
33911	Medical equipment and supplies manufacturing	1	17	4	270	8 299	184	374	4 910	21 697	9 588	31 539	872
CENTRALIA, WA MICROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	1	119	29	2 810	105 469	2 314	4 920	82 010	288 770	423 059	706 647	33 321
311	Food manufacturing	-	10	4	449	14 598	388	794	11 777	60 533	125 689	189 244	16 180
3114	Fruit and vegetable preserving and specialty food manufacturing	-	2	2	e	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing	-	2	2	e	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	-	2	2	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing	-	22	11	1 349	58 830	1 188	2 705	50 515	140 258	204 313	337 625	10 005
3211	Sawmills and wood preservation .	-	10	5	830	38 911	734	1 690	32 953	99 466	147 448	242 652	8 570
32111	Sawmills and wood preservation	-	10	5	830	38 911	734	1 690	32 953	99 466	147 448	242 652	8 570
321113	Sawmills	-	9	5	f	D	D	D	D	D	D	D	D
3212	Veneer, plywood, and engineered wood product manufacturing	1	6	5	399	16 359	354	825	14 865	32 573	47 686	79 165	925
32121	Veneer, plywood, and engineered wood product manufacturing	1	6	5	399	16 359	354	825	14 865	32 573	47 686	79 165	925
321212	Softwood veneer and plywood manufacturing	1	2	2	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	-	6	3	e	D	D	D	D	D	D	D	486

See footnotes at end of table.

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
ELLENSBURG, WA MICROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	-	31	5	662	18 779	569	869	13 162	51 881	35 004	87 414	2 275
311	Food manufacturing	-	7	2	e	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	-	2	1	e	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing	-	1	1	e	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	-	1	1	e	D	D	D	D	D	D	D	D
KENNEWICK-RICHLAND-PASCO, WA METROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	4	167	37	7 319	256 750	5 667	11 995	162 001	700 302	1 445 041	2 167 264	41 184
311	Food manufacturing	5	32	13	4 672	125 273	4 113	8 740	102 205	378 162	1 103 895	1 521 269	24 925
3114	Fruit and vegetable preserving and specialty food manufacturing	1	8	7	h	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing	1	6	6	2 427	68 038	2 171	4 369	55 995	276 962	269 916	547 538	16 329
311411	Frozen fruit, juice, and vegetable manufacturing ...	1	6	6	2 427	68 038	2 171	4 369	55 995	276 962	269 916	547 538	16 329
3116	Animal slaughtering and processing	9	5	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	9	5	1	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	9	5	1	g	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing	-	17	3	541	21 475	283	568	10 213	149 074	111 729	239 325	5 806
3121	Beverage manufacturing	-	17	3	541	21 475	283	568	10 213	149 074	111 729	239 325	5 806
31213	Wineries	-	14	2	e	D	D	D	D	D	D	D	D
312130	Wineries	-	14	2	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing	-	7	4	908	63 004	445	1 174	22 831	70 116	141 023	213 574	D
3251	Basic chemical manufacturing ...	-	2	1	f	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
LEWISTON, ID-WA METROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	-	64	12	3 291	145 988	2 745	5 166	111 253	291 740	465 444	728 022	11 846
321	Wood product manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
3211	Sawmills and wood preservation .	-	2	2	f	D	D	D	D	D	D	D	D
32111	Sawmills and wood preservation	-	2	2	f	D	D	D	D	D	D	D	D
321113	Sawmills	-	2	2	f	D	D	D	D	D	D	D	D
322	Paper manufacturing	-	3	2	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills	-	2	2	g	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D
32213	Paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	-	13	4	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
332992	Small arms ammunition manufacturing	-	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
LONGVIEW-KELSO, WA METROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	-	132	42	6 547	324 356	4 880	9 970	227 254	721 675	1 382 386	2 092 148	103 885
321	Wood product manufacturing	-	19	8	1 222	48 124	1 094	2 247	39 870	94 343	190 443	285 727	D
3211	Sawmills and wood preservation	-	12	5	851	39 983	763	1 785	33 944	80 323	168 374	251 357	D
32111	Sawmills and wood preservation	-	12	5	851	39 983	763	1 785	33 944	80 323	168 374	251 357	D
321113	Sawmills	-	12	5	851	39 983	763	1 785	33 944	80 323	168 374	251 357	D
3219	Other wood product manufacturing	-	7	3	371	8 141	331	462	5 926	14 020	22 069	34 370	91
322	Paper manufacturing	-	11	10	h	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills	-	5	5	h	D	D	D	D	D	D	D	D
32212	Paper mills	-	3	3	f	D	D	D	D	D	D	D	D
322122	Newsprint mills	-	1	1	e	D	D	D	D	D	D	D	D
32213	Paperboard mills	-	2	2	g	D	D	D	D	D	D	D	D
322130	Paperboard mills	-	2	2	g	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	-	6	5	e	D	D	D	D	D	D	D	3 258
32221	Paperboard container manufacturing	-	4	3	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing	-	15	3	300	17 289	215	435	11 829	101 209	95 942	194 773	6 681
3251	Basic chemical manufacturing ...	-	10	3	e	D	D	D	D	D	D	D	6 627
332	Fabricated metal product manufacturing	1	22	5	727	32 957	369	900	15 043	92 460	70 568	152 149	5 522
3328	Coating, engraving, heat treating, and allied activities	-	2	1	e	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, and allied activities ..	-	2	1	e	D	D	D	D	D	D	D	D
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	-	2	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	-	14	2	269	7 952	173	331	4 473	18 652	7 712	26 766	315
MOSES LAKE, WA MICROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	2	64	23	3 541	112 577	2 982	5 768	82 086	330 155	352 081	701 641	32 329
311	Food manufacturing	3	25	13	2 296	63 779	1 993	3 834	48 429	221 003	212 648	443 294	17 885
3114	Fruit and vegetable preserving and specialty food manufacturing	3	10	9	2 044	55 111	1 827	3 543	43 815	191 841	177 979	378 947	15 121
31141	Frozen food manufacturing	3	7	7	1 823	47 399	1 647	3 201	38 774	175 760	147 931	324 256	12 747
311411	Frozen fruit, juice, and vegetable manufacturing ...	3	7	7	1 823	47 399	1 647	3 201	38 774	175 760	147 931	324 256	12 747
331	Primary metal manufacturing	2	2	2	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	-	2	1	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	-	1	1	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing	-	1	1	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing	-	1	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
MOUNT VERNON-ANACORTES, WA METROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	-	191	58	5 145	192 907	3 950	7 919	138 124	764 942	2 649 596	3 424 777	120 904
311	Food manufacturing	-	21	7	927	22 230	705	1 536	15 414	78 151	85 023	162 274	1 988
3116	Animal slaughtering and processing	-	2	1	e	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	-	2	1	e	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	e	D	D	D	D	D	D	D	D
3117	Seafood product preparation and packaging	1	6	4	385	9 195	280	532	4 831	32 442	18 955	51 505	927
31171	Seafood product preparation and packaging	1	6	4	385	9 195	280	532	4 831	32 442	18 955	51 505	927
321	Wood product manufacturing	3	18	12	795	28 123	656	1 292	21 941	61 208	59 719	123 134	5 312
3219	Other wood product manufacturing	4	8	7	479	15 675	398	787	12 043	32 980	35 292	69 743	2 491
32199	All other wood product manufacturing	4	5	5	397	13 097	331	657	10 254	28 854	27 986	57 308	2 402
321999	All other miscellaneous wood product manufacturing	4	4	4	e	D	D	D	D	D	D	D	D
324	Petroleum and coal products manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries	-	2	2	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	1	11	5	512	17 238	341	714	10 815	36 531	41 337	76 974	4 675
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	-	3	2	282	8 827	154	348	4 787	19 703	29 824	49 293	985
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	-	3	2	282	8 827	154	348	4 787	19 703	29 824	49 293	985
334	Computer and electronic product manufacturing	-	9	3	291	9 748	221	353	5 858	13 027	13 056	26 407	488
336	Transportation equipment manufacturing	1	24	12	f	D	D	D	D	D	D	D	D
3366	Ship and boat building	2	19	10	f	D	D	D	D	D	D	D	D
33661	Ship and boat building	2	19	10	f	D	D	D	D	D	D	D	D
336612	Boat building	-	15	9	f	D	D	D	D	D	D	D	D
PORT ANGELES, WA MICROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	2	76	13	1 159	44 395	918	1 809	31 836	126 291	141 769	268 054	11 848
321	Wood product manufacturing	3	22	4	500	14 838	439	888	12 481	39 792	66 854	105 913	4 077
3211	Sawmills and wood preservation	4	15	3	316	9 718	274	594	8 362	31 818	58 118	88 593	3 887
32111	Sawmills and wood preservation	4	15	3	316	9 718	274	594	8 362	31 818	58 118	88 593	3 887
321113	Sawmills	4	15	3	316	9 718	274	594	8 362	31 818	58 118	88 593	3 887
322	Paper manufacturing	-	1	1	e	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills	-	1	1	e	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	e	D	D	D	D	D	D	D	D
322122	Newsprint mills	-	1	1	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
PORTLAND-VANCOUVER-BEAVERTON, OR-WA METROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	-	'3 256	919	'110 748	'4 643 324	'73 675	'143 139	'2 534 413	'19 267 535	'11 357 506	'30 517 533	'855 023
311	Food manufacturing	1	206	75	8 471	274 633	5 381	10 604	156 246	1 582 186	1 165 520	2 741 950	84 680
3114	Fruit and vegetable preserving and specialty food manufacturing	-	26	14	1 399	40 190	1 104	2 162	24 724	220 437	199 619	415 437	23 815
31141	Frozen food manufacturing	-	9	5	e	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing	-	5	3	e	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying	-	17	9	f	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning ..	-	14	8	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing	1	15	13	1 015	39 315	714	1 608	25 037	175 170	361 476	537 388	15 016
31151	Dairy product (except frozen) manufacturing	1	13	11	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing	1	8	8	708	26 655	477	1 070	16 361	122 797	296 996	420 248	D
3116	Animal slaughtering and processing	1	22	6	441	13 878	377	849	9 846	57 868	40 822	98 886	1 427
31161	Animal slaughtering and processing	1	22	6	441	13 878	377	849	9 846	57 868	40 822	98 886	1 427
311612	Meat processed from carcasses	1	12	4	319	9 654	269	622	6 636	52 598	25 189	78 105	1 220
3118	Bakeries and tortilla manufacturing	3	74	26	3 219	96 799	1 726	3 133	55 364	589 123	203 201	791 495	15 749
31181	Bread and bakery product manufacturing	6	62	22	g	D	D	D	D	D	D	D	D
311811	Retail bakeries	2	33	7	331	5 531	191	269	2 921	9 278	4 923	14 202	D
311812	Commercial bakeries	6	27	14	2 085	57 376	914	1 609	25 352	358 960	74 976	434 432	11 573
31182	Cookie, cracker, and pasta manufacturing	-	11	4	f	D	D	D	D	D	D	D	D
311821	Cookie and cracker manufacturing	-	7	3	643	29 583	484	1 000	23 685	200 606	94 388	293 738	2 419
3119	Other food manufacturing	-	43	11	1 991	68 776	1 228	2 386	34 184	467 973	247 867	715 161	24 641
31191	Snack food manufacturing	-	6	3	f	D	D	D	D	D	D	D	D
311919	Other snack food manufacturing	-	3	2	f	D	D	D	D	D	D	D	D
31192	Coffee and tea manufacturing ..	-	4	2	f	D	D	D	D	D	D	D	D
311920	Coffee and tea manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing ...	1	25	3	510	14 831	400	860	9 087	65 327	70 007	135 315	D
311991	Perishable prepared food manufacturing	-	10	2	e	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing	2	57	8	981	39 310	406	776	13 248	147 877	167 453	308 370	18 882
3121	Beverage manufacturing	2	57	8	981	39 310	406	776	13 248	147 877	167 453	308 370	18 882
31211	Soft drink and ice manufacturing	-	9	2	353	15 969	103	201	3 437	56 886	113 794	169 017	5 702
312111	Soft drink manufacturing	-	4	2	e	D	D	D	D	D	D	D	D
31213	Wineries	2	40	3	406	13 215	191	349	5 134	41 489	24 653	60 960	10 382
312130	Wineries	2	40	3	406	13 215	191	349	5 134	41 489	24 653	60 960	10 382
313	Textile mills	-	'14	2	e	D	D	D	D	D	D	D	D
3132	Fabric mills	-	7	2	e	D	D	D	D	D	D	D	D
314	Textile product mills	2	49	8	661	17 619	477	971	10 298	48 783	37 655	85 272	1 534
3141	Textile furnishings mills	1	16	3	e	D	D	D	D	D	D	D	D
31412	Curtain and linen mills	-	14	3	e	D	D	D	D	D	D	D	D
3149	Other textile product mills	3	33	5	e	D	D	D	D	D	D	D	D
315	Apparel manufacturing	3	'52	12	g	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing	2	43	11	f	D	D	D	D	D	D	D	D
31521	Cut and sew apparel contractors	4	30	6	443	7 197	385	642	5 862	9 292	1 289	12 043	41
315212	Women's, girls', and infants' cut and sew apparel contractors	6	25	4	e	D	D	D	D	D	D	D	35
31523	Women's and girls' cut and sew apparel manufacturing	2	7	1	e	D	D	D	D	D	D	D	D
315239	Women's and girls' cut and sew other outerwear manufacturing	2	4	1	e	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing	5	12	4	371	10 879	247	474	4 867	20 042	17 971	40 591	361

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
PORTLAND-VANCOUVER-BEAVERTON, OR-WA METROPOLITAN STATISTICAL AREA—Con.													
321	Wood product manufacturing	1	175	70	5 603	181 564	4 658	9 503	135 288	436 073	834 429	1 260 072	23 303
3211	Sawmills and wood preservation	—	42	21	2 230	82 190	1 961	4 194	66 942	190 652	489 997	675 594	11 876
32111	Sawmills and wood preservation	—	42	21	2 230	82 190	1 961	4 194	66 942	190 652	489 997	675 594	11 876
321113	Sawmills	—	33	16	1 941	72 135	1 752	3 772	60 949	163 130	420 318	584 194	10 217
321114	Wood preservation	—	9	5	289	10 055	209	422	5 993	27 522	69 679	91 400	1 659
3212	Veneer, plywood, and engineered wood product manufacturing	1	28	17	839	29 292	663	1 438	20 309	63 730	107 768	171 229	2 663
32121	Veneer, plywood, and engineered wood product manufacturing	1	28	17	839	29 292	663	1 438	20 309	63 730	107 768	171 229	2 663
321214	Truss manufacturing	—	12	8	398	13 314	269	582	6 944	30 090	23 466	53 423	1 192
3219	Other wood product manufacturing	4	105	32	2 534	70 082	2 034	3 871	48 037	181 691	236 664	413 249	8 764
32191	Millwork	4	57	18	1 680	46 945	1 340	2 567	31 318	132 397	185 058	312 783	5 085
321911	Wood window and door manufacturing	4	18	9	822	23 115	634	1 145	14 636	47 652	58 504	106 473	D
321912	Cut stock, resawing lumber, and planing	4	20	8	703	19 893	573	1 144	13 788	76 878	118 385	190 319	2 951
32192	Wood container and pallet manufacturing	1	18	6	334	7 659	271	527	5 491	13 443	17 568	30 806	2 925
321920	Wood container and pallet manufacturing	1	18	6	334	7 659	271	527	5 491	13 443	17 568	30 806	2 925
32199	All other wood product manufacturing	4	30	8	520	15 478	423	777	11 228	35 851	34 038	69 660	754
321999	All other miscellaneous wood product manufacturing	4	22	5	274	8 032	227	429	6 229	17 252	14 657	31 701	446
322	Paper manufacturing	—	50	31	6 186	312 910	4 915	10 135	229 979	925 779	1 139 973	2 052 442	104 592
3221	Pulp, paper, and paperboard mills	—	7	6	3 708	216 359	3 028	6 341	166 678	684 970	788 818	1 460 421	90 384
32212	Paper mills	—	7	6	3 708	216 359	3 028	6 341	166 678	684 970	788 818	1 460 421	90 384
322121	Paper (except newsprint) mills	—	5	4	h	D	D	D	D	D	D	D	D
322122	Newsprint mills	—	2	2	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	—	43	25	2 478	96 551	1 887	3 794	63 301	240 809	351 155	592 021	14 208
32221	Paperboard container manufacturing	—	16	11	g	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing	1	12	9	841	34 365	652	1 332	21 970	76 972	129 388	204 343	D
32222	Paper bag and coated and treated paper manufacturing	—	14	8	f	D	D	D	D	D	D	D	D
322224	Uncoated paper and multiwall bag manufacturing	—	5	5	e	D	D	D	D	D	D	D	D
32229	Other converted paper product manufacturing	—	9	3	e	D	D	D	D	D	D	D	D
323	Printing and related support activities	1	'360	'73	'5 805	'210 780	'4 213	'7 945	'130 869	'458 593	'324 095	'783 165	'36 260
3231	Printing and related support activities	1	'360	'73	'5 805	'210 780	'4 213	'7 945	'130 869	'458 593	'324 095	'783 165	'36 260
32311	Printing	1	'317	'62	'5 222	'188 076	'3 774	'7 123	'116 556	'420 658	'310 975	'731 742	'32 885
323110	Commercial lithographic printing	—	'143	29	'2 827	'108 452	'2 001	'3 822	'67 272	'236 158	'194 658	'431 613	'16 148
323112	Commercial flexographic printing	2	13	9	486	19 514	324	656	9 656	54 342	32 249	85 631	2 940
323113	Commercial screen printing	'4	35	'5	'361	'10 681	'251	'464	'5 696	'17 540	'13 689	'31 183	D
323114	Quick printing	3	77	5	530	14 239	411	664	9 954	31 814	10 848	42 536	1 323
323116	Manifold business forms printing	—	10	7	362	12 910	294	561	9 847	32 453	31 009	63 791	D
32312	Support activities for printing	1	43	11	583	22 704	439	822	14 313	37 935	13 120	51 423	3 375
323121	Tradebinding and related work	2	25	6	344	11 753	280	556	8 654	19 699	5 120	24 956	2 096
324	Petroleum and coal products manufacturing	1	'12	6	'435	'20 745	'333	'712	'14 204	'92 946	'165 592	'262 980	D
3241	Petroleum and coal products manufacturing	1	'12	6	'435	'20 745	'333	'712	'14 204	'92 946	'165 592	'262 980	D
32412	Asphalt paving, roofing, and saturated materials manufacturing	—	6	4	e	D	D	D	D	D	D	D	D
324122	Asphalt shingle and coating materials manufacturing	—	4	3	302	14 532	237	544	10 245	59 730	88 501	146 849	3 048

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
PORTLAND-VANCOUVER-BEAVERTON, OR-WA METROPOLITAN STATISTICAL AREA—Con.													
325	Chemical manufacturing	2	125	30	2 000	87 952	1 178	2 192	38 646	343 149	300 250	641 987	12 911
3254	Pharmaceutical and medicine manufacturing	2	25	9	f	D	D	D	D	D	D	D	2 814
32541	Pharmaceutical and medicine manufacturing	2	25	9	f	D	D	D	D	D	D	D	2 814
325411	Medicinal and botanical manufacturing	2	11	5	271	7 754	212	411	4 452	24 735	24 802	48 663	1 328
3255	Paint, coating, and adhesive manufacturing	2	20	4	314	14 337	173	308	5 027	68 503	63 951	131 476	1 193
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	3	19	4	299	12 623	145	228	4 277	48 214	27 855	75 851	3 341
32561	Soap and cleaning compound manufacturing	3	14	4	269	11 440	122	185	3 607	41 213	25 022	66 017	D
3259	Other chemical product and preparation manufacturing	1	34	8	f	D	D	D	D	D	D	D	D
32591	Printing ink manufacturing	5	13	5	e	D	D	D	D	D	D	D	D
325910	Printing ink manufacturing	5	13	5	e	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing ..	—	21	3	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	1	128	60	5 262	165 872	3 900	7 638	98 648	432 935	350 845	782 527	20 631
3261	Plastics product manufacturing ..	1	109	50	4 666	146 743	3 461	6 804	86 735	381 222	309 042	689 081	18 970
32611	Plastics packaging materials and un laminated film and sheet manufacturing	—	8	5	314	11 264	232	438	6 091	23 856	35 636	59 280	636
326113	Un laminated plastics film and sheet (except packaging) manufacturing	—	6	4	e	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, and un laminated profile shape manufacturing	5	10	4	309	10 728	214	463	7 136	22 816	40 986	61 818	D
32615	Urethane and other foam product (except polystyrene) manufacturing	—	8	4	e	D	D	D	D	D	D	D	D
326150	Urethane and other foam product (except polystyrene) manufacturing	—	8	4	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	1	76	34	3 461	108 918	2 621	5 180	65 505	292 961	187 121	479 566	12 458
326199	All other plastics product manufacturing	1	74	33	h	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ..	1	19	10	596	19 129	439	834	11 913	51 713	41 803	93 446	1 661
32629	Other rubber product manufacturing	2	11	7	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	2	119	33	2 568	98 905	1 974	3 783	70 113	277 307	194 036	474 089	27 015
3272	Glass and glass product manufacturing	2	31	13	1 075	39 926	824	1 588	28 776	106 096	68 482	176 928	17 381
32721	Glass and glass product manufacturing	2	31	13	1 075	39 926	824	1 588	28 776	106 096	68 482	176 928	17 381
327215	Glass product manufacturing made of purchased glass ..	3	24	7	624	22 233	463	893	15 244	45 553	43 879	88 013	D
3273	Cement and concrete product manufacturing	1	54	13	982	39 304	742	1 439	27 086	121 824	90 101	214 156	7 800
32732	Ready-mix concrete manufacturing	—	24	8	531	23 612	395	816	16 684	72 909	64 611	138 087	6 275
327320	Ready-mix concrete manufacturing	—	24	8	531	23 612	395	816	16 684	72 909	64 611	138 087	6 275
3279	Other nonmetallic mineral product manufacturing	2	15	4	e	D	D	D	D	D	D	D	1 619
32799	All other nonmetallic mineral product manufacturing	2	13	3	295	12 204	239	440	9 192	30 183	29 100	59 163	D
331	Primary metal manufacturing	—	48	21	5 419	217 900	4 009	7 908	134 832	602 050	642 581	1 266 328	22 579
3311	Iron and steel mills and ferroalloy manufacturing	—	4	4	g	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing	—	4	4	g	D	D	D	D	D	D	D	D
331111	Iron and steel mills	—	4	4	g	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing	—	9	4	f	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ..	—	9	4	f	D	D	D	D	D	D	D	D
331316	Aluminum extruded product manufacturing	—	4	2	f	D	D	D	D	D	D	D	D

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Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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PORTLAND-VANCOUVER-BEAVERTON, OR-WA METROPOLITAN STATISTICAL AREA—Con.													
331	Primary metal manufacturing—Con.												
3315	Foundries	—	28	11	h	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	—	12	6	1 911	81 544	1 300	2 692	44 650	222 032	114 629	338 910	6 620
331512	Steel investment foundries ..	—	2	2	f	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	—	6	4	g	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	—	16	5	g	D	D	D	D	D	D	D	D
331522	Nonferrous (except aluminum) die-casting foundries	—	2	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	1	638	147	11 773	450 678	8 473	17 139	275 740	1 173 911	679 517	1 857 026	68 111
3321	Forging and stamping	4	21	6	573	22 812	437	939	14 408	45 497	30 358	75 710	D
33211	Forging and stamping	4	21	6	573	22 812	437	939	14 408	45 497	30 358	75 710	D
332116	Metal stamping	6	11	3	332	12 785	251	524	7 968	25 774	19 222	44 974	D
3322	Cutlery and handtool manufacturing	—	20	10	g	D	D	D	D	D	D	D	D
33221	Cutlery and handtool manufacturing	—	20	10	g	D	D	D	D	D	D	D	D
332212	Hand and edge tool manufacturing	—	14	7	f	D	D	D	D	D	D	D	D
332213	Saw blade and handsaw manufacturing	—	5	2	f	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing	1	154	40	3 113	120 209	2 192	4 406	74 751	240 743	205 744	441 531	15 238
33231	Plate work and fabricated structural product manufacturing	1	66	16	1 390	56 434	976	1 936	34 758	98 035	124 957	222 033	9 348
332312	Fabricated structural metal manufacturing	1	56	13	1 160	49 633	792	1 597	30 371	85 182	118 257	203 361	6 283
33232	Ornamental and architectural metal products manufacturing	1	88	24	1 723	63 775	1 216	2 470	39 993	142 708	80 787	219 498	5 890
332321	Metal window and door manufacturing	—	8	2	316	9 432	227	540	6 095	33 226	23 976	55 646	D
332322	Sheet metal work manufacturing	1	52	19	1 131	41 240	798	1 559	25 914	86 500	43 345	127 602	3 233
332323	Ornamental and architectural metal work manufacturing ..	2	28	3	276	13 103	191	371	7 984	22 982	13 466	36 250	D
3324	Boiler, tank, and shipping container manufacturing	—	19	11	696	28 672	481	977	17 123	63 148	108 455	173 896	5 889
33241	Power boiler and heat exchanger manufacturing	1	4	4	338	14 235	198	361	6 797	29 177	66 214	95 776	3 755
332410	Power boiler and heat exchanger manufacturing ..	1	4	4	338	14 235	198	361	6 797	29 177	66 214	95 776	3 755
3325	Hardware manufacturing	—	6	3	e	D	D	D	D	D	D	D	D
33251	Hardware manufacturing	—	6	3	e	D	D	D	D	D	D	D	D
332510	Hardware manufacturing	—	6	3	e	D	D	D	D	D	D	D	D
3326	Spring and wire product manufacturing	5	24	10	683	22 580	501	1 032	13 655	53 376	28 866	88 290	D
33261	Spring and wire product manufacturing	5	24	10	683	22 580	501	1 032	13 655	53 376	28 866	88 290	D
332618	Other fabricated wire product manufacturing	6	16	6	497	16 301	360	756	9 152	40 909	21 855	69 045	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2	266	36	2 515	96 240	1 901	3 770	64 858	185 595	86 613	272 773	22 736
33271	Machine shops	2	238	26	2 054	76 188	1 543	3 035	50 357	141 682	69 730	211 709	9 348
332710	Machine shops	2	238	26	2 054	76 188	1 543	3 035	50 357	141 682	69 730	211 709	9 348
33272	Turned product and screw, nut, and bolt manufacturing	1	28	10	461	20 052	358	735	14 501	43 913	16 883	61 064	13 388
332721	Precision turned product manufacturing	—	21	8	e	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities	3	63	15	899	30 401	717	1 477	21 612	71 974	25 928	97 932	3 686
33281	Coating, engraving, heat treating, and allied activities ..	3	63	15	899	30 401	717	1 477	21 612	71 974	25 928	97 932	3 686
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	3	23	7	346	11 632	271	572	8 271	25 748	13 634	39 415	D
332813	Electroplating, plating, polishing, anodizing, and coloring	2	30	5	386	12 639	313	624	9 144	24 301	7 056	31 357	D

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Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

