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## 2002 Economic Census

*Manufacturing*

Geographic Area Series



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

*Helping You Make Informed Decisions*

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



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#### Geographic Area Series



**U.S. Department of Commerce**

**Carlos M. Gutierrez,**

Secretary

**David A. Sampson,**

Deputy Secretary

**Economics and Statistics Administration**

**Kathleen B. Cooper,**

Under Secretary for  
Economic Affairs

**U.S. CENSUS BUREAU**

**Charles Louis Kincannon,**

Director

---



**Economics  
and Statistics  
Administration**

**Kathleen B. Cooper,**  
Under Secretary  
for Economic Affairs



**U.S. CENSUS BUREAU**

**Charles Louis Kincannon,**  
Director

**Hermann Habermann,**  
Deputy Director and  
Chief Operating Officer

**Thomas L. Mesenbourg,**  
Associate Director  
for Economic Programs

**Thomas L. Mesenbourg,**  
Acting Assistant Director  
for Economic Programs

**William G. Bostic, Jr.,**  
Chief, Manufacturing  
and Construction Division

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# Introduction to the Economic Census

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## **PURPOSES AND USES OF THE ECONOMIC CENSUS**

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

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

- Policymaking agencies of the federal government use the data to monitor economic activity and 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).

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## **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](http://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

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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](http://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](http://www.census.gov/econ/www/history.html).



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# Manufacturing

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## 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

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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](http://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.

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## 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](http://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.

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- 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.

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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](http://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](mailto: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

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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—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	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>CALIFORNIA—Con.</b>													
313	Textile mills—Con.												
3133	Textile and fabric finishing and fabric coating mills .....	2	264	70	7 385	216 561	6 125	12 620	150 762	514 230	501 300	1 010 233	23 312
31331	Textile and fabric finishing mills .....	2	240	63	6 970	198 644	5 825	12 001	140 356	474 775	443 461	913 201	21 390
313311	Broadwoven fabric finishing mills .....	3	174	37	3 038	82 927	2 458	4 668	54 425	205 274	217 933	420 835	6 402
313312	Textile and fabric finishing (except broadwoven fabric) mills .....	1	66	26	3 932	115 717	3 367	7 333	85 931	269 501	225 528	492 366	14 988
31332	Fabric coating mills .....	2	24	7	415	17 917	300	619	10 406	39 455	57 839	97 032	1 922
313320	Fabric coating mills .....	2	24	7	415	17 917	300	619	10 406	39 455	57 839	97 032	1 922
314	Textile product mills .....	2	'894	'195	'16 890	'437 233	'13 217	'26 407	'279 621	'1 048 445	'1 230 164	'2 265 170	'30 723
3141	Textile furnishings mills .....	1	'371	'83	'9 747	'253 324	'7 705	'15 634	'164 967	'664 357	'916 352	'1 567 083	'18 110
31411	Carpet and rug mills .....	1	29	13	3 361	106 058	2 639	5 865	72 473	292 613	486 750	767 284	11 176
314110	Carpet and rug mills .....	1	29	13	3 361	106 058	2 639	5 865	72 473	292 613	486 750	767 284	11 176
31412	Curtain and linen mills .....	1	'342	'70	'6 386	'147 266	'5 066	'9 769	'92 494	'371 744	'429 602	'799 799	'6 934
314121	Curtain and drapery mills .....	4	228	20	1 678	38 339	1 344	2 520	21 276	76 457	57 008	132 662	1 457
314129	Other household textile product mills .....	1	'114	'50	'4 708	'108 927	'3 722	'7 249	'71 218	'295 287	'372 594	'667 137	'5 477
3149	Other textile product mills .....	4	523	112	7 143	183 909	5 512	10 773	114 654	384 088	313 812	698 087	12 613
31491	Textile bag and canvas mills .....	3	217	40	2 768	75 627	2 072	4 062	43 514	139 446	115 473	253 224	4 329
314911	Textile bag mills .....	1	39	14	866	20 056	716	1 496	12 527	38 437	36 401	74 753	843
314912	Canvas and related product mills .....	4	178	26	1 902	55 571	1 356	2 566	30 987	101 009	79 072	178 471	3 486
31499	All other textile product mills .....	4	306	72	4 375	108 282	3 440	6 711	71 140	244 642	198 339	444 863	8 284
314991	Rope, cordage, and twine mills .....	3	13	5	271	8 948	191	416	5 572	18 101	18 632	36 985	346
314999	All other miscellaneous textile product mills .....	4	293	67	4 104	99 334	3 249	6 295	65 568	226 541	179 707	407 878	7 938
315	Apparel manufacturing .....	3	4 755	1 045	95 523	2 091 951	76 122	135 509	1 270 583	'5 573 196	6 356 441	'11 859 871	97 757
3151	Apparel knitting mills .....	2	84	32	2 720	68 036	2 261	4 483	46 851	170 310	170 497	332 443	4 749
31511	Hosiery and sock mills .....	3	15	4	232	5 863	187	387	3 709	22 860	26 104	49 133	477
315119	Other hosiery and sock mills .....	2	9	3	160	4 345	121	250	2 452	20 190	23 047	43 406	430
31519	Other apparel knitting mills .....	2	69	28	2 488	62 173	2 074	4 096	43 142	147 450	144 393	283 310	4 272
315191	Outerwear knitting mills .....	2	65	27	2 448	60 589	2 048	4 065	42 609	141 431	142 450	275 359	4 231
3152	Cut and sew apparel manufacturing .....	3	4 439	961	87 454	1 882 659	69 658	123 388	1 141 686	'5 159 229	5 813 040	'10 923 605	90 386
31521	Cut and sew apparel contractors .....	5	'3 337	566	'44 545	'666 908	'40 717	'69 655	'550 170	'1 116 089	'315 450	'1 422 860	20 798
315211	Men's and boys' cut and sew apparel contractors .....	4	313	92	6 242	96 337	5 605	9 219	79 141	177 093	38 885	216 942	7 890
315212	Women's, girls', and infants' cut and sew apparel contractors .....	5	'3 024	474	'38 303	'570 571	'35 112	'60 436	'471 029	'938 996	'276 565	'1 205 918	12 908
31522	Men's and boys' cut and sew apparel manufacturing .....	7	180	77	8 867	186 556	7 278	12 155	132 934	1 136 891	1 437 832	2 520 759	7 346
315221	Men's and boys' cut and sew underwear and nightwear manufacturing .....	1	3	1	140	3 178	121	254	2 139	8 990	4 946	14 111	D
315222	Men's and boys' cut and sew suit, coat, and overcoat manufacturing .....	2	29	6	453	10 534	343	638	6 024	24 073	19 676	44 132	230
315223	Men's and boys' cut and sew shirt (except work shirt) manufacturing .....	1	53	26	2 754	56 200	2 242	3 082	36 401	137 581	230 189	365 585	2 364
315224	Men's and boys' cut and sew trouser, slack, and jean manufacturing .....	9	21	13	2 602	58 316	2 225	4 495	45 543	813 291	1 048 375	1 811 524	D
315225	Men's and boys' cut and sew work clothing manufacturing .....	4	18	12	1 055	21 124	859	1 662	15 531	68 409	62 684	130 649	D
315228	Men's and boys' cut and sew other outerwear manufacturing .....	4	56	19	1 863	37 204	1 488	2 024	27 296	84 547	71 962	154 758	1 264
31523	Women's and girls' cut and sew apparel manufacturing .....	2	'785	281	'31 048	'955 422	'19 565	'37 556	'419 293	'2 742 337	'3 948 890	'6 704 721	59 479
315231	Women's and girls' cut and sew lingerie, loungewear, and nightwear manufacturing .....	1	34	20	2 815	69 420	1 264	2 649	26 157	151 671	168 820	328 096	4 379
315232	Women's and girls' cut and sew blouse and shirt manufacturing .....	1	188	79	9 692	333 308	6 090	11 508	132 072	1 102 709	1 645 718	2 753 548	23 839
315233	Women's and girls' cut and sew dress manufacturing .....	2	'181	68	'7 219	'228 406	'4 987	'9 686	'117 339	'587 992	'921 258	'1 492 896	11 150
315234	Women's and girls' cut and sew suit, coat, tailored jacket, and skirt manufacturing .....	6	44	7	534	15 143	421	665	6 588	32 820	26 963	60 049	370
315239	Women's and girls' cut and sew other outerwear manufacturing .....	2	338	107	10 788	309 145	6 803	13 048	137 137	867 145	1 186 131	2 070 132	19 741
31529	Other cut and sew apparel manufacturing .....	4	137	37	2 994	73 773	2 098	4 022	39 289	163 912	110 868	275 265	2 763
315291	Infants' cut and sew apparel manufacturing .....	1	9	4	258	6 763	123	250	2 949	28 473	12 090	41 022	D
315292	Fur and leather apparel manufacturing .....	2	36	8	608	16 114	465	805	8 385	35 803	28 213	63 606	413
315299	All other cut and sew apparel manufacturing .....	6	92	25	2 128	50 896	1 510	2 967	27 955	99 636	70 565	170 637	D

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NAICS code	Geographic area and industry	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>CALIFORNIA—Con.</b>													
315	Apparel manufacturing—Con.												
3159	Apparel accessories and other apparel manufacturing .....	2	232	52	5 349	141 256	4 203	7 638	82 046	243 657	372 904	603 823	2 622
31599	Apparel accessories and other apparel manufacturing .....	2	232	52	5 349	141 256	4 203	7 638	82 046	243 657	372 904	603 823	2 622
315991	Hat, cap, and millinery manufacturing .....	2	25	6	580	11 826	488	635	7 427	13 381	15 238	29 078	100
315992	Glove and mitten manufacturing .....	9	6	4	196	4 826	164	333	3 650	3 175	12 558	15 585	17
315993	Men's and boys' neckwear manufacturing .....	2	10	4	977	28 744	817	1 513	16 232	66 025	53 392	117 708	93
315999	Other apparel accessories and other apparel manufacturing .....	2	191	38	3 596	95 860	2 734	5 157	54 737	161 076	291 716	441 452	2 412
316	Leather and allied product manufacturing .....	2	'229	'61	'5 472	'139 378	4 217	7 780	77 538	'351 313	'306 084	'665 796	'8 873
3161	Leather and hide tanning and finishing .....	7	31	5	267	7 938	222	400	5 918	6 214	16 417	26 074	158
31611	Leather and hide tanning and finishing .....	7	31	5	267	7 938	222	400	5 918	6 214	16 417	26 074	158
316110	Leather and hide tanning and finishing .....	7	31	5	267	7 938	222	400	5 918	6 214	16 417	26 074	158
3162	Footwear manufacturing .....	1	62	19	1 828	44 409	1 394	2 630	23 947	140 944	131 535	274 821	2 422
31621	Footwear manufacturing .....	1	62	19	1 828	44 409	1 394	2 630	23 947	140 944	131 535	274 821	2 422
316211	Rubber and plastics footwear manufacturing .....	7	9	4	191	3 925	163	271	2 922	15 212	14 299	30 053	D
316213	Men's footwear (except athletic) manufacturing .....	—	13	4	579	18 298	353	599	6 492	85 458	89 329	171 698	D
316214	Women's footwear (except athletic) manufacturing .....	3	26	8	784	16 071	651	1 333	10 875	28 313	16 746	50 054	1 040
316219	Other footwear manufacturing .....	2	13	3	e	D	D	D	D	D	D	D	348
3169	Other leather and allied product manufacturing .....	2	'136	'37	'3 377	'87 031	2 601	4 750	47 673	'204 155	'158 132	'364 901	'6 293
31699	Other leather and allied product manufacturing .....	2	'136	'37	'3 377	'87 031	2 601	4 750	47 673	'204 155	'158 132	'364 901	'6 293
316991	Luggage manufacturing .....	'4	'45	'18	'1 345	'33 779	1 058	2 027	18 056	'86 964	'60 484	'150 271	'3 356
316992	Women's handbag and purse manufacturing .....	3	15	3	629	12 714	540	900	9 056	25 867	18 860	44 901	D
316993	Personal leather goods (except women's handbag and purse) manufacturing ..	1	32	6	614	19 004	427	737	9 994	27 427	36 096	66 981	654
316999	All other leather goods manufacturing .....	1	44	10	789	21 534	576	1 086	10 567	63 897	42 692	102 748	D
321	Wood product manufacturing .....	2	'1 339	'458	'39 605	'1 143 729	'31 733	'62 624	'796 297	'2 369 677	'3 605 879	'6 067 473	'137 133
3211	Sawmills and wood preservation ..	—	111	46	5 849	219 411	4 948	10 553	172 299	373 445	990 663	1 461 834	52 438
32111	Sawmills and wood preservation .....	—	111	46	5 849	219 411	4 948	10 553	172 299	373 445	990 663	1 461 834	52 438
321113	Sawmills .....	—	86	40	5 522	210 055	4 684	10 006	165 564	347 062	904 278	1 348 852	50 307
321114	Wood preservation .....	1	25	6	327	9 356	264	547	6 735	26 383	86 385	112 982	2 131
3212	Veneer, plywood, and engineered wood product manufacturing .....	2	'149	'80	'5 957	'178 351	'4 771	'9 619	'119 478	'380 155	'523 266	'906 491	16 942
32121	Veneer, plywood, and engineered wood product manufacturing .....	2	'149	'80	'5 957	'178 351	'4 771	'9 619	'119 478	'380 155	'523 266	'906 491	16 942
321211	Hardwood veneer and plywood manufacturing .....	3	21	8	562	15 711	505	1 033	11 955	29 978	47 203	77 035	1 276
321212	Softwood veneer and plywood manufacturing .....	—	7	3	312	9 986	286	586	8 900	4 977	70 571	75 285	2 216
321213	Engineered wood member (except truss) manufacturing .....	1	10	2	381	13 177	283	595	8 514	34 916	65 225	100 158	545
321214	Truss manufacturing .....	3	'89	'54	'3 747	'104 727	'2 940	'5 872	'65 134	'222 424	'189 740	'413 155	9 199
321219	Reconstituted wood product manufacturing .....	1	22	13	955	34 750	757	1 533	24 975	87 860	150 527	240 858	3 706
3219	Other wood product manufacturing .....	2	'1 079	'332	'27 799	'745 967	'22 014	'42 452	'504 520	'1 616 077	'2 091 950	'3 699 148	'67 753
32191	Millwork .....	2	'504	'156	'13 380	'379 983	'10 622	'20 906	'257 798	'760 872	'1 202 795	'1 961 794	'36 304
321911	Wood window and door manufacturing .....	3	'207	'62	'5 564	'163 345	'4 095	'8 065	'97 789	'349 016	'429 387	'779 415	'12 909
321912	Cut stock, resawing lumber, and planing .....	—	80	30	2 717	77 253	2 366	4 531	58 180	140 272	328 338	468 978	8 891
321918	Other millwork (including flooring) .....	2	'217	'64	'5 099	'139 385	'4 161	'8 310	'101 829	'271 584	'445 070	'713 401	'14 504
32192	Wood container and pallet manufacturing .....	2	284	98	6 196	136 732	5 207	9 576	99 244	302 124	334 665	632 383	12 967
321920	Wood container and pallet manufacturing .....	2	284	98	6 196	136 732	5 207	9 576	99 244	302 124	334 665	632 383	12 967
32199	All other wood product manufacturing .....	2	291	78	8 223	229 252	6 185	11 970	147 478	553 081	554 490	1 104 971	18 482
321991	Manufactured home (mobile home) manufacturing .....	2	46	17	3 198	90 578	2 633	4 968	60 498	231 570	202 413	434 906	3 761
321992	Prefabricated wood building manufacturing .....	2	54	15	1 323	41 027	1 034	2 092	26 603	89 267	98 101	186 709	2 183
321999	All other miscellaneous wood product manufacturing .....	2	191	46	3 702	97 647	2 518	4 910	60 377	232 244	253 976	483 356	12 538

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NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>CALIFORNIA—Con.</b>													
322	Paper manufacturing .....	1	560	314	29 379	1 226 398	22 234	46 787	803 453	3 699 445	4 830 127	8 586 559	334 533
3221	Pulp, paper, and paperboard mills .....	2	34	28	3 660	195 986	2 901	6 012	145 982	1 210 402	748 720	1 955 469	142 841
32211	Pulp mills .....	—	1	1	c	D	D	D	D	D	D	D	D
322110	Pulp mills .....	—	1	1	c	D	D	D	D	D	D	D	D
32212	Paper mills .....	3	18	13	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	3	17	12	g	D	D	D	D	D	D	D	D
322122	Newsprint mills .....	—	1	1	c	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	—	15	14	1 293	69 411	977	1 974	47 400	284 953	348 687	632 572	44 698
322130	Paperboard mills .....	—	15	14	1 293	69 411	977	1 974	47 400	284 953	348 687	632 572	44 698
3222	Converted paper product manufacturing .....	1	526	286	25 719	1 030 412	19 333	40 775	657 471	2 489 043	4 081 407	6 631 090	191 692
32221	Paperboard container manufacturing .....	1	259	180	17 082	721 266	12 918	27 699	465 905	1 712 878	2 978 086	4 763 771	152 740
322211	Corrugated and solid fiber box manufacturing .....	—	172	120	12 182	535 957	9 051	19 522	338 878	1 236 257	2 421 220	3 736 388	122 310
322212	Folding paperboard box manufacturing .....	2	45	31	2 997	125 691	2 404	5 112	87 534	302 650	357 708	655 774	24 391
322213	Setup paperboard box manufacturing .....	2	10	9	497	14 036	396	832	8 911	33 496	39 120	73 135	1 910
322214	Fiber can, tube, drum, and similar products manufacturing .....	1	20	13	650	22 095	480	1 056	14 608	56 869	65 373	121 568	1 677
322215	Nonfolding sanitary food container manufacturing .....	3	12	7	756	23 487	587	1 177	15 974	83 606	94 665	176 906	2 452
32222	Paper bag and coated and treated paper manufacturing .....	1	92	41	3 143	121 043	2 306	4 821	71 161	303 673	450 601	754 976	18 749
322221	Coated and laminated packaging paper and plastics film manufacturing .....	2	13	5	330	11 460	258	566	8 790	32 373	75 922	108 558	2 555
322222	Coated and laminated paper manufacturing .....	2	62	23	1 573	63 440	1 043	2 041	31 239	168 042	225 846	394 666	10 357
322223	Plastics, foil, and coated paper bag manufacturing .....	—	3	2	245	8 370	175	355	3 951	17 448	18 392	36 003	D
322224	Uncoated paper and multiwall bag manufacturing .....	—	9	7	736	25 783	633	1 407	19 170	54 097	80 429	133 605	957
322225	Laminated aluminum foil manufacturing for flexible packaging uses .....	—	2	2	c	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing .....	—	83	33	3 153	107 828	2 296	4 732	69 915	260 866	393 272	640 874	10 881
322231	Die-cut paper and paperboard office supplies manufacturing .....	1	34	12	1 163	33 347	751	1 540	20 500	53 604	89 877	146 812	2 157
322232	Envelope manufacturing .....	—	31	16	1 517	58 400	1 189	2 533	39 753	116 067	145 454	260 779	4 166
322233	Stationery, tablet, and related product manufacturing .....	—	18	5	473	16 081	356	659	9 662	91 195	157 941	233 283	4 558
32229	Other converted paper product manufacturing .....	2	92	32	2 341	80 275	1 813	3 523	50 490	211 626	259 448	471 469	9 322
322291	Sanitary paper product manufacturing .....	7	9	4	310	11 854	256	572	8 665	44 782	57 320	101 809	2 300
322299	All other converted paper product manufacturing .....	1	83	28	2 031	68 421	1 557	2 951	41 825	166 844	202 128	369 660	7 022
323	Printing and related support activities .....	2	'4 806	'818	'77 174	'2 798 504	'55 274	'101 458	'1 714 582	'6 348 954	'4 010 255	'10 361 182	'411 186
3231	Printing and related support activities .....	2	'4 806	'818	'77 174	'2 798 504	'55 274	'101 458	'1 714 582	'6 348 954	'4 010 255	'10 361 182	'411 186
32311	Printing .....	1	'4 337	'735	'70 034	'2 509 120	'49 951	'91 271	'1 530 838	'5 844 998	'3 854 861	'9 706 481	'384 106
323110	Commercial lithographic printing .....	1	1 934	383	35 374	1 418 765	25 465	47 317	888 968	3 075 317	2 217 037	5 285 171	227 550
323111	Commercial gravure printing .....	1	42	5	1 095	29 702	1 007	1 622	24 236	114 119	53 077	167 509	2 105
323112	Commercial flexographic printing .....	1	112	32	2 390	88 782	1 534	3 068	48 636	214 441	136 178	350 553	23 694
323113	Commercial screen printing .....	2	610	143	'12 933	'357 889	'9 637	'17 512	'212 559	'680 626	'517 276	'1 213 288	'27 475
323114	Quick printing .....	1	'1 035	'46	'7 379	'228 358	'4 897	'8 197	'132 013	'795 021	'324 538	'1 117 822	'28 133
323115	Digital printing .....	2	155	32	2 229	79 742	1 457	2 336	45 375	'177 989	'70 058	247 096	15 058
323116	Manifold business forms printing .....	1	85	41	3 209	115 630	2 165	4 281	70 575	'368 077	'290 877	658 043	28 643
323117	Books printing .....	2	74	20	2 249	91 133	1 532	2 895	48 124	203 276	95 727	300 105	16 938
323118	Blankbook, looseleaf binders, and devices manufacturing .....	6	26	8	768	20 420	579	991	12 931	38 973	49 720	89 484	2 308
323119	Other commercial printing .....	4	'264	'25	'2 408	'78 699	'1 678	'3 052	'47 421	'177 159	'100 373	'277 410	'12 202
32312	Support activities for printing .....	3	469	83	7 140	289 384	5 323	10 187	183 744	503 956	155 394	654 701	27 080
323121	Tradebinding and related work .....	2	179	41	3 409	99 717	2 790	5 537	70 725	181 740	52 077	230 978	8 691
323122	Prepress services .....	3	290	42	3 731	189 667	2 533	4 650	113 019	322 216	103 317	423 723	18 389
324	Petroleum and coal products manufacturing .....	—	218	62	11 677	781 315	7 419	16 050	473 414	5 334 837	18 610 495	24 125 455	3 105 877
3241	Petroleum and coal products manufacturing .....	—	218	62	11 677	781 315	7 419	16 050	473 414	5 334 837	18 610 495	24 125 455	3 105 877
32411	Petroleum refineries .....	—	25	24	8 561	625 567	5 202	11 777	372 318	4 503 408	17 306 827	21 986 121	2 983 544
324110	Petroleum refineries .....	—	25	24	8 561	625 567	5 202	11 777	372 318	4 503 408	17 306 827	21 986 121	2 983 544
32412	Asphalt paving, roofing, and saturated materials manufacturing .....	—	157	27	2 356	115 310	1 757	3 400	81 122	644 676	987 315	1 634 745	D
324121	Asphalt paving mixture and block manufacturing .....	1	133	13	1 342	68 135	966	1 795	47 173	393 087	639 201	1 032 705	21 790
324122	Asphalt shingle and coating materials manufacturing .....	—	24	14	1 014	47 175	791	1 605	33 949	251 589	348 114	602 040	D