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PORTLAND-VANCOUVER-BEAVERTON, OR-WA METROPOLITAN STATISTICAL AREA—Con.													
332	Fabricated metal product manufacturing—Con.												
3329	Other fabricated metal product manufacturing	2	65	16	932	33 918	694	1 425	23 322	69 349	45 010	114 241	5 154
33299	All other fabricated metal product manufacturing	2	57	15	853	30 996	636	1 295	21 861	61 020	38 378	99 062	D
332999	All other miscellaneous fabricated metal product manufacturing	2	43	12	556	18 684	406	789	12 968	38 271	22 418	60 509	2 275
333	Machinery manufacturing	2	229	78	8 085	348 793	4 632	8 641	164 815	793 888	681 014	1 439 503	44 834
3331	Agriculture, construction, and mining machinery manufacturing	2	17	10	861	40 214	474	945	18 921	72 099	112 911	185 269	3 758
33312	Construction machinery manufacturing	'4	'8	'4	'455	'22 219	'239	'489	'9 989	'41 961	'50 462	'92 520	D
333120	Construction machinery manufacturing	'4	'8	'4	'455	'22 219	'239	'489	'9 989	'41 961	'50 462	'92 520	D
33313	Mining and oil and gas field machinery manufacturing	—	'4	'4	e	D	D	D	D	D	D	D	D
333131	Mining machinery and equipment manufacturing ..	—	4	4	e	D	D	D	D	D	D	D	D
3332	Industrial machinery manufacturing	4	66	26	2 898	117 395	1 463	2 547	49 971	293 594	202 825	469 218	18 150
33321	Sawmill and woodworking machinery manufacturing	1	15	7	424	14 375	252	513	7 952	30 284	16 090	47 199	D
333210	Sawmill and woodworking machinery manufacturing ..	1	15	7	424	14 375	252	513	7 952	30 284	16 090	47 199	D
33329	Other industrial machinery manufacturing	4	44	17	2 240	92 533	1 081	1 782	37 150	259 659	186 076	419 312	D
333291	Paper industry machinery manufacturing	3	12	4	e	D	D	D	D	D	D	D	D
333295	Semiconductor machinery manufacturing	5	7	5	g	D	D	D	D	D	D	D	D
333298	All other industrial machinery manufacturing	2	18	7	f	D	D	D	D	D	D	D	3 716
3333	Commercial and service industry machinery manufacturing	—	20	7	1 029	43 807	653	1 391	22 954	97 891	62 113	159 458	3 035
33331	Commercial and service industry machinery manufacturing	—	20	7	1 029	43 807	653	1 391	22 954	97 891	62 113	159 458	3 035
333314	Optical instrument and lens manufacturing	—	6	4	f	D	D	D	D	D	D	D	D
333319	Other commercial and service industry machinery manufacturing	—	8	2	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	1	9	5	522	21 200	360	781	11 197	55 453	43 463	90 553	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	1	9	5	522	21 200	360	781	11 197	55 453	43 463	90 553	D
333411	Air purification equipment manufacturing	—	3	2	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing	1	49	8	e	D	D	D	D	D	D	D	4 969
33351	Metalworking machinery manufacturing	1	49	8	e	D	D	D	D	D	D	D	4 969
3339	Other general purpose machinery manufacturing	1	60	19	2 176	101 366	1 294	2 282	47 490	222 729	237 843	461 317	12 411
33391	Pump and compressor manufacturing	—	6	6	f	D	D	D	D	D	D	D	D
333911	Pump and pumping equipment manufacturing ..	—	6	6	f	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing	—	18	7	991	49 901	567	841	22 188	113 933	104 120	217 597	8 411
333922	Conveyor and conveying equipment manufacturing ..	1	6	3	e	D	D	D	D	D	D	D	D
333923	Overhead traveling crane, hoist, and monorail system manufacturing	—	2	1	e	D	D	D	D	D	D	D	D
333924	Industrial truck, tractor, trailer, and stacker machinery manufacturing ..	—	9	3	363	21 474	153	329	6 614	41 592	27 358	69 667	D
33399	All other general purpose machinery manufacturing	2	36	6	f	D	D	D	D	D	D	D	D

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PORTLAND-VANCOUVER-BEAVERTON, OR-WA METROPOLITAN STATISTICAL AREA—Con.													
334	Computer and electronic product manufacturing	-	215	97	26 181	1 428 152	13 625	25 377	581 702	10 084 998	2 939 394	12 940 483	291 313
3341	Computer and peripheral equipment manufacturing	-	26	10	3 528	219 307	867	1 580	37 819	570 165	610 206	1 170 792	62 903
33411	Computer and peripheral equipment manufacturing	-	26	10	3 528	219 307	867	1 580	37 819	570 165	610 206	1 170 792	62 903
334111	Electronic computer manufacturing	6	6	3	e	D	D	D	D	D	D	D	D
334113	Computer terminal manufacturing	-	2	1	e	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	-	16	6	2 930	180 790	556	1 026	22 634	395 878	517 786	907 149	49 592
3342	Communications equipment manufacturing	1	19	8	g	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing	2	6	4	1 683	48 022	936	1 288	28 924	157 690	110 580	267 296	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing	2	6	4	1 683	48 022	936	1 288	28 924	157 690	110 580	267 296	D
33429	Other communications equipment manufacturing	-	9	3	f	D	D	D	D	D	D	D	D
334290	Other communications equipment manufacturing ..	-	9	3	f	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing	1	11	5	690	31 546	394	1 253	19 271	87 350	269 811	353 600	D
33431	Audio and video equipment manufacturing	1	11	5	690	31 546	394	1 253	19 271	87 350	269 811	353 600	D
334310	Audio and video equipment manufacturing	1	11	5	690	31 546	394	1 253	19 271	87 350	269 811	353 600	D
3344	Semiconductor and other electronic component manufacturing	-	82	44	12 652	652 966	8 401	16 479	366 839	8 352 732	1 366 796	9 623 540	134 439
33441	Semiconductor and other electronic component manufacturing	-	82	44	12 652	652 966	8 401	16 479	366 839	8 352 732	1 366 796	9 623 540	134 439
334412	Bare printed circuit board manufacturing	-	12	4	g	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing	-	28	21	9 589	537 035	6 293	12 784	306 944	8 099 624	1 182 377	9 193 572	114 962
334418	Printed circuit assembly (electronic assembly) manufacturing	2	14	11	834	32 402	473	968	13 513	76 707	96 133	172 452	D
334419	Other electronic component manufacturing	-	18	6	f	D	D	D	D	D	D	D	5 349
3345	Navigational, measuring, electromedical, and control instruments manufacturing	1	65	28	6 693	440 778	2 496	3 737	114 219	824 974	500 712	1 352 833	46 718
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	1	65	28	6 693	440 778	2 496	3 737	114 219	824 974	500 712	1 352 833	46 718
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	3	11	5	1 852	80 842	1 030	1 251	37 100	209 988	127 002	344 495	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	-	6	3	327	24 162	162	366	8 071	79 785	43 089	121 871	D
334514	Totalizing fluid meter and counting device manufacturing	-	5	2	e	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	-	20	9	3 859	308 742	967	1 558	59 852	494 472	298 256	812 946	36 552
335	Electrical equipment, appliance, and component manufacturing	1	53	17	2 204	95 727	1 320	2 741	41 487	217 937	224 553	449 838	D
3351	Electric lighting equipment manufacturing	1	11	5	e	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing ..	1	9	4	e	D	D	D	D	D	D	D	D
335121	Residential electric lighting fixture manufacturing	-	3	1	e	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing	3	21	6	e	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing	3	21	6	e	D	D	D	D	D	D	D	D

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335	Electrical equipment, appliance, and component manufacturing—Con.												
3359	Other electrical equipment and component manufacturing	-	18	6	1 329	66 953	732	1 606	26 565	125 209	154 159	288 404	D
33591	Battery manufacturing	-	3	2	e	D	D	D	D	D	D	D	D
335911	Storage battery manufacturing	-	3	2	e	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing	-	9	2	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	-	8	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	-	124	36	6 722	291 424	5 316	10 230	213 384	673 392	936 773	1 618 170	31 717
3361	Motor vehicle manufacturing	-	5	1	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing	-	3	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing	-	3	1	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing	1	19	7	827	24 034	682	1 360	16 293	45 562	75 886	120 809	D
33621	Motor vehicle body and trailer manufacturing	1	19	7	827	24 034	682	1 360	16 293	45 562	75 886	120 809	D
336212	Truck trailer manufacturing ..	-	3	2	e	D	D	D	D	D	D	D	D
336214	Travel trailer and camper manufacturing	-	10	4	479	13 305	408	821	8 944	25 786	43 098	68 365	D
3363	Motor vehicle parts manufacturing	1	49	16	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing	-	7	3	331	15 886	163	336	7 303	40 734	28 906	69 261	D
336322	Other motor vehicle electrical and electronic equipment manufacturing	-	7	3	331	15 886	163	336	7 303	40 734	28 906	69 261	D
33635	Motor vehicle transmission and power train parts manufacturing	-	6	2	e	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing	-	6	2	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing	2	17	9	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing	2	17	9	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing	-	14	3	1 517	98 415	1 099	2 485	72 269	276 135	61 109	348 705	D
33641	Aerospace product and parts manufacturing	-	14	3	1 517	98 415	1 099	2 485	72 269	276 135	61 109	348 705	D
336413	Other aircraft parts and auxiliary equipment manufacturing	-	11	3	g	D	D	D	D	D	D	D	D
3365	Railroad rolling stock manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
3366	Ship and boat building	1	20	5	519	21 170	421	897	15 509	34 208	20 357	54 565	2 716
33661	Ship and boat building	1	20	5	519	21 170	421	897	15 509	34 208	20 357	54 565	2 716
336611	Ship building and repairing ..	1	13	4	e	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing	1	16	3	e	D	D	D	D	D	D	D	1 505
33699	Other transportation equipment manufacturing	1	16	3	e	D	D	D	D	D	D	D	1 505
336999	All other transportation equipment manufacturing ..	1	9	1	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	1	252	52	4 366	131 698	3 358	6 558	83 913	326 991	218 194	544 768	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
PORTLAND-VANCOUVER-BEAVERTON, OR-WA METROPOLITAN STATISTICAL AREA—Con.													
337	Furniture and related product manufacturing—Con.												
3371	Household and institutional furniture and kitchen cabinet manufacturing	1	197	32	2 936	79 932	2 359	4 584	56 165	190 297	140 986	331 183	D
33711	Wood kitchen cabinet and countertop manufacturing	1	123	16	1 499	44 744	1 149	2 303	30 403	106 371	64 821	171 408	3 527
337110	Wood kitchen cabinet and countertop manufacturing ..	1	123	16	1 499	44 744	1 149	2 303	30 403	106 371	64 821	171 408	3 527
33712	Household and institutional furniture manufacturing	2	74	16	1 437	35 188	1 210	2 281	25 762	83 926	76 165	159 775	D
337121	Upholstered household furniture manufacturing	2	31	10	874	20 593	720	1 379	13 889	42 382	46 351	88 208	D
337122	Nonupholstered wood household furniture manufacturing	2	32	5	417	9 730	372	664	8 060	21 967	22 111	44 208	D
3372	Office furniture (including fixtures) manufacturing	1	47	15	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing	1	47	15	g	D	D	D	D	D	D	D	D
337212	Custom architectural woodwork and millwork manufacturing	—	22	9	732	27 855	502	949	14 507	66 862	26 385	92 761	D
337215	Showcase, partition, shelving, and locker manufacturing	3	20	5	252	7 823	180	349	4 413	16 132	9 517	25 544	D
3379	Other furniture related product manufacturing	—	8	5	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	2	'338	'59	'6 278	'226 510	'4 183	'7 971	'113 188	'569 003	'287 217	'854 228	'28 930
3391	Medical equipment and supplies manufacturing	2	136	26	3 061	124 939	1 979	3 817	59 601	304 390	121 048	423 707	20 038
33911	Medical equipment and supplies manufacturing	2	136	26	3 061	124 939	1 979	3 817	59 601	304 390	121 048	423 707	20 038
339111	Laboratory apparatus and furniture manufacturing	—	7	2	255	8 916	191	414	4 731	16 421	13 054	29 079	686
339112	Surgical and medical instrument manufacturing ..	2	15	3	297	14 193	145	293	5 349	44 309	12 008	55 365	4 405
339113	Surgical appliance and supplies manufacturing	5	13	4	267	9 756	196	327	4 847	22 203	17 255	39 234	1 236
339114	Dental equipment and supplies manufacturing	1	22	7	1 316	65 510	752	1 608	26 074	170 558	63 448	233 750	11 951
339116	Dental laboratories	5	72	7	772	21 831	565	993	39 758	8 477	48 330	1 333	
3399	Other miscellaneous manufacturing	2	'202	'33	'3 217	'101 571	'2 204	'4 154	'53 587	'264 613	'166 169	'430 521	'8 892
33992	Sporting and athletic goods manufacturing	3	35	7	511	17 149	284	528	7 206	44 661	32 300	77 708	1 745
339920	Sporting and athletic goods manufacturing	3	35	7	511	17 149	284	528	7 206	44 661	32 300	77 708	1 745
33994	Office supplies (except paper) manufacturing	5	13	4	e	D	D	D	D	D	D	D	D
33995	Sign manufacturing	r	'58	'8	'684	'24 087	'462	'916	'13 608	'44 366	'32 065	'78 308	'2 219
339950	Sign manufacturing	r	'58	'8	'684	'24 087	'462	'916	'13 608	'44 366	'32 065	'78 308	'2 219
33999	All other miscellaneous manufacturing	2	68	12	1 535	46 847	1 111	2 068	25 337	136 931	65 826	199 508	3 737
339994	Broom, brush, and mop manufacturing	2	4	3	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing	3	45	6	428	12 228	284	521	6 491	23 807	16 822	40 530	1 079
PULLMAN, WA MICROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	—	26	2	736	37 820	325	676	9 409	101 259	30 996	131 966	D
334	Computer and electronic product manufacturing	—	6	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	—	4	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ..	—	4	2	f	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals.....	—	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
SPOKANE, WA METROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	1	583	163	16 442	605 155	10 683	20 352	313 661	1 505 042	1 308 212	2 822 870	87 794
311	Food manufacturing	—	50	16	1 335	44 614	764	1 464	20 991	145 945	195 931	339 778	5 695
3118	Bakeries and tortilla manufacturing	—	18	5	621	20 852	267	499	6 724	65 568	29 426	94 933	1 872
31181	Bread and bakery product manufacturing	—	14	3	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries	—	3	2	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing	3	26	7	355	8 550	303	594	6 531	18 026	32 928	50 212	1 527
3219	Other wood product manufacturing	4	21	5	280	7 018	244	480	5 590	16 027	27 298	41 884	D
322	Paper manufacturing	1	6	5	288	14 246	202	425	8 182	63 191	60 127	123 650	1 556
323	Printing and related support activities	1	65	8	572	17 660	406	672	10 426	46 746	21 428	68 186	2 606
3231	Printing and related support activities	1	65	8	572	17 660	406	672	10 426	46 746	21 428	68 186	2 606
32311	Printing	1	54	8	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	1	32	4	311	10 661	198	375	5 587	33 159	13 395	46 565	1 880
325	Chemical manufacturing	4	15	6	e	D	D	D	D	D	D	D	7 442
3254	Pharmaceutical and medicine manufacturing	—	4	2	e	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing	—	4	2	e	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing	—	1	1	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	1	20	8	742	22 348	549	1 140	13 764	78 450	34 103	111 820	2 873
3261	Plastics product manufacturing ..	—	16	8	f	D	D	D	D	D	D	D	2 430
32619	Other plastics product manufacturing	—	12	7	605	17 706	448	939	10 975	68 298	23 950	91 636	2 348
326199	All other plastics product manufacturing	1	11	6	f	D	D	D	D	D	D	D	2 348
327	Nonmetallic mineral product manufacturing	1	20	9	746	23 884	566	1 097	17 101	73 481	48 662	121 250	6 769
3273	Cement and concrete product manufacturing	1	12	7	573	18 556	414	846	12 704	54 856	44 509	101 766	6 694
32739	Other concrete product manufacturing	—	4	3	315	11 124	251	517	7 629	27 010	24 630	54 140	4 064
327390	Other concrete product manufacturing	—	4	3	315	11 124	251	517	7 629	27 010	24 630	54 140	4 064
331	Primary metal manufacturing	—	11	9	g	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing	—	1	1	f	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	—	1	1	f	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, and foil manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production and processing	—	1	1	e	D	D	D	D	D	D	D	D
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying	—	1	1	e	D	D	D	D	D	D	D	D
331491	Nonferrous metal (except copper and aluminum) rolling, drawing, and extruding	—	1	1	e	D	D	D	D	D	D	D	D
3315	Foundries	—	7	7	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	—	5	5	e	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	—	2	2	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting)	—	2	2	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
SPOKANE, WA METROPOLITAN STATISTICAL AREA—Con.													
332	Fabricated metal product manufacturing	2	112	28	1 842	58 859	1 344	2 482	36 506	176 123	101 493	275 222	8 723
3323	Architectural and structural metals manufacturing	2	46	13	1 063	34 250	771	1 338	19 635	111 100	71 127	179 528	6 463
33231	Plate work and fabricated structural product manufacturing	1	18	6	382	14 655	263	403	7 841	62 066	26 350	88 593	1 361
332312	Fabricated structural metal manufacturing	4	15	5	e	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing	3	28	7	681	19 595	508	935	11 794	49 034	44 777	90 935	5 102
332322	Sheet metal work manufacturing	2	19	6	622	17 707	466	854	10 622	44 121	40 965	82 038	4 950
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2	33	4	e	D	D	D	D	D	D	D	D
33271	Machine shops	3	32	3	257	8 520	166	340	5 506	18 913	7 626	26 787	970
332710	Machine shops	3	32	3	257	8 520	166	340	5 506	18 913	7 626	26 787	970
333	Machinery manufacturing	-	45	12	1 117	44 383	706	1 361	23 504	93 463	61 454	153 076	2 399
3335	Metalworking machinery manufacturing	-	9	5	277	10 300	184	356	5 620	19 996	8 332	25 934	149
33351	Metalworking machinery manufacturing	-	9	5	277	10 300	184	356	5 620	19 996	8 332	25 934	149
3339	Other general purpose machinery manufacturing	-	14	3	449	18 928	247	503	8 775	35 379	26 841	62 543	1 365
334	Computer and electronic product manufacturing	2	33	15	2 668	123 245	1 131	2 365	34 215	242 895	270 495	521 613	7 800
3341	Computer and peripheral equipment manufacturing	3	6	3	956	39 751	375	863	10 185	147 040	134 998	282 464	D
33411	Computer and peripheral equipment manufacturing	3	6	3	956	39 751	375	863	10 185	147 040	134 998	282 464	D
334111	Electronic computer manufacturing	9	2	2	e	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	-	4	1	f	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing	-	7	2	f	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing	-	1	1	e	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing	-	1	1	e	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing	-	6	4	e	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing	-	6	4	e	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	1	10	6	701	35 675	248	470	8 808	34 146	73 111	106 448	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ..	1	10	6	701	35 675	248	470	8 808	34 146	73 111	106 448	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	-	2	2	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	2	7	4	800	24 899	615	1 073	15 299	43 340	45 059	88 521	1 499
3351	Electric lighting equipment manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	2	32	13	g	D	D	D	D	D	D	D	5 886
3362	Motor vehicle body and trailer manufacturing	1	10	4	e	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing	1	10	4	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	6	13	6	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
SPOKANE, WA METROPOLITAN STATISTICAL AREA—Con.													
336	Transportation equipment manufacturing—Con.												
3364	Aerospace product and parts manufacturing	—	5	3	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	—	5	3	f	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	1	35	5	772	20 052	626	1 095	12 699	45 537	31 948	76 910	3 315
3371	Household and institutional furniture and kitchen cabinet manufacturing	2	25	3	615	15 664	527	916	10 462	32 755	21 072	53 637	1 703
33711	Wood kitchen cabinet and countertop manufacturing	—	20	1	523	12 702	460	770	8 712	26 882	16 912	43 575	D
337110	Wood kitchen cabinet and countertop manufacturing ..	—	20	1	523	12 702	460	770	8 712	26 882	16 912	43 575	D
339	Miscellaneous manufacturing	3	76	12	733	23 144	508	940	12 768	43 044	30 280	74 232	2 172
3391	Medical equipment and supplies manufacturing	4	29	5	269	8 472	208	397	5 254	14 896	9 406	24 621	1 324
33911	Medical equipment and supplies manufacturing	4	29	5	269	8 472	208	397	5 254	14 896	9 406	24 621	1 324
3399	Other miscellaneous manufacturing	3	47	7	464	14 672	300	543	7 514	28 148	20 874	49 611	848
WALLA WALLA, WA MICROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	1	88	11	1 661	71 835	1 191	2 354	45 354	236 007	236 928	473 934	26 418
322	Paper manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills	—	1	1	e	D	D	D	D	D	D	D	D
32212	Paper mills	—	1	1	e	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	1	1	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing	—	7	3	458	22 456	291	552	12 199	60 605	26 959	87 426	D
WENATCHEE, WA METROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	3	94	17	2 079	68 046	1 437	2 739	41 312	186 359	240 068	433 060	13 674
311	Food manufacturing	—	13	3	405	10 912	354	537	8 424	43 005	40 371	86 982	D
331	Primary metal manufacturing	8	5	3	f	D	D	D	D	D	D	D	880
3313	Alumina and aluminum production and processing	8	2	2	e	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	8	2	2	e	D	D	D	D	D	D	D	D
331312	Primary aluminum production	9	1	1	e	D	D	D	D	D	D	D	D
YAKIMA, WA METROPOLITAN STATISTICAL AREA													
31-33	Manufacturing	1	244	81	9 781	308 335	7 858	14 518	212 212	726 948	1 313 938	2 049 799	49 251
311	Food manufacturing	—	31	15	2 928	78 016	2 521	4 891	59 217	270 016	641 012	925 921	13 512
3114	Fruit and vegetable preserving and specialty food manufacturing	1	15	10	1 914	49 688	1 709	3 337	40 637	161 126	243 266	403 412	8 046
31142	Fruit and vegetable canning, pickling, and drying	1	13	9	g	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning ..	1	10	7	1 679	42 329	1 511	2 928	35 321	150 504	202 279	352 378	D
3116	Animal slaughtering and processing	—	4	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	—	4	1	f	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	—	3	1	f	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing	1	15	5	276	9 934	202	392	7 874	39 576	43 917	80 121	2 600
3121	Beverage manufacturing	1	15	5	276	9 934	202	392	7 874	39 576	43 917	80 121	2 600

See footnotes at end of table.

Table 2. Industry Statistics for Metropolitan and Micropolitan Statistical Areas: 2002—Con.

[Includes data for industry groups and industries with 250 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For definitions of CSAs, MeSAs, MISAs, and MDs, see Appendix E. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text.]

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
	YAKIMA, WA METROPOLITAN STATISTICAL AREA—Con.												
321	Wood product manufacturing	—	22	13	1 302	39 547	1 158	2 153	31 528	71 156	144 747	217 665	4 319
3212	Veneer, plywood, and engineered wood product manufacturing	—	4	4	324	13 098	286	638	10 394	32 515	48 397	80 187	2 776
32121	Veneer, plywood, and engineered wood product manufacturing	—	4	4	324	13 098	286	638	10 394	32 515	48 397	80 187	2 776
3219	Other wood product manufacturing	1	15	7	f	D	D	D	D	D	D	D	D
32191	Millwork	—	4	2	e	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring)	—	2	1	e	D	D	D	D	D	D	D	D
322	Paper manufacturing	—	4	3	301	13 843	233	488	9 691	27 889	97 831	125 665	627
3222	Converted paper product manufacturing	—	3	3	e	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing	—	3	3	e	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing	—	2	2	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	—	15	10	1 592	63 624	1 133	2 214	37 402	109 543	150 528	257 101	17 051
3261	Plastics product manufacturing	—	14	10	g	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and un laminated film and sheet manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
326113	Un laminated plastics film and sheet (except packaging) manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	1	7	6	705	24 266	493	1 010	13 361	54 164	47 493	99 281	11 188
326199	All other plastics product manufacturing	1	7	6	705	24 266	493	1 010	13 361	54 164	47 493	99 281	11 188
332	Fabricated metal product manufacturing	—	36	7	738	19 214	582	794	13 300	47 188	56 930	100 778	2 571
3323	Architectural and structural metals manufacturing	1	10	3	333	7 947	252	317	5 417	10 321	13 435	24 322	333
33231	Plate work and fabricated structural product manufacturing	—	4	3	293	6 511	224	257	4 468	8 334	11 525	20 419	280
332312	Fabricated structural metal manufacturing	—	3	3	282	6 166	216	246	4 265	8 334	11 525	20 419	280
333	Machinery manufacturing	3	35	10	840	34 325	553	887	19 371	52 150	63 584	118 562	2 585
3339	Other general purpose machinery manufacturing	—	14	7	456	21 414	290	558	14 160	25 094	35 646	63 122	1 626
33399	All other general purpose machinery manufacturing	—	13	7	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	—	9	2	f	D	D	D	D	D	D	D	762
3362	Motor vehicle body and trailer manufacturing	—	5	2	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing	—	5	2	f	D	D	D	D	D	D	D	D
336213	Motor home manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	4	32	7	506	12 255	377	643	7 409	30 324	14 821	44 878	1 539
3399	Other miscellaneous manufacturing	4	21	6	431	10 307	331	547	6 292	26 470	11 698	37 895	1 431

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

²Includes establishments with payroll at any time during the year.

³Industries 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: 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.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Industry Statistics for Counties: 2002

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
ADAMS													
31-33	Manufacturing	5	14	5	g	D	D	D	D	D	D	9 126	
311	Food manufacturing	5	9	5	g	D	D	D	D	D	D	9 062	
3114	Fruit and vegetable preserving and specialty food manufacturing	5	6	4	g	D	D	D	D	D	D	D	
31141	Frozen food manufacturing	5	4	3	1 299	35 542	1 202	2 464	32 647	221 495	206 686	428 163	8 416
311411	Frozen fruit, juice, and vegetable manufacturing ...	5	4	3	1 299	35 542	1 202	2 464	32 647	221 495	206 686	428 163	8 416
BENTON													
31-33	Manufacturing	-	116	25	3 714	160 348	2 540	5 235	85 323	442 756	453 587	882 250	25 145
311	Food manufacturing	-	19	7	g	D	D	D	D	D	D	10 510	
3114	Fruit and vegetable preserving and specialty food manufacturing	-	5	4	g	D	D	D	D	D	D	D	
31141	Frozen food manufacturing	-	3	3	g	D	D	D	D	D	D	D	
311411	Frozen fruit, juice, and vegetable manufacturing ...	-	3	3	g	D	D	D	D	D	D	D	
312	Beverage and tobacco product manufacturing	-	13	3	528	20 896	277	555	10 018	147 133	109 709	235 364	D
3121	Beverage manufacturing	-	13	3	528	20 896	277	555	10 018	147 133	109 709	235 364	D
325	Chemical manufacturing	-	5	3	f	D	D	D	D	D	D	D	
3251	Basic chemical manufacturing ...	-	2	1	f	D	D	D	D	D	D	D	
32518	Other basic inorganic chemical manufacturing	-	1	1	f	D	D	D	D	D	D	D	
325188	All other basic inorganic chemical manufacturing	-	1	1	f	D	D	D	D	D	D	D	
CHELAN													
31-33	Manufacturing	4	77	15	1 912	60 590	1 314	2 519	37 116	168 667	234 228	410 453	13 209
331	Primary metal manufacturing	8	4	3	f	D	D	D	D	D	D	D	
CLALLAM													
31-33	Manufacturing	2	76	13	1 159	44 395	918	1 809	31 836	126 291	141 769	268 054	11 848
321	Wood product manufacturing	3	22	4	500	14 838	439	888	12 481	39 792	66 854	105 913	4 077
CLARK													
31-33	Manufacturing	1	444	123	14 471	594 067	10 016	20 250	353 301	1 670 288	1 651 011	3 320 125	120 964
311	Food manufacturing	-	30	10	1 178	36 553	842	1 542	21 504	219 758	157 868	377 191	13 046
3119	Other food manufacturing	-	8	1	f	D	D	D	D	D	D	D	
31191	Snack food manufacturing	-	1	1	f	D	D	D	D	D	D	D	
311919	Other snack food manufacturing	-	1	1	f	D	D	D	D	D	D	D	
321	Wood product manufacturing	2	38	15	f	D	D	D	D	D	D	D	
322	Paper manufacturing	-	10	7	1 874	99 558	1 572	3 161	79 631	241 506	318 911	550 705	D
3221	Pulp, paper, and paperboard mills	-	1	1	g	D	D	D	D	D	D	D	
32212	Paper mills	-	1	1	g	D	D	D	D	D	D	D	
322121	Paper (except newsprint) mills	-	1	1	g	D	D	D	D	D	D	D	
3222	Converted paper product manufacturing	-	9	6	f	D	D	D	D	D	D	D	
326	Plastics and rubber products manufacturing	1	25	13	f	D	D	D	D	D	D	D	
3261	Plastics product manufacturing ..	1	25	13	f	D	D	D	D	D	D	D	
32619	Other plastics product manufacturing	1	16	8	f	D	D	D	D	D	D	D	
332	Fabricated metal product manufacturing	2	76	11	f	D	D	D	D	D	D	D	
333	Machinery manufacturing	-	38	14	g	D	D	D	D	D	D	D	
3332	Industrial machinery manufacturing	-	16	6	f	D	D	D	D	D	D	D	
33329	Other industrial machinery manufacturing	-	11	5	f	D	D	D	D	D	D	D	

See footnotes at end of table.

Table 3. Industry Statistics for Counties: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
CLARK—Con.													
334	Computer and electronic product manufacturing	1	33	16	4 148	191 634	2 594	5 846	101 060	604 519	611 300	1 230 342	42 163
3344	Semiconductor and other electronic component manufacturing	1	15	10	3 007	140 190	1 995	4 219	77 652	463 432	330 404	811 090	37 864
33441	Semiconductor and other electronic component manufacturing	1	15	10	3 007	140 190	1 995	4 219	77 652	463 432	330 404	811 090	37 864
334413	Semiconductor and related device manufacturing	—	8	7	2 646	124 651	1 754	3 642	70 639	423 960	309 727	753 124	35 475
3345	Navigational, measuring, electromedical, and control instruments manufacturing	9	8	3	638	30 581	271	503	7 864	80 143	34 390	114 676	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	9	8	3	638	30 581	271	503	7 864	80 143	34 390	114 676	D
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	9	1	1	f	D	D	D	D	D	D	D	D
COWLITZ													
31-33	Manufacturing	—	132	42	6 547	324 356	4 880	9 970	227 254	721 675	1 382 386	2 092 148	103 885
321	Wood product manufacturing	—	19	8	1 222	48 124	1 094	2 247	39 870	94 343	190 443	285 727	D
3211	Sawmills and wood preservation	—	12	5	851	39 983	763	1 785	33 944	80 323	168 374	251 357	D
32111	Sawmills and wood preservation	—	12	5	851	39 983	763	1 785	33 944	80 323	168 374	251 357	D
321113	Sawmills	—	12	5	851	39 983	763	1 785	33 944	80 323	168 374	251 357	D
322	Paper manufacturing	—	11	10	h	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills	—	5	5	h	D	D	D	D	D	D	D	D
32212	Paper mills	—	3	3	f	D	D	D	D	D	D	D	D
32213	Paperboard mills	—	2	2	g	D	D	D	D	D	D	D	D
322130	Paperboard mills	—	2	2	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	1	22	5	f	D	D	D	D	D	D	D	D
FRANKLIN													
31-33	Manufacturing	7	51	12	3 605	96 402	3 127	6 760	76 678	257 546	991 454	1 285 014	16 039
311	Food manufacturing	7	13	6	h	D	D	D	D	D	D	D	14 415
3114	Fruit and vegetable preserving and specialty food manufacturing	1	3	3	g	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing	1	3	3	g	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	1	3	3	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing	9	4	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	9	4	1	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	9	4	1	g	D	D	D	D	D	D	D	D
GRANT													
31-33	Manufacturing	2	64	23	3 541	112 577	2 982	5 768	82 086	330 155	352 081	701 641	32 329
311	Food manufacturing	3	25	13	2 296	63 779	1 993	3 834	48 429	221 003	212 648	443 294	17 885
3114	Fruit and vegetable preserving and specialty food manufacturing	3	10	9	2 044	55 111	1 827	3 543	43 815	191 841	177 979	378 947	15 121
31141	Frozen food manufacturing	3	7	7	1 823	47 399	1 647	3 201	38 774	175 760	147 931	324 256	12 747
311411	Frozen fruit, juice, and vegetable manufacturing ...	3	7	7	1 823	47 399	1 647	3 201	38 774	175 760	147 931	324 256	12 747
GRAYS HARBOR													
31-33	Manufacturing	—	94	24	3 078	124 958	2 586	5 053	94 201	326 410	458 292	781 846	15 706
321	Wood product manufacturing	1	37	12	1 417	52 843	1 270	2 559	43 814	116 284	237 148	350 885	5 437
3211	Sawmills and wood preservation	1	24	6	612	22 656	543	1 119	18 443	55 110	136 332	188 946	4 065
32111	Sawmills and wood preservation	1	24	6	612	22 656	543	1 119	18 443	55 110	136 332	188 946	4 065
321113	Sawmills	1	24	6	612	22 656	543	1 119	18 443	55 110	136 332	188 946	4 065
3219	Other wood product manufacturing	—	10	3	f	D	D	D	D	D	D	D	D
322	Paper manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills	—	2	2	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 3. Industry Statistics for Counties: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
ISLAND													
31-33	Manufacturing	5	50	7	f	D	D	D	D	D	D	2 400	
JEFFERSON													
31-33	Manufacturing	1	75	7	731	24 458	521	1 043	17 979	85 633	77 096	162 195	D
KING													
31-33	Manufacturing	1	2 583	708	97 733	4 351 336	55 081	109 027	2 003 110	14 265 827	14 226 040	29 264 797	507 944
311	Food manufacturing	3	284	106	13 114	405 250	9 529	17 758	255 421	1 602 283	1 429 574	2 955 720	113 642
3115	Dairy product manufacturing	6	11	9	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing	5	8	6	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing	2	22	9	1 285	35 950	1 119	2 285	26 347	196 237	156 180	341 204	11 341
31161	Animal slaughtering and processing	2	22	9	1 285	35 950	1 119	2 285	26 347	196 237	156 180	341 204	11 341
311612	Meat processed from carcasses	2	16	7	g	D	D	D	D	D	D	D	D
3117	Seafood product preparation and packaging	2	41	27	4 699	125 511	4 093	7 110	98 470	448 723	523 621	972 369	65 763
31171	Seafood product preparation and packaging	2	41	27	4 699	125 511	4 093	7 110	98 470	448 723	523 621	972 369	65 763
311712	Fresh and frozen seafood processing	2	30	23	h	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing	2	111	28	h	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing	2	98	21	h	D	D	D	D	D	D	D	D
311811	Retail bakeries	3	60	6	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries	2	35	13	g	D	D	D	D	D	D	D	D
31182	Cookie, cracker, and pasta manufacturing	-	11	6	f	D	D	D	D	D	D	D	D
3119	Other food manufacturing	6	58	19	g	D	D	D	D	D	D	D	D
31199	All other food manufacturing	3	35	10	f	D	D	D	D	D	D	D	D
311991	Perishable prepared food manufacturing	-	20	7	f	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing	-	29	11	g	D	D	D	D	D	D	D	D
3121	Beverage manufacturing	-	29	11	g	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing	1	8	6	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing	1	6	6	604	25 662	259	493	9 171	65 580	232 062	295 093	D
31213	Wineries	-	14	3	f	D	D	D	D	D	D	D	D
312130	Wineries	-	14	3	f	D	D	D	D	D	D	D	D
314	Textile product mills	1	58	16	g	D	D	D	D	D	D	D	1 976
3149	Other textile product mills	1	49	12	f	D	D	D	D	D	D	D	1 725
31491	Textile bag and canvas mills	-	19	5	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing	2	73	14	g	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing	2	56	11	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing	-	63	17	g	D	D	D	D	D	D	D	4 273
3219	Other wood product manufacturing	1	47	11	f	D	D	D	D	D	D	D	D
322	Paper manufacturing	1	36	21	g	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	1	35	21	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing	-	17	14	g	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing	1	11	10	g	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing	-	11	4	f	D	D	D	D	D	D	D	D
323	Printing and related support activities	2	336	59	i	D	D	D	D	D	D	D	22 437
3231	Printing and related support activities	2	336	59	i	D	D	D	D	D	D	D	22 437
32311	Printing	2	303	53	h	D	D	D	D	D	D	D	21 743
323110	Commercial lithographic printing	2	136	36	h	D	D	D	D	D	D	D	17 198
32312	Support activities for printing	-	33	6	f	D	D	D	D	D	D	D	694
325	Chemical manufacturing	2	82	22	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 3. Industry Statistics for Counties: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
KING—Con.													
326	Plastics and rubber products manufacturing	3	76	34	3 295	112 827	2 601	5 163	76 572	343 230	278 969	621 442	21 673
3261	Plastics product manufacturing ..	3	69	31	h	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing	—	6	2	f	D	D	D	D	D	D	D	D
326121	Unlaminated plastics profile shape manufacturing	—	5	2	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	4	45	20	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	4	41	18	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	1	94	25	h	D	D	D	D	D	D	D	19 883
3272	Glass and glass product manufacturing	1	37	7	g	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing	1	37	7	g	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	5	22	5	f	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing	1	29	12	g	D	D	D	D	D	D	D	D
331	Primary metal manufacturing	—	26	12	g	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing	—	5	3	f	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing	—	5	3	f	D	D	D	D	D	D	D	D
331111	Iron and steel mills	—	5	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	2	401	79	6 207	234 783	4 550	8 617	146 260	522 852	369 753	891 570	22 359
3323	Architectural and structural metals manufacturing	4	97	20	1 394	50 704	978	1 920	30 022	113 321	98 795	213 117	4 745
33231	Plate work and fabricated structural product manufacturing	6	35	7	514	20 867	359	725	12 274	42 371	48 479	93 536	1 481
33232	Ornamental and architectural metal products manufacturing	2	62	13	880	29 837	619	1 195	17 748	70 950	50 316	119 581	3 264
332322	Sheet metal work manufacturing	1	29	11	528	18 927	370	717	10 964	50 744	32 361	80 517	2 356
3324	Boiler, tank, and shipping container manufacturing	1	12	7	535	24 414	403	864	16 092	83 532	94 935	181 184	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	3	172	23	2 017	75 502	1 572	3 019	52 453	145 882	65 227	215 319	7 956
33271	Machine shops	3	149	17	1 592	57 764	1 247	2 480	39 994	112 294	48 700	163 763	6 559
332710	Machine shops	3	149	17	1 592	57 764	1 247	2 480	39 994	112 294	48 700	163 763	6 559
3328	Coating, engraving, heat treating, and allied activities	—	44	13	f	D	D	D	D	D	D	D	2 638
33281	Coating, engraving, heat treating, and allied activities ..	—	44	13	f	D	D	D	D	D	D	D	2 638
332813	Electroplating, plating, polishing, anodizing, and coloring	—	18	6	f	D	D	D	D	D	D	D	772
3329	Other fabricated metal product manufacturing	1	46	11	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	1	152	47	i	D	D	D	D	D	D	D	16 484
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2	9	4	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2	9	4	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing	1	31	8	850	42 155	460	837	16 715	99 207	48 214	145 124	7 611
33351	Metalworking machinery manufacturing	1	31	8	850	42 155	460	837	16 715	99 207	48 214	145 124	7 611
333515	Cutting tool and machine tool accessory manufacturing	2	5	2	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 3. Industry Statistics for Counties: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
KING—Con.													
333	Machinery manufacturing—Con.												
3339	Other general purpose machinery manufacturing	—	53	21	h	D	D	D	D	D	D	D	4 286
33392	Material handling equipment manufacturing	—	25	9	g	D	D	D	D	D	D	D	D
333923	Overhead traveling crane, hoist, and monorail system manufacturing	—	9	5	g	D	D	D	D	D	D	D	2 914
33399	All other general purpose machinery manufacturing	1	25	12	f	D	D	D	D	D	D	D	1 073
334	Computer and electronic product manufacturing	1	'186	'79	'15 528	'1 073 782	'5 320	'10 377	'187 813	'1 643 939	'1 713 380	'3 747 910	'77 054
3341	Computer and peripheral equipment manufacturing	4	'25	9	g	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing	4	'25	9	g	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing	—	'6	2	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	4	16	5	f	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing	1	26	15	g	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing	—	9	7	f	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing	—	9	7	f	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing	9	6	1	f	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing	9	6	1	f	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing	9	6	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing	—	'44	'22	h	D	D	D	D	D	D	D	'10 095
33441	Semiconductor and other electronic component manufacturing	—	'44	'22	h	D	D	D	D	D	D	D	'10 095
334412	Bare printed circuit board manufacturing	1	'13	'8	f	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing	—	14	5	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	—	69	28	i	D	D	D	D	D	D	D	50 773
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	69	28	i	D	D	D	D	D	D	D	50 773
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	1	11	8	h	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	—	12	9	4 571	496 865	1 112	2 295	48 722	384 615	328 161	1 113 259	D
335	Electrical equipment, appliance, and component manufacturing	1	44	10	g	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
335211	Electric housewares and household fan manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	—	126	53	k	D	D	D	D	D	D	D	93 170
3361	Motor vehicle manufacturing	—	4	1	f	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing	2	26	7	f	D	D	D	D	D	D	D	2 176
3364	Aerospace product and parts manufacturing	—	48	25	j	D	D	D	D	D	D	D	80 858
33641	Aerospace product and parts manufacturing	—	48	25	j	D	D	D	D	D	D	D	80 858
336411	Aircraft manufacturing	—	3	1	j	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing	—	38	21	8 598	383 583	5 350	12 147	314 435	682 133	425 778	1 126 809	D

See footnotes at end of table.

Table 3. Industry Statistics for Counties: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
KING—Con.													
336	Transportation equipment manufacturing—Con.												
3366	Ship and boat building	2	36	15	g	D	D	D	D	D	D	5 547	
33661	Ship and boat building	2	36	15	g	D	D	D	D	D	D	5 547	
336611	Ship building and repairing ..	2	20	9	1 892	93 477	1 555	3 315	72 249	188 753	66 042	254 795	5 071
337	Furniture and related product manufacturing	1	'170	35	g	D	D	D	D	D	D	D	
3371	Household and institutional furniture and kitchen cabinet manufacturing	2	114	15	g	D	D	D	D	D	D	D	
33711	Wood kitchen cabinet and countertop manufacturing	2	55	9	f	D	D	D	D	D	D	D	
337110	Wood kitchen cabinet and countertop manufacturing ..	2	55	9	f	D	D	D	D	D	D	D	
3372	Office furniture (including fixtures) manufacturing	1	'47	17	g	D	D	D	D	D	D	D	
33721	Office furniture (including fixtures) manufacturing	1	'47	17	g	D	D	D	D	D	D	D	
339	Miscellaneous manufacturing	2	'311	'65	'4 998	'180 409	'3 164	'6 013	'84 609	'467 704	'309 327	'771 970	'18 230
3391	Medical equipment and supplies manufacturing	3	131	26	1 646	63 539	1 091	2 018	32 726	194 229	74 021	266 338	10 048
33911	Medical equipment and supplies manufacturing	3	131	26	1 646	63 539	1 091	2 018	32 726	194 229	74 021	266 338	10 048
339116	Dental laboratories	4	88	10	f	D	D	D	D	D	D	D	1 249
3399	Other miscellaneous manufacturing	2	'180	'39	'3 352	'116 870	'2 073	'3 995	'51 883	'273 475	'235 306	'505 632	'8 182
33992	Sporting and athletic goods manufacturing	2	31	10	1 405	49 088	859	1 789	21 391	139 790	154 211	291 049	3 928
339920	Sporting and athletic goods manufacturing	2	31	10	1 405	49 088	859	1 789	21 391	139 790	154 211	291 049	3 928
33995	Sign manufacturing	2	56	8	f	D	D	D	D	D	D	D	D
339950	Sign manufacturing	2	56	8	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous manufacturing	1	'54	'13	'912	'32 033	'524	'983	'13 567	'61 119	'35 503	'96 996	'1 759
339999	All other miscellaneous manufacturing	—	'39	'10	f	D	D	D	D	D	D	D	'1 411
KITSAP													
31-33	Manufacturing	4	171	19	2 321	74 290	1 442	2 562	35 818	168 239	98 795	267 059	6 885
334	Computer and electronic product manufacturing	5	14	2	679	27 883	266	594	8 131	55 695	24 023	79 718	2 544
3345	Navigational, measuring, electromedical, and control instruments manufacturing	5	6	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	5	6	2	f	D	D	D	D	D	D	D	D
KITTITAS													
31-33	Manufacturing	—	31	5	662	18 779	569	869	13 162	51 881	35 004	87 414	2 275
KLICKITAT													
31-33	Manufacturing	—	25	2	547	26 037	449	927	19 806	103 679	55 093	165 979	3 449
LEWIS													
31-33	Manufacturing	1	119	29	2 810	105 469	2 314	4 920	82 010	288 770	423 059	706 647	33 321
321	Wood product manufacturing	—	22	11	1 349	58 830	1 188	2 705	50 515	140 258	204 313	337 625	10 005
3211	Sawmills and wood preservation .	—	10	5	830	38 911	734	1 690	32 953	99 466	147 448	242 652	8 570
32111	Sawmills and wood preservation	—	10	5	830	38 911	734	1 690	32 953	99 466	147 448	242 652	8 570
321113	Sawmills	—	9	5	f	D	D	D	D	D	D	D	D
MASON													
31-33	Manufacturing	—	50	13	1 466	53 362	1 196	2 393	38 876	118 047	204 700	326 688	33 649
321	Wood product manufacturing	—	15	7	948	37 299	823	1 738	29 923	81 040	180 182	262 962	D
3211	Sawmills and wood preservation .	—	6	3	537	23 927	457	987	19 208	52 940	142 093	196 848	D
32111	Sawmills and wood preservation	—	6	3	537	23 927	457	987	19 208	52 940	142 093	196 848	D
321113	Sawmills	—	6	3	537	23 927	457	987	19 208	52 940	142 093	196 848	D
PACIFIC													
31-33	Manufacturing	1	37	8	783	20 413	712	1 258	17 293	44 825	60 313	105 139	D

See footnotes at end of table.

Table 3. Industry Statistics for Counties: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
PIERCE													
31-33	Manufacturing	1	664	199	19 462	711 315	14 598	27 712	453 764	1 777 490	2 119 810	3 894 596	108 461
311	Food manufacturing	4	59	17	2 388	71 126	1 889	3 342	49 385	230 200	258 001	488 065	15 853
3117	Seafood product preparation and packaging	7	8	4	542	13 404	463	771	10 373	32 002	53 279	85 281	8 517
31171	Seafood product preparation and packaging	7	8	4	542	13 404	463	771	10 373	32 002	53 279	85 281	8 517
3118	Bakeries and tortilla manufacturing	2	22	5	921	31 371	738	1 261	24 759	80 373	68 370	148 400	2 614
31181	Bread and bakery product manufacturing	-	18	2	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing	-	63	32	2 672	93 555	2 152	4 168	64 745	194 867	344 768	543 204	15 465
3211	Sawmills and wood preservation	-	15	12	1 314	50 941	1 055	2 066	34 824	108 859	238 159	349 156	11 130
32111	Sawmills and wood preservation	-	15	12	1 314	50 941	1 055	2 066	34 824	108 859	238 159	349 156	11 130
321113	Sawmills	-	12	9	989	38 201	803	1 461	27 089	74 575	162 481	228 225	D
3219	Other wood product manufacturing	1	38	14	958	28 205	789	1 440	20 145	58 184	65 290	123 008	3 192
32191	Millwork	1	21	8	640	17 014	548	1 006	12 613	36 910	41 295	77 425	2 311
322	Paper manufacturing	-	12	10	1 124	53 424	850	1 589	36 511	162 017	221 649	377 472	D
3221	Pulp, paper, and paperboard mills	-	3	3	f	D	D	D	D	D	D	D	D
32213	Paperboard mills	-	3	3	f	D	D	D	D	D	D	D	D
322130	Paperboard mills	-	3	3	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	-	9	7	f	D	D	D	D	D	D	D	D
323	Printing and related support activities	-	53	7	617	19 572	436	711	11 645	49 336	33 638	84 038	2 200
3231	Printing and related support activities	-	53	7	617	19 572	436	711	11 645	49 336	33 638	84 038	2 200
32311	Printing	-	49	7	585	18 415	414	668	10 950	46 996	32 470	80 545	2 126
326	Plastics and rubber products manufacturing	2	34	22	2 381	77 547	1 849	3 700	51 073	234 423	201 510	433 592	14 134
3261	Plastics product manufacturing ..	2	31	22	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	1	17	10	1 652	54 102	1 265	2 564	35 885	167 446	124 362	290 927	6 465
326199	All other plastics product manufacturing	1	15	10	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	-	42	20	1 615	63 366	1 274	2 686	44 639	205 595	148 616	353 413	11 133
3273	Cement and concrete product manufacturing	-	20	13	856	35 638	675	1 427	25 319	131 744	71 195	203 197	D
331	Primary metal manufacturing	1	5	4	f	D	D	D	D	D	D	D	D
3315	Foundries	1	4	3	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	1	3	3	f	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	1	3	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	3	116	19	1 614	62 536	1 201	2 388	40 216	142 352	101 439	247 006	4 430
3323	Architectural and structural metals manufacturing	3	36	9	677	25 290	498	947	15 393	64 268	61 344	128 185	2 148
33232	Ornamental and architectural metal products manufacturing	2	19	6	501	18 545	370	709	11 083	47 084	41 969	91 543	1 077
333	Machinery manufacturing	1	31	10	713	27 633	503	942	16 790	61 588	51 286	112 870	1 360
336	Transportation equipment manufacturing	-	30	9	g	D	D	D	D	D	D	D	5 051
3364	Aerospace product and parts manufacturing	-	7	3	g	D	D	D	D	D	D	D	3 621
33641	Aerospace product and parts manufacturing	-	7	3	g	D	D	D	D	D	D	D	3 621
336413	Other aircraft parts and auxiliary equipment manufacturing	-	4	2	g	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	1	57	17	1 349	42 714	1 032	2 112	27 124	85 167	57 754	145 299	3 385
3371	Household and institutional furniture and kitchen cabinet manufacturing	2	40	9	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing	2	23	5	518	13 214	428	845	9 408	21 508	12 690	34 069	346
337110	Wood kitchen cabinet and countertop manufacturing ..	2	23	5	518	13 214	428	845	9 408	21 508	12 690	34 069	346

See footnotes at end of table.

Table 3. Industry Statistics for Counties: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
PIERCE—Con.													
339	Miscellaneous manufacturing	1	82	8	743	23 825	540	985	14 188	50 101	28 443	77 865	1 025
SKAGIT													
31-33	Manufacturing	-	191	58	5 145	192 907	3 950	7 919	138 124	764 942	2 649 596	3 424 777	120 904
311	Food manufacturing	-	21	7	927	22 230	705	1 536	15 414	78 151	85 023	162 274	1 988
321	Wood product manufacturing	3	18	12	795	28 123	656	1 292	21 941	61 208	59 719	123 134	5 312
324	Petroleum and coal products manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries	-	2	2	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	1	11	5	512	17 238	341	714	10 815	36 531	41 337	76 974	4 675
336	Transportation equipment manufacturing	1	24	12	f	D	D	D	D	D	D	D	D
3366	Ship and boat building	2	19	10	f	D	D	D	D	D	D	D	D
33661	Ship and boat building	2	19	10	f	D	D	D	D	D	D	D	D
336612	Boat building	-	15	9	f	D	D	D	D	D	D	D	D
SNOHOMISH													
31-33	Manufacturing	-	838	231	49 622	2 417 923	25 199	54 602	1 232 252	8 467 858	9 263 684	18 411 175	211 202
311	Food manufacturing	2	46	13	1 199	38 018	861	1 699	22 703	97 844	122 122	219 367	3 486
321	Wood product manufacturing	1	61	26	g	D	D	D	D	D	D	D	32 014
3211	Sawmills and wood preservation	-	19	11	f	D	D	D	D	D	D	D	27 243
32111	Sawmills and wood preservation	-	19	11	f	D	D	D	D	D	D	D	27 243
321113	Sawmills	-	17	10	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing	3	39	13	f	D	D	D	D	D	D	D	D
32191	Millwork	3	22	10	f	D	D	D	D	D	D	D	3 813
322	Paper manufacturing	-	3	3	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing and related support activities	-	69	9	f	D	D	D	D	D	D	D	4 656
3231	Printing and related support activities	-	69	9	f	D	D	D	D	D	D	D	4 656
32311	Printing	-	65	9	f	D	D	D	D	D	D	D	4 628
323110	Commercial lithographic printing	-	28	7	f	D	D	D	D	D	D	D	4 089
326	Plastics and rubber products manufacturing	1	18	8	1 020	33 548	801	1 573	22 516	56 914	82 695	141 782	5 170
3261	Plastics product manufacturing ..	1	15	7	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	-	11	4	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	-	11	4	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	1	34	12	f	D	D	D	D	D	D	D	2 446
332	Fabricated metal product manufacturing	1	207	54	4 011	140 001	2 778	5 583	86 058	287 014	200 811	492 360	14 577
3323	Architectural and structural metals manufacturing	2	57	21	1 351	48 957	960	1 973	29 051	82 848	88 182	170 336	2 282
33232	Ornamental and architectural metal products manufacturing	2	42	17	1 124	39 426	793	1 643	23 711	59 925	79 047	138 769	1 836
332322	Sheet metal work manufacturing	1	29	14	876	29 853	616	1 274	17 931	43 755	66 609	109 824	1 532
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	-	100	18	1 653	54 767	1 088	2 306	35 198	128 630	59 215	191 260	8 010
33271	Machine shops	-	84	15	1 346	42 486	899	1 942	27 707	104 713	45 738	153 564	6 292
332710	Machine shops	-	84	15	1 346	42 486	899	1 942	27 707	104 713	45 738	153 564	6 292
333	Machinery manufacturing	2	32	7	f	D	D	D	D	D	D	D	1 989

See footnotes at end of table.

Table 3. Industry Statistics for Counties: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
SNOHOMISH—Con.													
334	Computer and electronic product manufacturing	—	52	18	3 490	192 276	1 443	2 941	49 345	745 304	450 645	1 193 861	20 975
3341	Computer and peripheral equipment manufacturing	—	4	2	f	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing	—	4	2	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	—	4	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	—	17	6	g	D	D	D	D	D	D	D	12 955
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	17	6	g	D	D	D	D	D	D	D	12 955
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	—	3	2	f	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	—	4	3	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing	3	18	9	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing	3	5	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	—	62	21	k	D	D	D	D	D	D	D	32 739
3364	Aerospace product and parts manufacturing	—	30	13	k	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	—	30	13	k	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing	—	7	3	k	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing	1	19	8	g	D	D	D	D	D	D	D	D
3366	Ship and boat building	1	14	4	g	D	D	D	D	D	D	D	D
33661	Ship and boat building	1	14	4	g	D	D	D	D	D	D	D	D
336612	Boat building	—	6	2	g	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	3	60	17	g	D	D	D	D	D	D	D	D
3371	Household and institutional furniture and kitchen cabinet manufacturing	2	45	11	g	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing	1	33	6	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing ..	1	33	6	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	1	'110	21	'1 504	'63 263	'789	'1 513	'23 044	'131 145	'59 672	'194 097	'5 886
3391	Medical equipment and supplies manufacturing	1	57	10	836	43 295	369	723	11 895	87 526	35 211	123 806	3 764
33911	Medical equipment and supplies manufacturing	1	57	10	836	43 295	369	723	11 895	87 526	35 211	123 806	3 764
3399	Other miscellaneous manufacturing	3	'53	11	'668	'19 968	'420	'790	'11 149	'43 619	'24 461	'70 291	'2 122
SPOKANE													
31-33	Manufacturing	1	583	163	16 442	605 155	10 683	20 352	313 661	1 505 042	1 308 212	2 822 870	87 794
311	Food manufacturing	—	50	16	g	D	D	D	D	D	D	D	5 695
3118	Bakeries and tortilla manufacturing	—	18	5	621	20 852	267	499	6 724	65 568	29 426	94 933	1 872
31181	Bread and bakery product manufacturing	—	14	3	f	D	D	D	D	D	D	D	D
323	Printing and related support activities	1	65	8	572	17 660	406	672	10 426	46 746	21 428	68 186	2 606
3231	Printing and related support activities	1	65	8	572	17 660	406	672	10 426	46 746	21 428	68 186	2 606
32311	Printing	1	54	8	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	1	20	8	742	22 348	549	1 140	13 764	78 450	34 103	111 820	2 873
3261	Plastics product manufacturing ..	—	16	8	f	D	D	D	D	D	D	D	2 430
32619	Other plastics product manufacturing	—	12	7	605	17 706	448	939	10 975	68 298	23 950	91 636	2 348
326199	All other plastics product manufacturing	1	11	6	f	D	D	D	D	D	D	D	2 348

See footnotes at end of table.