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		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>CALIFORNIA—Con.</b>													
324	Petroleum and coal products manufacturing—Con.												
3241	Petroleum and coal products manufacturing—Con.												
32419	Other petroleum and coal products manufacturing . . . . .	—	36	11	760	40 438	460	873	19 974	186 753	316 353	504 589	D
324191	Petroleum lubricating oil and grease manufacturing . . . . .	—	28	8	567	29 964	319	605	12 969	107 422	232 780	342 930	D
324199	All other petroleum and coal products manufacturing . . . . .	—	8	3	193	10 474	141	268	7 005	79 331	83 573	161 659	D
325	Chemical manufacturing . . . . .	1	1 615	547	76 289	3 684 040	40 314	75 870	1 426 142	14 754 800	8 119 471	22 946 136	1 479 501
3251	Basic chemical manufacturing . . . . .	1	163	54	4 497	235 767	2 520	5 012	120 263	1 184 417	836 134	2 039 007	270 082
32512	Industrial gas manufacturing . . . . .	3	54	17	873	42 040	289	615	15 247	246 419	136 998	383 289	34 046
325120	Industrial gas manufacturing . . . . .	3	54	17	873	42 040	289	615	15 247	246 419	136 998	383 289	34 046
32513	Synthetic dye and pigment manufacturing . . . . .	1	13	2	f	D	D	D	D	D	D	D	10 265
325131	Inorganic dye and pigment manufacturing . . . . .	—	7	2	461	22 497	275	509	9 980	81 420	32 535	126 414	D
32518	Other basic inorganic chemical manufacturing . . . . .	1	48	18	1 612	84 339	1 036	1 967	45 809	445 841	274 186	721 222	D
325188	All other basic inorganic chemical manufacturing . . . . .	1	45	17	1 563	82 796	998	1 883	44 928	442 452	270 465	714 202	202 605
32519	Other basic organic chemical manufacturing . . . . .	—	47	17	1 509	85 247	892	1 868	48 383	405 461	386 252	796 645	22 863
325193	Ethyl alcohol manufacturing . . . . .	—	4	2	c	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing . . . . .	—	40	14	1 258	71 975	714	1 487	40 247	381 623	267 264	650 934	16 637
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing . . . . .	2	96	40	3 019	130 030	2 100	4 320	79 979	347 825	726 354	1 083 939	33 773
32521	Resin and synthetic rubber manufacturing . . . . .	2	92	39	2 897	126 633	1 992	4 106	77 319	336 266	712 424	1 058 479	33 509
325211	Plastics material and resin manufacturing . . . . .	1	63	33	2 318	101 522	1 649	3 421	61 875	260 036	633 008	903 602	28 627
325212	Synthetic rubber manufacturing . . . . .	5	29	6	579	25 111	343	685	15 444	76 230	79 416	154 877	4 882
32522	Artificial and synthetic fibers and filaments manufacturing . . . . .	9	4	1	122	3 397	108	214	2 660	11 559	13 930	25 460	264
325222	Noncellulosic organic fiber manufacturing . . . . .	9	4	1	122	3 397	108	214	2 660	11 559	13 930	25 460	264
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing . . . . .	3	96	26	2 020	76 655	1 259	2 697	42 005	326 821	337 835	667 706	27 738
32531	Fertilizer manufacturing . . . . .	2	67	20	1 386	50 442	874	1 835	28 784	185 861	250 192	435 893	14 193
325311	Nitrogenous fertilizer manufacturing . . . . .	9	19	2	123	4 962	91	158	3 406	12 737	24 414	37 461	1 417
325312	Phosphatic fertilizer manufacturing . . . . .	—	6	3	236	12 530	162	370	8 290	51 790	83 825	137 054	2 071
325314	Fertilizer (mixing only) manufacturing . . . . .	3	42	15	1 027	32 950	621	1 307	17 088	121 334	141 953	261 378	10 705
32532	Pesticide and other agricultural chemical manufacturing . . . . .	3	29	6	634	26 213	385	862	13 221	140 960	87 643	231 813	13 545
325320	Pesticide and other agricultural chemical manufacturing . . . . .	3	29	6	634	26 213	385	862	13 221	140 960	87 643	231 813	13 545
3254	Pharmaceutical and medicine manufacturing . . . . .	1	312	147	40 009	2 136 711	18 553	33 120	694 965	8 061 029	2 500 332	10 593 834	865 466
32541	Pharmaceutical and medicine manufacturing . . . . .	1	312	147	40 009	2 136 711	18 553	33 120	694 965	8 061 029	2 500 332	10 593 834	865 466
325411	Medicinal and botanical manufacturing . . . . .	—	66	19	2 851	144 563	1 507	3 139	51 873	520 054	287 988	789 498	64 651
325412	Pharmaceutical preparation manufacturing . . . . .	—	135	67	26 104	1 374 818	11 893	20 121	408 379	5 760 507	1 373 803	7 201 661	610 569
325413	In-vitro diagnostic substance manufacturing . . . . .	—	65	43	6 598	340 319	2 884	5 612	117 906	1 128 386	317 774	1 440 007	94 986
325414	Biological product (except diagnostic) manufacturing . . . . .	3	46	18	4 456	277 011	2 269	4 248	116 807	652 082	520 767	1 162 668	95 260
3255	Paint, coating, and adhesive manufacturing . . . . .	1	253	77	6 309	278 574	3 626	6 883	124 908	1 509 695	1 284 493	2 792 226	55 490
32551	Paint and coating manufacturing . . . . .	1	183	51	4 147	176 720	2 406	4 545	81 556	1 170 324	1 037 850	2 206 641	45 934
325510	Paint and coating manufacturing . . . . .	1	183	51	4 147	176 720	2 406	4 545	81 556	1 170 324	1 037 850	2 206 641	45 934
32552	Adhesive manufacturing . . . . .	1	70	26	2 162	101 854	1 220	2 338	43 352	339 371	246 643	585 585	9 556
325520	Adhesive manufacturing . . . . .	1	70	26	2 162	101 854	1 220	2 338	43 352	339 371	246 643	585 585	9 556
3256	Soap, cleaning compound, and toilet preparation manufacturing . . . . .	2	360	111	12 423	496 291	7 230	14 086	199 573	2 312 338	1 416 391	3 741 707	109 029
32561	Soap and cleaning compound manufacturing . . . . .	3	171	43	3 249	129 324	1 888	3 319	60 835	614 270	436 492	1 058 744	50 774
325611	Soap and other detergent manufacturing . . . . .	3	87	20	1 806	75 534	1 056	1 683	33 932	335 341	220 675	559 407	38 088
325612	Polish and other sanitation good manufacturing . . . . .	2	70	19	1 075	37 839	676	1 313	20 340	229 824	109 474	347 704	D
325613	Surface active agent manufacturing . . . . .	5	14	4	368	15 951	156	323	6 563	49 105	106 343	151 633	D
32562	Toilet preparation manufacturing . . . . .	1	189	68	9 174	366 967	5 342	10 767	138 738	1 698 068	979 899	2 682 963	58 255
325620	Toilet preparation manufacturing . . . . .	1	189	68	9 174	366 967	5 342	10 767	138 738	1 698 068	979 899	2 682 963	58 255

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<b>CALIFORNIA—Con.</b>													
325	Chemical manufacturing—Con.												
3259	Other chemical product and preparation manufacturing . . . . .	2	335	92	8 012	330 012	5 026	9 752	164 449	1 012 675	1 017 932	2 027 717	117 923
32591	Printing ink manufacturing . . . . .	2	50	22	1 174	58 817	594	1 209	23 911	149 852	163 223	311 306	8 966
325910	Printing ink manufacturing . . . . .	2	50	22	1 174	58 817	594	1 209	23 911	149 852	163 223	311 306	8 966
32592	Explosives manufacturing . . . . .	—	5	2	320	12 506	227	368	6 880	27 665	9 758	37 296	879
325920	Explosives manufacturing . . . . .	—	5	2	320	12 506	227	368	6 880	27 665	9 758	37 296	879
32599	All other chemical product and preparation manufacturing . . . . .	2	280	68	6 518	258 689	4 205	8 175	133 658	835 158	844 951	1 679 115	108 078
325991	Custom compounding of purchased resins . . . . .	3	79	19	1 299	54 113	845	1 672	29 244	141 702	217 229	359 596	14 678
325992	Photographic film, paper, plate, and chemical manufacturing . . . . .	1	70	19	2 580	90 492	1 776	3 242	44 630	203 127	264 706	465 296	28 209
325998	All other miscellaneous chemical product and preparation manufacturing . . . . .	2	131	30	2 639	114 084	1 584	3 261	59 784	490 329	363 016	854 223	65 191
326	Plastics and rubber products manufacturing . . . . .	1	'1 846	'831	'86 768	'2 768 350	'65 527	'129 836	'1 693 087	'7 440 437	'6 456 800	'13 908 306	'497 444
3261	Plastics product manufacturing . . . . .	1	'1 586	'741	'77 767	'2 494 894	'58 963	'116 655	'1 533 964	'6 807 372	'5 921 214	'12 741 420	'454 542
32611	Plastics packaging materials and un laminated film and sheet manufacturing . . . . .	1	173	86	7 235	260 508	5 466	11 299	157 017	734 541	874 023	1 615 125	79 375
326111	Plastics bag manufacturing . . . . .	1	67	35	3 428	106 432	2 717	5 768	65 643	340 016	343 606	683 176	50 372
326112	Plastics packaging film and sheet (including laminated) manufacturing . . . . .	1	32	19	1 375	54 596	1 042	2 116	34 302	135 597	191 089	335 764	11 112
326113	Un laminated plastics film and sheet (except packaging) manufacturing . . . . .	1	74	32	2 432	99 480	1 707	3 415	57 072	258 928	339 328	596 185	17 891
32612	Plastics pipe, pipe fitting, and un laminated profile shape manufacturing . . . . .	3	128	70	6 983	257 078	5 428	10 480	169 855	655 297	644 482	1 304 375	49 372
326121	Un laminated plastics profile shape manufacturing . . . . .	4	79	39	4 312	166 817	3 279	6 496	111 037	397 076	329 152	721 160	21 401
326122	Plastics pipe and pipe fitting manufacturing . . . . .	1	49	31	2 671	90 261	2 149	3 984	58 818	258 221	315 330	583 215	27 971
32613	Laminated plastics plate, sheet, (except packaging), and shape manufacturing . . . . .	5	31	8	938	35 069	671	1 310	23 168	75 369	92 050	170 078	6 244
326130	Laminated plastics plate, sheet, (except packaging), and shape manufacturing . . . . .	5	31	8	938	35 069	671	1 310	23 168	75 369	92 050	170 078	6 244
32614	Polystyrene foam product manufacturing . . . . .	1	91	40	4 059	125 335	3 327	6 580	92 802	434 567	421 736	860 132	19 690
326140	Polystyrene foam product manufacturing . . . . .	1	91	40	4 059	125 335	3 327	6 580	92 802	434 567	421 736	860 132	19 690
32615	Urethane and other foam product (except polystyrene) manufacturing . . . . .	1	76	44	3 400	101 517	2 666	5 443	67 737	308 089	303 378	611 162	19 908
326150	Urethane and other foam product (except polystyrene) manufacturing . . . . .	1	76	44	3 400	101 517	2 666	5 443	67 737	308 089	303 378	611 162	19 908
32616	Plastics bottle manufacturing . . . . .	—	55	37	4 161	129 500	3 449	6 208	99 082	369 121	468 535	837 366	36 030
326160	Plastics bottle manufacturing . . . . .	—	55	37	4 161	129 500	3 449	6 208	99 082	369 121	468 535	837 366	36 030
32619	Other plastics product manufacturing . . . . .	1	'1 032	'456	'50 991	'1 585 887	'37 956	'75 335	'924 303	'4 230 388	'3 117 010	'7 343 182	'243 923
326191	Plastics plumbing fixture manufacturing . . . . .	1	'67	'34	i	D	D	D	D	D	D	D	D
326192	Resilient floor covering manufacturing . . . . .	—	5	1	c	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing . . . . .	1	'960	'421	'44 370	'1 408 733	'32 801	'65 763	'812 109	'3 698 936	'2 733 109	'6 432 691	'219 912
3262	Rubber product manufacturing . . . . .	2	'260	'90	'9 001	'273 456	'6 564	'13 181	'159 123	'633 065	'535 586	'1 166 886	'42 902
32621	Tire manufacturing . . . . .	3	'61	'14	'1 200	'38 139	'854	'1 786	'23 851	'72 808	'123 165	'197 147	'8 970
326211	Tire manufacturing (except retreading) . . . . .	8	9	3	475	16 256	404	860	12 172	29 057	33 817	64 574	5 358
326212	Tire retreading . . . . .	1	'52	'11	'725	'21 883	'450	'926	'11 679	'43 751	'89 348	'132 573	'3 612
32622	Rubber and plastics hoses and belting manufacturing . . . . .	1	30	8	699	22 066	546	1 059	13 766	67 588	63 531	132 979	7 662
326220	Rubber and plastics hoses and belting manufacturing . . . . .	1	30	8	699	22 066	546	1 059	13 766	67 588	63 531	132 979	7 662
32629	Other rubber product manufacturing . . . . .	2	169	68	7 102	213 251	5 164	10 336	121 506	492 669	348 890	836 760	26 270
326291	Rubber product manufacturing for mechanical use . . . . .	1	60	31	3 571	104 040	2 543	5 045	57 693	251 829	128 635	380 354	10 398
326299	All other rubber product manufacturing . . . . .	3	109	37	3 531	109 211	2 621	5 291	63 813	240 840	220 255	456 406	15 872
327	Nonmetallic mineral product manufacturing . . . . .	2	'1 542	'546	'45 141	'1 726 382	'35 165	'72 438	'1 217 314	'5 127 870	'4 299 241	'9 397 354	'479 464
3271	Clay product and refractory manufacturing . . . . .	3	204	63	4 893	156 589	3 675	7 273	100 536	370 072	150 813	511 516	D
32711	Pottery, ceramics, and plumbing fixture manufacturing . . . . .	4	129	39	3 006	94 221	2 252	4 375	57 806	194 799	79 522	268 237	11 527
327111	Vitreous china and earthenware plumbing fixture and accessories mfg . . . . .	4	8	4	270	7 969	201	379	4 906	23 505	5 030	28 076	407

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<b>CALIFORNIA—Con.</b>													
327	Nonmetallic mineral product manufacturing—Con.												
3271	Clay product and refractory manufacturing—Con.												
32711	Pottery, ceramics, and plumbing fixture manufacturing—Con.												
327112	Vitreous china, fine earthenware, and other pottery product manufacturing .....	4	98	23	1 759	50 103	1 311	2 631	30 924	101 197	45 598	146 853	4 114
327113	Porcelain electrical supply manufacturing .....	4	23	12	977	36 149	740	1 365	21 976	70 097	28 894	93 308	7 006
32712	Clay building material and refractories manufacturing ....	2	75	24	1 887	62 368	1 423	2 898	42 730	175 273	71 291	243 279	D
327121	Brick and structural clay tile manufacturing .....	—	13	7	562	19 978	427	883	13 513	58 556	20 250	77 347	1 321
327122	Ceramic wall and floor tile manufacturing .....	5	43	9	600	17 196	477	951	11 028	43 798	20 515	64 185	2 452
327123	Other structural clay product manufacturing .....	—	7	6	533	17 695	396	815	12 996	54 318	21 582	74 189	9 216
3272	Glass and glass product manufacturing .....	1	318	75	9 620	358 459	7 791	15 816	265 069	1 073 114	771 379	1 847 978	71 395
32721	Glass and glass product manufacturing .....	1	318	75	9 620	358 459	7 791	15 816	265 069	1 073 114	771 379	1 847 978	71 395
327211	Flat glass manufacturing ....	—	6	5	984	44 048	779	1 728	32 666	167 626	128 061	298 444	5 185
327212	Other pressed and blown glass and glassware manufacturing .....	2	85	9	927	33 807	712	1 441	22 714	110 417	59 927	172 601	4 937
327213	Glass container manufacturing .....	—	10	8	2 740	129 122	2 431	5 044	108 700	435 422	318 578	755 744	32 687
327215	Glass product manufacturing made of purchased glass ..	3	217	53	4 969	151 482	3 869	7 603	100 989	359 649	264 813	621 189	28 586
3273	Cement and concrete product manufacturing .....	2	666	315	22 765	913 384	17 657	36 638	646 312	2 817 398	2 647 107	5 447 284	173 948
32731	Cement manufacturing .....	3	25	17	2 039	111 120	1 517	3 475	77 451	586 308	422 896	1 005 094	44 054
327310	Cement manufacturing .....	3	25	17	2 039	111 120	1 517	3 475	77 451	586 308	422 896	1 005 094	44 054
32732	Ready-mix concrete manufacturing .....	1	395	174	9 618	402 819	7 849	16 055	317 501	1 126 445	1 485 626	2 613 246	81 181
327320	Ready-mix concrete manufacturing .....	1	395	174	9 618	402 819	7 849	16 055	317 501	1 126 445	1 485 626	2 613 246	81 181
32733	Concrete pipe, brick, and block manufacturing .....	2	78	43	2 733	108 810	1 965	4 360	67 987	331 656	240 427	566 551	20 169
327331	Concrete block and brick manufacturing .....	2	46	23	1 484	60 022	993	2 209	35 874	180 213	142 264	320 596	10 365
327332	Concrete pipe manufacturing .....	2	32	20	1 249	48 788	972	2 151	32 113	151 443	98 163	245 955	9 804
32739	Other concrete product manufacturing .....	2	168	81	8 375	290 635	6 326	12 748	183 373	772 989	498 158	1 262 393	28 544
327390	Other concrete product manufacturing .....	2	168	81	8 375	290 635	6 326	12 748	183 373	772 989	498 158	1 262 393	28 544
3274	Lime and gypsum product manufacturing .....	1	56	16	1 566	65 457	1 277	2 799	48 236	139 410	235 309	375 300	D
32742	Gypsum product manufacturing .....	1	53	16	g	D	D	D	D	D	D	D	26 584
327420	Gypsum product manufacturing .....	1	53	16	g	D	D	D	D	D	D	D	26 584
3279	Other nonmetallic mineral product manufacturing .....	1	298	77	6 297	232 493	4 765	9 912	157 161	727 876	494 633	1 215 276	182 559
32791	Abrasive product manufacturing .....	1	37	16	1 028	37 554	743	1 537	20 768	112 141	63 884	174 030	4 198
327910	Abrasive product manufacturing .....	1	37	16	1 028	37 554	743	1 537	20 768	112 141	63 884	174 030	4 198
32799	All other nonmetallic mineral product manufacturing .....	1	261	61	5 269	194 939	4 022	8 375	136 393	615 735	430 749	1 041 246	178 361
327991	Cut stone and stone product manufacturing .....	4	150	25	1 664	51 574	1 284	2 482	37 364	98 231	41 202	138 754	D
327992	Ground or treated mineral and earth manufacturing ...	—	18	4	326	12 164	193	430	7 908	78 154	41 497	119 197	D
327993	Mineral wool manufacturing .	—	37	15	2 050	87 287	1 719	3 752	66 357	300 425	188 346	484 448	D
327999	All other miscellaneous nonmetallic mineral product manufacturing .....	3	56	17	1 229	43 914	826	1 711	24 764	138 925	159 704	298 847	10 908
331	Primary metal manufacturing .....	—	510	210	21 729	842 044	17 162	35 455	577 996	2 250 877	3 341 966	5 626 949	249 634
3311	Iron and steel mills and ferroalloy manufacturing .....	—	24	9	2 742	149 318	2 127	4 607	108 799	485 126	1 107 916	1 619 660	D
33111	Iron and steel mills and ferroalloy manufacturing .....	—	24	9	2 742	149 318	2 127	4 607	108 799	485 126	1 107 916	1 619 660	D
331111	Iron and steel mills .....	—	21	8	2 700	148 144	2 092	4 543	107 974	481 909	1 106 456	1 614 999	D
3312	Steel product manufacturing from purchased steel .....	—	62	28	3 052	131 569	2 426	5 028	90 791	435 446	753 189	1 170 676	39 346
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	—	12	8	1 151	57 786	859	1 924	37 375	207 707	456 584	650 945	30 592
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	—	12	8	1 151	57 786	859	1 924	37 375	207 707	456 584	650 945	30 592