Table 3. Industry Statistics for Counties: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
SPOKANE—Con.													
327	Nonmetallic mineral product manufacturing	1	20	9	746	23 884	566	1 097	17 101	73 481	48 662	121 250	6 769
3273	Cement and concrete product manufacturing	1	12	7	573	18 556	414	846	12 704	54 856	44 509	101 766	6 694
331	Primary metal manufacturing	—	11	9	g	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing	—	1	1	f	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	—	1	1	f	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, and foil manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
3315	Foundries	—	7	7	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries ...	—	2	2	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting)	—	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	2	112	28	1 842	58 859	1 344	2 482	36 506	176 123	101 493	275 222	8 723
3323	Architectural and structural metals manufacturing	2	46	13	1 063	34 250	771	1 338	19 635	111 100	71 127	179 528	6 463
33232	Ornamental and architectural metal products manufacturing	3	28	7	681	19 595	508	935	11 794	49 034	44 777	90 935	5 102
332322	Sheet metal work manufacturing	2	19	6	622	17 707	466	854	10 622	44 121	40 965	82 038	4 950
333	Machinery manufacturing	—	45	12	1 117	44 383	706	1 361	23 504	93 463	61 454	153 076	2 399
334	Computer and electronic product manufacturing	2	33	15	2 668	123 245	1 131	2 365	34 215	242 895	270 495	521 613	7 800
3341	Computer and peripheral equipment manufacturing	3	6	3	956	39 751	375	863	10 185	147 040	134 998	282 464	D
33411	Computer and peripheral equipment manufacturing	3	6	3	956	39 751	375	863	10 185	147 040	134 998	282 464	D
334119	Other computer peripheral equipment manufacturing ..	—	4	1	f	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing	—	7	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	1	10	6	701	35 675	248	470	8 808	34 146	73 111	106 448	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	1	10	6	701	35 675	248	470	8 808	34 146	73 111	106 448	D
335	Electrical equipment, appliance, and component manufacturing	2	7	4	800	24 899	615	1 073	15 299	43 340	45 059	88 521	1 499
3351	Electric lighting equipment manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing ..	—	1	1	f	D	D	D	D	D	D	D	D
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	2	32	13	g	D	D	D	D	D	D	D	5 886
3364	Aerospace product and parts manufacturing	—	5	3	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	—	5	3	f	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	1	35	5	772	20 052	626	1 095	12 699	45 537	31 948	76 910	3 315
3371	Household and institutional furniture and kitchen cabinet manufacturing	2	25	3	615	15 664	527	916	10 462	32 755	21 072	53 637	1 703
33711	Wood kitchen cabinet and countertop manufacturing	—	20	1	523	12 702	460	770	8 712	26 882	16 912	43 575	D
337110	Wood kitchen cabinet and countertop manufacturing ..	—	20	1	523	12 702	460	770	8 712	26 882	16 912	43 575	D
339	Miscellaneous manufacturing	3	76	12	733	23 144	508	940	12 768	43 044	30 280	74 232	2 172
STEVENS													
31-33	Manufacturing	1	48	11	1 612	57 904	1 325	2 573	43 359	102 762	241 524	341 153	7 164
321	Wood product manufacturing	—	14	6	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 3. Industry Statistics for Counties: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
THURSTON													
31-33	Manufacturing	2	174	32	3 121	115 048	2 455	4 788	83 443	300 144	444 894	742 749	26 409
312	Beverage and tobacco product manufacturing	5	5	3	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing	5	5	3	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	—	8	5	616	18 678	535	957	16 094	51 511	65 670	118 298	D
3261	Plastics product manufacturing ..	—	8	5	616	18 678	535	957	16 094	51 511	65 670	118 298	D
WALLA WALLA													
31-33	Manufacturing	1	88	11	1 661	71 835	1 191	2 354	45 354	236 007	236 928	473 934	26 418
322	Paper manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
WHATCOM													
31-33	Manufacturing	—	314	90	8 365	322 761	5 957	11 413	190 947	1 751 804	3 476 669	5 211 960	164 696
311	Food manufacturing	4	45	24	g	D	D	D	D	D	D	D	7 238
3117	Seafood product preparation and packaging	4	15	11	895	19 372	794	1 356	14 815	46 773	71 705	118 544	1 587
31171	Seafood product preparation and packaging	4	15	11	895	19 372	794	1 356	14 815	46 773	71 705	118 544	1 587
311712	Fresh and frozen seafood processing	4	14	11	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing	—	28	13	1 127	34 151	962	1 785	24 859	77 443	226 186	301 512	3 466
3219	Other wood product manufacturing	1	18	8	732	19 505	655	1 269	15 474	41 493	157 169	197 466	1 799
32191	Millwork	1	11	6	650	17 669	586	1 164	14 079	36 924	155 978	191 734	1 653
324	Petroleum and coal products manufacturing	—	5	3	f	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing	—	5	3	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries	—	2	2	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries	—	2	2	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing	—	6	1	f	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing	—	2	1	f	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ..	—	2	1	f	D	D	D	D	D	D	D	D
331312	Primary aluminum production	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	5	28	9	f	D	D	D	D	D	D	D	2 791
WHITMAN													
31-33	Manufacturing	—	26	2	736	37 820	325	676	9 409	101 259	30 996	131 966	D
334	Computer and electronic product manufacturing	—	6	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	—	4	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ..	—	4	2	f	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	—	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 3. Industry Statistics for Counties: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
YAKIMA													
31-33	Manufacturing	1	244	81	9 781	308 335	7 858	14 518	212 212	726 948	1 313 938	2 049 799	49 251
311	Food manufacturing	—	31	15	2 928	78 016	2 521	4 891	59 217	270 016	641 012	925 921	13 512
3114	Fruit and vegetable preserving and specialty food manufacturing	1	15	10	1 914	49 688	1 709	3 337	40 637	161 126	243 266	403 412	D
31142	Fruit and vegetable canning, pickling, and drying	1	13	9	g	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning ..	1	10	7	1 679	42 329	1 511	2 928	35 321	150 504	202 279	352 378	D
3116	Animal slaughtering and processing	—	4	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	—	4	1	f	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	—	3	1	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing	—	22	13	1 302	39 547	1 158	2 153	31 528	71 156	144 747	217 665	4 319
3219	Other wood product manufacturing	1	15	7	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	—	15	10	1 592	63 624	1 133	2 214	37 402	109 543	150 528	257 101	17 051
3261	Plastics product manufacturing ..	—	14	10	g	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
326113	Unlaminated plastics film and sheet (except packaging) manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	1	7	6	705	24 266	493	1 010	13 361	54 164	47 493	99 281	11 188
326199	All other plastics product manufacturing	1	7	6	705	24 266	493	1 010	13 361	54 164	47 493	99 281	11 188
332	Fabricated metal product manufacturing	—	36	7	738	19 214	582	794	13 300	47 188	56 930	100 778	2 571
333	Machinery manufacturing	3	35	10	840	34 325	553	887	19 371	52 150	63 584	118 562	2 585
336	Transportation equipment manufacturing	—	9	2	f	D	D	D	D	D	D	D	762
3362	Motor vehicle body and trailer manufacturing	—	5	2	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing	—	5	2	f	D	D	D	D	D	D	D	D
336213	Motor home manufacturing ..	—	2	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	4	32	7	506	12 255	377	643	7 409	30 324	14 821	44 878	1 539

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

²Includes establishments with payroll at any time during the year.

³Industries with 500 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 500 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: 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.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 4. Industry Statistics for Places: 2002

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
ANACORTES													
31-33	Manufacturing	-	32	14	g	D	D	D	D	D	D	D	43 120
ARLINGTON													
31-33	Manufacturing	2	84	29	2 803	110 706	1 913	4 020	62 333	238 743	199 599	437 331	16 234
332	Fabricated metal product manufacturing	-	33	11	f	D	D	D	D	D	D	D	2 546
336	Transportation equipment manufacturing	-	8	1	f	D	D	D	D	D	D	D	D
3366	Ship and boat building	-	1	1	f	D	D	D	D	D	D	D	D
33661	Ship and boat building	-	1	1	f	D	D	D	D	D	D	D	D
336612	Boat building	-	1	1	f	D	D	D	D	D	D	D	D
AUBURN													
31-33	Manufacturing	-	157	41	9 997	398 623	6 675	14 466	327 745	785 265	483 205	1 280 469	37 181
326	Plastics and rubber products manufacturing	-	9	6	942	28 330	767	1 367	19 508	65 364	55 289	120 176	4 032
3261	Plastics product manufacturing ..	-	8	6	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	-	5	4	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	-	4	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	-	46	7	711	21 402	559	1 149	14 102	52 017	17 634	70 163	1 722
336	Transportation equipment manufacturing	-	15	8	6 705	293 810	4 225	9 756	261 558	517 989	306 633	834 521	D
3364	Aerospace product and parts manufacturing	-	10	7	6 671	292 634	4 197	9 703	260 714	515 555	302 197	827 651	D
33641	Aerospace product and parts manufacturing	-	10	7	6 671	292 634	4 197	9 703	260 714	515 555	302 197	827 651	D
336413	Other aircraft parts and auxiliary equipment manufacturing	-	10	7	6 671	292 634	4 197	9 703	260 714	515 555	302 197	827 651	D
337	Furniture and related product manufacturing	-	17	5	622	20 567	446	903	12 472	62 384	32 175	95 197	D
BELLEVUE													
31-33	Manufacturing	4	124	26	2 071	81 327	1 182	2 259	37 322	206 832	356 206	565 950	11 687
311	Food manufacturing	9	18	5	f	D	D	D	D	D	D	D	D
BELLINGHAM													
31-33	Manufacturing	3	145	42	h	D	D	D	D	D	D	D	14 054
311	Food manufacturing	4	23	14	g	D	D	D	D	D	D	D	3 206
3117	Seafood product preparation and packaging	4	10	9	f	D	D	D	D	D	D	D	D
31171	Seafood product preparation and packaging	4	10	9	f	D	D	D	D	D	D	D	D
311712	Fresh and frozen seafood processing	4	9	9	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	6	15	6	f	D	D	D	D	D	D	D	D
BLAINE													
31-33	Manufacturing	-	15	5	f	D	D	D	D	D	D	D	D
BOTHELL													
31-33	Manufacturing	-	41	18	3 284	194 930	1 117	2 108	38 883	477 285	509 011	980 337	31 338
334	Computer and electronic product manufacturing	-	8	6	1 933	129 274	503	1 087	19 724	264 873	422 741	680 372	20 257
3345	Navigational, measuring, electromedical, and control instruments manufacturing	-	4	3	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ..	-	4	3	g	D	D	D	D	D	D	D	D
334510	Electromedical and electrotherapeutic apparatus manufacturing ..	-	3	3	g	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	1	12	5	f	D	D	D	D	D	D	D	3 330
BURLINGTON													
31-33	Manufacturing	5	31	10	869	26 904	634	1 231	17 293	74 595	55 271	130 562	2 562

See footnotes at end of table.

Table 4. Industry Statistics for Places: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
CAMAS													
31-33	Manufacturing	-	19	7	2 873	143 304	1 791	3 703	84 390	453 599	331 061	783 850	44 199
322	Paper manufacturing	-	1	1	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	-	4	2	g	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing	-	2	2	g	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing	-	2	2	g	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing	-	2	2	g	D	D	D	D	D	D	D	D
CHEHALIS													
31-33	Manufacturing	1	26	5	704	23 169	551	1 093	16 286	84 363	160 031	247 120	20 100
COLVILLE													
31-33	Manufacturing	5	12	4	f	D	D	D	D	D	D	D	858
EVERETT													
31-33	Manufacturing	-	138	54	33 294	1 770 378	14 395	33 018	895 955	7 020 172	8 100 866	15 815 985	118 877
321	Wood product manufacturing	-	10	7	f	D	D	D	D	D	D	D	3 588
322	Paper manufacturing	-	3	3	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	1	27	13	g	D	D	D	D	D	D	D	4 991
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	-	9	5	f	D	D	D	D	D	D	D	D
33271	Machine shops	-	8	5	f	D	D	D	D	D	D	D	4 571
332710	Machine shops	-	8	5	f	D	D	D	D	D	D	D	4 571
334	Computer and electronic product manufacturing	-	7	2	g	D	D	D	D	D	D	D	D
3341	Computer and peripheral equipment manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	-	3	1	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing	-	3	1	g	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	-	2	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	-	18	7	k	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing	-	7	4	k	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	-	7	4	k	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing	-	4	3	k	D	D	D	D	D	D	D	D
FERNDALE													
31-33	Manufacturing	2	21	9	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 4. Industry Statistics for Places: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
FIFE													
31-33	Manufacturing	1	38	18	2 575	83 580	2 040	3 925	57 517	275 938	214 460	491 413	11 519
311	Food manufacturing	5	5	3	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	—	6	5	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	—	6	5	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing	—	5	4	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing	—	5	4	f	D	D	D	D	D	D	D	D
HOQUIAM													
31-33	Manufacturing	1	14	4	f	D	D	D	D	D	D	D	2 038
ISSAQUAH													
31-33	Manufacturing	4	37	11	2 195	133 530	639	1 291	24 952	256 783	219 755	468 476	7 180
334	Computer and electronic product manufacturing	4	12	6	1 849	120 449	416	891	17 986	233 107	170 290	395 962	6 431
3345	Navigational, measuring, electromedical, and control instruments manufacturing	4	8	5	1 803	118 582	382	822	16 927	228 191	166 610	387 366	6 226
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	4	8	5	1 803	118 582	382	822	16 927	228 191	166 610	387 366	6 226
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	5	2	2	g	D	D	D	D	D	D	D	D
KENNEWICK													
31-33	Manufacturing	1	40	7	523	18 321	353	555	9 458	84 592	62 744	146 799	D
KENT													
31-33	Manufacturing	1	285	121	15 402	894 494	9 174	18 588	306 932	1 333 618	1 259 286	2 990 269	78 983
311	Food manufacturing	2	21	17	2 207	74 806	1 731	3 672	50 206	379 988	294 678	666 402	24 184
3116	Animal slaughtering and processing	—	2	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	—	2	2	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	—	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing	1	9	7	807	24 932	592	1 189	15 075	122 068	92 727	217 645	3 705
322	Paper manufacturing	—	5	3	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	—	4	3	f	D	D	D	D	D	D	D	D
323	Printing and related support activities	2	29	12	996	35 756	789	1 430	23 773	81 729	41 488	123 882	4 178
3231	Printing and related support activities	2	29	12	996	35 756	789	1 430	23 773	81 729	41 488	123 882	4 178
32311	Printing	2	26	10	921	32 531	729	1 304	21 433	77 487	40 391	118 544	3 937
323110	Commercial lithographic printing	4	11	5	511	18 910	416	711	11 957	43 153	26 053	69 893	3 361
326	Plastics and rubber products manufacturing	—	15	10	1 155	43 436	936	1 947	30 247	115 775	92 826	209 569	8 938
3261	Plastics product manufacturing ..	—	14	10	g	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
326121	Unlaminated plastics profile shape manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	2	82	21	1 540	61 064	1 142	2 173	40 090	156 776	145 328	305 639	7 819
333	Machinery manufacturing	2	28	13	1 129	52 492	566	1 125	18 424	134 549	79 586	210 724	8 397
3335	Metalworking machinery manufacturing	1	7	5	624	33 246	281	503	10 151	87 650	39 638	125 188	D
33351	Metalworking machinery manufacturing	1	7	5	624	33 246	281	503	10 151	87 650	39 638	125 188	D
333515	Cutting tool and machine tool accessory manufacturing ...	2	2	2	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 4. Industry Statistics for Places: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
KENT—Con.													
334	Computer and electronic product manufacturing	—	'12	'8	'4 232	'465 011	'1 199	'2 415	'46 495	'136 393	'300 884	'837 597	'9 059
3345	Navigational, measuring, electromedical, and control instruments manufacturing	—	3	2	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	3	2	h	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	—	1	1	h	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	2	17	8	g	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing	2	11	6	g	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	2	11	6	g	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing	2	10	6	1 273	60 835	746	1 646	38 328	101 509	76 887	185 048	D
339	Miscellaneous manufacturing	4	'21	'8	f	D	D	D	D	D	D	D	'1 003
KIRKLAND													
31-33	Manufacturing	2	70	18	g	D	D	D	D	D	D	D	3 831
LAKEWOOD													
31-33	Manufacturing	1	43	8	841	26 823	653	1 252	19 645	31 474	51 255	82 769	2 022
LIBERTY LAKE													
31-33	Manufacturing	—	12	8	1 346	66 076	635	1 260	17 961	73 169	107 837	188 353	2 492
334	Computer and electronic product manufacturing	—	6	5	f	D	D	D	D	D	D	D	D
LONGVIEW													
31-33	Manufacturing	—	45	18	3 467	174 055	2 654	5 193	125 362	313 456	783 001	1 101 768	49 750
321	Wood product manufacturing	—	6	4	f	D	D	D	D	D	D	D	D
3211	Sawmills and wood preservation	—	3	3	553	24 045	502	1 166	20 529	45 401	112 917	159 775	D
32111	Sawmills and wood preservation	—	3	3	553	24 045	502	1 166	20 529	45 401	112 917	159 775	D
321113	Sawmills	—	3	3	553	24 045	502	1 166	20 529	45 401	112 917	159 775	D
322	Paper manufacturing	—	7	7	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills	—	3	3	g	D	D	D	D	D	D	D	D
32212	Paper mills	—	2	2	f	D	D	D	D	D	D	D	D
32213	Paperboard mills	—	1	1	g	D	D	D	D	D	D	D	D
322130	Paperboard mills	—	1	1	g	D	D	D	D	D	D	D	D
LYNNWOOD													
31-33	Manufacturing	5	52	13	904	33 738	583	990	17 885	77 308	65 683	143 635	2 586
MARYSVILLE													
31-33	Manufacturing	3	70	15	1 384	54 986	982	1 916	34 915	113 313	129 795	244 020	5 834
MONROE													
31-33	Manufacturing	1	55	15	1 317	40 608	965	2 002	27 841	81 431	60 582	142 146	3 461
MOSES LAKE													
31-33	Manufacturing	—	20	7	740	24 184	605	1 192	17 207	88 999	91 076	181 602	7 214
MOUNT VERNON													
31-33	Manufacturing	1	28	4	614	16 239	478	1 084	12 469	48 924	52 883	100 710	1 082
MUKILTEO													
31-33	Manufacturing	3	67	23	1 803	70 536	1 163	2 316	34 770	180 078	99 691	251 678	6 227
OLYMPIA													
31-33	Manufacturing	3	41	11	g	D	D	D	D	D	D	D	7 214

See footnotes at end of table.

Table 4. Industry Statistics for Places: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
OTHELLO													
31-33	Manufacturing	5	7	4	1 342	37 213	1 229	2 521	33 563	224 603	219 419	444 004	8 662
311	Food manufacturing	5	5	4	g	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	5	4	4	g	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing	5	3	3	g	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	5	3	3	g	D	D	D	D	D	D	D	D
PORT ANGELES													
31-33	Manufacturing	3	21	8	739	31 097	592	1 155	22 101	88 062	95 488	184 912	8 058
PORT TOWNSEND													
31-33	Manufacturing	-	30	3	532	18 386	373	757	13 950	73 349	68 016	140 794	D
POULSBO													
31-33	Manufacturing	8	17	3	554	22 602	252	445	5 827	56 802	28 462	85 243	1 544
PROSSER													
31-33	Manufacturing	-	17	5	718	25 095	623	1 373	20 308	70 996	88 478	166 881	4 804
311	Food manufacturing	-	5	3	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	-	3	2	f	D	D	D	D	D	D	D	2 347
PULLMAN													
31-33	Manufacturing	-	13	2	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	-	6	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	-	4	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	4	2	f	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	-	1	1	f	D	D	D	D	D	D	D	D
PUYALLUP													
31-33	Manufacturing	1	42	12	727	24 900	538	980	14 577	66 092	57 392	121 393	5 788
QUINCY													
31-33	Manufacturing	4	7	3	g	D	D	D	D	D	D	D	D
311	Food manufacturing	4	5	3	g	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	4	3	3	g	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing	4	3	3	g	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	4	3	3	g	D	D	D	D	D	D	D	D
REDMOND													
31-33	Manufacturing	1	177	63	8 394	416 018	4 812	9 788	184 654	1 190 240	1 068 347	2 264 588	54 099
333	Machinery manufacturing	-	13	5	g	D	D	D	D	D	D	D	2 772
3339	Other general purpose machinery manufacturing	-	4	2	g	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing	-	2	1	g	D	D	D	D	D	D	D	D
333923	Overhead traveling crane, hoist, and monorail system manufacturing	-	2	1	g	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 4. Industry Statistics for Places: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
REDMOND—Con.													
334	Computer and electronic product manufacturing	-	'37	27	'4 068	'233 493	'1 649	'3 392	'63 368	'725 394	'597 325	'1 315 278	'30 650
3342	Communications equipment manufacturing	-	8	6	f	D	D	D	D	D	D	D	1 560
3344	Semiconductor and other electronic component manufacturing	-	11	8	1 019	43 919	560	1 146	21 364	101 223	43 050	146 996	5 501
33441	Semiconductor and other electronic component manufacturing	-	11	8	1 019	43 919	560	1 146	21 364	101 223	43 050	146 996	5 501
3345	Navigational, measuring, electromedical, and control instruments manufacturing	-	14	10	2 078	142 297	656	1 319	28 554	514 757	439 870	946 333	21 014
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	14	10	2 078	142 297	656	1 319	28 554	514 757	439 870	946 333	21 014
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	-	3	2	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	-	4	4	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing	6	26	7	773	25 450	496	987	10 923	47 606	57 133	102 605	5 050
3399	Other miscellaneous manufacturing	7	14	4	620	17 753	419	837	8 631	30 750	50 925	80 780	1 716
33992	Sporting and athletic goods manufacturing	7	5	3	537	15 406	355	738	7 235	25 090	46 728	70 906	1 197
339920	Sporting and athletic goods manufacturing	7	5	3	537	15 406	355	738	7 235	25 090	46 728	70 906	1 197
RENTON													
31-33	Manufacturing	-	64	23	j	D	D	D	D	D	D	D	55 091
322	Paper manufacturing	-	4	4	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	-	4	4	f	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing	-	4	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	-	9	5	j	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing	-	5	4	j	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	-	5	4	j	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing	-	2	1	j	D	D	D	D	D	D	D	D
RICHLAND													
31-33	Manufacturing	-	33	4	1 450	75 514	956	2 110	34 041	145 800	176 927	322 801	11 453
311	Food manufacturing	-	7	2	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
3251	Basic chemical manufacturing ...	-	1	1	f	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical manufacturing	-	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

Table 4. Industry Statistics for Places: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
SEATTLE													
31-33	Manufacturing	2	1 031	269	27 699	1 014 697	18 754	35 364	584 377	2 695 990	2 090 024	4 717 070	151 763
311	Food manufacturing	2	159	62	8 431	252 288	5 979	10 517	156 402	940 740	780 750	1 653 146	76 782
3117	Seafood product preparation and packaging	1	30	24	4 301	113 271	3 763	6 427	90 625	399 743	474 865	874 634	64 451
31171	Seafood product preparation and packaging	1	30	24	4 301	113 271	3 763	6 427	90 625	399 743	474 865	874 634	64 451
311712	Fresh and frozen seafood processing	2	24	22	h	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing	2	60	14	2 560	85 667	1 124	1 991	33 838	302 646	161 482	464 319	6 292
31181	Bread and bakery product manufacturing	1	53	11	g	D	D	D	D	D	D	D	5 667
311812	Commercial bakeries	1	21	6	1 996	72 782	794	1 477	26 459	267 182	95 225	362 651	5 202
3119	Other food manufacturing	5	34	9	711	24 175	501	1 039	15 169	58 437	56 495	115 481	4 288
314	Textile product mills	1	33	10	767	27 167	474	818	12 363	54 576	43 804	99 444	1 237
3149	Other textile product mills	1	28	7	674	24 836	411	713	11 489	50 332	39 485	90 889	D
315	Apparel manufacturing	1	42	12	f	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing	2	34	10	f	D	D	D	D	D	D	D	D
322	Paper manufacturing	3	11	6	622	19 921	447	884	11 588	43 512	44 617	88 468	1 576
3222	Converted paper product manufacturing	3	11	6	622	19 921	447	884	11 588	43 512	44 617	88 468	1 576
323	Printing and related support activities	1	167	29	2 197	81 091	1 505	2 525	47 103	166 762	91 250	259 451	11 259
3231	Printing and related support activities	1	167	29	2 197	81 091	1 505	2 525	47 103	166 762	91 250	259 451	11 259
32311	Printing	1	150	27	2 001	71 971	1 349	2 216	40 468	149 558	88 999	239 999	10 933
323110	Commercial lithographic printing	-	69	19	1 292	47 849	860	1 394	26 332	96 736	70 602	168 633	8 905
325	Chemical manufacturing	2	31	8	508	24 091	281	566	11 275	69 350	60 139	128 809	4 700
326	Plastics and rubber products manufacturing	2	24	8	606	19 580	455	946	12 539	46 113	31 500	78 653	1 523
3261	Plastics product manufacturing ..	3	22	7	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing	1	47	10	1 471	61 883	1 186	2 360	46 335	226 962	181 412	404 772	11 349
3272	Glass and glass product manufacturing	-	24	3	804	31 788	664	1 340	24 955	123 686	70 767	194 236	6 272
32721	Glass and glass product manufacturing	-	24	3	804	31 788	664	1 340	24 955	123 686	70 767	194 236	6 272
3273	Cement and concrete product manufacturing	2	9	5	501	23 076	392	836	16 770	68 146	78 904	143 642	3 972
331	Primary metal manufacturing	-	14	8	f	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
331111	Iron and steel mills	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	2	117	26	2 121	80 104	1 554	2 810	48 672	147 780	90 025	234 412	4 518
3323	Architectural and structural metals manufacturing	4	39	9	561	20 798	395	750	11 836	36 903	29 507	66 979	1 185
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	-	35	5	542	23 259	412	808	16 066	41 989	10 126	54 139	1 232
333	Machinery manufacturing	3	49	13	1 102	52 187	668	1 329	26 841	110 101	74 886	184 691	2 212

See footnotes at end of table.

Table 4. Industry Statistics for Places: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E1	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
SEATTLE—Con.													
334	Computer and electronic product manufacturing	1	48	11	2 349	97 164	929	1 841	31 295	149 368	136 341	290 921	9 644
3341	Computer and peripheral equipment manufacturing	—	6	1	f	D	D	D	D	D	D	D	1 965
33411	Computer and peripheral equipment manufacturing	—	6	1	f	D	D	D	D	D	D	D	1 965
334111	Electronic computer manufacturing	—	2	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing	—	11	4	g	D	D	D	D	D	D	D	3 767
33441	Semiconductor and other electronic component manufacturing	—	11	4	g	D	D	D	D	D	D	D	3 767
334419	Other electronic component manufacturing	—	8	3	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	3	46	19	2 542	119 157	1 936	4 218	83 568	257 511	130 844	391 557	5 957
3364	Aerospace product and parts manufacturing	4	10	4	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	4	10	4	f	D	D	D	D	D	D	D	D
3366	Ship and boat building	2	24	11	g	D	D	D	D	D	D	D	3 863
33661	Ship and boat building	2	24	11	g	D	D	D	D	D	D	D	3 863
336611	Ship building and repairing ..	2	15	7	g	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	2	74	11	f	D	D	D	D	D	D	D	1 355
339	Miscellaneous manufacturing	2	111	25	1 452	56 952	909	1 666	25 171	182 032	84 209	264 977	6 234
3399	Other miscellaneous manufacturing	3	79	17	1 052	40 239	628	1 129	16 811	80 341	45 506	124 331	2 127
SELAH													
31-33	Manufacturing	—	5	4	f	D	D	D	D	D	D	D	D
311	Food manufacturing	—	4	3	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	—	3	3	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying	—	3	3	f	D	D	D	D	D	D	D	D
SHELTON													
31-33	Manufacturing	1	17	3	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing	—	5	2	f	D	D	D	D	D	D	D	D
SPOKANE													
31-33	Manufacturing	1	280	66	6 112	212 910	3 866	7 550	113 583	621 397	486 174	1 094 883	30 466
311	Food manufacturing	—	25	11	939	32 715	491	996	14 060	110 642	121 390	231 302	4 043
3118	Bakeries and tortilla manufacturing	—	12	5	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	1	8	3	664	24 243	361	857	9 682	122 978	90 769	214 282	D
3341	Computer and peripheral equipment manufacturing	1	3	2	f	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing	1	3	2	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	—	2	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing	1	20	9	g	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing	—	4	3	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	—	4	3	f	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
SUMNER													
31-33	Manufacturing	1	25	12	1 021	30 467	815	1 556	22 060	76 715	72 111	151 752	11 345
SUNNYSIDE													
31-33	Manufacturing	—	20	8	906	26 075	642	1 175	15 247	81 363	200 071	284 252	6 226

See footnotes at end of table.