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<b>CALIFORNIA—Con.</b>													
331	Primary metal manufacturing—Con.												
3312	Steel product manufacturing from purchased steel—Con.												
33122	Rolling and drawing of purchased steel.....	2	50	20	1 901	73 783	1 567	3 104	53 416	227 739	296 605	519 731	8 754
331221	Rolled steel shape manufacturing.....	—	8	2	243	12 567	184	376	6 974	70 039	63 120	133 194	3 281
331222	Steel wire drawing.....	2	42	18	1 658	61 216	1 383	2 728	46 442	157 700	233 485	386 537	5 473
3313	Alumina and aluminum production and processing.....	—	69	33	4 359	153 860	3 411	6 818	103 340	363 849	734 088	1 098 671	30 625
33131	Alumina and aluminum production and processing...	—	69	33	4 359	153 860	3 411	6 818	103 340	363 849	734 088	1 098 671	30 625
331314	Secondary smelting and alloying of aluminum.....	—	17	8	621	24 665	439	870	14 587	73 418	196 538	267 955	11 245
331315	Aluminum sheet, plate, and foil manufacturing.....	1	10	4	e	D	D	D	D	D	D	D	1 651
331316	Aluminum extruded product manufacturing.....	—	23	17	2 439	90 619	1 969	3 952	63 441	169 521	320 488	494 501	11 318
331319	Other aluminum rolling and drawing.....	—	14	3	889	23 134	680	1 296	14 909	59 146	114 759	173 479	6 337
3314	Nonferrous metal (except aluminum) production and processing.....	2	'91	'25	'2 226	'97 153	'1 523	'3 231	'55 190	'274 868	'359 386	'637 718	D
33141	Nonferrous metal (except aluminum) smelting and refining.....	—	'23	'9	f	D	D	D	D	D	D	D	D
331419	Primary smelting and refining of nonferrous metal (except copper and aluminum).....	—	'22	'9	'624	'30 155	'385	'815	'12 467	'66 857	'134 879	'202 976	D
33142	Copper rolling, drawing, extruding, and alloying.....	2	17	3	e	D	D	D	D	D	D	D	755
331421	Copper rolling, drawing, and extruding.....	3	8	1	c	D	D	D	D	D	D	D	175
331422	Copper wire (except mechanical) drawing.....	1	8	2	251	7 900	188	404	5 137	20 842	29 520	48 883	D
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying.....	'3	'51	'13	'1 208	'52 771	'838	'1 781	'33 169	'180 736	'172 852	'354 511	'12 778
331491	Nonferrous metal (except copper and aluminum) rolling, drawing, and extruding.....	2	28	5	326	17 303	229	480	8 753	60 210	41 949	101 592	5 949
331492	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum).....	'3	'23	'8	'882	'35 468	'609	'1 301	'24 416	'120 526	'130 903	'252 919	'6 829
3315	Foundries.....	1	264	115	9 350	310 144	7 675	15 771	219 876	691 588	387 387	1 100 224	27 536
33151	Ferrous metal foundries.....	—	81	37	4 115	134 673	3 356	6 724	97 785	324 230	169 481	513 727	11 440
331511	Iron foundries.....	—	41	16	1 529	52 900	1 298	2 618	38 752	115 057	80 650	214 431	1 947
331512	Steel investment foundries ..	—	15	12	1 657	46 564	1 279	2 405	30 814	147 509	44 120	191 496	5 923
331513	Steel foundries (except investment).....	1	25	9	929	35 209	779	1 701	28 219	61 664	44 711	107 800	3 570
33152	Nonferrous metal foundries....	2	183	78	5 235	175 471	4 319	9 047	122 091	367 358	217 906	586 497	16 096
331521	Aluminum die-casting foundries.....	1	42	24	1 411	47 917	1 146	2 444	34 905	108 874	70 873	180 470	8 686
331522	Nonferrous (except aluminum) die-casting foundries.....	1	20	7	592	22 587	489	1 091	15 867	55 309	22 023	76 785	925
331524	Aluminum foundries (except die-casting).....	2	76	31	2 119	70 065	1 773	3 733	47 927	131 734	73 638	204 526	4 848
331525	Copper foundries (except die-casting).....	2	28	9	586	16 654	494	973	11 658	40 044	19 627	59 548	989
331528	Other nonferrous foundries (except die-casting).....	2	17	7	527	18 248	417	806	11 734	31 397	31 745	65 168	648
332	Fabricated metal product manufacturing.....	2	'7 931	'1 961	'157 735	'5 919 246	'116 122	230 347	'3 666 543	'13 293 869	'9 189 271	'22 549 209	'694 911
3321	Forging and stamping.....	2	'320	'134	'10 408	'417 670	'7 394	'15 560	'237 779	'798 532	'906 955	'1 725 699	'40 432
33211	Forging and stamping.....	2	'320	'134	'10 408	'417 670	'7 394	'15 560	'237 779	'798 532	'906 955	'1 725 699	'40 432
332111	Iron and steel forging.....	4	27	11	1 008	40 322	737	1 569	27 035	63 400	119 630	191 349	3 770
332112	Nonferrous forging.....	—	16	14	2 435	113 533	1 713	3 733	63 391	223 718	281 089	516 267	15 724
332114	Custom roll forming.....	1	48	23	1 340	51 617	952	1 957	30 240	128 932	136 766	262 074	5 174
332115	Crown and closure manufacturing.....	3	6	3	102	4 099	78	170	2 497	9 491	13 801	23 225	520
332116	Metal stamping.....	3	'212	'77	'5 142	'191 486	'3 651	'7 535	'105 508	'340 166	'329 681	'673 754	'13 874
332117	Powder metallurgy part manufacturing.....	—	11	6	381	16 613	263	596	9 108	32 825	25 988	59 030	1 370
3322	Cutlery and handtool manufacturing.....	1	197	55	5 220	210 855	3 231	6 364	89 524	451 557	295 541	749 941	28 685
33221	Cutlery and handtool manufacturing.....	1	197	55	5 220	210 855	3 231	6 364	89 524	451 557	295 541	749 941	28 685
332211	Cutlery and flatware (except precious) manufacturing...	1	9	1	368	13 776	295	365	8 713	36 641	10 350	47 136	855
332212	Hand and edge tool manufacturing.....	1	161	43	4 145	168 607	2 573	5 226	68 432	326 082	201 069	529 902	24 814
332213	Saw blade and handsaw manufacturing.....	—	21	7	538	22 642	288	621	10 292	73 431	69 591	142 894	2 652
332214	Kitchen utensil, pot, and pan manufacturing.....	2	6	4	169	5 830	75	152	2 087	15 403	14 531	30 009	364



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NAICS code	Geographic area and industry	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>CALIFORNIA—Con.</b>													
332	Fabricated metal product manufacturing—Con.												
3323	Architectural and structural metals manufacturing .....	2	1 575	473	40 254	1 429 940	29 358	58 523	879 738	3 217 476	2 545 535	5 784 964	137 690
33231	Plate work and fabricated structural product manufacturing .....	2	'454	'151	'12 570	'483 493	'8 971	'18 537	'291 392	'1 108 702	'1 015 173	'2 118 712	'39 925
332311	Prefabricated metal building and component manufacturing .....	4	62	23	2 177	72 588	1 521	2 968	41 639	189 879	206 220	396 861	5 668
332312	Fabricated structural metal manufacturing .....	2	'327	'104	'8 821	'345 193	'6 334	'13 160	'209 552	'785 556	'715 042	'1 491 549	'28 133
332313	Plate work manufacturing .....	2	65	24	1 572	65 712	1 116	2 409	40 201	133 267	93 911	230 302	6 124
33232	Ornamental and architectural metal products manufacturing .....	2	'1 121	'322	'27 684	'946 447	'20 387	'39 986	'588 346	'2 108 774	'1 530 362	'3 666 252	'97 765
332321	Metal window and door manufacturing .....	1	177	72	7 183	225 495	5 252	10 809	133 273	543 407	478 662	1 024 414	24 063
332322	Sheet metal work manufacturing .....	2	'631	'205	'16 168	'562 579	'12 032	'23 905	'359 508	'1 117 785	'807 571	'1 953 849	'63 486
332323	Ornamental and architectural metal work manufacturing ..	1	313	45	4 333	158 373	3 103	5 272	95 565	447 582	244 129	687 989	10 216
3324	Boiler, tank, and shipping container manufacturing .....	1	149	79	6 400	286 074	4 996	10 323	204 178	965 213	1 245 454	2 225 721	59 889
33241	Power boiler and heat exchanger manufacturing ....	4	21	8	617	26 727	418	856	15 564	66 925	38 396	108 179	1 691
332410	Power boiler and heat exchanger manufacturing ..	4	21	8	617	26 727	418	856	15 564	66 925	38 396	108 179	1 691
33242	Metal tank (heavy gauge) manufacturing .....	2	59	31	1 979	80 430	1 487	2 958	53 213	200 521	151 886	359 655	6 986
332420	Metal tank (heavy gauge) manufacturing .....	2	59	31	1 979	80 430	1 487	2 958	53 213	200 521	151 886	359 655	6 986
33243	Metal can, box, and other metal container (light gauge) manufacturing .....	1	69	40	3 804	178 917	3 091	6 509	135 401	697 767	1 055 172	1 757 887	51 212
332431	Metal can manufacturing ....	—	28	23	2 679	139 616	2 194	4 705	107 591	612 531	971 681	1 588 417	49 137
332439	Other metal container manufacturing .....	3	41	17	1 125	39 301	897	1 804	27 810	85 236	83 491	169 470	2 075
3325	Hardware manufacturing .....	1	'135	'54	'4 945	'180 636	'3 400	'7 353	'95 814	'504 392	'260 781	'768 499	'26 937
33251	Hardware manufacturing .....	1	'135	'54	'4 945	'180 636	'3 400	'7 353	'95 814	'504 392	'260 781	'768 499	'26 937
332510	Hardware manufacturing ....	1	'135	'54	'4 945	'180 636	'3 400	'7 353	'95 814	'504 392	'260 781	'768 499	'26 937
3326	Spring and wire product manufacturing .....	3	'231	61	'4 273	'134 500	'3 357	'6 775	'86 617	'327 753	'302 523	'627 584	'13 995
33261	Spring and wire product manufacturing .....	3	'231	61	'4 273	'134 500	'3 357	'6 775	'86 617	'327 753	'302 523	'627 584	'13 995
332611	Spring (heavy gauge) manufacturing .....	4	16	6	374	14 904	259	503	9 008	28 985	19 039	46 917	720
332612	Spring (light gauge) manufacturing .....	1	35	14	895	27 226	684	1 343	18 171	63 038	57 711	122 127	1 741
332618	Other fabricated wire product manufacturing .....	'3	'180	41	'3 004	'92 370	'2 414	'4 929	'59 438	'235 730	'225 773	'458 540	'11 534
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	'3 500	547	'44 363	'1 750 756	'33 613	'66 001	'1 169 811	'3 638 986	'1 528 983	'5 158 734	'213 204
33271	Machine shops .....	3	'2 983	365	'29 332	'1 148 691	'22 501	'43 327	'788 129	'2 285 261	'969 787	'3 257 111	'151 294
332710	Machine shops .....	3	'2 983	365	'29 332	'1 148 691	'22 501	'43 327	'788 129	'2 285 261	'969 787	'3 257 111	'151 294
33272	Turned product and screw, nut, and bolt manufacturing .....	2	517	182	'15 031	'602 065	'11 112	'22 674	'381 682	'1 353 725	'559 196	'1 901 623	61 910
332721	Precision turned product manufacturing .....	1	'382	'125	'7 732	'280 338	'5 948	'11 634	'192 477	'607 110	'220 687	'823 171	36 953
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	3	'135	'57	'7 299	'321 727	'5 164	'11 040	'189 205	'746 615	'338 509	'1 078 452	24 957
3328	Coating, engraving, heat treating, and allied activities .....	2	1 000	312	19 010	600 661	15 064	29 398	399 491	1 191 138	635 617	1 838 608	68 361
33281	Coating, engraving, heat treating, and allied activities ..	2	1 000	312	19 010	600 661	15 064	29 398	399 491	1 191 138	635 617	1 838 608	68 361
332811	Metal heat treating .....	1	77	36	1 816	67 093	1 391	2 970	44 427	148 273	34 783	183 331	6 273
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	1	353	104	5 608	192 439	4 338	8 290	123 032	432 631	363 075	802 687	28 361
332813	Electroplating, plating, polishing, anodizing, and coloring .....	2	570	172	11 586	341 129	9 335	18 138	232 032	610 234	237 759	852 590	33 727
3329	Other fabricated metal product manufacturing .....	1	'824	'246	'22 862	'908 154	'15 709	'30 050	'503 591	'2 198 822	'1 467 882	'3 669 459	'105 718
33291	Metal valve manufacturing ....	—	169	74	10 351	457 441	6 662	12 553	235 516	1 136 935	691 263	1 836 417	47 487
332911	Industrial valve manufacturing .....	—	62	22	3 382	160 600	2 040	3 443	74 747	456 777	307 358	764 290	19 375
332912	Fluid power valve and hose fitting manufacturing .....	—	58	26	4 294	200 572	2 707	5 269	102 746	457 952	197 886	663 304	21 570
332913	Plumbing fixture fitting and trim manufacturing .....	2	32	19	2 111	74 960	1 487	2 947	42 014	167 830	152 894	323 937	5 904
332919	Other metal valve and pipe fitting manufacturing .....	2	17	7	564	21 309	428	894	16 009	54 376	33 125	84 886	638

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		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>CALIFORNIA—Con.</b>													
332	Fabricated metal product manufacturing—Con.												
3329	Other fabricated metal product manufacturing—Con.												
33299	All other fabricated metal product manufacturing . . . . .	2	'655	'172	'12 511	'450 713	'9 047	'17 497	'268 075	'1 061 887	'776 619	'1 833 042	'58 231
332991	Ball and roller bearing manufacturing . . . . .	4	14	4	746	28 939	592	1 169	20 359	77 980	26 250	104 077	2 791
332993	Ammunition (except small arms) manufacturing . . . . .	—	8	3	460	19 600	273	471	7 048	59 476	11 355	71 088	D
332994	Small arms manufacturing . . . . .	1	11	2	164	4 910	140	288	3 682	13 037	5 044	18 045	90
332995	Other ordnance and accessories manufacturing . . . . .	7	7	2	131	5 283	56	127	2 557	11 498	6 044	17 525	949
332996	Fabricated pipe and pipe fitting manufacturing . . . . .	2	92	35	2 042	68 905	1 456	3 066	42 197	139 339	138 155	275 379	7 367
332997	Industrial pattern manufacturing . . . . .	9	39	2	168	7 159	125	245	4 252	12 728	3 324	16 110	D
332998	Enameled iron and metal sanitary ware manufacturing . . . . .	1	21	6	1 420	48 104	1 063	1 750	27 058	148 691	105 592	254 559	2 548
332999	All other miscellaneous fabricated metal product manufacturing . . . . .	2	'452	'118	'7 359	'266 925	'5 327	'10 351	'160 353	'597 160	'479 581	'1 073 011	'40 282
333	Machinery manufacturing . . . . .	1	2 833	'823	'93 681	'4 430 394	'50 429	'95 081	'1 743 262	'9 294 771	'8 317 914	'17 675 619	'585 751
3331	Agriculture, construction, and mining machinery manufacturing . . . . .	3	207	54	4 105	152 086	2 668	5 427	84 366	301 444	329 274	630 336	14 350
33311	Agricultural implement manufacturing . . . . .	4	110	28	2 351	77 957	1 675	3 386	48 519	157 066	197 233	355 552	7 476
333111	Farm machinery and equipment manufacturing . . . . .	4	104	25	1 729	59 782	1 130	2 233	34 244	132 656	150 404	284 310	6 316
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing . . . . .	—	6	3	622	18 175	545	1 153	14 275	24 410	46 829	71 242	1 160
33312	Construction machinery manufacturing . . . . .	4	64	16	923	38 490	607	1 225	22 407	87 241	74 037	161 418	3 792
333120	Construction machinery manufacturing . . . . .	4	64	16	923	38 490	607	1 225	22 407	87 241	74 037	161 418	3 792
33313	Mining and oil and gas field machinery manufacturing . . . . .	2	33	10	831	35 639	386	816	13 440	57 137	58 004	113 366	3 082
333131	Mining machinery and equipment manufacturing . . . . .	3	6	2	110	4 672	66	113	1 729	7 216	10 157	17 189	251
333132	Oil and gas field machinery and equipment manufacturing . . . . .	2	27	8	721	30 967	320	703	11 711	49 921	47 847	96 177	2 831
3332	Industrial machinery manufacturing . . . . .	2	529	190	29 819	1 723 683	11 390	18 590	446 612	2 992 915	2 900 950	5 928 335	270 695
33321	Sawmill and woodworking machinery manufacturing . . . . .	2	23	7	475	18 526	306	650	10 238	36 286	20 914	59 762	2 141
333210	Sawmill and woodworking machinery manufacturing . . . . .	2	23	7	475	18 526	306	650	10 238	36 286	20 914	59 762	2 141
33322	Plastics and rubber industry machinery manufacturing . . . . .	4	70	9	842	35 289	516	1 036	15 840	95 669	54 264	149 122	6 825
333220	Plastics and rubber industry machinery manufacturing . . . . .	4	70	9	842	35 289	516	1 036	15 840	95 669	54 264	149 122	6 825
33329	Other industrial machinery manufacturing . . . . .	2	436	174	28 502	1 669 868	10 568	16 904	420 534	2 860 960	2 825 772	5 719 451	261 729
333291	Paper industry machinery manufacturing . . . . .	1	12	4	197	10 371	90	161	3 406	20 612	13 523	33 890	2 823
333292	Textile machinery manufacturing . . . . .	4	25	—	1 113	3 042	75	120	1 597	5 127	5 722	11 113	92
333293	Printing machinery and equipment manufacturing . . . . .	4	'42	'14	'1 499	'63 704	'798	'1 682	'26 316	'116 095	'88 159	'207 452	'2 605
333294	Food product machinery manufacturing . . . . .	2	73	28	1 616	69 427	996	2 031	33 379	146 127	96 151	238 151	15 453
333295	Semiconductor machinery manufacturing . . . . .	1	127	79	20 796	1 326 000	6 241	8 482	273 010	2 161 816	2 340 475	4 517 164	213 446
333298	All other industrial machinery manufacturing . . . . .	3	'157	'49	'4 281	'197 324	'2 368	'4 428	'82 826	'411 183	'281 742	'711 681	'27 310
3333	Commercial and service industry machinery manufacturing . . . . .	1	422	135	14 282	633 860	8 372	16 262	280 333	1 518 298	1 488 545	3 018 440	119 928
33331	Commercial and service industry machinery manufacturing . . . . .	1	422	135	14 282	633 860	8 372	16 262	280 333	1 518 298	1 488 545	3 018 440	119 928
333311	Automatic vending machine manufacturing . . . . .	—	12	5	640	22 523	420	824	10 889	61 162	98 738	160 867	D
333313	Office machinery manufacturing . . . . .	4	18	2	134	6 744	58	107	1 214	11 808	11 396	24 601	597
333314	Optical instrument and lens manufacturing . . . . .	1	110	47	4 510	234 469	2 481	5 000	101 386	399 865	285 374	698 598	25 119
333315	Photographic and photocopying equipment manufacturing . . . . .	—	78	22	3 568	160 290	1 947	3 517	68 742	437 330	563 167	1 002 910	62 573
333319	Other commercial and service industry machinery manufacturing . . . . .	2	197	58	5 352	207 382	3 409	6 695	96 750	602 781	526 819	1 124 232	19 108
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing . . . . .	1	200	81	8 094	287 794	5 704	11 368	167 170	713 622	556 008	1 280 985	22 676

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<b>CALIFORNIA—Con.</b>													
333	Machinery manufacturing—Con.												
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing—Con.												
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	200	81	8 094	287 794	5 704	11 368	167 170	713 622	556 008	1 280 985	22 676
333411	Air purification equipment manufacturing .....	1	43	16	911	29 427	660	1 310	17 060	66 025	54 655	120 212	2 646
333412	Industrial and commercial fan and blower manufacturing ..	3	11	7	476	17 485	367	720	11 360	39 062	22 454	61 732	1 664
333414	Heating equipment (except warm air furnaces) manufacturing .....	1	54	22	3 070	100 989	1 917	4 199	49 146	270 878	212 931	487 057	8 588
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	1	92	36	3 637	139 893	2 760	5 139	89 604	337 657	265 968	611 984	9 778
3335	Metalworking machinery manufacturing .....	1	'732	'127	'11 145	'505 234	'8 018	'15 631	'287 913	'954 850	'525 476	'1 472 480	66 613
33351	Metalworking machinery manufacturing .....	1	'732	'127	'11 145	'505 234	'8 018	'15 631	'287 913	'954 850	'525 476	'1 472 480	66 613
333511	Industrial mold manufacturing .....	'2	'205	'43	'3 289	'140 503	'2 536	'4 907	'96 551	'268 144	'103 009	'366 756	31 398
333512	Machine tool (metal cutting types) manufacturing .....	—	30	12	1 693	131 115	1 102	2 546	49 259	188 269	176 125	362 627	2 889
333513	Machine tool (metal forming types) manufacturing .....	1	14	5	e	D	D	D	D	D	D	D	926
333514	Special die and tool, die set, jig, and fixture manufacturing .....	1	267	32	2 997	116 414	2 068	3 940	68 693	216 430	120 341	335 821	15 174
333515	Cutting tool and machine tool accessory manufacturing ..	2	187	31	2 594	91 707	1 990	3 606	61 327	226 488	74 434	298 619	15 760
333518	Other metalworking machinery manufacturing ..	3	28	4	200	9 612	116	229	4 757	25 246	26 931	53 268	466
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	75	27	6 620	307 623	3 269	6 711	137 913	1 043 998	950 467	2 003 912	22 285
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	75	27	6 620	307 623	3 269	6 711	137 913	1 043 998	950 467	2 003 912	22 285
333611	Turbine and turbine generator set units manufacturing .....	—	6	6	4 765	237 131	1 920	3 992	94 930	864 494	831 060	1 707 127	13 049
333612	Speed changer, industrial high-speed drive, and gear manufacturing .....	3	17	4	268	11 417	199	344	7 340	28 156	17 293	44 912	687
333613	Mechanical power transmission equipment manufacturing .....	1	21	8	636	23 616	445	971	14 764	57 101	27 790	85 068	2 121
333618	Other engine equipment manufacturing .....	5	31	9	951	35 459	705	1 404	20 879	94 247	74 324	166 805	6 428
3339	Other general purpose machinery manufacturing .....	2	'668	209	'19 616	'820 114	'11 008	'21 092	'338 955	'1 769 644	'1 567 194	'3 341 131	'69 204
33391	Pump and compressor manufacturing .....	2	96	35	4 194	155 488	2 537	4 827	65 866	432 440	467 302	901 223	23 813
333911	Pump and pumping equipment manufacturing ..	2	62	28	3 661	132 731	2 260	4 292	57 724	382 949	420 243	804 631	22 595
333912	Air and gas compressor manufacturing .....	4	30	5	e	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	2	137	44	3 554	138 058	1 993	4 020	58 894	333 554	293 543	619 869	8 230
333921	Elevator and moving stairway manufacturing .....	5	19	4	317	16 334	165	361	5 850	22 837	21 987	44 735	1 398
333922	Conveyor and conveying equipment manufacturing ..	1	62	19	1 643	65 017	864	1 710	28 375	182 057	142 211	321 285	3 350
333923	Overhead traveling crane, hoist, and monorail system manufacturing .....	6	23	7	507	19 372	339	621	8 769	44 016	51 056	94 766	1 687
333924	Industrial truck, tractor, trailer, and stacker machinery manufacturing ..	1	33	14	1 087	37 335	625	1 328	15 900	84 644	78 289	159 083	1 795
33399	All other general purpose machinery manufacturing ....	2	'435	130	'11 868	'526 568	'6 478	'12 245	'214 195	'1 003 650	'806 349	'1 820 039	'37 161
333991	Power-driven handtool manufacturing .....	5	14	3	219	8 834	162	294	5 678	23 410	8 796	31 199	427
333992	Welding and soldering equipment manufacturing ..	1	29	9	900	43 527	431	766	13 739	95 757	63 529	161 271	2 814
333993	Packaging machinery manufacturing .....	3	88	25	2 529	118 131	1 280	2 633	48 943	211 131	186 257	402 152	7 622
333994	Industrial process furnace and oven manufacturing ...	2	35	10	639	26 925	392	762	11 793	53 888	35 530	91 605	1 956
333995	Fluid power cylinder and actuator manufacturing ....	1	35	11	1 722	82 096	1 014	1 799	38 040	153 530	132 989	284 588	4 370
333996	Fluid power pump and motor manufacturing .....	—	16	6	704	34 413	417	645	14 865	87 689	55 222	145 108	2 548
333997	Scale and balance (except laboratory) manufacturing ..	1	16	5	285	11 547	175	355	5 327	15 256	10 200	25 805	211
333999	All other miscellaneous general purpose machinery manufacturing .....	3	'202	61	'4 870	'201 095	'2 607	'4 991	'75 810	'362 989	'313 826	'678 311	'17 213