Table 4. Industry Statistics for Places: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS code	Geographic area and industry	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
TACOMA													
31-33	Manufacturing	1	254	101	9 286	354 710	6 928	13 478	223 983	920 580	1 283 304	2 195 870	60 522
311	Food manufacturing	4	21	8	962	27 487	721	1 325	15 418	132 616	135 025	268 160	4 590
321	Wood product manufacturing	—	30	18	1 805	64 302	1 459	2 724	44 747	130 596	266 002	397 304	13 101
3211	Sawmills and wood preservation .	—	11	9	g	D	D	D	D	D	D	D	D
32111	Sawmills and wood preservation	—	11	9	g	D	D	D	D	D	D	D	D
321113	Sawmills	—	10	8	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing	1	16	8	610	16 181	534	955	12 505	33 223	39 748	71 998	2 101
32191	Millwork	—	11	6	528	13 931	464	840	10 744	29 833	33 967	63 040	1 976
322	Paper manufacturing	—	6	5	783	39 467	570	1 023	25 936	122 978	164 840	282 635	D
3221	Pulp, paper, and paperboard mills	—	2	2	f	D	D	D	D	D	D	D	D
32213	Paperboard mills	—	2	2	f	D	D	D	D	D	D	D	D
322130	Paperboard mills	—	2	2	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing	3	17	14	1 028	37 198	776	1 434	21 997	85 700	88 458	172 171	5 010
3261	Plastics product manufacturing ..	3	16	14	g	D	D	D	D	D	D	D	5 010
32619	Other plastics product manufacturing	4	5	4	566	22 040	396	768	11 619	42 048	36 015	77 936	D
326199	All other plastics product manufacturing	4	5	4	566	22 040	396	768	11 619	42 048	36 015	77 936	D
327	Nonmetallic mineral product manufacturing	1	17	9	f	D	D	D	D	D	D	D	9 165
331	Primary metal manufacturing	1	5	4	f	D	D	D	D	D	D	D	D
3315	Foundries	1	4	3	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	1	3	3	f	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	1	3	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	5	41	12	f	D	D	D	D	D	D	D	1 430
337	Furniture and related product manufacturing	2	16	5	514	14 660	424	889	10 895	23 745	13 625	37 325	D
TUKWILA													
31-33	Manufacturing	2	87	32	2 357	90 797	1 670	3 324	54 826	204 538	190 966	398 958	11 601
TUMWATER													
31-33	Manufacturing	—	34	9	1 035	34 385	860	1 688	26 960	93 101	203 031	295 707	17 064
UNION GAP													
31-33	Manufacturing	—	28	10	1 056	32 645	777	1 342	21 374	68 006	82 925	151 145	4 472
VANCOUVER													
31-33	Manufacturing	1	191	59	7 841	315 682	5 504	11 277	189 352	900 640	968 281	1 878 523	53 820
311	Food manufacturing	—	18	7	1 029	33 189	705	1 301	18 535	214 282	131 859	345 724	D
3119	Other food manufacturing	—	7	1	f	D	D	D	D	D	D	D	D
31191	Snack food manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
311919	Other snack food manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
322	Paper manufacturing	—	7	5	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing	—	7	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	2	28	5	548	20 677	432	882	15 557	31 996	41 374	72 629	4 837
333	Machinery manufacturing	—	17	9	1 081	51 582	546	1 019	19 872	85 197	50 550	134 504	4 353
3332	Industrial machinery manufacturing	—	8	4	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing	—	4	3	f	D	D	D	D	D	D	D	D

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Table 4. Industry Statistics for Places: 2002—Con.

[Includes data for industry groups and industries with 500 employees or more. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
VANCOUVER—Con.													
334	Computer and electronic product manufacturing	2	14	8	2 625	121 871	1 870	4 273	79 491	313 246	493 914	812 728	16 157
3344	Semiconductor and other electronic component manufacturing	1	9	5	g	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing	1	9	5	g	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing	—	2	2	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing	9	1	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	9	1	1	f	D	D	D	D	D	D	D	D
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	9	1	1	f	D	D	D	D	D	D	D	D
WALLA WALLA													
31-33	Manufacturing	3	65	6	f	D	D	D	D	D	D	D	D
WASHOUGAL													
31-33	Manufacturing	1	30	16	1 024	37 691	790	1 598	24 237	88 008	121 634	201 276	8 864
WOODINVILLE													
31-33	Manufacturing	1	102	36	3 434	123 327	2 085	3 842	59 711	464 989	423 055	849 379	47 632
312	Beverage and tobacco product manufacturing	—	6	3	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing	—	6	3	f	D	D	D	D	D	D	D	D
31213	Wineries	—	4	2	f	D	D	D	D	D	D	D	D
312130	Wineries	—	4	2	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing	8	10	5	681	19 210	462	573	6 944	41 256	74 218	120 577	3 005
3343	Audio and video equipment manufacturing	9	1	1	f	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing	9	1	1	f	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing	9	1	1	f	D	D	D	D	D	D	D	D
WOODLAND													
31-33	Manufacturing	—	21	11	747	25 697	544	1 026	15 636	72 200	68 096	140 558	1 428
YAKIMA													
31-33	Manufacturing	1	110	31	3 728	132 838	2 862	5 520	85 500	253 017	384 660	636 361	22 686
326	Plastics and rubber products manufacturing	—	8	4	858	38 547	599	1 356	22 716	54 473	87 490	140 907	D
3261	Plastics product manufacturing ..	—	7	4	f	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
326113	Unlaminated plastics film and sheet (except packaging) manufacturing	—	1	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing	3	16	7	638	28 812	429	678	16 080	39 821	48 259	90 916	1 386
336	Transportation equipment manufacturing	—	5	2	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing	—	3	2	f	D	D	D	D	D	D	D	D
336213	Motor home manufacturing ..	—	2	2	f	D	D	D	D	D	D	D	D
BALANCE OF BENTON COUNTY													
31-33	Manufacturing	—	21	8	957	39 366	586	1 153	20 815	137 871	120 909	237 637	6 850
BALANCE OF CHELAN COUNTY													
31-33	Manufacturing	5	40	9	1 184	39 802	687	1 496	21 698	91 002	176 385	271 584	D
331	Primary metal manufacturing	8	4	3	f	D	D	D	D	D	D	D	D
BALANCE OF CLARK COUNTY													
31-33	Manufacturing	2	195	38	2 524	91 570	1 778	3 338	51 605	216 839	203 588	418 977	12 910

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Table 4. Industry Statistics for Places: 2002—Con.

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
BALANCE OF COWLITZ COUNTY													
31-33	Manufacturing	-	46	12	2 149	118 178	1 557	3 510	82 356	325 168	518 774	826 372	52 263
322	Paper manufacturing	-	2	2	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills	-	2	2	f	D	D	D	D	D	D	D	D
32213	Paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
BALANCE OF FRANKLIN COUNTY													
31-33	Manufacturing	7	14	5	h	D	D	D	D	D	D	D	14 269
311	Food manufacturing	7	8	5	h	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	1	3	3	g	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing	1	3	3	g	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	1	3	3	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing	9	3	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	9	3	1	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	9	3	1	g	D	D	D	D	D	D	D	D
BALANCE OF GRANT COUNTY													
31-33	Manufacturing	2	28	12	1 571	54 640	1 290	2 541	37 371	112 341	154 051	283 729	14 918
311	Food manufacturing	5	9	5	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	4	4	3	f	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing	4	3	3	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	4	3	3	f	D	D	D	D	D	D	D	D
BALANCE OF GRAYS HARBOR COUNTY													
31-33	Manufacturing	-	51	14	1 812	73 099	1 531	2 889	54 830	181 097	208 130	385 969	8 239
321	Wood product manufacturing	1	23	7	f	D	D	D	D	D	D	D	1 847
3219	Other wood product manufacturing	-	8	3	f	D	D	D	D	D	D	D	D
BALANCE OF ISLAND COUNTY													
31-33	Manufacturing	5	45	7	f	D	D	D	D	D	D	D	D
BALANCE OF KING COUNTY													
31-33	Manufacturing	3	217	38	3 771	146 693	2 717	5 194	83 896	542 066	372 326	914 441	28 978
332	Fabricated metal product manufacturing	5	56	10	701	27 214	507	1 030	17 569	60 351	47 871	108 561	3 354
335	Electrical equipment, appliance, and component manufacturing	-	5	2	f	D	D	D	D	D	D	D	D
BALANCE OF KITSAP COUNTY													
31-33	Manufacturing	2	97	9	1 131	33 214	712	1 285	18 569	71 716	42 801	114 799	3 536
BALANCE OF KLUCKITAT COUNTY													
31-33	Manufacturing	-	18	2	f	D	D	D	D	D	D	D	D
BALANCE OF LEWIS COUNTY													
31-33	Manufacturing	-	59	18	1 610	62 084	1 348	2 978	49 404	166 422	217 165	375 407	12 221
321	Wood product manufacturing	-	15	9	g	D	D	D	D	D	D	D	D
3211	Sawmills and wood preservation .	-	8	4	f	D	D	D	D	D	D	D	D
32111	Sawmills and wood preservation	-	8	4	f	D	D	D	D	D	D	D	D
321113	Sawmills	-	8	4	f	D	D	D	D	D	D	D	D
BALANCE OF MASON COUNTY													
31-33	Manufacturing	-	33	10	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
BALANCE OF PACIFIC COUNTY													
31-33	Manufacturing	2	35	7	f	D	D	D	D	D	D	D	917
BALANCE OF PIERCE COUNTY													
31-33	Manufacturing	1	189	42	4 447	173 542	3 204	5 889	106 122	355 664	407 897	767 369	15 584
336	Transportation equipment manufacturing	-	8	1	g	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing	-	2	1	g	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	-	2	1	g	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing	-	2	1	g	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	1	22	7	513	18 128	356	745	9 900	38 546	22 553	60 809	737
BALANCE OF SKAGIT COUNTY													
31-33	Manufacturing	-	77	24	2 110	86 713	1 604	3 146	58 067	409 778	1 420 109	1 798 574	70 990
BALANCE OF SNOHOMISH COUNTY													
31-33	Manufacturing	1	257	51	4 931	185 759	3 447	7 001	103 087	377 799	338 743	729 295	34 893
321	Wood product manufacturing	1	26	8	632	21 375	532	1 050	17 408	44 024	84 521	127 030	18 705
326	Plastics and rubber products manufacturing	2	5	3	f	D	D	D	D	D	D	D	918
3261	Plastics product manufacturing ..	2	4	3	f	D	D	D	D	D	D	D	918
332	Fabricated metal product manufacturing	1	60	13	964	34 775	720	1 439	23 090	46 999	58 916	109 124	1 734
3323	Architectural and structural metals manufacturing	2	18	7	f	D	D	D	D	D	D	D	856
33232	Ornamental and architectural metal products manufacturing	2	15	6	516	16 388	390	790	10 696	19 192	31 786	50 779	827
336	Transportation equipment manufacturing	-	13	6	g	D	D	D	D	D	D	D	3 865
3364	Aerospace product and parts manufacturing	-	7	5	g	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing	-	7	5	g	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing	-	5	4	f	D	D	D	D	D	D	D	D
BALANCE OF SPOKANE COUNTY													
31-33	Manufacturing	2	267	81	8 332	302 658	5 736	10 771	167 850	720 934	654 356	1 389 753	51 099
327	Nonmetallic mineral product manufacturing	-	9	7	541	18 382	435	825	12 918	53 620	37 443	90 542	D
331	Primary metal manufacturing	-	10	8	1 523	72 221	1 063	2 087	41 614	156 203	163 808	337 715	23 164
3313	Alumina and aluminum production and processing	-	1	1	f	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ..	-	1	1	f	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, and foil manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing	3	55	16	941	29 940	705	1 421	19 852	75 974	50 509	123 614	5 595
333	Machinery manufacturing	-	19	9	740	30 183	462	899	15 599	60 164	35 961	96 588	1 904
334	Computer and electronic product manufacturing	6	18	7	1 070	44 898	450	858	13 690	69 259	89 877	159 634	4 335
335	Electrical equipment, appliance, and component manufacturing	2	3	3	f	D	D	D	D	D	D	D	D
3351	Electric lighting equipment manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	-	13	2	585	14 451	485	822	9 300	31 490	21 808	53 075	D

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		E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ⁴	Hours (1,000)					Wages (\$1,000)
BALANCE OF STEVENS COUNTY													
31-33	Manufacturing	-	36	7	g	D	D	D	D	D	D	6 306	
321	Wood product manufacturing	-	11	6	f	D	D	D	D	D	D	D	
BALANCE OF THURSTON COUNTY													
31-33	Manufacturing	5	79	7	f	D	D	D	D	D	D	768	
BALANCE OF WALLA WALLA COUNTY													
31-33	Manufacturing	-	19	5	f	D	D	D	D	D	D	D	
322	Paper manufacturing	-	2	2	f	D	D	D	D	D	D	D	
BALANCE OF WHATCOM COUNTY													
31-33	Manufacturing	-	122	30	3 160	123 220	2 066	3 984	68 319	242 134	1 399 952	1 680 197	D
321	Wood product manufacturing	-	16	7	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing	-	3	1	f	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing	-	1	1	f	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	-	1	1	f	D	D	D	D	D	D	D	D
331312	Primary aluminum production.....	-	1	1	f	D	D	D	D	D	D	D	D
BALANCE OF YAKIMA COUNTY													
31-33	Manufacturing	1	70	23	2 761	78 853	2 396	4 352	59 740	210 608	441 892	661 567	10 390
311	Food manufacturing	1	9	3	1 182	26 753	1 090	2 009	23 006	101 510	284 604	399 542	D
3116	Animal slaughtering and processing	-	3	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing	-	3	1	f	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	-	3	1	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing	-	10	8	828	26 334	742	1 389	21 508	49 196	89 094	141 177	3 700

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

²Includes establishments with payroll at any time during the year.

³Industries with 500 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 500 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: 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.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 5. Detailed Statistics for the State: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
WASHINGTON	
Companies ¹	number.. N
All establishments ²	number.. 7 535
Establishments with 1 to 19 employees	number.. 5 558
Establishments with 20 to 99 employees	number.. 1 479
Establishments with 100 employees or more	number.. 498
All employees ³	number.. 265 010
Total compensation	\$1,000.. '14 405 153
Annual payroll	\$1,000.. '11 163 873
Total fringe benefits	\$1,000.. '3 241 280
Production workers, average for year	number.. '167 547
Production workers on March 12	number.. '168 011
Production workers on May 12	number.. '168 942
Production workers on August 12	number.. '168 807
Production workers on November 12	number.. '164 084
Production worker hours 1,000.. 333 981
Production worker wages	\$1,000.. '6 038 160
Total cost of materials	\$1,000.. 42 418 619
Materials, parts, containers, packaging, etc., used	\$1,000.. 38 404 849
Resales	\$1,000.. 2 015 673
Purchased fuels	\$1,000.. 541 373
Purchased electricity	\$1,000.. 920 653
Contract work	\$1,000.. 536 071
Quantity of electricity purchased for heat and power	1,000 kWh.. 24 291 346
Quantity of electricity generated less sold for heat and power	1,000 kWh.. -1 231 369
Total value of shipments	\$1,000.. 79 313 884
Value of resales	\$1,000.. 2 479 642
Value added	\$1,000.. 35 398 551
Total inventories, beginning of year	\$1,000.. 18 548 578
Finished goods inventories	\$1,000.. 3 832 089
Work-in-process inventories	\$1,000.. 11 592 553
Materials and supplies inventories	\$1,000.. 3 123 936
Total inventories, end of year	\$1,000.. 16 790 676
Finished goods inventories	\$1,000.. 3 685 776
Work-in-process inventories	\$1,000.. 10 160 955
Materials and supplies inventories	\$1,000.. 2 943 945
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. 33 856 793
Total capital expenditures (new and used)	\$1,000.. 1 769 708
Buildings and other structures (new and used)	\$1,000.. 265 346
Machinery and equipment (new and used)	\$1,000.. 1 504 362
Automobiles, trucks, etc., for highway use	\$1,000.. 49 980
Computers and peripheral data processing equipment	\$1,000.. 122 677
All other expenditures for machinery and equipment	\$1,000.. 1 331 705
Total retirements	\$1,000.. 1 112 274
Gross value of depreciable assets at end of year	\$1,000.. 34 514 227
Depreciation charges during year	\$1,000.. 1 982 063
Total rental payments	\$1,000.. 954 623
Buildings and other structures	\$1,000.. 445 880
Machinery and equipment	\$1,000.. 508 743

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

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Appendix A.

Explanation of Terms

COMPANY

A company or “enterprise” is comprised of all the establishments that operate under the ownership or control of a single organization. A company may be a business, service, or membership organization; consist of one or several establishments; and operate at one or several locations. It includes all subsidiary organizations, all establishments that are majority-owned by the company or any subsidiary, and all the establishments that can be directed or managed by the company or any subsidiary.

A company may have one or many establishments. Examples include product and service sales offices (retail and wholesale), industrial production plants, processing or assembly operations, mines or well sites, and support operations (such as an administrative office, warehouse, customer service center, or regional headquarters). Each establishment should receive, complete, and return a separate census form.

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.

Establishment

An establishment is a single physical location where business is conducted or where services or industrial operations are performed. Data in this sector includes those establishments where manufacturing is performed. A separate report was required for each manufacturing establishment (plant) with one employee or more that was in operation at any time during the year.

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).

TOTAL FRINGE BENEFITS

This item is the employer's costs for social security tax, unemployment tax, workmen's compensation insurance, state disability insurance pension plans, stock purchase plans, union-negotiated benefits, life insurance premiums, and insurance premiums on hospital and medical plans for employees.

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

NUMBER OF 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 that included the 12th of the months specified on the report form. Included are employees on paid sick leave, paid holidays, and paid vacations; not included are proprietors and partners of unincorporated businesses.

These individuals consist of all full-time and part-time employees who are on the payrolls of establishments who worked or received pay for any part of the pay period including the 12th of March, May, August, and November.

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

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

All Other Employees

The "other employees" 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.

PRODUCTION-WORKER HOURS

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

COST OF MATERIALS

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

Included in this item are:

1. Cost of parts, components, containers, etc. Includes all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year.
2. Cost of products bought and sold in the same condition.
3. Cost of fuels consumed for heat and power. Includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.
4. Cost of purchased electricity. The cost of purchased electric energy represents the amount actually used during the year for heat and power. In addition, information was collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.
5. Cost of contract work. This term applies to work done by others on materials furnished by the manufacturing establishment. The actual cost of the material is to be reported on the cost of materials, parts, and containers line of this item. The term "Contract Work" refers to the fee a company pays to another company to perform a service.

Specific materials consumed

In addition to the total cost of materials, which every establishment was required to report, information also was collected for most manufacturing industries on the consumption of major materials used in manufacturing. The inquiries were restricted to those materials that were important parts of the cost of production in a particular industry and for which cost information was available from manufacturers' records. If less than \$25,000 of a listed material was consumed by an establishment, the cost data could be reported in the "Cost of all other materials" Census material code 00970099.

Also, the cost of materials for small establishments for which administrative records or short forms were used was imputed into the "Materials not specified by kind" Census materials code 00971000.

QUANTITY OF ELECTRICITY PURCHASED 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.

TOTAL VALUE OF SHIPMENTS

Includes the received or receivable net selling values, "Free on Board" (FOB) 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 bought and sold without further manufacture, processing, or assembly; and
3. other miscellaneous receipts — includes repair work, installation, sales of scrap, etc.

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

1. primary product value of shipments;
2. secondary product value of shipments; and
3. total miscellaneous receipts.

Primary product shipments is used in the calculations of industry specialization ratio and industry coverage ratio.

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 the paper manufacturing 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 that 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.

Specialization and coverage ratio

An establishment is classified in a particular industry, if its shipments of primary products of that industry exceed in value its shipments of the products of any other single industry.

An establishment's shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.).

Specialization and coverage ratio have been developed to measure the relationship of primary product shipments to the data on shipments for a particular industry.

Specialization ratio represents the ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for the establishments classified in the industry.

Coverage ratio represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments wherever classified.

VALUE ADDED

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

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

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

TOTAL END-OF-YEAR INVENTORIES

This item is comprised of:

- a. Finished products
- b. Work-in-process
- c. Materials, supplies, fuels, etc.

Beginning in 1982, respondents were asked to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting method. Therefore, 1982 through 2002 data for inventories are not strictly comparable to prior-year data.

In addition, total beginning-of-year inventories is the sum of several different types of inventory valuations.

Inventory valuations include:

1. Subject to Last-in, first-out (LIFO) costing (including LIFO reserve and value)
2. Not subject to LIFO costing
3. Valuation method not reported, and
4. Amount subject to LIFO reported without associated reserve and value.

GROSS VALUE OF DEPRECIABLE/DEPLETABLE ASSETS AT BEGINNING OF YEAR

Gross value of depreciable/depletable assets includes all fixed depreciable/depletable assets contained in accounting records of establishments. The values shown (gross book value) represent the actual cost of assets at the time they were acquired. Included are all costs incurred in making the assets usable (such as transportation and installation)

Gross value of depreciable/depletable assets includes:

1. Buildings and other structures (new and used).
2. Machinery and equipment (new and used), including automobiles, trucks, etc. for highway use and computers and peripheral data processing equipment.
3. Retirements.

Excluded are nondepreciable capital assets including inventories and intangible assets.

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.

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.

CAPITAL EXPENDITURES FOR NEW AND USED PLANT AND EQUIPMENT

Represents the total new and used capital expenditures reported by establishments in operation and any known plants under construction.

These data include expenditures for:

1. Permanent additions and major alterations to manufacturing and mining establishments.
2. New and used machinery and equipment used for replacement and additions to plant capacity, if they are of the type for which depreciation, depletion, or (for mining establishments) Office of Minerals Exploration accounts are ordinarily maintained. In addition, for mining establishments, these data include expenditures made during the year for development and exploration of mineral properties. For manufacturing establishments, these data are broken down into three types.
 - a. Automobiles, trucks, etc. for highway use. These include vehicles acquired under a lease-purchase agreement and excludes vehicles leased or normally designed to transport materials, property, or equipment on mining, construction, petroleum development, and similar projects. These vehicles are of such size or weight as to be normally restricted by state laws or regulations from operating on public highways. It also excludes purchases of vehicles that are purchased by a company for highway use.
 - b. Computers and peripheral data processing equipment. This item includes all purchases of computers and related equipment.
 - c. All other expenditures for machinery and equipment excluding automobiles and computer equipment.

Capital expenditures include work done by contract, as well as by the establishment's own workforce.

These data exclude expenditures for land and mineral rights and cost of maintenance and repairs charged as current operating expenses.

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.

RENTAL PAYMENTS

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

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments.

However, the book value (original cost) of these company-owned assets was to be reported as assets of the establishment at the end of the year.

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

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.

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

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.

311119 OTHER ANIMAL FOOD MANUFACTURING

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

3112 GRAIN AND OILSEED MILLING

This industry group 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.

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 the following:

1. Milling flour or meal from grains (except rice) or vegetables and/or
2. Milling flour and preparing flour mixes or doughs.

311212 RICE MILLING

This U.S. industry comprises establishments primarily engaged in one of the following:

1. milling rice;
2. cleaning and polishing rice; or
3. milling, cleaning, and polishing rice.

The establishments in this industry may package the rice they mill with other ingredients.

311213 MALT MANUFACTURING

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

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).

311222 SOYBEAN PROCESSING

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

311223 OTHER OILSEED PROCESSING

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

311225 FATS AND OILS REFINING AND BLENDING

This U.S. industry comprises establishments primarily engaged in one or more of the following:

1. Manufacturing shortening and margarine from purchased fats and oils;
2. Refining and/or blending vegetable, oilseed, and tree nut oils from purchased oils; and
3. Blending purchased animal fats with purchased vegetable fats.

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.

3113 SUGAR AND CONFECTIONERY PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in one of the following:

1. 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.

311312 CANE SUGAR REFINING

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

311313 BEET SUGAR MANUFACTURING

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

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.

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.

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.

3114 FRUIT AND VEGETABLE PRESERVING AND SPECIALTY FOOD MANUFACTURING

This industry group comprises establishments primarily engaged in the following:

1. Those 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.

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.

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.

311422 SPECIALTY CANNING

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

311423 DRIED AND DEHYDRATED FOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one of the following:

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.

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.

311512 CREAMERY BUTTER MANUFACTURING

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

311513 CHEESE MANUFACTURING

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

1. manufacturing cheese products (except cottage cheese) from raw milk and/or processed milk products and/or
2. manufacturing cheese substitutes from soybean and other nondairy substances.

311514 DRY, CONDENSED, AND EVAPORATED DAIRY PRODUCT MANUFACTURING

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

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).

3116 ANIMAL SLAUGHTERING AND PROCESSING

This industry group 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.

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

311612 MEAT PROCESSED FROM CARCASSES

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

311613 RENDERING AND MEAT BYPRODUCT PROCESSING

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

311615 POULTRY PROCESSING

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

1. slaughtering poultry and small game and/or
2. preparing processed poultry and small game meat and meat byproducts.

3117 SEAFOOD PRODUCT PREPARATION AND PACKAGING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Canning seafood (including soup);
2. Smoking, salting, and drying seafood;
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 also included in this industry group.

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 seafood;
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 also included in this industry.

311711 SEAFOOD CANNING

This U.S. industry comprises establishments primarily engaged in one of the following:

1. Canning seafood (including soup) and marine fats and oils and/or
2. Smoking, salting, and drying seafood.

Establishments known as “floating factory ships” that are engaged in the gathering and processing of seafood into canned seafood products are also included in this industry.

311712 FRESH AND FROZEN SEAFOOD PROCESSING

This U.S. industry comprises establishments primarily engaged in one or more of the following:

1. Eviscerating fresh fish by removing heads, fins, scales, bones, and entrails;
2. Shucking and packing fresh shellfish;

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3. Manufacturing frozen seafood; and
 4. Processing fresh and frozen marine fats and oils.

3118 BAKERIES AND TORTILLA MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Bread and bakery product manufacturing;
2. Cookie, cracker, and pasta manufacturing; and
3. 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.

311812 COMMERCIAL BAKERIES

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

311813 FROZEN CAKES, PIES, AND OTHER PASTRIES MANUFACTURING

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

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.

311822 FLOUR MIXES AND DOUGH MANUFACTURING FROM PURCHASED FLOUR

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

311823 DRY PASTA MANUFACTURING

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

311821 COOKIE AND CRACKER MANUFACTURING

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

311822 FLOUR MIXES AND DOUGH MANUFACTURING FROM PURCHASED FLOUR

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

311823 DRY PASTA MANUFACTURING

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

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.

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.

311919 OTHER SNACK FOOD MANUFACTURING

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

31192 COFFEE AND TEA MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

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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.

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.

31194 SEASONING AND DRESSING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following:

1. Manufacturing dressings and sauces, such as mayonnaise, salad dressing, vinegar, mustard, horseradish, soy sauce, tarter sauce, Worcestershire sauce, and other prepared sauces (except tomato-based and gravies);
2. Manufacturing spices, table salt, seasoning, and flavoring extracts (except coffee and meat), and natural food colorings; and
3. Manufacturing dry mix food preparations, such as salad dressing mixes, gravy and sauce mixes, frosting mixes, and other dry mix preparations.

311941 MAYONNAISE, DRESSING, AND OTHER PREPARED SAUCE MANUFACTURING

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

311942 SPICE AND EXTRACT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one of the following:

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.

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.

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; bakery and tortillas products; snack foods; coffee and tea; flavoring syrups and concentrates; seasonings and dressings; and perishable prepared food). Included in this industry are establishments primarily engaged in mixing purchased dried and/or dehydrated ingredients including those mixing purchased dried and/or dehydrated ingredients for soup mixes and bouillon.

312 BEVERAGE AND TOBACCO PRODUCT MANUFACTURING

Industries in the Beverage and Tobacco Product Manufacturing subsector manufacture beverages and tobacco products. The industry group, Beverage Manufacturing, includes three types of establishments:

1. Those that manufacture nonalcoholic beverages;
2. Those that manufacture alcoholic beverages through the fermentation process; and
3. Those that produce distilled alcoholic beverages.

Ice manufacturing, while not a beverage, is included with nonalcoholic beverage manufacturing because it uses the same production process as water purification.

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

The industry group, Tobacco Manufacturing, includes two types of establishments:

1. Those engaged in redrying and stemming tobacco and,
2. Those that manufacture tobacco products, such as cigarettes and cigars.

3121 BEVERAGE MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing soft drinks; ice; bottled water; breweries; wineries; and/or distilleries.

31211 SOFT DRINK AND ICE MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. Manufacturing soft drinks;

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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.

312112 BOTTLED WATER MANUFACTURING

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

312113 ICE MANUFACTURING

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

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.

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.

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.

3122 TOBACCO MANUFACTURING

This industry group comprises establishments primarily engaged in the stemming and redrying of tobacco, and in the manufacturing of tobacco products.

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.

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.

312229 OTHER TOBACCO PRODUCT MANUFACTURING

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

313 TEXTILE MILLS

Industries in the Textile Mills subsector group establishments that transform a basic fiber (natural or synthetic) into a product, such as yarn or fabric, that is further manufactured into usable items, such as apparel, sheets 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 fiber.

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 include 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

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2. manufacturing thread of any fiber
 3. texturizing, throwing, twisting, and winding purchased yarn or manmade fiber filaments
 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.

313112 YARN TEXTURIZING, THROWING, AND TWISTING MILLS

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

313113 THREAD MILLS

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

3132 FABRIC MILLS

This industry group comprises establishments primarily engaged in one or more of the following:

1. Broadwoven fabric mills;
2. Narrow fabric mills and schiffli machine embroidery;
3. Nonwoven fabric mills; and
4. 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.

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
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.