**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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>CALIFORNIA—Con.</b>													
334	Computer and electronic product manufacturing .....	-	'3 893	'1 668	'298 577	'16 717 179	'125 336	'242 222	'4 616 966	'50 373 158	'39 509 028	'89 898 195	'4 075 247
3341	Computer and peripheral equipment manufacturing .....	-	458	151	40 897	2 405 093	10 125	18 741	372 410	10 002 285	11 791 625	21 949 576	1 011 320
33411	Computer and peripheral equipment manufacturing ....	-	458	151	40 897	2 405 093	10 125	18 741	372 410	10 002 285	11 791 625	21 949 576	1 011 320
334111	Electronic computer manufacturing .....	-	151	48	21 338	1 072 779	4 147	7 749	148 652	6 972 347	9 017 987	16 072 784	594 279
334112	Computer storage device manufacturing .....	-	71	31	10 945	807 821	3 050	5 495	132 845	2 191 875	1 984 383	4 233 494	284 031
334113	Computer terminal manufacturing .....	7	9	2	114	5 243	39	76	1 266	21 763	21 317	43 575	2 227
334119	Other computer peripheral equipment manufacturing ..	2	227	70	8 500	519 250	2 889	5 421	89 647	816 300	767 938	1 599 723	130 783
3342	Communications equipment manufacturing .....	1	'502	'267	'56 946	'3 554 840	'16 830	'30 886	'693 345	'13 144 190	'10 861 562	'23 482 577	'720 235
33421	Telephone apparatus manufacturing .....	1	137	86	16 899	1 125 150	4 329	7 538	179 902	6 892 113	4 859 727	12 188 113	234 052
334210	Telephone apparatus manufacturing .....	1	137	86	16 899	1 125 150	4 329	7 538	179 902	6 892 113	4 859 727	12 188 113	234 052
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	1	'282	'148	'36 695	'2 271 758	'11 259	'20 869	'475 922	'5 805 238	'5 631 289	'10 483 157	'475 502
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	1	'282	'148	'36 695	'2 271 758	'11 259	'20 869	'475 922	'5 805 238	'5 631 289	'10 483 157	'475 502
33429	Other communications equipment manufacturing ....	2	83	33	3 352	157 932	1 242	2 479	37 521	446 839	370 546	811 307	10 681
334290	Other communications equipment manufacturing ..	2	83	33	3 352	157 932	1 242	2 479	37 521	446 839	370 546	811 307	10 681
3343	Audio and video equipment manufacturing .....	2	157	52	5 139	198 107	3 073	6 171	78 912	554 943	458 855	995 483	23 679
33431	Audio and video equipment manufacturing .....	2	157	52	5 139	198 107	3 073	6 171	78 912	554 943	458 855	995 483	23 679
334310	Audio and video equipment manufacturing .....	2	157	52	5 139	198 107	3 073	6 171	78 912	554 943	458 855	995 483	23 679
3344	Semiconductor and other electronic component manufacturing .....	1	1 500	710	99 714	4 728 681	59 702	117 121	2 003 641	12 356 540	8 148 939	20 572 260	1 632 401
33441	Semiconductor and other electronic component manufacturing .....	1	1 500	710	99 714	4 728 681	59 702	117 121	2 003 641	12 356 540	8 148 939	20 572 260	1 632 401
334411	Electron tube manufacturing .	-	23	10	2 195	98 507	1 632	3 038	67 266	215 460	112 162	329 216	6 475
334412	Bare printed circuit board manufacturing .....	2	268	108	11 578	427 227	8 650	17 509	261 378	764 483	667 736	1 451 129	52 141
334413	Semiconductor and related device manufacturing .....	1	391	182	39 843	2 423 946	19 567	37 531	812 096	6 990 465	2 919 205	9 862 342	1 201 062
334414	Electronic capacitor manufacturing .....	2	24	13	1 678	55 724	1 232	2 390	30 808	103 613	44 797	150 587	5 136
334415	Electronic resistor manufacturing .....	-	16	12	892	28 284	619	1 090	12 989	59 297	30 547	96 275	1 601
334416	Electronic coil, transformer, and other inductor manufacturing .....	1	68	26	1 492	46 610	1 067	2 003	24 989	89 715	46 825	137 266	1 757
334417	Electronic connector manufacturing .....	-	100	62	8 432	309 350	6 012	12 382	175 197	615 043	405 113	1 034 387	32 541
334418	Printed circuit assembly (electronic assembly) manufacturing .....	-	207	140	16 747	649 799	10 875	21 267	321 723	2 137 266	2 950 323	5 148 286	145 175
334419	Other electronic component manufacturing .....	1	403	157	16 857	689 234	10 048	19 911	297 195	1 381 198	972 231	2 362 772	186 513
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	'1 029	427	'86 651	'5 483 446	'29 064	'56 263	'1 270 895	'13 146 105	'7 490 107	'20 951 223	'580 606
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	'1 029	427	'86 651	'5 483 446	'29 064	'56 263	'1 270 895	'13 146 105	'7 490 107	'20 951 223	'580 606
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	2	120	61	12 547	712 487	5 957	10 988	230 495	2 084 029	1 047 957	3 176 996	83 298
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	-	123	61	24 104	1 648 944	6 016	11 516	304 503	4 053 584	1 767 964	6 005 230	123 391
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use .....	-	46	16	1 432	58 439	856	1 822	27 939	302 613	223 195	509 317	10 098
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	2	173	62	5 165	250 027	2 386	4 723	82 146	505 783	325 772	841 891	33 570
334514	Totalizing fluid meter and counting device manufacturing .....	-	33	10	1 289	56 658	662	912	19 429	86 250	80 765	168 060	3 458

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

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NAICS code	Geographic area and industry	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>CALIFORNIA—Con.</b>													
334	Computer and electronic product manufacturing—Con.												
3345	Navigational, measuring, electromedical, and control instruments manufacturing—Con.												
33451	Navigational, measuring, electromedical, and control instruments manufacturing—Con.												
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	—	219	96	20 625	1 376 815	6 212	12 790	324 075	2 318 624	1 321 969	3 779 664	151 481
334516	Analytical laboratory instrument manufacturing ..	—	123	46	11 084	762 642	3 496	6 887	145 072	2 186 394	1 446 122	3 613 968	113 493
334517	Irradiation apparatus manufacturing .....	—	33	17	4 744	324 696	1 168	2 041	64 981	943 698	896 256	1 812 626	33 629
334518	Watch, clock, and part manufacturing .....	—	'21	7	'500	'14 964	'342	'726	'7 266	'40 816	'36 205	'77 429	'1 636
334519	Other measuring and controlling device manufacturing .....	—	138	51	5 161	277 774	1 969	3 858	64 989	624 314	343 902	966 042	26 552
3346	Manufacturing and reproducing magnetic and optical media.....	—	247	61	9 230	347 012	6 542	13 040	197 763	1 169 095	757 940	1 947 076	107 006
33461	Manufacturing and reproducing magnetic and optical media...	—	247	61	9 230	347 012	6 542	13 040	197 763	1 169 095	757 940	1 947 076	107 006
334611	Software reproducing .....	1	40	7	814	36 535	492	787	16 365	97 110	59 558	156 774	4 727
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	1	148	44	5 868	197 236	4 333	8 631	119 048	522 311	337 956	862 392	63 656
334613	Magnetic and optical recording media manufacturing .....	—	59	10	2 548	113 241	1 717	3 622	62 350	549 674	360 426	927 910	38 623
335	Electrical equipment, appliance, and component manufacturing .....	1	'936	'375	'39 256	'1 496 797	25 409	51 504	720 643	'3 818 779	'3 007 119	'6 834 097	'250 063
3351	Electric lighting equipment manufacturing .....	1	262	104	10 229	328 317	7 208	14 638	176 537	884 039	685 490	1 567 088	29 651
33511	Electric lamp bulb and part manufacturing .....	—	10	3	221	6 782	171	339	3 654	21 168	9 367	29 981	468
335110	Electric lamp bulb and part manufacturing .....	—	10	3	221	6 782	171	339	3 654	21 168	9 367	29 981	468
33512	Lighting fixture manufacturing ..	1	252	101	10 008	321 535	7 037	14 299	172 883	862 871	676 123	1 537 107	29 183
335121	Residential electric lighting fixture manufacturing .....	2	108	29	2 629	63 205	2 086	3 987	39 990	138 813	136 307	276 578	4 175
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing .....	1	78	38	2 443	90 729	1 479	2 939	38 796	282 850	155 699	430 854	6 293
335129	Other lighting equipment manufacturing .....	1	66	34	4 936	167 601	3 472	7 373	94 097	441 208	384 117	829 675	18 715
3352	Household appliance manufacturing .....	1	35	11	850	24 217	611	1 240	14 407	76 556	76 974	159 459	2 334
33521	Small electrical appliance manufacturing .....	5	17	4	160	5 353	103	208	2 670	13 841	11 238	25 108	420
335211	Electric housewares and household fan manufacturing .....	4	14	4	152	5 063	97	197	2 491	13 245	10 469	23 742	398
33522	Major appliance manufacturing, household cooking appliance manufacturing .....	—	18	7	690	18 864	508	1 032	11 737	62 715	65 736	134 351	1 914
335221	Major appliance manufacturing, household cooking appliance manufacturing .....	—	14	5	496	13 329	353	720	8 082	36 060	54 483	97 205	1 340
335228	Other major household appliance manufacturing ...	—	3	2	c	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	2	'280	'108	'10 392	'420 801	'6 310	'12 713	'194 134	'863 776	'615 555	'1 507 500	'29 010
33531	Electrical equipment manufacturing .....	2	'280	'108	'10 392	'420 801	'6 310	'12 713	'194 134	'863 776	'615 555	'1 507 500	'29 010
335311	Power, distribution, and specialty transformer manufacturing .....	2	37	17	1 701	77 624	1 128	2 224	43 554	126 653	133 522	271 976	3 090
335312	Motor and generator manufacturing .....	3	58	23	1 628	57 764	1 094	2 153	31 617	136 068	82 703	219 209	4 334
335313	Switchgear and switchboard apparatus manufacturing ...	1	55	24	2 201	79 666	1 402	2 878	44 371	212 759	169 204	387 958	9 993
335314	Relay and industrial control manufacturing .....	2	'130	'44	'4 862	'205 747	'2 686	'5 458	'74 592	'388 296	'230 126	'628 357	'11 593
3359	Other electrical equipment and component manufacturing .....	1	'359	'152	'17 785	'723 462	'11 280	'22 913	'335 565	'1 994 408	'1 629 100	'3 600 050	'189 068
33591	Battery manufacturing .....	1	25	12	1 640	61 873	1 373	2 895	47 328	181 342	217 205	403 879	4 938
335911	Storage battery manufacturing .....	1	21	12	1 596	60 276	1 348	2 849	46 530	178 342	215 727	399 496	D
33592	Communication and energy wire and cable manufacturing ..	1	64	33	3 091	106 016	2 118	3 913	59 254	297 010	407 491	695 165	24 542
335921	Fiber optic cable manufacturing .....	4	19	4	379	15 196	168	306	5 136	39 123	25 298	64 504	7 478
335929	Other communication and energy wire manufacturing ..	—	45	29	2 712	90 820	1 950	3 607	54 118	257 887	382 193	630 661	17 064
33593	Wiring device manufacturing ...	1	76	29	3 097	115 501	2 157	4 271	62 428	334 150	208 959	546 079	12 075
335931	Current-carrying wiring device manufacturing .....	1	59	21	2 320	83 920	1 569	3 062	41 033	222 783	107 884	331 136	6 486
335932	Noncurrent-carrying wiring device manufacturing .....	—	17	8	777	31 581	588	1 209	21 395	111 367	101 075	214 943	5 589

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>CALIFORNIA—Con.</b>													
335	Electrical equipment, appliance, and component manufacturing—Con.												
3359	Other electrical equipment and component manufacturing—Con.												
33599	All other electrical equipment and component manufacturing . . . . .	1	'194	'78	'9 957	'440 072	'5 632	'11 834	'166 555	'1 181 906	'795 445	'1 954 927	'147 513
335991	Carbon and graphite product manufacturing . . . . .	—	13	4	297	13 416	235	477	9 371	43 412	58 393	101 525	2 691
335999	All other miscellaneous electrical equipment and component manufacturing . . . . .	1	'181	'74	'9 660	'426 656	'5 397	'11 357	'157 184	'1 138 494	'737 052	'1 853 402	'144 822
336	Transportation equipment manufacturing . . . . .	—	'1 589	'573	'127 394	'6 908 701	'73 893	'149 180	'3 054 678	'16 911 253	'16 683 942	'33 407 897	'894 430
3361	Motor vehicle manufacturing . . . . .	—	48	13	7 229	461 506	6 509	12 156	410 911	1 751 479	4 578 895	6 322 336	48 134
33611	Automobile and light duty motor vehicle manufacturing . . . . .	—	38	9	i	D	D	D	D	D	D	D	44 638
336111	Automobile manufacturing . . . . .	8	27	6	f	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing . . . . .	—	11	3	i	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing . . . . .	1	10	4	g	D	D	D	D	D	D	D	3 496
336120	Heavy duty truck manufacturing . . . . .	1	10	4	g	D	D	D	D	D	D	D	3 496
3362	Motor vehicle body and trailer manufacturing . . . . .	1	212	90	9 930	300 496	8 299	16 902	214 884	679 693	1 092 992	1 752 156	17 860
33621	Motor vehicle body and trailer manufacturing . . . . .	1	212	90	9 930	300 496	8 299	16 902	214 884	679 693	1 092 992	1 752 156	17 860
336211	Motor vehicle body manufacturing . . . . .	2	110	39	2 515	83 041	1 966	3 948	55 795	152 673	212 611	369 463	4 751
336212	Truck trailer manufacturing . . . . .	3	20	13	756	23 980	622	1 250	17 999	40 430	76 108	115 478	1 279
336213	Motor home manufacturing . . . . .	—	10	6	2 638	73 847	2 345	4 560	61 351	241 612	417 929	640 372	4 360
336214	Travel trailer and camper manufacturing . . . . .	1	72	32	4 021	119 628	3 366	7 144	79 739	244 978	386 344	626 843	7 470
3363	Motor vehicle parts manufacturing . . . . .	2	'690	'230	'28 593	'964 792	'22 385	'45 423	'643 812	'2 470 254	'2 586 432	'5 018 531	'179 779
33631	Motor vehicle gasoline engine and engine parts manufacturing . . . . .	3	166	39	3 719	139 510	2 795	5 015	89 179	294 661	285 486	573 098	41 701
336311	Carburetor, piston, piston ring, and valve manufacturing . . . . .	2	26	10	935	27 849	738	1 458	17 095	63 685	30 288	94 264	11 263
336312	Gasoline engine and engine part manufacturing . . . . .	4	140	29	2 784	111 661	2 057	3 557	72 084	230 976	255 198	478 834	30 438
33632	Motor vehicle electrical and electronic equipment manufacturing . . . . .	2	98	33	3 325	108 332	2 671	5 370	70 296	280 451	318 454	589 508	16 992
336321	Vehicle lighting equipment manufacturing . . . . .	2	11	3	186	7 418	146	273	4 542	14 716	9 905	24 022	657
336322	Other motor vehicle electrical and electronic equipment manufacturing . . . . .	2	87	30	3 139	100 914	2 525	5 097	65 754	265 735	308 549	565 486	16 335
33633	Motor vehicle steering and suspension component (except spring) manufacturing . . . . .	3	30	9	460	20 864	366	653	15 144	47 622	48 797	95 473	2 296
336330	Motor vehicle steering and suspension component (except spring) manufacturing . . . . .	3	30	9	460	20 864	366	653	15 144	47 622	48 797	95 473	2 296
33634	Motor vehicle brake system manufacturing . . . . .	—	26	11	756	25 341	525	1 088	12 780	57 914	107 835	165 136	3 798
336340	Motor vehicle brake system manufacturing . . . . .	—	26	11	756	25 341	525	1 088	12 780	57 914	107 835	165 136	3 798
33635	Motor vehicle transmission and power train parts manufacturing . . . . .	2	69	13	1 710	56 364	1 196	2 594	33 761	135 901	169 503	295 432	5 338
336350	Motor vehicle transmission and power train parts manufacturing . . . . .	2	69	13	1 710	56 364	1 196	2 594	33 761	135 901	169 503	295 432	5 338
33636	Motor vehicle seating and interior trim manufacturing . . . . .	1	53	18	2 476	81 907	1 889	3 744	53 283	227 969	238 176	467 696	8 257
336360	Motor vehicle seating and interior trim manufacturing . . . . .	1	53	18	2 476	81 907	1 889	3 744	53 283	227 969	238 176	467 696	8 257
33637	Motor vehicle metal stamping . . . . .	3	31	14	2 198	63 639	1 756	3 508	47 967	114 106	131 003	243 834	12 287
336370	Motor vehicle metal stamping . . . . .	3	31	14	2 198	63 639	1 756	3 508	47 967	114 106	131 003	243 834	12 287
33639	Other motor vehicle parts manufacturing . . . . .	2	'217	'93	'13 949	'468 835	'11 187	'23 451	'321 402	'1 311 630	'1 287 178	'2 588 354	'89 110
336399	All other motor vehicle parts manufacturing . . . . .	2	'213	'93	'13 943	'468 600	'11 182	'23 443	'321 220	'1 311 295	'1 286 832	'2 587 673	'89 081
3364	Aerospace product and parts manufacturing . . . . .	—	289	146	66 194	4 550 963	25 470	52 708	1 405 656	10 628 560	7 301 161	17 854 672	575 881
33641	Aerospace product and parts manufacturing . . . . .	—	289	146	66 194	4 550 963	25 470	52 708	1 405 656	10 628 560	7 301 161	17 854 672	575 881
336411	Aircraft manufacturing . . . . .	—	29	14	15 855	1 079 258	6 749	14 207	469 704	2 452 812	2 348 564	4 579 448	72 864
336412	Aircraft engine and engine parts manufacturing . . . . .	—	49	21	3 009	135 456	2 105	3 896	76 355	340 674	278 800	608 605	13 909
336413	Other aircraft parts and auxiliary equipment manufacturing . . . . .	—	179	89	23 351	1 522 269	10 236	22 347	533 733	3 736 128	1 689 505	5 584 693	212 078