313222 SCHIFFLI MACHINE EMBROIDERY

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

31324 KNIT FABRIC MILLS

This industry comprises establishments primarily engaged in one of the following:

1. knitting weft (i.e., circular) and warp (i.e., flat) fabric
2. knitting and finishing weft and warp fabric
3. manufacturing lace
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).

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).

3133 TEXTILE AND FABRIC FINISHING AND FABRIC COATING MILLS

This industry group comprises establishments primarily engaged in one or more of the following:

1. Textile and fabric finishing mills and
2. Fabric coating mills.

31331 TEXTILE AND FABRIC FINISHING MILLS

This industry comprises:

1. establishments primarily engaged in finishing of textiles, fabrics, and apparel
2. establishments of converters who buy fabric goods in the grey, have them finished on contract, and sell at wholesale. Finishing operations include:

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- a. bleaching
 - b. dyeing
 - c. printing (e.g., roller, screen, flock, plisse)
 - d. stonewashing
 - e. other mechanical finishing (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
2. Establishments of converters who buy broadwoven fabrics in the grey, have them finished on contract, and sell at wholesale.

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)
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.

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.

314 TEXTILE PRODUCT MILLS

Industries in the Textile Product Mills subsector group establishments that make 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 industry group comprises establishments primarily engaged in one or more of the following:

1. Carpet and rug mills and
2. Curtain and linen mills.

31411 CARPET AND RUG MILLS

This industry comprises establishments primarily engaged in one or more of the following:

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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.

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.

314129 OTHER HOUSEHOLD TEXTILE PRODUCT MILLS

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

3149 OTHER TEXTILE PRODUCT MILLS

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.

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.

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).

314992 TIRE CORD AND TIRE FABRIC MILLS

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

314999 ALL OTHER MISCELLANEOUS TEXTILE PRODUCT MILLS

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

315 APPAREL MANUFACTURING

Industries in the Apparel Manufacturing subsector group establishments with two distinct manufacturing processes:

1. Cut and sew (i.e., purchasing fabric and cutting and sewing to make a garment), and
2. The manufacture of garments in establishments that first knit fabric and then cut and sew the fabric into a garment.

The Apparel Manufacturing subsector includes a diverse range of establishments manufacturing full lines of ready-to-wear apparel and custom apparel: apparel contractors, performing cutting or sewing operations on materials owned by others; jobbers performing entrepreneurial functions involved in apparel manufacture; and tailors, manufacturing custom garments for individual clients are all included. Knitting, when done alone, is classified in the Textile Mills subsector, but when knitting is combined with the production of complete garments, the activity is classified in Apparel Manufacturing.

3151 APPAREL KNITTING MILLS

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).

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).

31519 OTHER APPAREL KNITTING MILLS

This industry comprises establishments primarily engaged in one of the following:

1. knitting underwear, outerwear, and/or nightwear;

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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.

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.

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 one of the following:

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.

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 one of the following:

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.

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.

315222 MEN'S AND BOYS' CUT AND SEW SUIT, COAT, AND OVERCOAT MANUFACTURING

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

315223 MEN'S AND BOYS' CUT AND SEW SHIRT (EXCEPT WORK SHIRT) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' outerwear shirts from purchased fabric. Men's and boys' shirt (except work shirt) jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Unisex outerwear shirts, such as T-shirts and sweatshirts that are sized without specific reference to gender (i.e., adult S, M, L, XL) are included in this industry.

315224 MEN'S AND BOYS' CUT AND SEW TROUSER, SLACK, AND JEAN MANUFACTURING

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

315225 MEN'S AND BOYS' CUT AND SEW WORK CLOTHING MANUFACTURING

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

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.

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.

315232 WOMEN'S AND GIRLS' CUT AND SEW BLOUSE AND SHIRT MANUFACTURING

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

315233 WOMEN'S AND GIRLS' CUT AND SEW DRESS MANUFACTURING

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

315234 WOMEN'S AND GIRLS' CUT AND SEW SUIT, COAT, TAILORED JACKET, AND SKIRT MANUFACTURING

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

315239 WOMEN'S AND GIRLS' CUT AND SEW OTHER OUTERWEAR MANUFACTURING

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

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.

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.

315299 ALL OTHER CUT AND SEW APPAREL MANUFACTURING

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

3159 APPAREL ACCESSORIES AND OTHER APPAREL MANUFACTURING

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.

315992 GLOVE AND MITTEN MANUFACTURING

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

315993 MEN'S AND BOYS' NECKWEAR MANUFACTURING

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

315999 OTHER APPAREL ACCESSORIES AND OTHER APPAREL MANUFACTURING

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

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 industry group 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.

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.

3162 FOOTWEAR MANUFACTURING

This industry group 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.

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.

316212 HOUSE SLIPPER MANUFACTURING

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

316213 MEN'S FOOTWEAR (EXCEPT ATHLETIC) MANUFACTURING

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

316214 WOMEN'S FOOTWEAR (EXCEPT ATHLETIC) MANUFACTURING

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

316219 OTHER FOOTWEAR MANUFACTURING

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

3169 OTHER LEATHER AND ALLIED PRODUCT MANUFACTURING

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

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.

316992 WOMEN'S HANDBAG AND PURSE MANUFACTURING

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

316993 PERSONAL LEATHER GOOD (EXCEPT WOMEN'S HANDBAG AND PURSE) MANUFACTURING

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

316999 ALL OTHER LEATHER GOOD MANUFACTURING

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

321 WOOD PRODUCT MANUFACTURING

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

3211 SAWMILLS AND WOOD PRESERVATION

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.

321114 WOOD PRESERVATION

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

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

3212 VENEER, PLYWOOD, AND ENGINEERED WOOD PRODUCT MANUFACTURING

This industry group 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.

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.

321212 SOFTWOOD VENEER AND PLYWOOD MANUFACTURING

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

321213 ENGINEERED WOOD MEMBER (EXCEPT TRUSS) MANUFACTURING

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

321214 TRUSS MANUFACTURING

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

321219 RECONSTITUTED WOOD PRODUCT MANUFACTURING

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

3219 OTHER WOOD PRODUCT MANUFACTURING

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.

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.

321918 OTHER MILLWORK (INCLUDING FLOORING)

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

32192 WOOD CONTAINER AND PALLET MANUFACTURING

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

321920 WOOD CONTAINER AND PALLET MANUFACTURING

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

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.

321992 PREFABRICATED WOOD BUILDING MANUFACTURING

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

321999 ALL OTHER MISCELLANEOUS WOOD PRODUCT MANUFACTURING

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

322 PAPER MANUFACTURING

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

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

Establishments that make products from purchased paper and other materials make up the second industry group, Converted Paper Product Manufacturing. This general activity is then subdivided based, for the most part, on process distinctions. Paperboard container manufacturing uses corrugating, cutting, and shaping machinery to form paperboard into containers. Paper bag and coated and treated paper manufacturing establishments cut and coat paper and foil. Stationery product manufacturing establishments make a variety of paper products used for writing, filing, and similar applications. Other converted paper product manufacturing includes, in particular, the conversion of sanitary paper stock into such things as tissue paper and disposable diapers.

An important process used in the Paper Bag and Coated and Treated Paper Manufacturing industry is lamination, often combined with coating. Lamination and coating makes a composite material with improved properties of strength, impermeability, and so on. The laminated materials may be paper, metal foil, or plastics film. While paper 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.

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.

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.

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.

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.

322212 FOLDING PAPERBOARD BOX MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting paperboard (except corrugated) into folding paperboard boxes without manufacturing paper and paperboard.

322213 SETUP PAPERBOARD BOX MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting paperboard into setup paperboard boxes (i.e., rigid-sided boxes not shipped flat) without manufacturing paperboard.

322214 FIBER CAN, TUBE, DRUM, AND SIMILAR PRODUCTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting paperboard into fiber cans, tubes, drums, and similar products without manufacturing paperboard.

322215 NONFOLDING SANITARY FOOD CONTAINER MANUFACTURING

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

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:

1. cutting and coating paper and

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2. cutting and laminating paper with other flexible materials (except plastics to plastics or foil to paper laminates).

The products made in this industry are made from purchased sheet materials and may be printed in the same establishment.

322222 COATED AND LAMINATED PAPER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in performing one or more of the following activities associated with making products designed for purposes other than packaging:

1. cutting and coating paper;
2. cutting and laminating paper and other flexible materials (except plastics film to plastics film); and
3. laminating 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.

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.

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.

322225 LAMINATED ALUMINUM FOIL MANUFACTURING FOR FLEXIBLE PACKAGING USES

This U.S. industry comprises establishments primarily engaged in laminating aluminum and other metal foil into products with flexible packaging uses or gift wrap and other packaging wrap applications.

322226 SURFACE-COATED PAPERBOARD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in laminating, lining, or surface coating purchased paperboard to make other paperboard products.

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.

322232 ENVELOPE MANUFACTURING

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

322233 STATIONERY, TABLET, AND RELATED PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting paper and paperboard into products used for writing and similar applications (e.g., looseleaf fillers, notebooks, pads, stationery, and tablets).

32229 OTHER CONVERTED PAPER PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in one of the following:

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.

322299 ALL OTHER CONVERTED PAPER PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting paper or paperboard into products (except containers, bags, coated and treated paper, stationery products, and sanitary paper products) or converting pulp into pulp products, such as egg cartons, food trays, and other food containers from molded pulp.

323 PRINTING AND RELATED SUPPORT ACTIVITIES

Industries in the Printing and Related Support Activities subsector print products, such as newspapers, books, labels, business cards, stationery, business forms, and other materials, and perform support activities, such as data imaging, platemaking services, and bookbinding. 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, film, 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 (except Internet). 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 industry group comprises establishments primarily engaged in one or more of the following:

1. Printing on apparel and textile products, paper, metal, glass, plastics, and other materials, except fabric (grey goods) and/or
2. Performing prepress (e.g., platemaking, typesetting) and postpress services (e.g., book binding) in support of printing activities.

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 folding, 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.

323111 COMMERCIAL GRAVURE PRINTING

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

323112 COMMERCIAL FLEXOGRAPHIC PRINTING

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

323113 COMMERCIAL SCREEN PRINTING

This U.S. industry comprises establishments primarily engaged in screen printing without publishing (except books, grey goods, and manifold business forms). This industry includes establishments engaged in screen printing on purchased stock materials, such as stationery, invitations, labels, and similar items, on a job order basis. Establishments primarily engaged in printing on apparel and textile products, such as T-shirts, caps, jackets, towels, and napkins, are included in this industry.

323114 QUICK PRINTING

This U.S. industry comprises establishments primarily engaged in traditional printing activities, such as short-run offset printing or prepress services, in combination with providing document photocopying service. Prepress services include receiving documents in electronic format and directly duplicating from the electronic file and formatting, 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.

323115 DIGITAL PRINTING

This U.S. industry comprises establishments primarily engaged in printing graphical materials using digital printing equipment. Establishments known as digital printers typically provide sophisticated prepress services including using scanners to input images and computers to manipulate and format the graphic images prior to printing.

323116 MANIFOLD BUSINESS FORMS PRINTING

This U.S. industry comprises establishments primarily engaged in printing special forms, including checkbooks, for use in the operation of a business. The forms may be in single and multiple sets, including carbonized, interleaved with carbon, or otherwise processed for multiple reproduction.

323117 BOOKS PRINTING

This U.S. industry comprises establishments primarily engaged in printing or printing and binding books and pamphlets without publishing.

323118 BLANKBOOK, LOOSELEAF BINDERS, AND DEVICES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing blankbooks, looseleaf devices, and binders. Establishments in this industry may print or print and bind.

323119 OTHER COMMERCIAL PRINTING

This U.S. industry comprises establishments primarily engaged in commercial printing (except lithographic, gravure, screen, or flexographic printing) without publishing (except books, grey goods, and manifold business forms). Printing processes included in this industry are letterpress printing and engraving printing. This industry includes establishments engaged in commercial printing on purchased stock materials, such as stationery, invitations, labels, and similar items, on a job order basis.

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).

323122 PREPRESS SERVICES

This U.S. industry comprises establishments primarily engaged in one or more of the following:

1. prepress services, such as imagesetting or typesetting, for printers and
2. preparing film or plates for printing purposes.

324 PETROLEUM AND COAL PRODUCTS MANUFACTURING

The Petroleum and Coal Products Manufacturing subsector is based on the transformation of crude petroleum and coal into usable products. The dominant process is petroleum refining that involves the separation of crude petroleum into component products through such techniques as cracking and distillation.

In addition, this subsector includes establishments that primarily further process refined petroleum and coal products and produce products, such as asphalt coatings and petroleum lubricating oils. However, establishments that manufacture petrochemicals from refined petroleum are classified in Industry 32511, Petrochemical Manufacturing.

3241 PETROLEUM AND COAL PRODUCTS MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Petroleum refineries manufacturing;
2. Asphalt paving, roofing, and saturated materials manufacturing; and/or
3. 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.

32412 ASPHALT PAVING, ROOFING, AND SATURATED MATERIALS MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. manufacturing asphalt and tar paving mixtures and blocks and roofing cements and coatings from purchased asphaltic materials and/or
2. saturating purchased mats and felts with asphalt or tar from purchased asphaltic materials.

324121 ASPHALT PAVING MIXTURE AND BLOCK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing asphalt and tar paving mixtures and blocks from purchased asphaltic materials.

324122 ASPHALT SHINGLE AND COATING MATERIALS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following:

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.

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.

324199 ALL OTHER PETROLEUM AND COAL PRODUCTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing petroleum products (except asphalt paving, roofing, and saturated materials and lubricating oils and greases) from refined petroleum and coal products made in coke ovens not integrated with a steel mill.

325 CHEMICAL MANUFACTURING

The Chemical Manufacturing subsector is based on the transformation of organic and inorganic raw materials by a chemical process and the formulation of products. This subsector distinguishes the production of basic chemicals that comprise the first industry group from the production of intermediate and end products produced by further processing of basic chemicals that make up the remaining industry groups.

This subsector does not include all industries transforming raw materials by a chemical process. It is common for some chemical processing to occur during mining operations. These beneficiating operations, such as copper concentrating, are classified in Sector 21, Mining. Furthermore, the refining of crude petroleum is included in Subsector 324, Petroleum and Coal Products Manufacturing. In addition, the manufacturing of aluminum oxide is included in Subsector 331, Primary Metal Manufacturing; and beverage distilleries are classified in Subsector 312, Beverage and Tobacco Product Manufacturing. As in the case of these two activities, the grouping of industries into subsectors may take into account the association of the activities performed with other activities in the subsector.

3251 BASIC CHEMICAL MANUFACTURING

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 one of the following:

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 one of the following:

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.

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 industry comprises establishments primarily engaged in manufacturing industrial organic and inorganic gases in compressed, liquid, and solid forms.

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.

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).

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.

325182 CARBON BLACK MANUFACTURING

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

325188 ALL OTHER BASIC INORGANIC CHEMICAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing basic inorganic chemicals (except industrial gases, inorganic dyes and pigments, alkalies and chlorine, and carbon black).

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).

325192 CYCLIC CRUDE AND INTERMEDIATE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in (1) distilling coal tars and/or (2) manufacturing cyclic crudes or, cyclic intermediates (i.e., hydrocarbons, except aromatic petrochemicals) from refined petroleum or natural gas.

325193 ETHYL ALCOHOL MANUFACTURING

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

325199 ALL OTHER BASIC ORGANIC CHEMICAL MANUFACTURING

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

3252 RESIN, SYNTHETIC RUBBER, AND ARTIFICIAL AND SYNTHETIC FIBERS AND FILAMENTS MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Resin and synthetic rubber manufacturing and
2. 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.

325212 SYNTHETIC RUBBER MANUFACTURING

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

32522 ARTIFICIAL AND SYNTHETIC FIBERS AND FILAMENTS MANUFACTURING

This industry comprises establishments primarily engaged in one of the following:

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 one of the following:

1. manufacturing cellulosic (i.e., rayon and acetate) fibers and filaments in the form of monofilament, filament yarn, staple, or tow or
2. manufacturing and texturizing cellulosic fibers and filaments.

325222 NONCELLULOSIC ORGANIC FIBER MANUFACTURING

This U.S. industry consists of establishments primarily engaged in one of the following:

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1. manufacturing noncellulosic (i.e., nylon, polyolefin, and polyester) fibers and filaments in the form of monofilament, filament yarn, staple, or tow, or
 2. manufacturing and texturizing noncellulosic fibers and filaments.

3253 PESTICIDE, FERTILIZER, AND OTHER AGRICULTURAL CHEMICAL MANUFACTURING

This industry group includes establishments classified in one of the following:

1. Fertilizer manufacturing and/or
2. Pesticide and other agricultural chemical manufacturing.

32531 FERTILIZER MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. manufacturing nitrogenous or phosphatic fertilizer materials;
2. manufacturing fertilizers from sewage or animal waste;
3. manufacturing nitrogenous or phosphatic materials and mixing with other ingredients into fertilizers; and
4. mixing ingredients made elsewhere into fertilizers.

325311 NITROGENOUS FERTILIZER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following:

1. manufacturing nitrogenous fertilizer materials and mixing ingredients into fertilizers;
2. manufacturing fertilizers from sewage or animal waste; and
3. manufacturing nitrogenous materials and mixing them into fertilizers.

325312 PHOSPHATIC FERTILIZER MANUFACTURING

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

1. manufacturing phosphatic fertilizer materials or
2. manufacturing phosphatic materials and mixing them into fertilizers.

325314 FERTILIZER (MIXING ONLY) MANUFACTURING

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

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).

3254 PHARMACEUTICAL AND MEDICINE MANUFACTURING

This industry group 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;

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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.

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 one of the following:

1. manufacturing uncompounded medicinal chemicals and their derivatives (i.e., generally for use by pharmaceutical preparation manufacturers) and/or
2. grading, grinding, and milling uncompounded botanicals.

325412 PHARMACEUTICAL PREPARATION MANUFACTURING

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

325413 IN-VITRO DIAGNOSTIC SUBSTANCE MANUFACTURING

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

325414 BIOLOGICAL PRODUCT (EXCEPT DIAGNOSTIC) MANUFACTURING

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

3255 PAINT, COATING, AND ADHESIVE MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Paint and coating manufacturing and/or
2. Adhesive manufacturing.

32551 PAINT AND COATING MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following:

1. mixing pigments, solvents, and binders into paints and other coatings, such as stains, varnishes, lacquers, enamels, shellacs, and water repellent coatings for concrete and masonry, and/or

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2. manufacturing allied paint products, such as putties, paint and varnish removers, paint brush cleaners, and frit.

325510 PAINT AND COATING MANUFACTURING

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

1. mixing pigments, solvents, and binders into paints and other coatings, such as stains, varnishes, lacquers, enamels, shellacs, and water repellent coatings for concrete and masonry and/or
2. manufacturing allied paint products, such as putties, paint and varnish removers, paint brush cleaners, and frit.

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.

3256 SOAP, CLEANING COMPOUND, AND TOILET PREPARATION MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Soap and cleaning compound manufacturing and/or
2. 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.

325612 POLISH AND OTHER SANITATION GOOD MANUFACTURING

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

325613 SURFACE ACTIVE AGENT MANUFACTURING

This U.S. industry group comprises establishments primarily engaged in one or more of the following:

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.

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.

3259 OTHER CHEMICAL PRODUCT AND PREPARATION MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing chemical products (except basic chemicals; resins, synthetic rubber, cellulosic and noncellulosic fibers and filaments; pesticides, fertilizers, and other agricultural chemicals; pharmaceuticals and medicines; paints, coatings, and adhesives; soaps and cleaning compounds; and toilet preparations).

32591 PRINTING INK MANUFACTURING

This U.S. 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.

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.

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 group comprises establishments primarily engaged in one or more of the following:

1. custom mixing and blending plastics resins made elsewhere or
2. reformulating plastics resins from recycled plastics products.

325992 PHOTOGRAPHIC FILM, PAPER, PLATE, AND CHEMICAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing sensitized film, sensitized paper, sensitized cloth, sensitized plates, toners (i.e., for photocopiers, laser printers, and similar electrostatic printing devices), toner cartridges, and photographic chemicals.

325998 ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing chemical products (except basic chemicals, resins, synthetic rubber; cellulosic and noncellulosic fiber and filaments; pesticides, fertilizers, and other agricultural chemicals; pharmaceuticals and medicines; paints, coatings and adhesives; soap, cleaning compounds, and toilet preparations; printing inks; explosives; custom compounding of purchased resins; and photographic films, papers, plates, and chemicals).

326 PLASTICS AND RUBBER PRODUCTS MANUFACTURING

Industries in the Plastics and Rubber Products Manufacturing subsector make goods by processing plastics materials and raw rubber. The core technology employed by establishments in this subsector is that of plastics or rubber product production. Plastics and rubber are combined in the same subsector because plastics are increasingly being used as a substitute for rubber; however the subsector is generally restricted to the production of products made of just one material, either solely plastics or rubber.

Many manufacturing activities use plastics or rubber, for example the manufacture of footwear, or furniture. Typically, the production process of these products involves more than one material. In these cases, technologies that allow disparate materials to be formed and combined are of central importance in describing the manufacturing activity. In NAICS, such activities (the footwear and 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 Hoses 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 PLASTICS PACKAGING MATERIALS AND UNLAMINATED FILM AND SHEET MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

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 PLASTICS BAG MANUFACTURING

This U.S. industry group comprises establishments primarily engaged in one of the following:

1. converting plastics resins into plastics bags or

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2. forming, coating, or laminating plastics film and sheet into single wall or multiwall plastics bags.

Establishments in this industry may print on the bags they manufacture.

326112 PLASTICS PACKAGING FILM AND SHEET (INCLUDING LAMINATED) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting plastics resins into plastics packaging (flexible) film and packaging sheet.

326113 UNLAMINATED PLASTICS FILM AND SHEET (EXCEPT PACKAGING) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting plastics resins into plastics film and un laminated sheet (except packaging).

32612 PLASTICS PIPE, PIPE FITTING, AND UNLAMINATED 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 UNLAMINATED PLASTICS PROFILE SHAPE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting plastics resins into nonrigid plastics profile shapes (except film, sheet, and bags), such as rod, tube, and sausage casings.

326122 PLASTICS PIPE AND PIPE FITTING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting plastics resins into rigid plastics pipes and pipe fittings.

32613 LAMINATED PLASTICS PLATE, SHEET (EXCEPT PACKAGING), 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 (EXCEPT PACKAGING), 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.

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.

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).

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.

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.

326192 RESILIENT FLOOR COVERING MANUFACTURING

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

326199 ALL OTHER PLASTICS PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing plastics products (except film, sheet, bags, profile shapes, pipes, pipe fittings, laminates, foam products, bottles, plumbing fixtures, and resilient floor coverings).

3262 RUBBER PRODUCT MANUFACTURING

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.

326212 TIRE RETREADING

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

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.

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.

326299 ALL OTHER RUBBER PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing rubber products (except tires; hoses and belting; and molded, extruded, and lathe-cut rubber goods for mechanical applications) from natural and synthetic rubber.

327 NONMETALLIC MINERAL PRODUCT MANUFACTURING

The Nonmetallic Mineral Product Manufacturing subsector transforms mined or quarried nonmetallic minerals, such as sand, gravel, stone, clay, and refractory materials, into products for intermediate or final consumption. Processes used include grinding, mixing, cutting, shaping, and honing. Heat often is used in the process and chemicals are frequently mixed to change the composition, purity, and chemical properties for the intended product. For example, glass is produced by heating silica sand to the melting point (sometimes combined with cullet or recycled glass) and then drawn, floated, or blow molded to the desired shape or thickness. Refractory materials are heated and then formed into bricks or other shapes for use in industrial applications. The Nonmetallic Mineral Product Manufacturing subsector includes establishments that manufacture products, such as bricks, refractories, ceramic products, and glass and glass products, such as plate glass and containers. Also included are cement and concrete products, lime, gypsum and other nonmetallic mineral products including abrasive products, ceramic plumbing fixtures, statuary, cut stone products, and mineral wool. The products are used in a wide range of activities from construction and heavy and light manufacturing to articles for personal use.

Mining, beneficiating, and manufacturing activities often occur in a single location. Separate receipts will be collected for these activities whenever possible. When receipts cannot be broken out between mining and manufacturing, establishments that mine or quarry nonmetallic minerals, beneficiate the nonmetallic minerals and further process the nonmetallic minerals into a more finished manufactured product are classified based on the primary activity of the establishment. A mine that manufactures a small amount of finished products will be classified in Sector 21, Mining. An establishment that mines whose primary output is a more-finished manufactured product will be classified in the Manufacturing Sector.

Excluded from the Nonmetallic Mineral Product Manufacturing subsector are establishments that primarily beneficiate mined nonmetallic minerals. Beneficiation is the process whereby the extracted material is reduced to particles that can be separated into mineral and waste, the former suitable for further processing or direct use. Beneficiation establishments are included in Sector 21, Mining.

3271 CLAY PRODUCT AND REFRACTORY MANUFACTURING

This industry group 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 and/or shaping, molding, baking, burning, or hardening clay refractories, non-clay refractories, ceramic tile, structural clay tile, brick, and other structural clay building materials.

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.

327112 VITREOUS CHINA, FINE EARTHENWARE, AND OTHER POTTERY PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing table and kitchen articles, art and ornamental items, and similar vitreous china, fine earthenware, stoneware, coarse earthenware, and pottery products.

327113 PORCELAIN ELECTRICAL SUPPLY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing porcelain electrical insulators, molded porcelain parts for electrical devices, ferrite or ceramic magnets, and electronic and electrical supplies from nonmetallic minerals, such as clay and ceramic materials.

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.

327122 CERAMIC WALL AND FLOOR TILE MANUFACTURING

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

327123 OTHER STRUCTURAL CLAY PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing clay sewer pipe, drain tile, flue lining tile, architectural terra-cotta, and other structural clay products.

327124 CLAY REFRACTORY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing clay refractory, mortar, brick, block, tile, and fabricated clay refractories, such as melting pots. A refractory is a material that will retain its shape and chemical identity when subjected to high temperatures and is used in applications that require extreme resistance to heat, such as furnace linings.

327125 NONCLAY REFRACTORY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonclay refractory, mortar, brick, block, tile, and fabricated nonclay refractories such as graphite, magnesite, silica, or alumina crucibles. A refractory is a material that will retain its shape and chemical identity when subjected to high temperatures and is used in applications that require extreme resistance to heat, such as furnace linings.

3272 GLASS AND GLASS PRODUCT MANUFACTURING

This industry group 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.

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.

327212 OTHER PRESSED AND BLOWN GLASS AND GLASSWARE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing glass by melting silica sand or cullet and making pressed, blown, or shaped glass or glassware (except glass packaging containers).

327213 GLASS CONTAINER MANUFACTURING

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

327215 GLASS PRODUCT MANUFACTURING MADE OF PURCHASED GLASS

This U.S. industry comprises establishments primarily engaged in coating, laminating, tempering, or shaping purchased glass.

3273 CEMENT AND CONCRETE PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Cement manufacturing;
2. Ready-mix concrete manufacturing;
3. Concrete pipe, brick, and block manufacturing; and/or
4. 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.

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 primarily engaged in manufacturing concrete delivered to a purchaser, such as batch plants or mix plants, in a plastic and unhardened state. Ready-mix concrete manufacturing establishments may mine, quarry, or purchase sand and gravel.

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.

327332 CONCRETE PIPE MANUFACTURING

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

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).

3274 LIME AND GYPSUM PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing lime from calcitic limestone, dolomitic limestone, or other calcareous materials, such as coral, chalk, and shells and/or gypsum products such as wallboard, plaster, plasterboard, molding, ornamental moldings, statuary, and architectural plaster work.

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.

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.

3279 OTHER NONMETALLIC MINERAL PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in 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.

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.

327992 GROUND OR TREATED MINERAL AND EARTH MANUFACTURING

This U.S. industry comprises establishments primarily engaged in calcining, dead burning, or otherwise processing beyond beneficiation, clays, ceramic and refractory minerals, barite, and miscellaneous nonmetallic minerals.

327993 MINERAL WOOL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing mineral wool and mineral wool (i.e., fiberglass) insulation products made of such siliceous materials as rock, slag, and glass or combinations thereof.

327999 ALL OTHER MISCELLANEOUS NONMETALLIC MINERAL PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonmetallic mineral products (except pottery, ceramics, and plumbing fixtures; clay building materials and refractories; glass and glass products; cement; ready-mix concrete; concrete products; lime; gypsum products; abrasive products; cut stone and stone products; ground and treated minerals and earth; and mineral wool).