**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	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>CALIFORNIA—Con.</b>													
336	Transportation equipment manufacturing—Con.												
3364	Aerospace product and parts manufacturing—Con.												
33641	Aerospace product and parts manufacturing—Con.												
336414	Guided missile and space vehicle manufacturing . . . .	—	8	6	15 832	1 218 649	3 103	6 006	163 916	3 131 627	2 646 096	5 726 384	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing . . . . .	—	6	6	6 757	524 302	2 345	4 383	132 694	816 016	262 343	1 140 032	59 700
336419	Other guided missile and space vehicle parts and auxiliary equipment manufacturing . . . . .	1	18	10	1 390	71 029	932	1 869	29 254	151 303	75 853	215 510	D
3365	Railroad rolling stock manufacturing . . . . .	—	8	3	f	D	D	D	D	D	D	D	2 173
33651	Railroad rolling stock manufacturing . . . . .	—	8	3	f	D	D	D	D	D	D	D	2 173
336510	Railroad rolling stock manufacturing . . . . .	—	8	3	f	D	D	D	D	D	D	D	2 173
3366	Ship and boat building . . . . .	1	145	43	8 887	335 786	7 046	14 192	231 194	683 197	656 409	1 339 606	51 382
33661	Ship and boat building . . . . .	1	145	43	8 887	335 786	7 046	14 192	231 194	683 197	656 409	1 339 606	51 382
336611	Ship building and repairing . .	—	65	20	6 568	268 374	5 237	10 593	182 279	517 361	490 261	1 007 622	44 647
336612	Boat building . . . . .	1	80	23	2 319	67 412	1 809	3 599	48 915	165 836	166 148	331 984	6 735
3369	Other transportation equipment manufacturing . . . . .	1	197	48	i	D	D	D	D	D	D	D	19 221
33699	Other transportation equipment manufacturing . . . . .	1	197	48	i	D	D	D	D	D	D	D	19 221
336991	Motorcycle, bicycle, and parts manufacturing . . . . .	2	134	35	3 737	135 451	2 822	5 042	88 678	325 534	261 128	588 652	D
336992	Military armored vehicle, tank, and tank component manufacturing . . . . .	—	4	4	1 448	101 919	252	503	16 771	164 294	29 488	198 481	D
336999	All other transportation equipment manufacturing . .	3	59	9	f	D	D	D	D	D	D	D	2 313
337	Furniture and related product manufacturing . . . . .	3	'3 054	'712	'68 157	'1 946 680	'53 184	'102 628	'1 276 979	'4 653 466	'3 412 031	'8 035 678	'148 045
3371	Household and institutional furniture and kitchen cabinet manufacturing . . . . .	3	'2 342	'445	'45 209	'1 201 127	'36 598	'70 240	'835 410	'2 665 586	'1 978 123	'4 629 820	'90 597
33711	Wood kitchen cabinet and countertop manufacturing . . .	4	'1 162	'142	'14 016	'417 314	'10 519	'20 355	'275 002	'886 110	'509 822	'1 390 633	'33 809
337110	Wood kitchen cabinet and countertop manufacturing . .	4	'1 162	'142	'14 016	'417 314	'10 519	'20 355	'275 002	'886 110	'509 822	'1 390 633	'33 809
33712	Household and institutional furniture manufacturing . . . . .	2	'1 180	'303	'31 193	'783 813	'26 079	'49 885	'560 408	'1 779 476	'1 468 301	'3 239 187	'56 788
337121	Upholstered household furniture manufacturing . . . . .	2	339	97	9 848	245 212	8 516	15 782	185 877	'567 686	'551 581	'1 117 447	15 278
337122	Nonupholstered wood household furniture manufacturing . . . . .	3	'567	'121	'13 342	'308 567	'11 445	'22 153	'228 619	'674 519	'529 173	'1 200 631	'20 776
337124	Metal household furniture manufacturing . . . . .	3	89	35	3 993	100 902	3 192	6 176	71 535	261 840	198 182	460 109	4 940
337125	Household furniture (except wood and metal) manufacturing . . . . .	2	36	12	719	24 429	511	952	11 886	45 865	46 964	92 168	8 584
337127	Institutional furniture manufacturing . . . . .	3	99	30	2 794	92 197	1 974	3 941	52 641	205 337	119 882	322 130	6 384
337129	Wood television, radio, and sewing machine cabinet manufacturing . . . . .	7	50	8	497	12 506	441	881	9 850	24 229	22 519	46 702	826
3372	Office furniture (including fixtures) manufacturing . . . . .	2	549	204	'15 728	'534 873	'11 663	'22 971	'322 433	'1 264 930	'831 715	'2 085 605	'37 770
33721	Office furniture (including fixtures) manufacturing . . . . .	2	549	204	'15 728	'534 873	'11 663	'22 971	'322 433	'1 264 930	'831 715	'2 085 605	'37 770
337211	Wood office furniture manufacturing . . . . .	3	90	38	2 858	76 919	2 284	4 518	48 900	156 277	97 236	254 195	4 547
337212	Custom architectural woodwork and millwork manufacturing . . . . .	1	141	50	'3 397	'128 764	'2 260	'4 417	'75 622	'269 907	'150 105	'420 840	'7 600
337214	Office furniture (except wood) manufacturing . . . . .	2	55	19	2 428	87 656	2 030	4 220	65 280	315 371	161 662	474 649	13 455
337215	Showcase, partition, shelving, and locker manufacturing . . . . .	2	263	97	7 045	241 534	5 089	9 816	132 631	523 375	422 712	935 921	12 168
3379	Other furniture related product manufacturing . . . . .	2	163	63	7 220	210 680	4 923	9 417	119 136	722 950	602 193	1 320 253	19 678
33791	Mattress manufacturing . . . . .	2	90	38	3 145	105 860	2 459	4 709	69 270	404 268	337 757	738 527	8 406
337910	Mattress manufacturing . . . . .	2	90	38	3 145	105 860	2 459	4 709	69 270	404 268	337 757	738 527	8 406
33792	Blind and shade manufacturing . . . . .	2	73	25	4 075	104 820	2 464	4 708	49 866	318 682	264 436	581 726	11 272
337920	Blind and shade manufacturing . . . . .	2	73	25	4 075	104 820	2 464	4 708	49 866	318 682	264 436	581 726	11 272

**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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>CALIFORNIA—Con.</b>													
339	Miscellaneous manufacturing .....	2	'4 777	'983	'116 629	'4 540 767	'70 799	'137 289	'1 905 368	'13 814 519	'7 259 997	'21 122 456	'666 747
3391	Medical equipment and supplies manufacturing .....	2	'1 883	'373	'61 315	'2 739 110	'33 367	'66 811	'1 009 527	'8 668 452	'3 827 972	'12 534 590	'433 794
33911	Medical equipment and supplies manufacturing .....	2	'1 883	'373	'61 315	'2 739 110	'33 367	'66 811	'1 009 527	'8 668 452	'3 827 972	'12 534 590	'433 794
339111	Laboratory apparatus and furniture manufacturing ....	4	76	38	4 825	254 355	1 654	3 368	49 702	610 253	376 537	998 108	32 748
339112	Surgical and medical instrument manufacturing ..	2	264	116	22 520	1 050 051	10 703	21 216	319 010	3 145 346	1 531 031	4 689 811	241 080
339113	Surgical appliance and supplies manufacturing ....	2	255	103	18 257	842 015	10 331	21 789	307 316	3 226 254	1 022 616	4 275 346	99 977
339114	Dental equipment and supplies manufacturing ....	—	172	32	3 628	155 664	2 100	3 567	63 136	692 782	439 656	1 131 583	24 569
339115	Ophthalmic goods manufacturing .....	5	72	21	2 827	116 616	1 969	3 867	55 422	389 043	322 674	701 156	20 592
339116	Dental laboratories .....	3	'1 044	'63	'9 258	'320 409	'6 610	'13 004	'214 941	'604 774	'135 458	'738 586	'14 828
3399	Other miscellaneous manufacturing .....	2	'2 894	'610	'55 314	'1 801 657	'37 432	'70 478	'895 841	'5 146 067	'3 432 025	'8 587 866	'232 953
33991	Jewelry and silverware manufacturing .....	2	'524	'74	'5 788	'159 820	'4 170	'7 239	'85 357	'417 464	'490 123	'909 763	'11 947
339911	Jewelry (except costume) manufacturing .....	2	'365	'53	'4 305	'121 299	'3 113	'5 325	'65 411	'322 581	'424 910	'747 800	'7 853
339912	Silverware and holloware manufacturing .....	6	18	1	129	3 407	94	145	1 892	5 647	4 820	12 119	506
339913	Jewelers' material and lapidary work manufacturing .....	2	41	2	204	5 125	144	216	2 538	9 099	23 244	32 106	597
339914	Costume jewelry and novelty manufacturing .....	2	100	18	1 150	29 989	819	1 553	15 516	80 137	37 149	117 738	2 991
33992	Sporting and athletic goods manufacturing .....	2	'400	90	'10 912	'441 879	'6 228	'12 418	'161 939	'1 542 838	'900 022	'2 477 336	'100 290
339920	Sporting and athletic goods manufacturing .....	2	'400	90	'10 912	'441 879	'6 228	'12 418	'161 939	'1 542 838	'900 022	'2 477 336	'100 290
33993	Doll, toy, and game manufacturing .....	1	138	22	3 460	104 719	2 522	4 668	56 427	572 995	417 104	939 572	9 182
339931	Doll and stuffed toy manufacturing .....	6	18	1	107	2 340	78	141	1 360	5 500	4 557	10 094	134
339932	Game, toy, and children's vehicle manufacturing ....	1	120	21	3 353	102 379	2 444	4 527	55 067	567 495	412 547	929 478	9 048
33994	Office supplies (except paper) manufacturing .....	1	120	28	2 870	88 206	1 967	3 781	53 477	223 265	162 772	380 059	15 434
339941	Pen and mechanical pencil manufacturing .....	—	13	3	756	29 051	637	1 068	20 216	65 948	50 573	106 663	D
339942	Lead pencil and art good manufacturing .....	1	22	4	755	22 672	462	1 019	14 088	77 554	65 159	146 230	D
339943	Marking device manufacturing .....	1	75	15	981	26 973	617	1 175	13 650	60 107	26 209	86 026	1 511
339944	Carbon paper and inked ribbon manufacturing .....	3	10	6	378	9 510	251	519	5 523	19 656	20 831	41 140	995
33995	Sign manufacturing .....	3	'646	'107	'7 978	'287 931	'5 144	'9 899	'145 657	'556 173	'314 052	'874 435	'19 430
339950	Sign manufacturing .....	3	'646	'107	'7 978	'287 931	'5 144	'9 899	'145 657	'556 173	'314 052	'874 435	'19 430
33999	All other miscellaneous manufacturing .....	2	'1 066	'289	'24 306	'719 102	'17 401	'32 473	'392 984	'1 833 332	'1 147 952	'3 006 701	'76 670
339991	Gasket, packing, and sealing device manufacturing .....	1	72	36	3 259	116 300	2 394	4 410	70 168	278 019	123 813	411 000	8 564
339992	Musical instrument manufacturing .....	—	'88	'20	'2 971	'87 453	2 167	4 311	51 238	'310 045	'123 340	'439 208	'9 286
339993	Fastener, button, needle, and pin manufacturing .....	3	23	7	545	16 294	408	879	10 563	37 034	16 872	52 654	2 124
339994	Broom, brush, and mop manufacturing .....	1	31	14	1 081	31 288	744	1 180	16 399	96 280	51 423	145 810	3 197
339999	All other miscellaneous manufacturing .....	2	'843	'212	'16 385	'465 823	'11 641	'21 602	'243 518	'1 107 977	'830 045	'1 951 578	'53 472

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

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

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

<sup>4</sup>Number 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.

<sup>5</sup>Data for this industry include separate corporate, subsidiary, and regional managing offices and enterprise support operations.

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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>FRESNO-MADERA, CA COMBINED STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	'804	'273	'31 053	'996 053	'22 929	'45 012	'611 117	'3 120 498	'3 971 255	'7 113 123	'206 325
311	Food manufacturing .....	2	135	71	12 169	337 822	9 380	18 712	216 404	1 118 663	2 005 901	3 158 285	63 154
3114	Fruit and vegetable preserving and specialty food manufacturing .....	2	29	20	h	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	3	4	3	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	3	4	3	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	2	25	17	h	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning .	2	10	8	g	D	D	D	D	D	D	D	D
311423	Dried and dehydrated food manufacturing .....	3	13	7	g	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	1	5	3	672	28 418	322	682	14 029	79 458	340 008	420 729	8 939
31151	Dairy product (except frozen) manufacturing .....	1	4	3	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing ....	4	2	2	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	4	15	12	4 616	98 007	3 852	8 127	74 145	186 303	484 721	665 643	9 214
31161	Animal slaughtering and processing .....	4	15	12	4 616	98 007	3 852	8 127	74 145	186 303	484 721	665 643	9 214
311611	Animal (except poultry) slaughtering .....	7	6	5	1 865	39 111	1 587	3 438	31 461	61 891	322 570	379 562	6 367
311615	Poultry processing .....	-	3	2	h	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	3	46	13	1 474	51 390	975	1 667	25 829	185 729	117 791	302 433	7 319
31181	Bread and bakery product manufacturing .....	-	39	7	f	D	D	D	D	D	D	D	1 848
311812	Commercial bakeries .....	-	7	6	543	24 605	260	500	8 562	50 466	28 479	78 948	1 360
31182	Cookie, cracker, and pasta manufacturing .....	-	5	4	289	11 038	212	479	6 445	53 602	52 546	105 209	D
31183	Tortilla manufacturing .....	8	2	2	e	D	D	D	D	D	D	D	D
311830	Tortilla manufacturing .....	8	2	2	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	2	22	15	1 220	39 023	804	1 633	20 157	176 942	114 431	291 988	8 749
31191	Snack food manufacturing .....	4	8	6	e	D	D	D	D	D	D	D	D
311911	Roasted nuts and peanut butter manufacturing .....	4	6	4	e	D	D	D	D	D	D	D	D
31193	Flavoring syrup and concentrate manufacturing ...	-	2	2	e	D	D	D	D	D	D	D	D
311930	Flavoring syrup and concentrate manufacturing .	-	2	2	e	D	D	D	D	D	D	D	D
31199	All other food manufacturing ...	2	11	7	e	D	D	D	D	D	D	D	D
311991	Perishable prepared food manufacturing .....	2	6	5	e	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	-	27	11	g	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	-	27	11	g	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing ....	-	2	2	f	D	D	D	D	D	D	D	D
31213	Wineries .....	-	22	8	g	D	D	D	D	D	D	D	D
312130	Wineries .....	-	22	8	g	D	D	D	D	D	D	D	D
313	Textile mills .....	-	6	2	e	D	D	D	D	D	D	D	D
3132	Fabric mills .....	-	4	2	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	3	37	11	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	3	29	9	591	13 975	490	985	9 591	32 340	32 358	65 207	D
322	Paper manufacturing .....	1	15	12	1 067	40 154	813	1 721	27 110	113 266	182 912	295 461	D
3222	Converted paper product manufacturing .....	1	13	10	f	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	1	11	9	f	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	-	8	7	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	2	69	10	f	D	D	D	D	D	D	D	8 579
3231	Printing and related support activities .....	2	69	10	f	D	D	D	D	D	D	D	8 579
32311	Printing .....	2	64	10	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	1	34	8	f	D	D	D	D	D	D	D	8 122

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>FRESNO-MADERA, CA COMBINED STATISTICAL AREA—Con.</b>													
324	Petroleum and coal products manufacturing .....	-	7	1	261	9 739	212	334	7 316	35 337	42 167	76 281	D
3241	Petroleum and coal products manufacturing .....	-	7	1	261	9 739	212	334	7 316	35 337	42 167	76 281	D
32412	Asphalt paving, roofing, and saturated materials manufacturing .....	-	7	1	261	9 739	212	334	7 316	35 337	42 167	76 281	D
325	Chemical manufacturing .....	3	25	6	f	D	D	D	D	D	D	D	3 570
3251	Basic chemical manufacturing ...	-	4	2	268	11 526	145	275	4 168	19 942	15 702	36 698	1 665
326	Plastics and rubber products manufacturing .....	1	30	16	1 497	46 876	1 228	2 345	33 173	161 451	136 021	297 052	18 059
3261	Plastics product manufacturing ..	1	25	15	1 428	44 897	1 189	2 269	32 161	149 335	126 332	275 393	17 920
32612	Plastics pipe, pipe fitting, and unlined profile shape manufacturing .....	2	5	3	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	14	7	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	14	7	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	48	17	1 740	75 985	1 419	3 043	58 137	258 244	240 986	512 780	D
3272	Glass and glass product manufacturing .....	-	6	5	f	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	-	6	5	f	D	D	D	D	D	D	D	D
327211	Flat glass manufacturing ....	-	2	2	e	D	D	D	D	D	D	D	D
327213	Glass container manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	2	28	10	e	D	D	D	D	D	D	D	D
32732	Ready-mix concrete manufacturing .....	1	18	6	e	D	D	D	D	D	D	D	D
327320	Ready-mix concrete manufacturing .....	1	18	6	e	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing .....	-	7	2	e	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product manufacturing .....	-	7	2	e	D	D	D	D	D	D	D	D
327993	Mineral wool manufacturing ..	-	4	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	119	40	1 866	65 346	1 330	2 418	38 282	162 368	145 307	295 868	D
3323	Architectural and structural metals manufacturing .....	1	35	15	735	25 124	480	809	12 939	72 884	47 615	108 985	D
33231	Plate work and fabricated structural product manufacturing .....	1	14	9	e	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing .....	-	13	8	e	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing .....	1	21	6	e	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities .....	2	19	7	e	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, and allied activities ..	2	19	7	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	-	15	5	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	2	63	29	3 124	121 473	1 971	3 924	59 850	254 484	289 079	543 718	21 442
3331	Agriculture, construction, and mining machinery manufacturing .....	6	22	8	566	19 468	386	744	11 789	48 479	62 646	112 559	D
33311	Agricultural implement manufacturing .....	7	17	7	488	16 825	335	656	10 326	45 378	57 375	103 731	D
333111	Farm machinery and equipment manufacturing ..	7	15	7	e	D	D	D	D	D	D	D	D
3332	Industrial machinery manufacturing .....	-	9	5	e	D	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing .....	-	7	5	e	D	D	D	D	D	D	D	D
333294	Food product machinery manufacturing .....	-	5	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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>FRESNO-MADERA, CA COMBINED STATISTICAL AREA—Con.</b>												
333	Machinery manufacturing—Con.												
3333	Commercial and service industry machinery manufacturing .....	—	5	1	e	D	D	D	D	D	D	D	D
33331	Commercial and service industry machinery manufacturing .....	—	5	1	e	D	D	D	D	D	D	D	D
333311	Automatic vending machine manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	5	3	e	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	5	3	e	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	1	19	11	g	D	D	D	D	D	D	D	D
33391	Pump and compressor manufacturing .....	—	4	2	477	20 961	221	514	7 433	38 869	70 328	111 523	D
333911	Pump and pumping equipment manufacturing ..	—	3	2	e	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	—	11	7	f	D	D	D	D	D	D	D	1 272
333993	Packaging machinery manufacturing .....	—	6	4	399	18 537	226	467	7 612	29 851	18 935	48 777	D
334	Computer and electronic product manufacturing .....	—	12	3	g	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	2	11	3	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	1	37	13	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing .....	3	10	6	279	8 235	228	475	5 708	14 203	21 245	36 147	389
33621	Motor vehicle body and trailer manufacturing .....	3	10	6	279	8 235	228	475	5 708	14 203	21 245	36 147	389
3363	Motor vehicle parts manufacturing .....	1	16	4	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	3	50	9	709	17 888	589	1 155	13 096	34 402	25 060	59 518	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	5	42	6	536	13 028	470	895	10 246	25 055	17 758	42 840	D
33711	Wood kitchen cabinet and countertop manufacturing ....	2	30	4	323	8 134	277	526	6 238	15 119	9 364	24 503	D
337110	Wood kitchen cabinet and countertop manufacturing ..	2	30	4	323	8 134	277	526	6 238	15 119	9 364	24 503	D
339	Miscellaneous manufacturing .....	2	86	13	1 160	37 566	856	1 637	22 843	105 812	75 916	178 895	D
3391	Medical equipment and supplies manufacturing .....	1	46	6	745	25 197	560	1 113	16 441	81 968	58 210	137 842	D
33911	Medical equipment and supplies manufacturing .....	1	46	6	745	25 197	560	1 113	16 441	81 968	58 210	137 842	D
339113	Surgical appliance and supplies manufacturing ....	—	8	2	486	16 975	377	780	11 652	64 958	51 015	113 708	974
3399	Other miscellaneous manufacturing .....	4	40	7	415	12 369	296	524	6 402	23 844	17 706	41 053	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>FRESNO-MADERA, CA COMBINED STATISTICAL AREA—Con.</b>													
<b>Fresno, CA Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	2	'701	'232	'26 639	'844 932	'19 460	'38 763	'506 748	'2 530 737	'3 442 940	'6 008 599	'166 468
311	Food manufacturing .....	2	123	64	11 821	325 953	9 152	18 312	210 599	1 053 144	1 955 019	3 042 586	61 646
3114	Fruit and vegetable preserving and specialty food manufacturing .....	2	25	18	3 412	92 043	2 921	5 600	68 449	342 223	481 318	884 305	25 190
31141	Frozen food manufacturing ....	3	4	3	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	3	4	3	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	2	21	15	h	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning .	1	8	8	1 066	30 401	908	1 851	25 335	153 625	246 597	407 234	12 154
311423	Dried and dehydrated food manufacturing .....	3	12	6	1 609	46 140	1 338	2 727	30 810	141 917	201 975	398 095	11 140
3115	Dairy product manufacturing .....	1	5	3	672	28 418	322	682	14 029	79 458	340 008	420 729	8 939
31151	Dairy product (except frozen) manufacturing .....	1	4	3	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing ....	4	2	2	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	4	15	12	4 616	98 007	3 852	8 127	74 145	186 303	484 721	665 643	9 214
31161	Animal slaughtering and processing .....	4	15	12	4 616	98 007	3 852	8 127	74 145	186 303	484 721	665 643	9 214
311611	Animal (except poultry) slaughtering .....	7	6	5	1 865	39 111	1 587	3 438	31 461	61 891	322 570	379 562	6 367
311615	Poultry processing .....	-	3	2	h	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	3	46	13	1 474	51 390	975	1 667	25 829	185 729	117 791	302 433	7 319
31181	Bread and bakery product manufacturing .....	-	39	7	f	D	D	D	D	D	D	D	1 848
311812	Commercial bakeries .....	-	7	6	543	24 605	260	500	8 562	50 466	28 479	78 948	1 360
31182	Cookie, cracker, and pasta manufacturing .....	-	5	4	289	11 038	212	479	6 445	53 602	52 546	105 209	D
31183	Tortilla manufacturing .....	8	2	2	e	D	D	D	D	D	D	D	D
311830	Tortilla manufacturing .....	8	2	2	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	2	17	12	1 077	34 902	702	1 453	17 863	162 550	100 158	263 541	8 133
31191	Snack food manufacturing ....	5	5	4	305	9 011	242	482	5 866	57 635	39 502	97 086	5 461
311911	Roasted nuts and peanut butter manufacturing .....	5	4	3	e	D	D	D	D	D	D	D	D
31193	Flavoring syrup and concentrate manufacturing ...	-	2	2	e	D	D	D	D	D	D	D	D
311930	Flavoring syrup and concentrate manufacturing .	-	2	2	e	D	D	D	D	D	D	D	D
31199	All other food manufacturing ...	2	9	6	e	D	D	D	D	D	D	D	D
311991	Perishable prepared food manufacturing .....	2	6	5	e	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	-	20	9	1 180	48 325	690	1 462	26 419	282 841	255 249	542 427	41 790
3121	Beverage manufacturing .....	-	20	9	1 180	48 325	690	1 462	26 419	282 841	255 249	542 427	41 790
31211	Soft drink and ice manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing ....	-	2	2	f	D	D	D	D	D	D	D	D
31213	Wineries .....	-	15	6	e	D	D	D	D	D	D	D	D
312130	Wineries .....	-	15	6	e	D	D	D	D	D	D	D	D
313	Textile mills .....	-	6	2	e	D	D	D	D	D	D	D	D
3132	Fabric mills .....	-	4	2	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	3	31	9	625	15 302	512	1 078	10 355	30 336	33 393	64 127	1 300
3219	Other wood product manufacturing .....	3	24	8	516	12 588	423	899	8 535	25 476	28 386	54 375	942
322	Paper manufacturing .....	2	11	8	662	24 909	511	1 093	16 693	64 486	115 207	179 039	3 573
3222	Converted paper product manufacturing .....	2	9	6	f	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	2	8	6	f	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	-	5	4	e	D	D	D	D	D	D	D	2 224
323	Printing and related support activities .....	1	61	10	841	26 638	540	1 055	16 752	57 631	37 463	94 392	8 537
3231	Printing and related support activities .....	1	61	10	841	26 638	540	1 055	16 752	57 631	37 463	94 392	8 537
32311	Printing .....	1	58	10	836	26 429	538	1 052	16 710	57 136	37 361	93 795	D
323110	Commercial lithographic printing .....	1	31	8	605	19 488	401	808	12 724	40 853	26 427	67 201	8 107

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>FRESNO-MADERA, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Fresno, CA Metropolitan Statistical Area—Con.</b>												
324	Petroleum and coal products manufacturing .....	—	7	1	261	9 739	212	334	7 316	35 337	42 167	76 281	D
3241	Petroleum and coal products manufacturing .....	—	7	1	261	9 739	212	334	7 316	35 337	42 167	76 281	D
32412	Asphalt paving, roofing, and saturated materials manufacturing .....	—	7	1	261	9 739	212	334	7 316	35 337	42 167	76 281	D
325	Chemical manufacturing .....	3	22	5	512	21 814	317	632	10 104	71 179	65 714	137 336	3 484
3251	Basic chemical manufacturing ...	—	4	2	268	11 526	145	275	4 168	19 942	15 702	36 698	1 665
326	Plastics and rubber products manufacturing .....	1	24	10	960	29 438	765	1 550	19 984	114 516	88 464	203 285	5 294
3261	Plastics product manufacturing ..	1	19	9	891	27 459	726	1 474	18 972	102 400	78 775	181 626	5 155
32619	Other plastics product manufacturing .....	—	12	5	630	18 348	522	1 030	12 958	50 753	38 204	89 532	2 710
326199	All other plastics product manufacturing .....	—	12	5	630	18 348	522	1 030	12 958	50 753	38 204	89 532	2 710
327	Nonmetallic mineral product manufacturing .....	—	39	12	996	39 202	768	1 700	27 420	110 893	143 634	256 418	5 999
3272	Glass and glass product manufacturing .....	—	5	4	594	24 684	461	1 075	17 002	65 547	92 957	160 183	D
32721	Glass and glass product manufacturing .....	—	5	4	594	24 684	461	1 075	17 002	65 547	92 957	160 183	D
327211	Flat glass manufacturing ....	—	2	2	e	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	1	23	8	358	12 607	268	546	8 717	39 316	47 703	87 378	2 384
332	Fabricated metal product manufacturing .....	2	'101	'36	'1 743	'61 413	'1 227	'2 226	'35 602	'152 152	'138 980	'278 995	'5 378
3323	Architectural and structural metals manufacturing .....	1	31	15	724	24 733	471	793	12 691	72 057	46 817	107 360	2 530
33231	Plate work and fabricated structural product manufacturing .....	1	12	9	358	14 305	214	410	6 453	45 526	27 787	61 438	787
332312	Fabricated structural metal manufacturing .....	—	11	8	e	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing .....	1	19	6	366	10 428	257	383	6 238	26 531	19 030	45 922	1 743
3328	Coating, engraving, heat treating, and allied activities .....	3	17	6	255	7 518	202	346	4 611	11 661	6 032	17 738	464
33281	Coating, engraving, heat treating, and allied activities ..	3	17	6	255	7 518	202	346	4 611	11 661	6 032	17 738	464
3329	Other fabricated metal product manufacturing .....	—	'12	'4	'349	'13 583	'252	'518	'8 640	'29 719	'56 507	'85 415	'1 187
333	Machinery manufacturing .....	2	56	24	2 318	91 370	1 386	2 722	42 674	158 902	231 403	394 121	10 973
3331	Agriculture, construction, and mining machinery manufacturing .....	7	19	7	527	18 223	359	686	10 994	45 306	60 778	107 520	D
33311	Agricultural implement manufacturing .....	7	14	6	449	15 580	308	598	9 531	42 205	55 507	98 692	2 032
333111	Farm machinery and equipment manufacturing ..	7	12	6	e	D	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing .....	—	5	1	e	D	D	D	D	D	D	D	D
33331	Commercial and service industry machinery manufacturing .....	—	5	1	e	D	D	D	D	D	D	D	D
333311	Automatic vending machine manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	—	18	10	1 126	49 107	590	1 215	19 321	82 413	101 777	186 302	3 224
33391	Pump and compressor manufacturing .....	—	4	2	477	20 961	221	514	7 433	38 869	70 328	111 523	D
333911	Pump and pumping equipment manufacturing ..	—	3	2	e	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	—	11	7	f	D	D	D	D	D	D	D	1 272
333993	Packaging machinery manufacturing .....	—	6	4	399	18 537	226	467	7 612	29 851	18 935	48 777	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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>FRESNO-MADERA, CA COMBINED STATISTICAL AREA—Con.</b>													
<b>Fresno, CA Metropolitan Statistical Area—Con.</b>													
334	Computer and electronic product manufacturing .....	-	10	2	g	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	2	34	12	669	21 250	533	942	13 987	45 944	55 924	102 698	1 293
3362	Motor vehicle body and trailer manufacturing .....	3	10	6	279	8 235	228	475	5 708	14 203	21 245	36 147	389
33621	Motor vehicle body and trailer manufacturing .....	3	10	6	279	8 235	228	475	5 708	14 203	21 245	36 147	389
337	Furniture and related product manufacturing .....	3	44	8	669	16 927	554	1 077	12 375	32 753	23 891	56 709	939
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	5	36	5	496	12 067	435	817	9 525	23 406	16 589	40 031	726
33711	Wood kitchen cabinet and countertop manufacturing ....	2	24	3	283	7 173	242	448	5 517	13 470	8 195	21 694	393
337110	Wood kitchen cabinet and countertop manufacturing ..	2	24	3	283	7 173	242	448	5 517	13 470	8 195	21 694	393
339	Miscellaneous manufacturing .....	1	78	12	1 098	35 626	810	1 550	21 817	101 097	72 508	170 758	2 256
3391	Medical equipment and supplies manufacturing .....	1	42	6	736	24 903	554	1 101	16 244	81 388	58 067	137 119	1 421
33911	Medical equipment and supplies manufacturing .....	1	42	6	736	24 903	554	1 101	16 244	81 388	58 067	137 119	1 421
339113	Surgical appliance and supplies manufacturing ....	-	8	2	486	16 975	377	780	11 652	64 958	51 015	113 708	974
3399	Other miscellaneous manufacturing .....	3	36	6	362	10 723	256	449	5 573	19 709	14 441	33 639	835
<b>Madera, CA Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	-	103	41	4 414	151 121	3 469	6 249	104 369	589 761	528 315	1 104 524	39 857
311	Food manufacturing .....	1	12	7	348	11 869	228	400	5 805	65 519	50 882	115 699	1 508
312	Beverage and tobacco product manufacturing .....	-	7	2	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	-	7	2	f	D	D	D	D	D	D	D	D
31213	Wineries .....	-	7	2	f	D	D	D	D	D	D	D	D
312130	Wineries .....	-	7	2	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	4	4	405	15 245	302	628	10 417	48 780	67 705	116 422	D
3222	Converted paper product manufacturing .....	-	4	4	405	15 245	302	628	10 417	48 780	67 705	116 422	D
32221	Paperboard container manufacturing .....	-	3	3	e	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	-	3	3	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	6	6	537	17 438	463	795	13 189	46 935	47 557	93 767	12 765
3261	Plastics product manufacturing ..	1	6	6	537	17 438	463	795	13 189	46 935	47 557	93 767	12 765
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing .....	2	3	3	280	9 269	236	290	6 647	15 439	25 842	41 131	D
327	Nonmetallic mineral product manufacturing .....	-	9	5	744	36 783	651	1 343	30 717	147 351	97 352	256 362	D
3272	Glass and glass product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
327213	Glass container manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product manufacturing .....	-	2	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.**

[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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>FRESNO-MADERA, CA COMBINED STATISTICAL AREA—Con.</b>													
<b>Madera, CA Metropolitan Statistical Area—Con.</b>													
333	Machinery manufacturing .....	1	7	5	806	30 103	585	1 202	17 176	95 582	57 676	149 597	10 469
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	'27 681	'8 066	'882 222	'33 292 643	'600 789	'1 176 541	'17 176 195	'94 961 431	'85 858 754	'180 413 543	'8 363 535
311	Food manufacturing .....	2	'1 796	'533	'63 182	'1 982 661	'44 975	'87 864	'1 214 257	'8 736 272	'9 196 085	'17 963 447	'573 934
3111	Animal food manufacturing .....	4	48	21	1 952	94 667	1 281	2 718	60 856	776 344	631 632	1 445 973	30 374
31111	Animal food manufacturing .....	4	48	21	1 952	94 667	1 281	2 718	60 856	776 344	631 632	1 445 973	30 374
311111	Dog and cat food manufacturing .....	4	15	9	g	D	D	D	D	D	D	D	D
311119	Other animal food manufacturing .....	4	33	12	f	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling .....	—	35	16	f	D	D	D	D	D	D	D	D
31121	Flour milling and malt manufacturing .....	—	19	7	e	D	D	D	D	D	D	D	D
311211	Flour milling .....	—	15	7	e	D	D	D	D	D	D	D	D
31122	Starch and vegetable fats and oils manufacturing .....	—	13	7	548	23 251	442	889	18 048	128 632	289 368	416 023	D
311225	Fats and oils refining and blending .....	—	9	6	475	20 044	391	778	16 147	122 178	257 609	377 704	2 240
3113	Sugar and confectionery product manufacturing .....	5	89	17	3 265	92 854	2 450	4 853	65 006	317 438	331 383	645 587	D
31131	Sugar manufacturing .....	9	2	1	f	D	D	D	D	D	D	D	D
311312	Cane sugar refining .....	9	2	1	f	D	D	D	D	D	D	D	D
31132	Chocolate and confectionery manufacturing from cacao beans .....	1	4	1	e	D	D	D	D	D	D	D	D
311320	Chocolate and confectionery manufacturing from cacao beans .....	1	4	1	e	D	D	D	D	D	D	D	D
31133	Confectionery manufacturing from purchased chocolate .....	1	45	9	g	D	D	D	D	D	D	D	D
311330	Confectionery manufacturing from purchased chocolate .....	1	45	9	g	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery manufacturing .....	5	38	6	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing .....	5	38	6	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	2	116	73	10 004	286 318	8 326	16 384	205 595	1 576 101	1 613 566	3 196 584	142 521
31141	Frozen food manufacturing .....	2	48	37	5 854	146 193	4 959	9 460	103 252	732 938	831 833	1 565 033	D
311411	Frozen fruit, juice, and vegetable manufacturing .....	2	17	14	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	2	31	23	h	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	2	68	36	4 150	140 125	3 367	6 924	102 343	843 163	781 733	1 631 551	D
311421	Fruit and vegetable canning .....	3	47	24	h	D	D	D	D	D	D	D	D
311422	Specialty canning .....	3	8	4	e	D	D	D	D	D	D	D	D
311423	Dried and dehydrated food manufacturing .....	—	13	8	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	1	99	42	i	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	1	62	33	i	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing .....	1	27	17	h	D	D	D	D	D	D	D	D
311513	Cheese manufacturing .....	—	18	9	g	D	D	D	D	D	D	D	D
311514	Dry, condensed, and evaporated dairy product manufacturing .....	—	16	6	f	D	D	D	D	D	D	D	D
31152	Ice cream and frozen dessert manufacturing .....	2	37	9	f	D	D	D	D	D	D	D	D
311520	Ice cream and frozen dessert manufacturing .....	2	37	9	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	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)	
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>													
311	Food manufacturing—Con.													
3116	Animal slaughtering and processing .....	3	136	61	i	D	D	D	D	D	D	31 547		
31161	Animal slaughtering and processing .....	3	136	61	i	D	D	D	D	D	D	31 547		
311611	Animal (except poultry) slaughtering .....	1	38	11	g	D	D	D	D	D	D	6 566		
311612	Meat processed from carcasses .....	3	70	35	h	D	D	D	D	D	D	18 286		
311613	Rendering and meat byproduct processing .....	—	7	4	e	D	D	D	D	D	D	D		
311615	Poultry processing .....	4	21	11	g	D	D	D	D	D	D	D		
3117	Seafood product preparation and packaging .....	3	38	20	h	D	D	D	D	D	D	D		
31171	Seafood product preparation and packaging .....	3	38	20	h	D	D	D	D	D	D	D		
311711	Seafood canning .....	4	12	5	f	D	D	D	D	D	D	D		
311712	Fresh and frozen seafood processing .....	2	26	15	g	D	D	D	D	D	D	D		
3118	Bakeries and tortilla manufacturing .....	2	911	167		21 733	634 337	14 042	25 926	364 253	2 120 883	1 152 494	3 270 394	101 181
31181	Bread and bakery product manufacturing .....	3	813	125	j	D	D	D	D	D	D	D	D	
311811	Retail bakeries .....	5	596	51	h	D	D	D	D	D	D	D	D	
311812	Commercial bakeries .....	3	198	62	j	D	D	D	D	D	D	D	D	
311813	Frozen cakes, pies, and other pastries manufacturing .....	—	19	12	g	D	D	D	D	D	D	D	D	
31182	Cookie, cracker, and pasta manufacturing .....	1	58	22	g	D	D	D	D	D	D	D	D	
311821	Cookie and cracker manufacturing .....	—	25	7	f	D	D	D	D	D	D	D	D	
311822	Flour mixes and dough manufacturing from purchased flour .....	1	17	12	f	D	D	D	D	D	D	D	D	
31183	Tortilla manufacturing .....	1	40	20	h	D	D	D	D	D	D	D	D	
311830	Tortilla manufacturing .....	1	40	20	h	D	D	D	D	D	D	D	D	
3119	Other food manufacturing .....	2	'324	'116	'9 933	'320 177	'6 952	'13 897	'185 228	'1 744 882	'1 300 614	'3 040 477	'71 661	
31191	Snack food manufacturing .....	2	23	9	f	D	D	D	D	D	D	D	D	
311919	Other snack food manufacturing .....	2	22	9	f	D	D	D	D	D	D	D	D	
31192	Coffee and tea manufacturing .....	6	14	6	821	34 099	499	976	17 972	169 951	142 422	313 504	11 840	
311920	Coffee and tea manufacturing .....	6	14	6	821	34 099	499	976	17 972	169 951	142 422	313 504	11 840	
31193	Flavoring syrup and concentrate manufacturing .....	1	20	10	f	D	D	D	D	D	D	D	D	
311930	Flavoring syrup and concentrate manufacturing .....	1	20	10	f	D	D	D	D	D	D	D	D	
31194	Seasoning and dressing manufacturing .....	2	56	27	g	D	D	D	D	D	D	D	D	
311941	Mayonnaise, dressing, and other prepared sauce manufacturing .....	1	25	12	f	D	D	D	D	D	D	D	D	
311942	Spice and extract manufacturing .....	4	31	15	f	D	D	D	D	D	D	D	D	
31199	All other food manufacturing .....	2	'211	'64	i	D	D	D	D	D	D	D	D	
311991	Perishable prepared food manufacturing .....	1	57	32	h	D	D	D	D	D	D	D	D	
311999	All other miscellaneous food manufacturing .....	3	'154	'32	g	D	D	D	D	D	D	D	D	
312	Beverage and tobacco product manufacturing .....	1	83	34	i	D	D	D	D	D	D	D	D	
3121	Beverage manufacturing .....	1	81	33	i	D	D	D	D	D	D	D	D	
31211	Soft drink and ice manufacturing .....	—	47	28		3 674	136 161	1 737	3 639	65 559	1 247 141	1 011 355	2 258 754	80 568
312111	Soft drink manufacturing .....	—	22	17		2 862	115 063	1 373	2 933	57 674	1 174 263	970 586	2 145 635	D
312112	Bottled water manufacturing .....	—	12	7	f	D	D	D	D	D	D	D	D	
31212	Breweries .....	3	9	3	g	D	D	D	D	D	D	D	D	
312120	Breweries .....	3	9	3	g	D	D	D	D	D	D	D	D	
31213	Wineries .....	3	24	2	e	D	D	D	D	D	D	D	D	
312130	Wineries .....	3	24	2	e	D	D	D	D	D	D	D	D	
313	Textile mills .....	3	396	110	j	D	D	D	D	D	D	D	D	
3131	Fiber, yarn, and thread mills .....	6	28	8		388	9 222	348	647	7 117	16 383	50 486	67 777	D
31311	Fiber, yarn, and thread mills .....	6	28	8		388	9 222	348	647	7 117	16 383	50 486	67 777	D
3132	Fabric mills .....	3	156	39		4 178	104 010	3 464	6 820	75 099	224 318	257 819	485 615	D
31321	Broadwoven fabric mills .....	7	79	14	g	D	D	D	D	D	D	D	D	
313210	Broadwoven fabric mills .....	7	79	14	g	D	D	D	D	D	D	D	D	
31322	Narrow fabric mills and schiffli machine embroidery .....	1	27	7	g	D	D	D	D	D	D	D	D	
313221	Narrow fabric mills .....	1	15	3	f	D	D	D	D	D	D	D	D	
313222	Schiffli machine embroidery .....	—	12	4	e	D	D	D	D	D	D	D	D	
31324	Knit fabric mills .....	2	41	15		1 672	41 884	1 325	2 758	28 940	90 880	158 033	250 722	5 039
313241	Weft knit fabric mills .....	1	27	13	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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>													
313	Textile mills—Con.												
3133	Textile and fabric finishing and fabric coating mills .....	2	212	63	i	D	D	D	D	D	D	D	D
31331	Textile and fabric finishing mills .....	2	191	57	i	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills .....	3	134	32	h	D	D	D	D	D	D	D	D
313312	Textile and fabric finishing (except broadwoven fabric) mills .....	1	57	25	h	D	D	D	D	D	D	D	D
31332	Fabric coating mills .....	3	21	6	e	D	D	D	D	D	D	D	D
313320	Fabric coating mills .....	3	21	6	e	D	D	D	D	D	D	D	D
314	Textile product mills .....	2	'531	'149	j	D	D	D	D	D	D	D	D
3141	Textile furnishings mills .....	1	'227	'67	i	D	D	D	D	D	D	D	D
31411	Carpet and rug mills .....	1	20	10	h	D	D	D	D	D	D	D	D
314110	Carpet and rug mills .....	1	20	10	h	D	D	D	D	D	D	D	D
31412	Curtain and linen mills .....	1	'207	'57	i	D	D	D	D	D	D	D	D
314121	Curtain and drapery mills .....	4	121	13	g	D	D	D	D	D	D	D	D
314129	Other household textile product mills .....	1	'86	'44	h	D	D	D	D	D	D	D	D
3149	Other textile product mills .....	4	304	82	i	D	D	D	D	D	D	D	D
31491	Textile bag and canvas mills .....	4	104	26	g	D	D	D	D	D	D	D	D
314911	Textile bag mills .....	2	17	7	e	D	D	D	D	D	D	D	D
314912	Canvas and related product mills .....	4	87	19	g	D	D	D	D	D	D	D	D
31499	All other textile product mills .....	4	200	56	h	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills .....	4	194	53	h	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	2	4 179	882	82 407	1 791 846	66 139	116 950	1 099 545	'4 267 525	4 834 004	'9 066 363	D
3151	Apparel knitting mills .....	3	76	28	g	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills .....	3	61	24	g	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills .....	3	57	23	g	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing .....	2	3 937	818	l	D	D	D	D	D	D	D	D
31521	Cut and sew apparel contractors .....	5	'3 005	491	k	D	D	D	D	D	D	D	D
315211	Men's and boys' cut and sew apparel contractors .....	4	271	84	i	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors .....	5	'2 734	407	k	D	D	D	D	D	D	D	D
31522	Men's and boys' cut and sew apparel manufacturing .....	2	135	50	i	D	D	D	D	D	D	D	D
315223	Men's and boys' cut and sew shirt (except work shirt) manufacturing .....	1	43	22	g	D	D	D	D	D	D	D	D
315224	Men's and boys' cut and sew trouser, slack, and jean manufacturing .....	1	14	7	g	D	D	D	D	D	D	D	D
315225	Men's and boys' cut and sew work clothing manufacturing .....	5	13	8	f	D	D	D	D	D	D	D	D
315228	Men's and boys' cut and sew other outerwear manufacturing .....	5	43	11	g	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing .....	2	'691	247	k	D	D	D	D	D	D	D	D
315231	Women's and girls' cut and sew lingerie, loungewear, and nightwear manufacturing .....	1	29	16	h	D	D	D	D	D	D	D	D
315232	Women's and girls' cut and sew blouse and shirt manufacturing .....	1	165	72	i	D	D	D	D	D	D	D	D
315233	Women's and girls' cut and sew dress manufacturing .....	2	'159	59	i	D	D	D	D	D	D	D	D
315234	Women's and girls' cut and sew suit, coat, tailored jacket, and skirt manufacturing .....	6	35	6	e	D	D	D	D	D	D	D	D
315239	Women's and girls' cut and sew other outerwear manufacturing .....	2	303	94	i	D	D	D	D	D	D	D	D
31529	Other cut and sew apparel manufacturing .....	4	106	30	g	D	D	D	D	D	D	D	D
315292	Fur and leather apparel manufacturing .....	2	25	6	e	D	D	D	D	D	D	D	D
315299	All other cut and sew apparel manufacturing .....	5	74	21	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.**