331 PRIMARY METAL MANUFACTURING

Industries in the Primary Metal Manufacturing subsector smelt and/or refine ferrous and nonferrous metals from ore, pig or scrap, using electrometallurgical and other process metallurgical techniques. Establishments in this subsector also manufacture metal alloys and superalloys by introducing other chemical elements to pure metals. The output of smelting and refining, usually in ingot form, is used in rolling, drawing, and extruding operations to make sheet, strip, bar, rod, or wire, and in molten form to make castings and other basic metal products.

Primary manufacturing of ferrous and nonferrous metals begins with ore or concentrate as the primary input. Establishments manufacturing primary metals from ore and/or concentrate remain classified in the primary smelting, primary refining, or iron and steel mill industries regardless of the form of their output. Establishments primarily engaged in secondary smelting and/or secondary refining recover ferrous and nonferrous metals from scrap and/or dross. The output of the secondary smelting and/or secondary refining industries is limited to shapes, such as ingot or billet, that will be further processed. Recovery of metals from scrap often occurs in establishments that are primarily engaged in activities, such as rolling, drawing, extruding, or similar processes.

Excluded from the Primary Metal Manufacturing subsector are establishments primarily engaged in manufacturing ferrous and nonferrous forgings (except ferrous forgings made in steel mills) and stampings. Although forging, stamping, and casting are all methods used to make metal shapes, forging and stamping do not use molten metals and are included in Subsector 332, Fabricated Metal Product Manufacturing. Establishments primarily engaged in operating coke ovens are classified in Industry 32419, Other Petroleum and Coal Products Manufacturing.

3311 IRON AND STEEL MILLS AND FERROALLOY MANUFACTURING

This industry group 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, and wire); and
7. Making steel and forming pipe and tube.

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, and 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;

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2. manufacturing pig iron in molten or solid form;
 3. converting pig iron into steel;
 4. making steel;
 5. making steel and manufacturing shapes (e.g., bar, plate, rod, sheet, strip, wire); and
 6. making steel and forming tube and pipe.

331112 ELECTROMETALLURGICAL FERROALLOY PRODUCT MANUFACTURING

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

3312 STEEL PRODUCT MANUFACTURING FROM PURCHASED STEEL

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 PIPE AND TUBE 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 PIPE AND TUBE 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.

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.

331222 STEEL WIRE DRAWING

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

3313 ALUMINA AND ALUMINUM PRODUCTION AND PROCESSING

This industry group 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, and wire).

33131 ALUMINA AND ALUMINUM PRODUCTION AND PROCESSING

This industry comprises establishments primarily engaged in one or more of the following:

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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, and wire).

331311 ALUMINA REFINING

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

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, and strip).

Establishments in this industry may make primary aluminum or aluminum-based alloys from alumina.

331314 SECONDARY SMELTING AND ALLOYING OF ALUMINUM

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

1. recovering aluminum and aluminum alloys from scrap and/or dross (i.e., secondary smelting) and making billet or ingot (except by rolling) and/or
2. manufacturing alloys, powder, paste, or flake from purchased aluminum.

331315 ALUMINUM SHEET, PLATE, AND FOIL MANUFACTURING

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

1. flat rolling or continuous casting sheet, plate, foil, and welded tube from purchased aluminum and/or
2. recovering aluminum from scrap and flat rolling or continuous casting sheet, plate, foil, and welded tube in integrated mills.

331316 ALUMINUM EXTRUDED PRODUCT MANUFACTURING

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

1. extruding aluminum bar, pipe, and tube blooms or extruding or drawing tube from purchased aluminum and/or
2. recovering aluminum from scrap and extruding bar, pipe, and tube blooms or drawing tube in integrated mills.

331319 OTHER ALUMINUM ROLLING AND DRAWING

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

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

3314 NONFERROUS METAL (EXCEPT ALUMINUM) PRODUCTION AND PROCESSING

This industry group comprises establishments primarily engaged in one of the following:

1. Nonferrous metal (except aluminum) smelting and refining;
2. Copper rolling, drawing, extruding, and alloying; and/or
3. 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 one of the following:

1. smelting copper ore and/or
2. the primary refining of copper by electrolytic methods or other processes.

Establishments in this industry make primary copper and copper-based alloys, such as brass and bronze, from ore or concentrates.

331419 PRIMARY SMELTING AND REFINING OF NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM)

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

1. making (primary production) nonferrous metals by smelting ore and/or
2. the primary refining of nonferrous metals by electrolytic methods or other processes.

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, 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, 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, and 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, and tube (except bare or insulated copper communication or energy wire) in integrated mills.

331422 COPPER WIRE (EXCEPT MECHANICAL) DRAWING

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

331423 SECONDARY SMELTING, REFINING, AND ALLOYING OF COPPER

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

1. recovering copper and copper alloys from scrap and/or
2. alloying purchased copper.

Establishments in this industry make primary forms, such as ingot, wire bar, cake, and slab from copper or copper alloys, such as brass and bronze.

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, and/or extruding shapes (e.g., bar, plate, sheet, strip, and 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, and tube) in integrated mills.

331492 SECONDARY SMELTING, REFINING, AND ALLOYING OF NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM)

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

1. alloying purchased nonferrous metals and/or
2. recovering nonferrous metals from scrap.

Establishments in this industry make primary forms (e.g., bar, billet, bloom, cake, ingot, slab, slug, and wire) using smelting or refining processes.

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 manhole covers, cast iron pipe, cast iron skillets). Establishments in this industry purchase iron made in other establishments.

331512 STEEL INVESTMENT FOUNDRIES

This U.S. industry comprises establishments primarily engaged in manufacturing steel investment castings. Investment molds are formed by covering a wax shape with a refractory slurry. After the refractory slurry hardens, the wax is melted, leaving a seamless mold. Investment molds provide highly detailed, consistent castings. Establishments in this industry purchase steel made in other establishments.

331513 STEEL FOUNDRIES (EXCEPT INVESTMENT)

This U.S. industry comprises establishments primarily engaged in manufacturing steel castings (except steel investment castings). Establishments in this industry purchase steel made in other establishments.

33152 NONFERROUS METAL FOUNDRIES

This industry comprises establishments primarily engaged in pouring and/or introducing molten nonferrous metal, under high pressure, into metal molds or dies to manufacture castings. Establishments in this industry purchase nonferrous metals made in other establishments.

331521 ALUMINUM DIE-CASTING FOUNDRIES

This U.S. industry comprises establishments primarily engaged in introducing molten aluminum, under high pressure, into molds or dies to make aluminum die-castings. Establishments in this industry purchase aluminum made in other establishments.

331522 NONFERROUS (EXCEPT ALUMINUM) DIE-CASTING FOUNDRIES

This U.S. industry comprises establishments primarily engaged in introducing molten nonferrous metal (except aluminum), under high pressure, into molds to make nonferrous metal die-castings. Establishments in this industry purchase nonferrous metals made in other establishments.

331524 ALUMINUM FOUNDRIES (EXCEPT DIE-CASTING)

This U.S. industry comprises establishments primarily engaged in pouring molten aluminum into molds to manufacture aluminum castings. Establishments in this industry purchase aluminum made in other establishments.

331525 COPPER FOUNDRIES (EXCEPT DIE-CASTING)

This U.S. industry comprises establishments primarily engaged in pouring molten copper into molds to manufacture copper castings. Establishments in this industry purchase copper made in other establishments.

331528 OTHER NONFERROUS FOUNDRIES (EXCEPT DIE-CASTING)

This U.S. industry comprises establishments primarily engaged in pouring molten nonferrous metals (except aluminum and copper) into molds to manufacture nonferrous castings (except aluminum die-castings, nonferrous (except aluminum) die-castings, aluminum castings, and copper castings). Establishments in this industry purchase nonferrous metals, such as nickel, lead, and zinc, made in other establishments.

332 FABRICATED METAL PRODUCT MANUFACTURING

Industries in the Fabricated Metal Product Manufacturing subsector transform metal into intermediate or end products, other than machinery, computers and electronics, and metal furniture or treating metals and metal formed products fabricated elsewhere. Important fabricated metal processes are forging, stamping, bending, forming, and machining, used to shape individual pieces of metal; and other processes, such as welding and assembling, used to join separate parts together. Establishments in this subsector may use one of these processes or a combination of these processes.

The NAICS structure for this subsector distinguishes the forging and stamping processes in a single industry. The remaining industries, in the subsector, group establishments based on similar combinations of processes used to make products.

The manufacturing performed in the Fabricated Metal Product Manufacturing subsector begins with manufactured metal shapes. The establishments in this sector further fabricate the purchased metal shapes into a product. For instance, the Spring and Wire Product Manufacturing industry starts with wire and fabricates such items.

Within manufacturing there are other establishments that make the same products made by this subsector; only these establishments begin production further back in the production process. These establishments have a more integrated operation. For instance, one establishment may manufacture steel, draw it into wire, and make wire products in the same establishment. Such operations are classified in the Primary Metal Manufacturing subsector.

3321 FORGING AND STAMPING

This industry group 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, and coins); and
4. Manufacturing powder metallurgy products.

Establishments making metal forgings, metal stampings, and metal spun products and further manufacturing (e.g., machining and 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.

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, and coins); and
4. manufacturing powder metallurgy products.

Establishments making metal forgings, metal stampings, and metal spun products and further manufacturing (e.g., machining and 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.

332112 NONFERROUS FORGING

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

332114 CUSTOM ROLL FORMING

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

332115 CROWN AND CLOSURE MANUFACTURING

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

332116 METAL STAMPING

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

332117 POWDER METALLURGY PART MANUFACTURING

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

3322 CUTLERY AND HANDTOOL MANUFACTURING

This industry group 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

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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).

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.

332212 HAND AND EDGE TOOL MANUFACTURING

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

332213 SAW BLADE AND HANDSAW MANUFACTURING

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

1. manufacturing nonpowered handsaws and/or
2. manufacturing saw blades, all types (including those for power sawing machines).

332214 KITCHEN UTENSIL, POT, AND PAN MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal kitchen utensils (except cutting-type), pots, and pans (except those manufactured by casting (e.g., cast iron skillets) or stamped without further fabrication).

3323 ARCHITECTURAL AND STRUCTURAL METALS MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing one or more of the following:

1. Plate work and fabricated structural product manufacturing and
2. 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.

332312 FABRICATED STRUCTURAL METAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in fabricating structural metal products, such as concrete reinforcing bars and fabricated bar joists.

332313 PLATE WORK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated metal plate work by cutting, punching, bending, shaping, and welding purchased metal plate.

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 (typically using purchased glass) and metal doors. Examples of products made by these establishments are: metal door frames; metal framed window and door screens; and metal molding and trim (except automotive).

332322 SHEET METAL WORK MANUFACTURING

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

332323 ORNAMENTAL AND ARCHITECTURAL METAL WORK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ornamental and architectural metal work, such as staircases, metal open steel flooring, fire escapes, railings, and scaffolding.

3324 BOILER, TANK, AND SHIPPING CONTAINER MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Power boiler and heat exchanger manufacturing;
2. Metal tank (heavy gauge) manufacturing; and
3. 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.

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.

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.

332439 OTHER METAL CONTAINER MANUFACTURING

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

3325 HARDWARE MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing metal hardware, such as metal hinges, metal handles, keys, and locks (except coin-operated and time locks).

33251 HARDWARE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing metal hardware, such as metal hinges, metal handles, keys, and locks (except coin-operated and time locks).

332510 HARDWARE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal hardware, such as metal hinges, metal handles, keys, and locks (except coin-operated and time locks).

3326 SPRING AND WIRE PRODUCT MANUFACTURING

This industry group 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).

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.

332612 SPRING (LIGHT GAUGE) MANUFACTURING

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

332618 OTHER FABRICATED WIRE PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated wire products (except springs) made from purchased wire.

3327 MACHINE SHOPS; TURNED PRODUCT; AND SCREW, NUT, AND BOLT MANUFACTURING

This industry group comprises establishments primarily engaged in:

1. Machine shops and/or
2. Turned product and screw, nut, and bolt manufacturing.

33271 MACHINE SHOPS

This industry comprises establishments primarily engaged in machining metal parts on a job or order basis (known as machine shops). 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 primarily engaged in machining metal parts on a job or order basis (known as machine shops). 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.

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 in manufacturing parts for machinery and equipment on a customized basis.

332721 PRECISION TURNED PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in machining precision products of all materials on a job or order basis (known as precision turned manufacturers). Generally precision turned product jobs are large volume using machines, such as automatic screw machines, rotary transfer machines, computer numerically controlled (CNC) lathes, or turning centers.

332722 BOLT, NUT, SCREW, RIVET, AND WASHER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal bolts, nuts, screws, rivets, washers, and other industrial fasteners using machines, such as headers, threaders, and nut forming machines.

3328 COATING, ENGRAVING, HEAT TREATING, AND ALLIED ACTIVITIES

This industry group comprises establishments primarily engaged in one or more of the following:

1. Heat treating metals and metal products;
2. Enameling, lacquering, and 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.

Included in this industry are establishments that coat engravings and heat treat metals and metal formed products fabricated elsewhere.

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, and 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.

Included in this industry are establishments that 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.

332812 METAL COATING, ENGRAVING (EXCEPT JEWELRY AND SILVERWARE), AND ALLIED SERVICES TO MANUFACTURERS

This U.S. industry comprises establishments primarily engaged in one or more of the following:

1. enameling, lacquering, and varnishing metals and metal products;
2. hot dip galvanizing metals and metal products;
3. engraving, chasing, or etching metals and metal products (except jewelry; personal goods carried on or about the person, such as compacts and cigarette cases; precious metal products (except precious plated flatware and other plated ware); and printing plates);
4. powder coating metals and metal products; and
5. providing other metal surfacing services for the trade.

332813 ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING

This U.S. industry comprises establishments primarily engaged in electroplating, plating, anodizing, coloring, buffing, polishing, cleaning, and sandblasting metals and metal products for the trade.

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.

332912 FLUID POWER VALVE AND HOSE FITTING MANUFACTURING

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

332913 PLUMBING FIXTURE FITTING AND TRIM MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal and plastics plumbing fixture fittings and trim, such as faucets, flush valves, and shower heads.

332919 OTHER METAL VALVE AND PIPE FITTING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal valves (except industrial valves, fluid power valves, fluid power hose fittings, and plumbing fixture fittings and trim).

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.

332992 SMALL ARMS AMMUNITION MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing small arms ammunition.

332993 AMMUNITION (EXCEPT SMALL ARMS) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ammunition (except small arms). Examples of products made by these establishments are bombs, depth charges, rockets (except guided missiles), grenades, mines, and torpedoes.

332994 SMALL ARMS MANUFACTURING

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

332995 OTHER ORDNANCE AND ACCESSORIES MANUFACTURING

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

332996 FABRICATED PIPE AND PIPE FITTING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in fabricating, such as cutting, threading, and bending metal pipes and pipe fittings made from purchased metal pipe.

332997 INDUSTRIAL PATTERN MANUFACTURING

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

332998 ENAMELED IRON AND METAL SANITARY WARE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing enameled iron and metal sanitary ware.

332999 ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metals, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, nuts and bolts, metal valves, ball and roller bearings, ammunition, small arms and other ordnances, fabricated pipes and pipe fittings, industrial patterns, and enameled iron and metal sanitary ware).

333 MACHINERY MANUFACTURING

Industries in the Machinery Manufacturing subsector create end products that apply mechanical force, for example, the application of gears and levers, to perform work. Some important processes for the manufacture of machinery are forging, stamping, bending, forming, and machining that are used to shape individual pieces of metal. Processes, such as welding and assembling are used to join separate parts together. Although these processes are similar to those used in metal fabricating establishments, machinery manufacturing is different because it typically employs multiple metal forming processes in manufacturing the various parts of the machine. Moreover, complex assembly operations are an inherent part of the production process.

In general, design considerations are very important in machinery production. Establishments specialize in making machinery designed for particular applications. Thus, design is considered to be part of the production process for the purpose of implementing NAICS. The NAICS structure reflects this by defining industries and industry groups that make machinery for different applications. A broad distinction exists between machinery that is generally used in a variety of industrial applications (i.e., general purpose machinery) and machinery that is designed to be used in a particular industry (i.e., special purpose machinery). Three industry groups consist of special purpose machinery--Agricultural, Construction, and Mining Machinery Manufacturing; Industrial Machinery

Manufacturing; and Commercial and Service Industry Machinery Manufacturing. The other industry groups make general-purpose machinery: Ventilation, Heating, Air Conditioning, and Commercial Refrigeration Equipment Manufacturing; Metalworking Machinery Manufacturing; Engine, Turbine, and Power Transmission Equipment Manufacturing; and Other General Purpose Machinery Manufacturing.

3331 AGRICULTURE, CONSTRUCTION, AND MINING MACHINERY MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Agricultural implement manufacturing;
2. Construction machinery manufacturing; and
3. 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).

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.

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.

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, and rock drills and
2. manufacturing mineral beneficiating machinery and equipment used in surface or underground mines.

333132 OIL AND GAS FIELD MACHINERY AND EQUIPMENT MANUFACTURING

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

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1. manufacturing oil and gas field machinery and equipment, such as oil and gas field drilling machinery and equipment; oil and gas field production machinery and equipment; and oil and gas field derricks; and
 2. manufacturing water well drilling machinery.

3332 INDUSTRIAL MACHINERY MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Sawmill and woodworking machinery manufacturing;
2. Plastics and rubber industry machinery manufacturing; and
3. Other industrial machinery manufacturing.

33321 SAWMILL AND WOODWORKING MACHINERY MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing sawmill and wood-working 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.

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.

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.

333292 TEXTILE MACHINERY MANUFACTURING

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

333293 PRINTING MACHINERY AND EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing printing and bookbinding machinery and equipment, such as printing presses, typesetting machinery, and bindery machinery.

333294 FOOD PRODUCT MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing food and beverage manufacturing-type machinery and equipment, such as dairy product plant machinery and equipment (e.g., homogenizers, pasteurizers, and ice cream freezers), bakery machinery and equipment (e.g., dough mixers, bake ovens, and pastry rolling machines), meat and poultry processing and preparation machinery, and other commercial food products machinery (e.g., slicers, choppers, and mixers).

333295 SEMICONDUCTOR MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wafer processing equipment, semiconductor assembly and packaging equipment, and other semiconductor making machinery.

333298 ALL OTHER INDUSTRIAL MACHINERY MANUFACTURING

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

3333 COMMERCIAL AND SERVICE INDUSTRY MACHINERY MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing commercial and service machinery, such as automatic vending machinery, commercial laundry and dry-cleaning 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.

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 dry-cleaning 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.

333312 COMMERCIAL LAUNDRY, DRYCLEANING, AND PRESSING MACHINE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing commercial and industrial laundry and drycleaning equipment and pressing machines.

333313 OFFICE MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing office machinery (except computers and photocopying equipment), such as mailhandling machinery and equipment, calculators, typewriters, and dedicated word processing equipment.

333314 OPTICAL INSTRUMENT AND LENS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following:

1. manufacturing optical instruments and lens, such as binoculars, microscopes (except electron and proton), telescopes, prisms, and lenses (except ophthalmic);
2. coating or polishing lenses (except ophthalmic); and
3. mounting lenses (except ophthalmic).

333315 PHOTOGRAPHIC AND PHOTOCOPYING EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing photographic and photocopying equipment, such as cameras (except television, video, and digital), projectors, film developing equipment, photocopying equipment, and microfilm equipment.

333319 OTHER COMMERCIAL AND SERVICE INDUSTRY MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing commercial and service industry equipment (except automatic vending machines, commercial laundry, drycleaning and pressing machines, office machinery, optical instruments and lenses, and photographic and photocopying equipment).

3334 VENTILATION, HEATING, AIR-CONDITIONING, AND COMMERCIAL REFRIGERATION EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing ventilation, heating, air-conditioning, and commercial and industrial refrigeration and freezer equipment.

33341 VENTILATION, HEATING, AIR-CONDITIONING, AND COMMERCIAL REFRIGERATION EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing ventilation, heating, air-conditioning, and commercial and industrial refrigeration and freezer equipment.

333411 AIR PURIFICATION EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing stationary air purification equipment, such as industrial dust and fume collection equipment, electrostatic precipitation equipment, warm air furnace filters, air washers, and other dust collection equipment.

333412 INDUSTRIAL AND COMMERCIAL FAN AND BLOWER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing attic fans and industrial and commercial fans and blowers, such as commercial exhaust fans and commercial ventilating fans.

333414 HEATING EQUIPMENT (EXCEPT WARM AIR FURNACES) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing heating equipment (except electric and warm air furnaces), such as heating boilers, heating stoves, floor and wall furnaces, and wall and baseboard heating units.

333415 AIR-CONDITIONING AND WARM AIR HEATING EQUIPMENT AND COMMERCIAL AND INDUSTRIAL REFRIGERATION EQUIPMENT MANUFACTURING

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

1. manufacturing air-conditioning (except motor vehicle) and warm air furnace equipment and/or
2. manufacturing commercial and industrial refrigeration and freezer equipment.

3335 METALWORKING MACHINERY MANUFACTURING

This industry group 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.

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.

333512 MACHINE TOOL (METAL CUTTING TYPES) MANUFACTURING

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

333513 MACHINE TOOL (METAL FORMING TYPES) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal forming machine tools (except handtools), such as punching, sheering, bending, forming, pressing, forging, and die-casting machines.

333514 SPECIAL DIE AND TOOL, DIE SET, JIG, AND FIXTURE MANUFACTURING

This U.S. industry comprises establishments, known as tool and die shops, primarily engaged in manufacturing special tools and fixtures, such as cutting dies and jigs.

333515 CUTTING TOOL AND MACHINE TOOL ACCESSORY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing accessories and attachments for metal cutting and metal forming machine tools.

333516 ROLLING MILL MACHINERY AND EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing rolling mill machinery and equipment for metal production.

333518 OTHER METALWORKING MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal working machinery (except industrial molds; metal cutting machine tools; metal forming machine tools; special dies and tools, die sets, jigs, and fixtures; cutting tools and machine tool accessories; and rolling mill machinery and equipment).

3336 ENGINE, TURBINE, AND POWER TRANSMISSION EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing turbines, power transmission equipment, and internal combustion engines (except automotive, gasoline, and aircraft).

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.

333612 SPEED CHANGER, INDUSTRIAL HIGH-SPEED DRIVE, AND GEAR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing gears, speed changers, and industrial high-speed drives (except hydrostatic).

333613 MECHANICAL POWER TRANSMISSION EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing mechanical power transmission equipment (except motor vehicle and aircraft), such as plain bearings, clutches (except motor vehicle and electromagnetic industrial control), couplings, joints, and drive chains.

333618 OTHER ENGINE EQUIPMENT MANUFACTURING

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

3339 OTHER GENERAL PURPOSE MACHINERY MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Pump and compressor manufacturing;
2. Material handling equipment manufacturing; and
3. 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.

333912 AIR AND GAS COMPRESSOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing general purpose air and gas compressors, such as reciprocating compressors, centrifugal compressors, vacuum pumps (except laboratory), and nonagricultural spraying and dusting compressors and spray gun units.

333913 MEASURING AND DISPENSING PUMP MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing measuring and dispensing pumps, such as gasoline pumps and lubricating oil measuring and dispensing pumps.

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.

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.

333923 OVERHEAD TRAVELING CRANE, HOIST, AND MONORAIL SYSTEM MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing overhead traveling cranes, hoists, and monorail systems.

333924 INDUSTRIAL TRUCK, TRACTOR, TRAILER, AND STACKER MACHINERY MANUFACTURING

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

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, and pneumatic) handtools, such as drills, screwguns, circular saws, chain saws, staplers, and nailers.

333992 WELDING AND SOLDERING EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing welding and soldering equipment and accessories (except transformers), such as arc, resistance, gas, plasma, laser, electron beam, and ultrasonic welding equipment; welding electrodes; coated or cored welding wire; and soldering equipment (except handheld).

333993 PACKAGING MACHINERY MANUFACTURING

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

333994 INDUSTRIAL PROCESS FURNACE AND OVEN MANUFACTURING

This U.S. Industry comprises establishments primarily engaged in manufacturing industrial process furnaces, ovens, induction and dielectric heating equipment, and kilns (except cement, chemical, and wood).

333995 FLUID POWER CYLINDER AND ACTUATOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power (i.e., hydraulic and pneumatic) cylinders and actuators.

333996 FLUID POWER PUMP AND MOTOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power (i.e., hydraulic and pneumatic) pumps and motors.

333997 SCALE AND BALANCE (EXCEPT LABORATORY) MANUFACTURING

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

333999 ALL OTHER MISCELLANEOUS GENERAL PURPOSE MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing general purpose machinery (except ventilating, heating, air-conditioning, and commercial refrigeration equipment; metal working machinery; engines, turbines, and power transmission equipment; pumps and compressors; material handling equipment; power-driven handtools; welding and soldering equipment; packaging machinery; industrial process furnaces and ovens; fluid power cylinders and actuators; fluid power pumps and motors; and scales and balances).

334 COMPUTER AND ELECTRONIC PRODUCT MANUFACTURING

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

3341 COMPUTER AND PERIPHERAL EQUIPMENT MANUFACTURING

This industry group 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:

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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.

33411 COMPUTER AND PERIPHERAL EQUIPMENT MANUFACTURING

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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.

334112 COMPUTER STORAGE DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing computer storage devices that allow the storage and retrieval of data from a phase change, magnetic, optical, or magnetic/optical media. Examples of products made by these establishments are CD-ROM drives, floppy disk drives, hard disk drives, and tape storage and backup units.

334113 COMPUTER TERMINAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing computer terminals. Computer terminals are input/output devices that connect with a central computer for processing.

334119 OTHER COMPUTER PERIPHERAL EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing computer peripheral equipment (except storage devices and computer terminals).

3342 COMMUNICATIONS EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Telephone apparatus manufacturing;
2. Radio and television broadcasting and wireless communications equipment manufacturing; and
3. 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, LAN modems, multi-user modems, and other data communications equipment, such as bridges, routers, and gateways.

334210 TELEPHONE APPARATUS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wire telephone and data communications equipment. These products may be stand-alone or board-level components of a larger system. Examples of products made by these establishments are central office switching equipment, cordless telephones (except cellular), PBX equipment, telephones, telephone answering machines, and data communications equipment, such as bridges, routers, and gateways.

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.

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).

3343 AUDIO AND VIDEO EQUIPMENT MANUFACTURING

This industry group 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.

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.

3344 SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING

This industry group 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.

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.

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.

334413 SEMICONDUCTOR AND RELATED DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing semiconductors and related solid state devices. Examples of products made by these establishments are integrated circuits, memory chips, microprocessors, diodes, transistors, solar cells and other optoelectronic devices.

334414 ELECTRONIC CAPACITOR MANUFACTURING

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

334415 ELECTRONIC RESISTOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electronic resistors, such as fixed and variable resistors, resistor networks, thermistors, and varistors.

334416 ELECTRONIC COIL, TRANSFORMER, AND OTHER INDUCTOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electronic inductors, such as coils and transformers.

334417 ELECTRONIC CONNECTOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electronic connectors, such as coaxial; cylindrical; rack and panel; pin and sleeve; printed circuit; and fiber optic.

334418 PRINTED CIRCUIT ASSEMBLY (ELECTRONIC ASSEMBLY) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in loading components onto printed circuit boards or who manufacture and ship loaded printed circuit boards. Also known as printed circuit assemblies, electronics assemblies, or modules, these products are printed circuit boards that have some or all of the semiconductor and electronic components inserted or mounted and are inputs to a wide variety of electronic systems and devices.

334419 OTHER ELECTRONIC COMPONENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electronic components (except electron tubes; bare printed circuit boards; semiconductors and related devices; electronic capacitors; electronic resistors; coils, transformers, and other inductors; connectors; and loaded printed circuit boards).

3345 NAVIGATIONAL, MEASURING, ELECTROMEDICAL, AND CONTROL INSTRUMENTS MANUFACTURING

This industry group 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.

33451 NAVIGATIONAL, MEASURING, ELECTROMEDICAL, 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.

334511 SEARCH, DETECTION, NAVIGATION, GUIDANCE, AERONAUTICAL, AND NAUTICAL SYSTEM AND INSTRUMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing search, detection, navigation, guidance, aeronautical, and nautical systems and instruments. Examples of products made by these establishments are aircraft instruments (except engine), flight recorders, navigational instruments and systems, radar systems and equipment, and sonar systems and equipment.

334512 AUTOMATIC ENVIRONMENTAL CONTROL MANUFACTURING FOR RESIDENTIAL, COMMERCIAL, AND APPLIANCE USE

This U.S. industry comprises establishments primarily engaged in manufacturing automatic controls and regulators for applications, such as heating, air-conditioning, refrigeration, and appliances.