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>													
315	Apparel manufacturing—Con.												
3159	Apparel accessories and other apparel manufacturing .....	2	166	36	h	D	D	D	D	D	D	D	D
31599	Apparel accessories and other apparel manufacturing .....	2	166	36	h	D	D	D	D	D	D	D	D
315991	Hat, cap, and millinery manufacturing .....	3	14	5	e	D	D	D	D	D	D	D	D
315993	Men's and boys' neckwear manufacturing .....	—	5	2	f	D	D	D	D	D	D	D	D
315999	Other apparel accessories and other apparel manufacturing .....	2	143	26	h	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing .....	3	140	42	h	D	D	D	D	D	D	D	D
3162	Footwear manufacturing .....	4	52	17	g	D	D	D	D	D	D	D	D
31621	Footwear manufacturing .....	4	52	17	g	D	D	D	D	D	D	D	D
316214	Women's footwear (except athletic) manufacturing .....	3	24	8	f	D	D	D	D	D	D	D	D
316219	Other footwear manufacturing .....	2	12	3	e	D	D	D	D	D	D	D	D
3169	Other leather and allied product manufacturing .....	3	72	23	g	D	D	D	D	D	D	D	D
31699	Other leather and allied product manufacturing .....	3	72	23	g	D	D	D	D	D	D	D	D
316991	Luggage manufacturing .....	4	21	10	f	D	D	D	D	D	D	D	D
316992	Women's handbag and purse manufacturing .....	3	10	2		580	11 614	498	820	8 382	23 953	18 128	42 224
316999	All other leather goods manufacturing .....	1	25	8	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	3	618	184	j	D	D	D	D	D	D	D	D
3211	Sawmills and wood preservation .....	4	29	4		277	7 611	238	460	6 012	14 307	25 597	39 524
32111	Sawmills and wood preservation .....	4	29	4		277	7 611	238	460	6 012	14 307	25 597	39 524
3212	Veneer, plywood, and engineered wood product manufacturing .....	3	66	31	g	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	3	66	31	g	D	D	D	D	D	D	D	D
321211	Hardwood veneer and plywood manufacturing .....	3	15	8	f	D	D	D	D	D	D	D	1 200
321214	Truss manufacturing .....	3	33	19	g	D	D	D	D	D	D	D	D
321219	Reconstituted wood product manufacturing .....	2	10	4	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	3	523	149	j	D	D	D	D	D	D	D	D
32191	Millwork .....	4	239	66	i	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing .....	5	85	30		2 451	67 156	1 734	3 412	39 138	132 987	160 827	294 182
321912	Cut stock, resawing lumber, and planing .....	—	35	9	g	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring) .....	4	119	27	g	D	D	D	D	D	D	D	D
32192	Wood container and pallet manufacturing .....	3	140	44	h	D	D	D	D	D	D	D	5 336
321920	Wood container and pallet manufacturing .....	3	140	44	h	D	D	D	D	D	D	D	5 336
32199	All other wood product manufacturing .....	3	144	39		4 542	111 683	3 340	6 414	72 293	284 503	255 331	538 603
321991	Manufactured home (mobile home) manufacturing .....	3	23	8		1 901	51 384	1 565	2 856	34 320	148 456	125 081	274 528
321992	Prefabricated wood building manufacturing .....	5	17	5		378	10 584	316	620	6 852	23 479	25 650	48 980
321999	All other miscellaneous wood product manufacturing .....	2	104	26		2 263	49 715	1 459	2 938	31 121	112 568	104 600	215 095
322	Paper manufacturing .....	1	351	196		18 304	776 764	13 736	28 889	508 171	2 515 337	3 059 829	5 636 001
3221	Pulp, paper, and paperboard mills .....	2	18	15	g	D	D	D	D	D	D	D	D
32212	Paper mills .....	3	11	8	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	3	10	7	g	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	—	7	7	f	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	—	7	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	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
325	Chemical manufacturing—Con.												
3251	Basic chemical manufacturing—Con.												
32519	Other basic organic chemical manufacturing . . . . .	2	31	8	f	D	D	D	D	D	D	D	
325199	All other basic organic chemical manufacturing . . . . .	3	26	6	e	D	D	D	D	D	D	D	
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing . . . . .	2	72	29		2 279	100 370	1 648	3 479	62 366	272 423	578 340	856 975
32521	Resin and synthetic rubber manufacturing . . . . .	2	68	28		2 157	96 973	1 540	3 265	59 706	260 864	564 410	831 515
325211	Plastics material and resin manufacturing . . . . .	1	50	24	g	D	D	D	D	D	D	D	D
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing . . . . .	2	34	10	f	D	D	D	D	D	D	D	D
32531	Fertilizer manufacturing . . . . .	4	23	8	f	D	D	D	D	D	D	D	D
325314	Fertilizer (mixing only) manufacturing . . . . .	4	15	7	f	D	D	D	D	D	D	D	D
32532	Pesticide and other agricultural chemical manufacturing . . . . .	1	11	2	e	D	D	D	D	D	D	D	D
325320	Pesticide and other agricultural chemical manufacturing . . . . .	1	11	2	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing . . . . .	1	134	67		16 752	750 701	9 394	17 270	307 015	2 948 920	1 527 564	4 498 493
32541	Pharmaceutical and medicine manufacturing . . . . .	1	134	67		16 752	750 701	9 394	17 270	307 015	2 948 920	1 527 564	4 498 493
325411	Medicinal and botanical manufacturing . . . . .	—	29	11	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing . . . . .	—	77	39	j	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance manufacturing . . . . .	—	20	12	g	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) manufacturing . . . . .	4	8	5	g	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing . . . . .	1	160	57		4 232	187 732	2 360	4 683	80 077	1 021 589	751 495	1 771 881
32551	Paint and coating manufacturing . . . . .	1	115	40	h	D	D	D	D	D	D	D	D
325510	Paint and coating manufacturing . . . . .	1	115	40	h	D	D	D	D	D	D	D	D
32552	Adhesive manufacturing . . . . .	2	45	17	g	D	D	D	D	D	D	D	D
325520	Adhesive manufacturing . . . . .	2	45	17	g	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing . . . . .	1	'242	'76		'9 724	'396 141	'5 704	'11 628	'154 474	'1 838 935	'1 168 865	'3 024 078
32561	Soap and cleaning compound manufacturing . . . . .	3	103	24		1 571	62 949	955	2 007	32 364	283 753	253 717	548 442
325611	Soap and other detergent manufacturing . . . . .	4	49	11	f	D	D	D	D	D	D	D	D
325612	Polish and other sanitation good manufacturing . . . . .	2	47	11	f	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing . . . . .	1	'139	'52		'8 153	'333 192	'4 749	'9 621	'122 110	'1 555 182	'915 148	'2 475 636
325620	Toilet preparation manufacturing . . . . .	1	'139	'52		'8 153	'333 192	'4 749	'9 621	'122 110	'1 555 182	'915 148	'2 475 636
3259	Other chemical product and preparation manufacturing . . . . .	2	194	70	i	D	D	D	D	D	D	D	D
32591	Printing ink manufacturing . . . . .	2	35	19	f	D	D	D	D	D	D	D	D
325910	Printing ink manufacturing . . . . .	2	35	19	f	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing . . . . .	2	158	50	h	D	D	D	D	D	D	D	D
325991	Custom compounding of purchased resins . . . . .	2	48	15	g	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, and chemical manufacturing . . . . .	1	39	15	g	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product and preparation manufacturing . . . . .	3	71	20	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing . . . . .	1	'1 144	'566		'59 336	'1 829 767	'45 222	'89 654	'1 128 328	'4 820 518	'4 241 872	'9 074 434
3261	Plastics product manufacturing . . . . .	1	'979	'496	l	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
326	Plastics and rubber products manufacturing—Con.												
3261	Plastics product manufacturing—Con.												
32611	Plastics packaging materials and unlaminated film and sheet manufacturing . . . . .	1	110	61	i	D	D	D	D	D	D	D	D
326111	Plastics bag manufacturing . . . . .	1	47	25	h	D	D	D	D	D	D	D	14 859
326112	Plastics packaging film and sheet (including laminated) manufacturing . . . . .	1	17	12	f	D	D	D	D	D	D	D	D
326113	Unlaminated plastics film and sheet (except packaging) manufacturing . . . . .	1	46	24	g	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing . . . . .	1	80	43	3 249	106 744	2 750	5 841	79 578	274 884	281 188	557 025	22 354
326121	Unlaminated plastics profile shape manufacturing . . . . .	—	52	27	1 960	66 583	1 662	3 479	51 074	150 109	124 187	271 888	12 928
326122	Plastics pipe and pipe fitting manufacturing . . . . .	2	28	16	1 289	40 161	1 088	2 362	28 504	124 775	157 001	285 137	9 426
32613	Laminated plastics plate, sheet, (except packaging), and shape manufacturing . . . . .	2	18	5	375	14 809	304	647	11 048	33 157	46 240	81 735	3 529
326130	Laminated plastics plate, sheet, (except packaging), and shape manufacturing . . . . .	2	18	5	375	14 809	304	647	11 048	33 157	46 240	81 735	3 529
32614	Polystyrene foam product manufacturing . . . . .	1	51	24	h	D	D	D	D	D	D	D	D
326140	Polystyrene foam product manufacturing . . . . .	1	51	24	h	D	D	D	D	D	D	D	D
32615	Urethane and other foam product (except polystyrene) manufacturing . . . . .	1	55	33	h	D	D	D	D	D	D	D	D
326150	Urethane and other foam product (except polystyrene) manufacturing . . . . .	1	55	33	h	D	D	D	D	D	D	D	D
32616	Plastics bottle manufacturing . . . . .	—	43	30	h	D	D	D	D	D	D	D	D
326160	Plastics bottle manufacturing . . . . .	—	43	30	h	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing . . . . .	1	'622	'300	'34 935	'1 068 713	'25 884	'51 175	'617 739	'2 782 129	'2 067 328	'4 843 554	'164 595
326191	Plastics plumbing fixture manufacturing . . . . .	1	'35	'21	h	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing . . . . .	1	'584	'278	k	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing . . . . .	2	'165	'70	i	D	D	D	D	D	D	D	D
32621	Tire manufacturing . . . . .	1	'27	'9	'516	'15 700	'369	'801	'9 675	'33 766	'59 015	'92 699	'5 798
326212	Tire retreading . . . . .	'1	'21	'7	e	D	D	D	D	D	D	D	D
32622	Rubber and plastics hoses and belting manufacturing . . . . .	1	19	5	486	15 906	374	699	9 454	37 665	42 488	82 114	6 896
326220	Rubber and plastics hoses and belting manufacturing . . . . .	1	19	5	486	15 906	374	699	9 454	37 665	42 488	82 114	6 896
32629	Other rubber product manufacturing . . . . .	3	119	56	i	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use . . . . .	2	44	23	h	D	D	D	D	D	D	D	D
326299	All other rubber product manufacturing . . . . .	3	75	33	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing . . . . .	2	706	273	21 756	780 973	16 836	34 781	533 737	2 213 696	1 915 227	4 106 214	135 120
3271	Clay product and refractory manufacturing . . . . .	3	102	34	h	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, and plumbing fixture manufacturing . . . . .	5	58	19	g	D	D	D	D	D	D	D	D
327112	Vitreous china, fine earthenware, and other pottery product manufacturing . . . . .	5	51	16	g	D	D	D	D	D	D	D	D
32712	Clay building material and refractories manufacturing . . . . .	1	44	15	g	D	D	D	D	D	D	D	D
327121	Brick and structural clay tile manufacturing . . . . .	—	9	5	e	D	D	D	D	D	D	D	D
327123	Other structural clay product manufacturing . . . . .	—	6	5	e	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing . . . . .	2	161	44	h	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing . . . . .	2	161	44	h	D	D	D	D	D	D	D	D
327211	Flat glass manufacturing . . . . .	—	3	2	e	D	D	D	D	D	D	D	D
327212	Other pressed and blown glass and glassware manufacturing . . . . .	1	38	6	f	D	D	D	D	D	D	D	D
327213	Glass container manufacturing . . . . .	—	5	3	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>													
327	Nonmetallic mineral product manufacturing—Con.												
3272	Glass and glass product manufacturing—Con.												
32721	Glass and glass product manufacturing—Con.												
327215	Glass product manufacturing made of purchased glass ..	3	115	33	h	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	2	253	135	10 519	408 580	8 186	17 317	288 973	1 182 802	1 164 717	2 331 352	76 465
32731	Cement manufacturing .....	2	9	6	995	52 383	721	1 653	35 815	293 978	220 122	508 279	D
327310	Cement manufacturing .....	2	9	6	995	52 383	721	1 653	35 815	293 978	220 122	508 279	D
32732	Ready-mix concrete manufacturing .....	2	138	71	4 023	159 869	3 303	6 987	127 036	392 406	626 466	1 019 148	37 922
327320	Ready-mix concrete manufacturing .....	2	138	71	4 023	159 869	3 303	6 987	127 036	392 406	626 466	1 019 148	37 922
32733	Concrete pipe, brick, and block manufacturing .....	2	33	21	g	D	D	D	D	D	D	D	D
327331	Concrete block and brick manufacturing .....	4	25	14	f	D	D	D	D	D	D	D	D
327332	Concrete pipe manufacturing .....	1	8	7	f	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing .....	2	73	37	h	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing .....	2	73	37	h	D	D	D	D	D	D	D	D
3274	Lime and gypsum product manufacturing .....	2	35	11	843	33 892	681	1 447	24 656	72 755	135 114	207 737	D
32742	Gypsum product manufacturing .....	2	33	11	f	D	D	D	D	D	D	D	D
327420	Gypsum product manufacturing .....	2	33	11	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing .....	2	155	49	3 293	111 976	2 419	4 931	67 924	314 147	245 820	558 383	D
32791	Abrasive product manufacturing .....	1	32	14	f	D	D	D	D	D	D	D	D
327910	Abrasive product manufacturing .....	1	32	14	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product manufacturing .....	2	123	35	g	D	D	D	D	D	D	D	D
327991	Cut stone and stone product manufacturing .....	5	64	13	f	D	D	D	D	D	D	D	D
327993	Mineral wool manufacturing .....	—	19	9	f	D	D	D	D	D	D	D	D
327999	All other miscellaneous nonmetallic mineral product manufacturing .....	4	33	11	746	26 372	509	1 098	15 619	76 648	103 234	179 908	D
331	Primary metal manufacturing .....	—	342	162	16 664	624 575	13 161	27 100	421 456	1 714 321	2 326 752	4 050 389	D
3311	Iron and steel mills and ferroalloy manufacturing .....	—	'15	'8	g	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	—	'15	'8	g	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	—	13	7	g	D	D	D	D	D	D	D	D
3312	Steel product manufacturing from purchased steel .....	1	47	23	h	D	D	D	D	D	D	D	D
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	—	9	6	f	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	—	9	6	f	D	D	D	D	D	D	D	D
33122	Rolling and drawing of purchased steel .....	2	38	17	g	D	D	D	D	D	D	D	D
331222	Steel wire drawing .....	2	30	15	g	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing .....	—	49	27	h	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	—	49	27	h	D	D	D	D	D	D	D	D
331314	Secondary smelting and alloying of aluminum .....	—	10	6	e	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, and foil manufacturing .....	1	7	4	e	D	D	D	D	D	D	D	D
331316	Aluminum extruded product manufacturing .....	—	20	15	g	D	D	D	D	D	D	D	D
331319	Other aluminum rolling and drawing .....	—	9	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	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>													
331 3314	Primary metal manufacturing—Con. Nonferrous metal (except aluminum) production and processing .....	1	'56	'15	g	D	D	D	D	D	D	D	
33141	Nonferrous metal (except aluminum) smelting and refining .....	—	'14	'6	f	D	D	D	D	D	D	D	
331419	Primary smelting and refining of nonferrous metal (except copper and aluminum) .....	—	'14	'6	f	D	D	D	D	D	D	D	
33142	Copper rolling, drawing, extruding, and alloying .....	2	15	3	e	D	D	D	D	D	D	D	
331422	Copper wire (except mechanical) drawing .....	1	7	2	e	D	D	D	D	D	D	D	
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying .....	2	'27	'6	f	D	D	D	D	D	D	D	
331492	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum) .....	'2	'13	'5	f	D	D	D	D	D	D	D	
3315	Foundries .....	1	175	89	7 077	221 724	5 783	11 801	154 253	501 404	267 948	769 180	D
33151	Ferrous metal foundries .....	—	51	29	2 996	86 226	2 429	4 680	60 272	209 889	98 631	307 956	D
331511	Iron foundries .....	—	25	11	f	D	D	D	D	D	D	D	D
331512	Steel investment foundries ..	—	13	11	g	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment) .....	1	13	7	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries ..	2	124	60	4 081	135 498	3 354	7 121	93 981	291 515	169 317	461 224	D
331521	Aluminum die-casting foundries .....	2	32	18	g	D	D	D	D	D	D	D	D
331522	Nonferrous (except aluminum) die-casting foundries .....	—	15	7	f	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) .....	2	53	22	g	D	D	D	D	D	D	D	D
331525	Copper foundries (except die-casting) .....	2	14	8	e	D	D	D	D	D	D	D	D
331528	Other nonferrous foundries (except die-casting) .....	2	10	5	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	'4 694	'1 236	'102 060	'3 768 077	'75 482	'151 026	'2 318 920	'8 575 570	'5 869 947	'14 519 119	'425 605
3321	Forging and stamping .....	1	225	97	7 721	307 475	5 654	12 075	180 277	578 001	697 681	1 295 589	D
33211	Forging and stamping .....	1	225	97	7 721	307 475	5 654	12 075	180 277	578 001	697 681	1 295 589	D
332111	Iron and steel forging .....	4	17	9	f	D	D	D	D	D	D	D	D
332112	Nonferrous forging .....	—	13	11	g	D	D	D	D	D	D	D	D
332114	Custom roll forming .....	1	27	13	f	D	D	D	D	D	D	D	D
332116	Metal stamping .....	2	156	58	h	D	D	D	D	D	D	D	D
332117	Powder metallurgy part manufacturing .....	—	9	5	e	D	D	D	D	D	D	D	D
3322	Cutlery and handtool manufacturing .....	1	131	42	3 167	105 630	2 288	4 627	59 633	298 553	223 065	518 925	D
33221	Cutlery and handtool manufacturing .....	1	131	42	3 167	105 630	2 288	4 627	59 633	298 553	223 065	518 925	D
332212	Hand and edge tool manufacturing .....	1	112	34	h	D	D	D	D	D	D	D	D
332213	Saw blade and handsaw manufacturing .....	—	13	5	e	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	2	803	248	21 005	720 918	15 443	31 311	442 721	1 667 922	1 378 363	3 070 103	64 009
33231	Plate work and fabricated structural product manufacturing .....	2	217	72	5 703	215 633	4 065	8 496	128 833	468 844	463 066	943 814	16 993
332311	Prefabricated metal building and component manufacturing .....	6	28	14	g	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing .....	1	153	48	h	D	D	D	D	D	D	D	D
332313	Plate work manufacturing ..	2	36	10	f	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing .....	2	586	176	15 302	505 285	11 378	22 815	313 888	1 199 078	915 297	2 126 289	47 016
332321	Metal window and door manufacturing .....	1	101	46	i	D	D	D	D	D	D	D	D
332322	Sheet metal work manufacturing .....	2	330	103	i	D	D	D	D	D	D	D	D
332323	Ornamental and architectural metal work manufacturing ..	1	155	27	2 333	87 955	1 609	3 019	51 147	275 370	154 396	427 972	6 511
3324	Boiler, tank, and shipping container manufacturing .....	1	83	48	h	D	D	D	D	D	D	D	D
33241	Power boiler and heat exchanger manufacturing .....	4	18	8	f	D	D	D	D	D	D	D	D
332410	Power boiler and heat exchanger manufacturing ..	4	18	8	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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
332	Fabricated metal product manufacturing—Con.												
3324	Boiler, tank, and shipping container manufacturing—Con.												
33242	Metal tank (heavy gauge) manufacturing .....	2	31	18	g	D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) manufacturing .....	2	31	18	g	D	D	D	D	D	D	D	D
33243	Metal can, box, and other metal container (light gauge) manufacturing .....	1	34	22	1 991	89 552	1 591	3 354	64 520	372 175	513 037	885 547	D
332431	Metal can manufacturing ....	1	12	9	g	D	D	D	D	D	D	D	D
332439	Other metal container manufacturing .....	3	22	13	f	D	D	D	D	D	D	D	D
3325	Hardware manufacturing .....	1	'100	'43	'4 186	'155 089	'2 839	'6 179	'81 229	'430 570	'226 041	'660 179	D
33251	Hardware manufacturing .....	1	'100	'43	'4 186	'155 089	'2 839	'6 179	'81 229	'430 570	'226 041	'660 179	D
332510	Hardware manufacturing ....	1	'100	'43	'4 186	'155 089	'2 839	'6 179	'81 229	'430 570	'226 041	'660 179	D
3326	Spring and wire product manufacturing .....	'2	'145	45	h	D	D	D	D	D	D	D	D
33261	Spring and wire product manufacturing .....	'2	'145	45	h	D	D	D	D	D	D	D	D
332612	Spring (light gauge) manufacturing .....	—	27	12	f	D	D	D	D	D	D	D	D
332618	Other fabricated wire product manufacturing .....	3	'109	31	g	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	'2 019	325	'27 321	'1 078 789	'20 592	'40 549	'708 381	'2 265 983	'903 967	'3 152 555	'118 431
33271	Machine shops .....	3	'1 673	200	'15 814	'614 613	'12 292	'23 401	'424 728	'1 220 382	'474 512	'1 688 450	'77 009
332710	Machine shops .....	3	'1 673	200	'15 814	'614 613	'12 292	'23 401	'424 728	'1 220 382	'474 512	'1 688 450	'77 009
33272	Turned product and screw, nut, and bolt manufacturing .....	2	346	125	'11 507	'464 176	'8 300	'17 148	'283 653	'1 045 601	'429 455	'1 464 105	41 422
332721	Precision turned product manufacturing .....	1	'235	'72	h	D	D	D	D	D	D	D	D
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	2	'111	'53	i	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities .....	1	672	232	14 720	454 831	11 708	23 167	303 776	896 053	533 205	1 448 769	52 537
33281	Coating, engraving, heat treating, and allied activities ..	1	672	232	14 720	454 831	11 708	23 167	303 776	896 053	533 205	1 448 769	52 537
332811	Metal heat treating .....	1	58	29	g	D	D	D	D	D	D	D	D
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	1	223	77	h	D	D	D	D	D	D	D	D
332813	Electroplating, plating, polishing, anodizing, and coloring .....	2	391	126	i	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	1	'516	156	'16 780	'676 389	'11 382	'21 676	'363 402	'1 620 185	'998 907	'2 639 055	D
33291	Metal valve manufacturing ....	—	111	56	i	D	D	D	D	D	D	D	D
332911	Industrial valve manufacturing .....	—	32	13	g	D	D	D	D	D	D	D	D
332912	Fluid power valve and hose fitting manufacturing .....	—	45	25	h	D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting and trim manufacturing .....	2	24	16	1 976	70 577	1 389	2 737	39 378	154 173	139 054	297 570	D
33299	All other fabricated metal product manufacturing .....	2	'405	100	i	D	D	D	D	D	D	D	D
332991	Ball and roller bearing manufacturing .....	4	13	4	f	D	D	D	D	D	D	D	D
332993	Ammunition (except small arms) manufacturing .....	—	5	1	e	D	D	D	D	D	D	D	D
332996	Fabricated pipe and pipe fitting manufacturing .....	1	61	19	1 355	45 976	925	1 938	26 021	88 176	73 674	161 641	4 921
332998	Enameled iron and metal sanitary ware manufacturing .....	—	16	6	g	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product manufacturing .....	2	'263	67	h	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	2	1 617	'453	'44 692	'1 873 055	'28 333	'55 424	'928 750	'4 101 752	'3 272 972	'7 407 042	'220 409
3331	Agriculture, construction, and mining machinery manufacturing .....	1	68	18	g	D	D	D	D	D	D	D	D
33311	Agricultural implement manufacturing .....	—	17	5	856	25 354	662	1 405	17 788	39 673	66 667	106 555	1 777
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing ..	—	4	3	f	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing .....	4	33	8	e	D	D	D	D	D	D	D	D
333120	Construction machinery manufacturing .....	4	33	8	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)					
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>													
333	Machinery manufacturing—Con.													
3331	Agriculture, construction, and mining machinery manufacturing—Con.													
33313	Mining and oil and gas field machinery manufacturing . . . .	—	18	5	f	D	D	D	D	D	D	D	D	
333132	Oil and gas field machinery and equipment manufacturing . . . . .	—	15	4	f	D	D	D	D	D	D	D	D	
3332	Industrial machinery manufacturing . . . . .	4	244	60	i	D	D	D	D	D	D	D	25 247	
33322	Plastics and rubber industry machinery manufacturing . . . .	4	44	4	f	D	D	D	D	D	D	D	D	
333220	Plastics and rubber industry machinery manufacturing . .	4	44	4	f	D	D	D	D	D	D	D	D	
33329	Other industrial machinery manufacturing . . . . .	4	189	54	i	D	D	D	D	D	D	D	D	
333293	Printing machinery and equipment manufacturing . .	8	21	6	f	D	D	D	D	D	D	D	D	
333294	Food product machinery manufacturing . . . . .	4	30	11	f	D	D	D	D	D	D	D	D	
333295	Semiconductor machinery manufacturing . . . . .	2	27	12		1 158	50 073	724	1 445	24 996	80 719	74 910	159 700	
333298	All other industrial machinery manufacturing . . . . .	4	87	25	g	D	D	D	D	D	D	D	D	
3333	Commercial and service industry machinery manufacturing . . . . .	1	251	90		8 920	366 173	5 481	10 578	180 437	884 978	909 147	1 799 124	72 737
33331	Commercial and service industry machinery manufacturing . . . . .	1	251	90		8 920	366 173	5 481	10 578	180 437	884 978	909 147	1 799 124	72 737
333314	Optical instrument and lens manufacturing . . . . .	1	55	26	g	D	D	D	D	D	D	D	D	
333315	Photographic and photocopying equipment manufacturing . . . . .	—	53	17	h	D	D	D	D	D	D	D	D	
333319	Other commercial and service industry machinery manufacturing . . . . .	2	124	44	h	D	D	D	D	D	D	D	D	
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing . . . . .	—	117	54		5 809	204 908	4 102	8 092	121 251	515 444	408 374	935 722	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing . . . . .	—	117	54		5 809	204 908	4 102	8 092	121 251	515 444	408 374	935 722	D
333411	Air purification equipment manufacturing . . . . .	2	22	8	e	D	D	D	D	D	D	D	D	
333412	Industrial and commercial fan and blower manufacturing . .	3	6	4	e	D	D	D	D	D	D	D	D	
333414	Heating equipment (except warm air furnaces) manufacturing . . . . .	—	30	16	h	D	D	D	D	D	D	D	D	
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing . . . . .	—	59	26	h	D	D	D	D	D	D	D	D	
3335	Metalworking machinery manufacturing . . . . .	1	'508	'88		'8 283	'386 856	'6 031	'11 730	'216 691	'739 383	'410 007	'1 141 792	48 390
33351	Metalworking machinery manufacturing . . . . .	1	'508	'88		'8 283	'386 856	'6 031	'11 730	'216 691	'739 383	'410 007	'1 141 792	48 390
333511	Industrial mold manufacturing . . . . .	1	'155	'29	g	D	D	D	D	D	D	D	D	
333512	Machine tool (metal cutting types) manufacturing . . . . .	—	22	8	g	D	D	D	D	D	D	D	D	
333514	Special die and tool, die set, jig, and fixture manufacturing . . . . .	1	179	23	g	D	D	D	D	D	D	D	5 502	
333515	Cutting tool and machine tool accessory manufacturing . . . . .	2	127	22	g	D	D	D	D	D	D	D	D	
3336	Engine, turbine, and power transmission equipment manufacturing . . . . .	5	48	18	g	D	D	D	D	D	D	D	D	
33361	Engine, turbine, and power transmission equipment manufacturing . . . . .	5	48	18	g	D	D	D	D	D	D	D	D	
333611	Turbine and turbine generator set units manufacturing . . . . .	7	3	3	e	D	D	D	D	D	D	D	D	
333613	Mechanical power transmission equipment manufacturing . . . . .	1	15	5	e	D	D	D	D	D	D	D	D	
333618	Other engine equipment manufacturing . . . . .	5	20	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
333	Machinery manufacturing—Con.												
3339	Other general purpose machinery manufacturing .....	1	'381	125	j	D	D	D	D	D	D	D	'40 133
33391	Pump and compressor manufacturing .....	2	57	21	2 686	95 133	1 642	3 140	38 423	300 413	278 106	578 112	14 907
333911	Pump and pumping equipment manufacturing ..	2	33	15	g	D	D	D	D	D	D	D	D
333912	Air and gas compressor manufacturing .....	3	21	5	e	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	1	70	24	g	D	D	D	D	D	D	D	4 380
333922	Conveyor and conveying equipment manufacturing ..	1	31	10	f	D	D	D	D	D	D	D	D
333924	Industrial truck, tractor, trailer, and stacker machinery manufacturing ..	—	19	7	f	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	1	'254	80	'7 184	'324 853	'4 162	'7 723	'144 190	'649 517	'453 862	'1 113 666	'20 846
333992	Welding and soldering equipment manufacturing ..	1	17	7	f	D	D	D	D	D	D	D	D
333993	Packaging machinery manufacturing .....	1	41	11	g	D	D	D	D	D	D	D	D
333994	Industrial process furnace and oven manufacturing ...	3	27	8	517	20 182	336	645	9 273	35 503	26 541	63 422	861
333995	Fluid power cylinder and actuator manufacturing ....	1	24	9	g	D	D	D	D	D	D	D	4 114
333996	Fluid power pump and motor manufacturing .....	—	9	5	f	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	2	'119	35	'2 388	'99 660	'1 399	'2 576	'43 454	'196 214	'150 993	'352 330	'8 776
334	Computer and electronic product manufacturing .....	—	'1 683	'688	'111 749	'5 822 464	'51 983	'101 476	'1 738 924	'16 665 810	'12 483 387	'28 384 371	'1 232 851
3341	Computer and peripheral equipment manufacturing .....	1	183	59	i	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing ....	1	183	59	i	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing .....	—	49	11	g	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing .....	2	35	15	g	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	2	96	32	h	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	1	'189	'84	k	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing .....	3	36	15	h	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing .....	3	36	15	h	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	'109	'49	j	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	'109	'49	j	D	D	D	D	D	D	D	D
33429	Other communications equipment manufacturing ....	3	44	20	g	D	D	D	D	D	D	D	D
334290	Other communications equipment manufacturing ..	3	44	20	g	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing .....	1	91	30	h	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing .....	1	91	30	h	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing .....	1	91	30	h	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	1	648	302	36 986	1 514 193	25 115	49 860	767 797	4 244 753	2 743 436	6 994 949	D
33441	Semiconductor and other electronic component manufacturing .....	1	648	302	36 986	1 514 193	25 115	49 860	767 797	4 244 753	2 743 436	6 994 949	D
334412	Bare printed circuit board manufacturing .....	2	136	53	i	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing .....	1	119	49	9 174	488 964	5 448	10 592	224 287	1 404 178	598 567	1 990 889	131 358
334414	Electronic capacitor manufacturing .....	3	17	9	g	D	D	D	D	D	D	D	D
334415	Electronic resistor manufacturing .....	—	13	11	f	D	D	D	D	D	D	D	D
334416	Electronic coil, transformer, and other inductor manufacturing .....	1	38	17	g	D	D	D	D	D	D	D	D
334417	Electronic connector manufacturing .....	—	56	39	5 949	223 977	4 359	9 061	122 373	465 424	305 442	783 701	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>													
334	Computer and electronic product manufacturing—Con.												
3344	Semiconductor and other electronic component manufacturing—Con.												
33441	Semiconductor and other electronic component manufacturing—Con.												
334418	Printed circuit assembly (electronic assembly) manufacturing .....	-	74	45	5 224	194 205	3 838	7 565	114 100	1 191 323	1 001 956	2 164 454	D
334419	Other electronic component manufacturing .....	1	187	78	7 533	294 067	4 561	9 158	122 200	632 019	413 817	1 057 393	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	'429	176	'32 136	'1 973 774	'11 732	'22 274	'491 079	'5 693 399	'2 674 144	'8 596 026	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	'429	176	'32 136	'1 973 774	'11 732	'22 274	'491 079	'5 693 399	'2 674 144	'8 596 026	D
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	-	48	23	h	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	-	75	37	j	D	D	D	D	D	D	D	D
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use .....	-	21	9	f	D	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	1	76	29	2 589	117 517	1 306	2 663	44 217	245 300	131 625	377 895	D
334514	Totalizing fluid meter and counting device manufacturing .....	1	12	3	e	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	1	72	27	h	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing ..	1	41	16	1 112	54 833	605	1 294	19 836	280 179	195 355	473 997	D
334517	Irradiation apparatus manufacturing .....	2	13	7	e	D	D	D	D	D	D	D	D
334518	Watch, clock, and part manufacturing .....	-	'11	5	'321	'9 769	'234	'489	'5 054	'28 532	'29 888	'58 604	D
334519	Other measuring and controlling device manufacturing .....	1	60	20	1 842	88 583	934	1 924	29 925	194 451	79 723	274 113	D
3346	Manufacturing and reproducing magnetic and optical media .....	-	143	37	i	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media ...	-	143	37	i	D	D	D	D	D	D	D	D
334611	Software reproducing .....	1	18	2	e	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	-	102	32	i	D	D	D	D	D	D	D	D
334613	Magnetic and optical recording media manufacturing .....	-	23	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	1	560	240	23 568	848 271	16 058	32 928	437 840	1 943 389	1 792 794	3 754 870	108 299
3351	Electric lighting equipment manufacturing .....	-	182	83	7 979	241 753	5 794	11 738	135 510	646 806	522 667	1 168 860	D
33512	Lighting fixture manufacturing ..	-	175	80	7 782	236 062	5 642	11 436	132 475	628 663	513 808	1 142 401	22 191
335121	Residential electric lighting fixture manufacturing .....	1	75	26	g	D	D	D	D	D	D	D	D
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing .....	-	53	29	g	D	D	D	D	D	D	D	D
335129	Other lighting equipment manufacturing .....	-	47	25	h	D	D	D	D	D	D	D	D
3352	Household appliance manufacturing .....	1	27	9	f	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing ..	-	13	7	f	D	D	D	D	D	D	D	D
335221	Household cooking appliance manufacturing .....	-	11	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 <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>													
335	Electrical equipment, appliance, and component manufacturing—Con.												
3353	Electrical equipment manufacturing .....	2	'169	'64	i	D	D	D	D	D	D	'12 918	
33531	Electrical equipment manufacturing .....	2	'169	'64	i	D	D	D	D	D	D	'12 918	
335311	Power, distribution, and specialty transformer manufacturing .....	2	23	10	f	D	D	D	D	D	D	D	
335312	Motor and generator manufacturing .....	3	36	13	g	D	D	D	D	D	D	D	
335313	Switchgear and switchboard apparatus manufacturing ..	1	35	16	g	D	D	D	D	D	D	D	
335314	Relay and industrial control manufacturing .....	1	'75	'25	h	D	D	D	D	D	D	D	
3359	Other electrical equipment and component manufacturing .....	1	'182	'84	'9 007	'355 999	'6 129	'12 783	'187 253	'807 341	'883 840	'1 694 856	'70 640
33591	Battery manufacturing .....	1	14	10	1 490	56 489	1 259	2 663	43 783	163 780	196 740	366 204	D
335911	Storage battery manufacturing .....	1	13	10	g	D	D	D	D	D	D	D	D
33592	Communication and energy wire and cable manufacturing ..	1	36	20	1 349	50 268	1 005	2 004	29 605	106 937	230 770	337 349	10 292
335929	Other communication and energy wire manufacturing ..	1	29	19	g	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing ..	1	45	20	g	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing .....	1	36	15	g	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device manufacturing .....	—	9	5	f	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing .....	'3	'87	'34	h	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	3	'83	'32	h	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	1	'991	'401	'83 808	'4 345 421	'48 264	'99 538	'1 898 036	'10 571 908	'7 920 735	'18 358 948	'516 997
3361	Motor vehicle manufacturing .....	8	26	10	f	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	9	21	7	e	D	D	D	D	D	D	D	D
336111	Automobile manufacturing ..	9	14	5	e	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing .....	5	5	3	e	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing .....	5	5	3	e	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing .....	—	111	54	i	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	—	111	54	i	D	D	D	D	D	D	D	D
336211	Motor vehicle body manufacturing .....	2	56	20	g	D	D	D	D	D	D	D	D
336212	Truck trailer manufacturing ..	1	8	6	e	D	D	D	D	D	D	D	D
336213	Motor home manufacturing ..	—	7	5	h	D	D	D	D	D	D	D	D
336214	Travel trailer and camper manufacturing .....	—	40	23	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	2	'469	'174	'23 060	'767 648	'18 156	'37 317	'509 263	'1 909 433	'2 080 683	'3 967 038	'153 501
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	3	112	32	h	D	D	D	D	D	D	D	D
336311	Carburetor, piston, piston ring, and valve manufacturing .....	2	25	10	f	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	3	87	22	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	2	62	23	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	2	53	21	g	D	D	D	D	D	D	D	D
33633	Motor vehicle steering and suspension component (except spring) manufacturing .....	5	18	7	e	D	D	D	D	D	D	D	1 042
336330	Motor vehicle steering and suspension component (except spring) manufacturing .....	5	18	7	e	D	D	D	D	D	D	D	1 042
33634	Motor vehicle brake system manufacturing .....	—	13	6	e	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system manufacturing .....	—	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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>													
336	Transportation equipment manufacturing—Con.												
3363	Motor vehicle parts manufacturing—Con.												
33635	Motor vehicle transmission and power train parts manufacturing . . . . .	2	42	8	g	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing . . . . .	2	42	8	g	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing . . . . .	—	35	12	g	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing . . . . .	—	35	12	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping . . . . .	3	27	12	g	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping . . . . .	3	27	12	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing . . . . .	2	'160	'74	'11 599	'388 698	'9 378	'19 959	'270 349	'1 065 217	'1 161 824	'2 219 617	'80 351
336399	All other motor vehicle parts manufacturing . . . . .	2	'156	'74	j	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing . . . . .	—	212	113	46 866	3 120 878	19 065	40 003	1 080 804	7 632 003	4 243 195	11 794 683	326 738
33641	Aerospace product and parts manufacturing . . . . .	—	212	113	46 866	3 120 878	19 065	40 003	1 080 804	7 632 003	4 243 195	11 794 683	326 738
336411	Aircraft manufacturing . . . . .	—	22	11	j	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing . . . . .	—	28	11	g	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing . . . . .	—	143	79	j	D	D	D	D	D	D	D	D
336414	Guided missile and space vehicle manufacturing . . . . .	—	3	2	i	D	D	D	D	D	D	D	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing . . . . .	—	3	3	h	D	D	D	D	D	D	D	D
336419	Other guided missile and space vehicle parts and auxiliary equipment manufacturing . . . . .	1	13	7	g	D	D	D	D	D	D	D	D
3366	Ship and boat building . . . . .	2	67	19	g	D	D	D	D	D	D	D	D
33661	Ship and boat building . . . . .	2	67	19	g	D	D	D	D	D	D	D	D
336611	Ship building and repairing . . . . .	4	28	4	e	D	D	D	D	D	D	D	D
336612	Boat building . . . . .	2	39	15	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing . . . . .	2	101	29	h	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing . . . . .	2	101	29	h	D	D	D	D	D	D	D	D
336991	Motorcycle, bicycle, and parts manufacturing . . . . .	2	67	22	g	D	D	D	D	D	D	D	7 569
336992	Military armored vehicle, tank, and tank component manufacturing . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
336999	All other transportation equipment manufacturing . . . . .	3	32	5	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing . . . . .	3	'1 652	'479	'47 981	'1 331 564	'37 874	'72 910	'886 518	'3 261 448	'2 453 085	'5 696 675	D
3371	Household and institutional furniture and kitchen cabinet manufacturing . . . . .	3	'1 218	'295	'32 187	'834 213	'26 371	'50 239	'591 078	'1 895 726	'1 449 885	'3 340 897	D
33711	Wood kitchen cabinet and countertop manufacturing . . . . .	5	'472	'65	'7 134	'208 714	'5 309	'10 057	'141 477	'480 978	'269 134	'749 108	D
337110	Wood kitchen cabinet and countertop manufacturing . . . . .	5	'472	'65	'7 134	'208 714	'5 309	'10 057	'141 477	'480 978	'269 134	'749 108	D
33712	Household and institutional furniture manufacturing . . . . .	3	'746	'230	'25 053	'625 499	'21 062	'40 182	'449 601	'1 414 748	'1 180 751	'2 591 789	'40 925
337121	Upholstered household furniture manufacturing . . . . .	2	226	80	i	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing . . . . .	3	'351	'85	i	D	D	D	D	D	D	D	'16 037
337124	Metal household furniture manufacturing . . . . .	2	54	31	3 512	89 227	2 806	5 420	63 498	237 894	164 503	402 150	D
337125	Household furniture (except wood and metal) manufacturing . . . . .	4	25	10	459	14 962	343	610	7 160	20 637	30 380	51 114	D
337127	Institutional furniture manufacturing . . . . .	3	65	21	2 416	80 025	1 704	3 420	45 239	178 770	105 847	282 359	5 694