334513 INSTRUMENTS AND RELATED PRODUCTS MANUFACTURING FOR MEASURING, DISPLAYING, AND CONTROLLING INDUSTRIAL PROCESS VARIABLES

This U.S. industry comprises establishments primarily engaged in manufacturing instruments and related devices for measuring, displaying, indicating, recording, transmitting, and controlling industrial process variables. These instruments measure, display, or control (i.e., monitor and analyze) industrial process variables, such as temperature, humidity, pressure, vacuum, combustion, flow, level, viscosity, density, acidity, concentration, and rotation.

334514 TOTALIZING FLUID METER AND COUNTING DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing totalizing (i.e., registering) fluid meters and counting devices. Examples of products made by these establishments are gas consumption meters, water consumption meters, parking meters, taxi meters, motor vehicle gauges, and fare collection equipment.

334515 INSTRUMENT MANUFACTURING FOR MEASURING AND TESTING ELECTRICITY AND ELECTRICAL SIGNALS

This U.S. industry comprises establishments primarily engaged in manufacturing instruments for measuring and testing the characteristics of electricity and electrical signals. Examples of products made by these establishments are circuit and continuity testers, volt meters, ohm meters, wattmeters, multimeters, and semiconductor test equipment.

334516 ANALYTICAL LABORATORY INSTRUMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing instruments and instrumentation systems for laboratory analysis of the chemical or physical composition or concentration of samples of solid, fluid, gaseous, or composite material.

334517 IRRADIATION APPARATUS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing irradiation apparatus and tubes for applications, such as medical diagnostic, medical therapeutic, industrial, and research and scientific evaluation. Irradiation can take the form of beta-rays, gamma-rays, X-rays, or other ionizing radiation.

334518 WATCH, CLOCK, AND PART MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or assembling: clocks; watches; timing mechanisms for clockwork operated devices; time clocks; time and date recording devices; and clock and watch parts (except crystals), such as springs, jewels, and modules.

334519 OTHER MEASURING AND CONTROLLING DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing measuring and controlling devices (except search, detection, navigation, guidance, aeronautical, and nautical instruments and systems; automatic environmental controls for residential, commercial, and appliance use; instruments for measurement, display, and control of industrial process variables; totalizing fluid meters and counting devices; instruments for measuring and testing electricity and electrical signals; analytical laboratory instruments; watches, clocks, and parts; irradiation equipment; and electromedical and electrotherapeutic apparatus).

3346 MANUFACTURING AND REPRODUCING MAGNETIC AND OPTICAL MEDIA

This industry group 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.

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.

334612 PRERECORDED COMPACT DISC (EXCEPT SOFTWARE), TAPE, AND RECORD REPRODUCING

This U.S. industry comprises establishments primarily engaged in mass reproducing audio and video material on magnetic or optical media. Examples of products mass reproduced by these establishments are audio compact discs, prerecorded audio and video cassettes, and laser discs.

334613 MAGNETIC AND OPTICAL RECORDING MEDIA MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing magnetic and optical recording media, such as blank magnetic tape, blank diskettes, blank optical discs, hard drive media, and blank magnetic tape cassettes.

335 ELECTRICAL EQUIPMENT, APPLIANCE, AND COMPONENT MANUFACTURING

Industries in the Electrical Equipment, Appliance, and Component Manufacturing subsector manufacture products that generate, distribute and use electrical power. Electric Lighting Equipment Manufacturing establishments produce electric lamp bulbs, lighting fixtures, and parts. Household

Appliance Manufacturing establishments make both small and major electrical appliances and parts. Electrical Equipment Manufacturing establishments make goods, such as electric motors, generators, transformers, and switchgear apparatus. Other Electrical Equipment and Component Manufacturing establishments make devices for storing electrical power (e.g., batteries), for transmitting electricity (e.g., insulated wire), and wiring devices (e.g., electrical outlets, fuse boxes, and light switches).

3351 ELECTRIC LIGHTING EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Electric lamp bulb and part manufacturing and/or
2. Lighting fixture manufacturing.

33511 ELECTRIC LAMP BULB AND PART 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).

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.

335122 COMMERCIAL, INDUSTRIAL, AND INSTITUTIONAL ELECTRIC LIGHTING FIXTURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing commercial, industrial, and institutional electric lighting fixtures.

335129 OTHER LIGHTING EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electric lighting fixtures (except residential, commercial, industrial, institutional, and vehicular) and nonelectric lighting equipment.

3352 HOUSEHOLD APPLIANCE MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Small electrical appliance manufacturing and/or
2. 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).

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.

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).

335222 HOUSEHOLD REFRIGERATOR AND HOME FREEZER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing household-type refrigerators and upright and chest freezers.

335224 HOUSEHOLD LAUNDRY EQUIPMENT MANUFACTURING

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

335228 OTHER MAJOR HOUSEHOLD APPLIANCE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electric and non-electric major household-type appliances (except cooking equipment, refrigerators, upright and chest freezers, and household-type laundry equipment).

3353 ELECTRICAL EQUIPMENT MANUFACTURING

This industry group 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.

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.

335312 MOTOR AND GENERATOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electric motors (except internal combustion engine starting motors), power generators (except battery charging alternators for internal combustion engines), and motor generator sets (except turbine generator set units). This industry includes establishments rewinding armatures on a factory basis.

335313 SWITCHGEAR AND SWITCHBOARD APPARATUS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing switchgear and switchboard apparatus.

335314 RELAY AND INDUSTRIAL CONTROL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing relays, motor starters and controllers, and other industrial controls and control accessories.

3359 OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING

This industry group comprises establishments primarily engaged in 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.

335912 PRIMARY BATTERY MANUFACTURING

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

33592 COMMUNICATION AND ENERGY WIRE AND CABLE MANUFACTURING

This industry comprises establishments insulating fiber-optic cable, and manufacturing insulated nonferrous wire and cable from nonferrous wire drawn in other establishments.

335921 FIBER OPTIC CABLE MANUFACTURING

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

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.

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.

335932 NONCURRENT-CARRYING WIRING DEVICE MANUFACTURING

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

33599 ALL OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing electrical equipment (except electric lighting equipment, household-type appliances, transformers, motors, generators, switchgear, relays, industrial controls, batteries, communication and energy wire and cable, and wiring devices).

335991 CARBON AND GRAPHITE PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing carbon, graphite, and metal-graphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; carbon and graphite fibers; and other carbon, graphite, and metal-graphite products.

335999 ALL OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing industrial and commercial electric apparatus and other equipment (except lighting equipment, household appliances, transformers, motors, generators, switchgear, relays, industrial controls, batteries, communication and energy wire and cable, wiring devices, and carbon and graphite products). This industry includes power converters (i.e., AC to DC and DC to AC), power supplies, surge suppressors, and similar equipment for industrial-type and consumer-type equipment.

336 TRANSPORTATION EQUIPMENT MANUFACTURING

Industries in the Transportation Equipment Manufacturing subsector produce equipment for transporting people and goods. Transportation equipment is a type of machinery. An entire subsector is devoted to this activity because of the significance of its economic size in all three North American countries.

Establishments in this subsector utilize production processes similar to those of other machinery manufacturing establishments - bending, forming, welding, machining, and assembling metal or plastic parts into components and finished products. However, the assembly of components and subassemblies and their further assembly into finished vehicles tends to be a more common production process in this subsector than in the Machinery Manufacturing subsector.

NAICS has industry groups for the manufacture of equipment for each mode of transport - road, rail, air and water. Parts for motor vehicles warrant a separate industry group because of their importance and because parts manufacture requires less assembly, and the establishments that manufacture only parts are not as vertically integrated as those that make complete vehicles.

Land use motor vehicle equipment not designed for highway operation (e.g., agricultural equipment, construction equipment, and materials handling equipment) is classified in the appropriate NAICS subsector based on the type and use of the equipment.

3361 MOTOR VEHICLE MANUFACTURING

This industry group comprises establishments primarily engaged in:

1. Automobile and light duty motor vehicle manufacturing and/or
2. Heavy duty truck manufacturing.

33611 AUTOMOBILE AND LIGHT DUTY MOTOR VEHICLE MANUFACTURING

This industry comprises establishments primarily engaged in:

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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.

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.

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.

3362 MOTOR VEHICLE BODY AND TRAILER MANUFACTURING

This industry group 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.

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.

336212 TRUCK TRAILER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing truck trailers, truck trailer chassis, cargo container chassis, detachable trailer bodies, and detachable trailer chassis for sale separately.

336213 MOTOR HOME MANUFACTURING

This U.S. industry group 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.

336214 TRAVEL TRAILER AND CAMPER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following:

1. manufacturing travel trailers and campers designed to attach to motor vehicles;
2. manufacturing pickup coaches (i.e., campers) and caps (i.e., covers) for mounting on pickup trucks; and
3. manufacturing automobile, utility, and light-truck trailers.

Travel trailers do not have their own motor but are designed to be towed by a motor unit, such as an automobile or a light truck.

3363 MOTOR VEHICLE PARTS MANUFACTURING

This industry group comprises establishments primarily engaged in:

1. Motor vehicle gasoline engine and engine parts manufacturing;
2. Motor vehicle electrical and electronic equipment manufacturing;
3. Motor vehicle steering and suspension components (except spring) manufacturing;
4. Motor vehicle brake system manufacturing;
5. Motor vehicle transmission and power train parts manufacturing;
6. Motor vehicle seating and interior trim manufacturing;
7. Motor vehicle metal stamping; and/or
8. 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.

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.

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, and ships).

336321 VEHICULAR LIGHTING EQUIPMENT MANUFACTURING

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

336322 OTHER MOTOR VEHICLE ELECTRICAL AND ELECTRONIC EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding electrical and electronic equipment for motor vehicles and internal combustion engines.

33633 MOTOR VEHICLE STEERING AND SUSPENSION COMPONENTS (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 COMPONENTS (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).

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.

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.

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.

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.

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.

336399 ALL OTHER MOTOR VEHICLE PARTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle parts and accessories (except motor vehicle gasoline engines and engine parts, motor vehicle electrical and electronic equipment, motor vehicle steering and suspension components, motor vehicle brake systems, motor vehicle transmission and power train parts, motor vehicle seating and interior trim, motor vehicle stampings, and motor vehicle air-conditioning systems and compressors).

3364 AEROSPACE PRODUCT AND PARTS MANUFACTURING

This industry group 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).

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).

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).

336413 OTHER AIRCRAFT PARTS AND AUXILIARY EQUIPMENT MANUFACTURING

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

1. manufacturing aircraft parts or auxiliary equipment (except engines and aircraft fluid power subassemblies) and/or
2. developing and making prototypes of aircraft parts and auxiliary equipment.

Auxiliary equipment includes such items as crop dusting apparatus, armament racks, inflight refueling equipment, and external fuel tanks.

336414 GUIDED MISSILE AND SPACE VEHICLE MANUFACTURING

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

1. manufacturing complete guided missiles and space vehicles and/or
2. developing and making prototypes of guided missile or space vehicles.

336415 GUIDED MISSILE AND SPACE VEHICLE PROPULSION UNIT AND PROPULSION UNIT PARTS MANUFACTURING

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

1. manufacturing guided missile and/or space vehicle propulsion units and propulsion unit parts and/or

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2. developing and making prototypes of guided missile and space vehicle propulsion units and propulsion unit parts.

336419 OTHER GUIDED MISSILE AND SPACE VEHICLE PARTS AND AUXILIARY EQUIPMENT MANUFACTURING

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

1. manufacturing guided missile and space vehicle parts and auxiliary equipment (except guided missile and space vehicle propulsion units and propulsion unit parts) and/or
2. developing and making prototypes of guided missile and space vehicle parts and auxiliary equipment.

3365 RAILROAD ROLLING STOCK MANUFACTURING

This industry group 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.

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.

3366 SHIP AND BOAT BUILDING

This industry group 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.

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.

336612 BOAT BUILDING

This U.S. industry comprises establishments primarily engaged in building boats. Boats are defined as watercraft not built in shipyards and typically of the type suitable or intended for personal use.

3369 OTHER TRANSPORTATION EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing transportation equipment (except motor vehicles and parts, aerospace products and parts, railroad rolling stock, ship building, and boat manufacturing).

33699 OTHER TRANSPORTATION EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, metal tricycles, complete military armored vehicles, tanks, self-propelled weapons, vehicles pulled by draft animals, and other transportation equipment (except motor vehicles, boats, ships, railroad rolling stock, and aerospace products), including parts thereof.

336991 MOTORCYCLE, BICYCLE, AND PARTS MANUFACTURING

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

336992 MILITARY ARMORED VEHICLE, TANK, AND TANK COMPONENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing complete military armored vehicles, combat tanks, specialized components for combat tanks, and self-propelled weapons.

336999 ALL OTHER TRANSPORTATION EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing transportation equipment (except motor vehicles, motor vehicle parts, boats, ships, railroad rolling stock, aerospace products, motorcycles, bicycles, and armored vehicles and tanks).

337 FURNITURE AND RELATED PRODUCT MANUFACTURING

Industries in the Furniture and Related Product Manufacturing subsector make furniture and related articles, such as mattresses, window blinds, cabinets, and fixtures. The processes used in the manufacture of furniture include the cutting, bending, molding, laminating, and assembly of such materials as wood, metal, glass, plastics, and rattan. However, the production process for

furniture is not solely bending metal, cutting and shaping wood, or extruding and molding plastics. Design and fashion trends play an important part in the production of furniture. The integrated design of the article for both 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.

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.

337122 NONUPHOLSTERED WOOD HOUSEHOLD FURNITURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonupholstered wood household-type furniture and freestanding cabinets (except television, radio, and sewing machine cabinets). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337124 METAL HOUSEHOLD FURNITURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal household-type furniture and freestanding cabinets. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337125 HOUSEHOLD FURNITURE (EXCEPT WOOD AND METAL) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing household-type furniture of materials other than wood or metal, such as plastics, reed, rattan, wicker, and fiberglass. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337127 INSTITUTIONAL FURNITURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing institutional-type furniture (e.g., library, school, theater, and church furniture). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337129 WOOD TELEVISION, RADIO, AND SEWING MACHINE CABINET MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wood cabinets used as housings by television, stereo, loudspeaker, and sewing machine manufacturers.

3372 OFFICE FURNITURE (INCLUDING FIXTURES) MANUFACTURING

This industry group 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).

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).

337212 CUSTOM ARCHITECTURAL WOODWORK AND MILLWORK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing custom designed interiors consisting of architectural woodwork and fixtures utilizing wood, wood products, and plastics laminates. All of the industry output is made to individual order on a job shop basis and requires skilled craftsmen as a labor input. A job might include custom manufacturing of display fixtures, gondolas, wall shelving units, entrance and window architectural detail, sales and reception counters, wall paneling, and matching furniture.

337214 OFFICE FURNITURE (EXCEPT WOOD) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonwood office-type furniture. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337215 SHOWCASE, PARTITION, SHELVING, AND LOCKER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wood and nonwood office and store fixtures, shelving, lockers, frames, partitions, and related fabricated products of wood and nonwood materials, including plastics laminated fixture tops. The products are made on a stock basis and may be assembled or unassembled (i.e., knockdown). Establishments exclusively making furniture parts (e.g., frames) are included in this industry.

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).

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).

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.

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:

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1. venetian blinds, other window blinds, shades;
 2. curtain and drapery rods, poles; and/or
 3. curtain and drapery fixtures.

The blinds and shades may be made on a stock or custom basis and may be made of any material.

339 MISCELLANEOUS MANUFACTURING

Industries in the Miscellaneous Manufacturing subsector make a wide range of products that cannot readily be classified in specific NAICS subsectors in manufacturing. Processes used by these establishments vary significantly, both among and within industries. For example, a variety of manufacturing processes are used in manufacturing sporting and athletic goods that include products, such as tennis racquets and golf balls. The processes for these products differ from each other, and the processes differ significantly from the fabrication processes used in making dolls or toys, the melting and shaping of precious metals to make jewelry, and the bending, forming, and assembly used in making medical products.

The industries in this subsector are defined by what is made rather than how it is made. Although individual establishments might be appropriately classified elsewhere in the NAICS structure, for historical continuity, these product-based industries were maintained. In most cases, no one process or material predominates for an industry.

Establishments in this subsector manufacture products as diverse as medical equipment and supplies, jewelry, sporting goods, toys, and office supplies.

3391 MEDICAL EQUIPMENT AND SUPPLIES MANUFACTURING

This industry group 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.

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.

For this industry, the 1997 Economic Census did not fully implement the conversion to NAICS. The data from 1997 to 2001 for NAICS industry 339111 did not include establishments primarily engaged in the manufacture of hospital beds and other hospital furniture. These establishments are included in the 2002 Economic Census data.

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, electro-medical and irradiation apparatus). Examples of products made by these establishments are syringes, hypodermic needles, anesthesia apparatus, blood transfusion equipment, catheters, surgical clamps, and medical thermometers.

339113 SURGICAL APPLIANCE AND SUPPLIES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing surgical appliances and supplies. Examples of products made by these establishments are orthopedic devices, prosthetic appliances, surgical dressings, crutches, surgical sutures, and personal industrial safety devices (except protective eyewear).

339114 DENTAL EQUIPMENT AND SUPPLIES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing dental equipment and supplies used by dental laboratories and offices of dentists, such as dental chairs, dental instrument delivery systems, dental hand instruments, and dental impression material and dental cements.

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, reading glasses made to standard powers, and protective eyewear.

339116 DENTAL LABORATORIES

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

3399 OTHER MISCELLANEOUS MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following:

1. Jewelry and silverware manufacturing;
2. Sporting and athletic goods manufacturing;
3. Doll, toy, and game manufacturing;
4. Office supplies (except paper) manufacturing;
5. Sign manufacturing; and/or
6. 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 group comprises establishments primarily engaged in one of the following:

1. manufacturing, engraving, chasing, or etching precious metal solid or precious metal clad jewelry;
2. manufacturing, engraving, chasing, or etching personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases) made of precious solid or clad metal; and
3. stamping coins.

339912 SILVERWARE AND HOLLOWWARE 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 hollowware.

339913 JEWELERS' MATERIAL AND LAPIDARY WORK MANUFACTURING

This U.S. industry group comprises establishments primarily engaged in one of the following:

1. manufacturing unassembled jewelry parts and stock shop products, such as sheet, wire, and tubing;
2. cutting, slabbing, tumbling, carving, engraving, polishing, or faceting precious or semiprecious stones and gems;
3. recutting, repolishing, and setting gem stones; and
4. drilling, sawing, and peeling cultured pearls.

339914 COSTUME JEWELRY AND NOVELTY MANUFACTURING

This U.S. industry group comprises establishments primarily engaged in one of the following:

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.

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).

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.

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).

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.

339942 LEAD PENCIL AND ART GOOD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonmechanical pencils and art goods. Examples of products made by these establishments are pencil leads, crayons, chalk, framed blackboards, pencil sharpeners, staplers, artists' palettes and paints, and modeling clay.

339943 MARKING DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing marking devices, such as hand operated stamps, embossing stamps, stamp pads, and stencils.

339944 CARBON PAPER AND INKED RIBBON MANUFACTURING

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

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, and 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, and displays).

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.

339992 MUSICAL INSTRUMENT MANUFACTURING

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

339993 FASTENER, BUTTON, NEEDLE, AND PIN MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fasteners, buttons, needles, pins, and buckles (except precious metals or precious and semiprecious stones and gems).

339994 BROOM, BRUSH, AND MOP MANUFACTURING

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

339995 BURIAL CASKET MANUFACTURING

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

339999 ALL OTHER MISCELLANEOUS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in miscellaneous manufacturing (except medical equipment and supplies, jewelry and flatware, sporting and athletic goods, dolls, toys, games, office supplies (except paper), musical instruments, fasteners, buttons, needles, pins, brooms, brushes, mops, and burial caskets).

Appendix C. Methodology

SOURCES OF THE DATA

The manufacturing sector includes approximately 350,000 establishments. This number includes those industries in the North American Industry Classification System (NAICS) definition of manufacturing. The amount of information requested from manufacturing establishments was 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).

Establishments in the 2002 Economic Census are divided into those sent report forms and those not sent report forms. The coverage of and the method of obtaining census information from each are described below:

1. Establishments sent a report form:

- 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-10000) 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 473 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 certain cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materials-consumed inquiry, which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided

for the respondent to describe significant materials not listed on the form.

A wide variety of special inquiries were 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 “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 “not specified by kind” (nsk) categories.

2. Establishments not sent a report form:

- a. 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 the Census Bureau’s ability to assign the correct six-digit NAICS industry classification to the establishment. For each six-digit NAICS 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 that 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 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 NAICS group classification codes available in the files. For 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.

- b. All nonemployers, i.e., all firms subject to federal income tax, with no paid employees, during 2002 are excluded as in previous censuses. Data for nonemployers are not included in this report, but are released in the annual *Nonemployer Statistics* series.

The report forms used to collect information for establishments in this sector are available at help.econ.census.gov/econhelp/resources/.

A more detailed examination of census methodology is presented in the *History of the Economic Census* at www.census.gov/econ/www/history.html.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

The classifications for all establishments covered in the 2002 Economic Census — Manufacturing are classified in 1 of 473 industries in accordance with the industry definitions in the *North American Industry Classification System (NAICS), United States, 2002* manual. There were no changes between the 2002 edition and the 1997 edition affecting this sector. When applicable, Appendix F of this report shows the product class and product comparability between the two systems for data in this report.

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

The coding system works in such a way that the definitions progressively become narrower with successive additions of numerical digits. In the manufacturing sector for 2002, 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). Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. There are 1,450 product classes (seven-digit codes), 5,674 census products, and an additional 3,746 ten-digit product codes. The ten-digit products are considered the primary products of the industry with the same first six digits.

For the 2002 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 2002, 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 that 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 2002 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 2002, 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 2002 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 ASM sample is drawn for the second survey year after a census. The most recent sample was drawn for the 1999 survey year based on the 1997 Economic Census — Manufacturing. This sample will be in place through the 2003 ASM.

In 1997, there were approximately 370,000 individual manufacturing establishments. For sample efficiency and cost considerations, the establishments in the 1997 manufacturing population were partitioned into two components for developing estimates within the ASM. The details of each are described below:

1. 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 200,000 of the 370,000 establishments in the 1997 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 1999 survey, a new sample of approximately 58,000 individual establishments was selected from the mail stratum assembled from the 1997 census. Supplemental samples representing both 1998 and 1999 births (newly active establishments that were not included in the 1997 census) were also selected. Establishments selected for the sample are mailed an ASM survey questionnaire for each year through 2003.

The 1999-2003 ASM sample design is similar to the one used since 1984. Companies in the 1997 Economic Census — Manufacturing 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 1999-2003 sample, there are approximately 500 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. Across these 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 1997 Economic Census — Manufacturing.

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 1997 industry classification and its 1997 product class data. For each product class (1,755) and six-digit industry (473), 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 the Census Bureau's 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) that permits us to prevent small establishments from being selected in consecutive samples without introducing a bias into the survey estimates.

2. Nonmail stratum. The initial nonmail component of the survey was comprised of approximately 170,000 small, single-establishment companies that were tabulated as administrative records in the 1997 Economic Census — Manufacturing. 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.

RELIABILITY OF DATA

All data compiled in the economic census are subject to nonsampling errors. Nonsampling errors can be attributed to many sources during the development or execution of the census. The following are two ways that further explain this method: 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 1997 (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 1998-2002 ASM estimates, the 1997 Economic Census — Manufacturing values serve as the base year. For the 2003 ASM, the base will be updated to be the 2002 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 contained approximately 170,000 individual establishments in 1999, 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. ASM Data Qualifications. The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sample lists, but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the difference between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of estimates.

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

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

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

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

- From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.
- From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.
- From three standard errors below to three standard errors above the derived estimate for nearly all samples.

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

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

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

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

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 2002 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.

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 in a specific industry or geographic area is not considered a disclosure; therefore, this information may be released even though other information is withheld. Techniques employed to limit disclosure are discussed at www.census.gov/epcd/ec02/disclosure.htm.

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. Nonetheless, the suppressed data are included in higher-level totals. A separate disclosure analysis is performed for capital expenditures, which can be suppressed even though value of shipments data are published.

Appendix D.

Geographic Notes

WASHINGTON

Auburn is in King and Pierce Counties; it annexed into Pierce County in May 1998. This change deletes territory from the Balance of Pierce County.

Benton City is now tabulated separately due to a population increase. This change deletes territory from the Balance of Benton County.

Black Diamond is now tabulated separately due to a population increase. This change deletes territory from the Balance of King County.

Bothell is in King and Snohomish Counties.

Covington incorporated in May 1997. This change deletes territory from the Balance of King County.

Enumclaw is in King and Pierce Counties.

Granger is now tabulated separately due to a population increase. This change deletes territory from the Balance of Yakima County.

Kenmore incorporated in August 1998. This change deletes territory from the Balance of King County.

Liberty Lake is now tabulated separately due to a population increase. This change deletes territory from the Balance of Spokane County.

Maple Valley is now tabulated separately due to a population increase. This change deletes territory from the Balance of King County.

Mattawa is now tabulated separately due to a population increase. This change deletes territory from the Balance of Grant County.

Milton is in King and Pierce Counties.

Okanogan is no longer tabulated separately due to a population decrease. This change adds territory to the Balance of Okanogan County.

Pacific is in King and Pierce Counties.

Sammamish incorporated in August 1999. This change deletes territory from the Balance of King County.

Warden is now tabulated separately due to a population increase. This change deletes territory from the Balance of Grant County.

Woodland is in Clark and Cowlitz Counties.

Yelm is now tabulated separately due to a population increase. This change deletes territory from the Balance of Thurston County.

Balance of Benton County no longer includes Benton City, which is tabulated separately due to a population increase.

Balance of Grant County no longer includes Mattawa and Warden, which are tabulated separately due to a population increase.

Balance of King County lost territory due to the incorporations of Covington, Kenmore, and Sammamish and no longer includes Black Diamond and Maple Valley, which are tabulated separately due to a population increase.

Balance of Okanogan County includes Okanogan, which is no longer tabulated separately due to a population decrease.

Balance of Pierce County lost territory due to the annexation of Auburn into the county.

Balance of Spokane County no longer includes Liberty Lake, which is tabulated separately due to a population increase.

Balance of Thurston County no longer includes Yelm, which is tabulated separately due to a population increase.

Balance of Yakima County no longer includes Granger, which is tabulated separately due to a population increase.

Appendix E.

Metropolitan and Micropolitan Statistical Areas

SEATTLE-TACOMA-OLYMPIA, WA COMBINED STATISTICAL AREA

Bremerton-Silverdale, WA Metropolitan Statistical Area

Kitsap County, WA

Oak Harbor, WA Micropolitan Statistical Area

Island County, WA

Olympia, WA Metropolitan Statistical Area

Thurston County, WA

Seattle-Tacoma-Bellevue, WA Metropolitan Statistical Area

Seattle-Bellevue-Everett, WA Metropolitan Division

King County, WA

Snohomish County, WA

Tacoma, WA Metropolitan Division

Pierce County, WA

Shelton, WA Micropolitan Statistical Area

Mason County, WA

ABERDEEN, WA MICROPOLITAN STATISTICAL AREA

Grays Harbor County, WA

BELLINGHAM, WA METROPOLITAN STATISTICAL AREA

Whatcom County, WA

CENTRALIA, WA MICROPOLITAN STATISTICAL AREA

Lewis County, WA

ELLENSBURG, WA MICROPOLITAN STATISTICAL AREA

Kittitas County, WA

KENNEWICK-RICHLAND-PASCO, WA METROPOLITAN STATISTICAL AREA

Benton County, WA

Franklin County, WA

LEWISTON, ID-WA METROPOLITAN STATISTICAL AREA

Nez Perce County, ID

Asotin County, WA

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LONGVIEW-KELSO, WA METROPOLITAN STATISTICAL AREA

Cowlitz County, WA

MOSES LAKE, WA MICROPOLITAN STATISTICAL AREA

Grant County, WA

MOUNT VERNON-ANACORTES, WA METROPOLITAN STATISTICAL AREA

Skagit County, WA

PORT ANGELES, WA MICROPOLITAN STATISTICAL AREA

Clallam County, WA

PORTLAND-VANCOUVER-BEAVERTON, OR-WA METROPOLITAN STATISTICAL AREA

Clackamas County, OR

Columbia County, OR

Multnomah County, OR

Washington County, OR

Yamhill County, OR

Clark County, WA

Skamania County, WA

PULLMAN, WA MICROPOLITAN STATISTICAL AREA

Whitman County, WA

SPOKANE, WA METROPOLITAN STATISTICAL AREA

Spokane County, WA

WALLA WALLA, WA MICROPOLITAN STATISTICAL AREA

Walla Walla County, WA

WENATCHEE, WA METROPOLITAN STATISTICAL AREA

Chelan County, WA

Douglas County, WA

YAKIMA, WA METROPOLITAN STATISTICAL AREA

Yakima County, WA