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	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
337	Furniture and related product manufacturing—Con.												
3372	Office furniture (including fixtures) manufacturing .....	2	332	141	'10 902	'359 727	'8 200	'16 238	'219 057	'864 643	'596 727	'1 451 448	D
33721	Office furniture (including fixtures) manufacturing .....	2	332	141	'10 902	'359 727	'8 200	'16 238	'219 057	'864 643	'596 727	'1 451 448	D
337211	Wood office furniture manufacturing .....	3	51	27	1 829	46 522	1 534	3 041	32 305	88 474	57 122	145 667	D
337212	Custom architectural woodwork and millwork manufacturing .....	1	72	28	'2 031	'69 805	'1 393	'2 765	'43 064	'132 331	'93 227	'227 453	D
337214	Office furniture (except wood) manufacturing .....	2	42	16	g	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing .....	2	167	70	h	D	D	D	D	D	D	D	8 508
3379	Other furniture related product manufacturing .....	2	102	43	4 892	137 624	3 303	6 433	76 383	501 079	406 473	904 330	13 883
33791	Mattress manufacturing .....	1	61	27	2 197	70 316	1 704	3 377	44 725	273 976	242 421	513 045	7 266
337910	Mattress manufacturing .....	1	61	27	2 197	70 316	1 704	3 377	44 725	273 976	242 421	513 045	7 266
33792	Blind and shade manufacturing .....	3	41	16	2 695	67 308	1 599	3 056	31 658	227 103	164 052	391 285	6 617
337920	Blind and shade manufacturing .....	3	41	16	2 695	67 308	1 599	3 056	31 658	227 103	164 052	391 285	6 617
339	Miscellaneous manufacturing .....	2	'2 561	'565	'61 538	'2 179 831	'41 497	'80 358	'1 057 367	'6 924 544	'3 652 702	'10 602 696	'291 298
3391	Medical equipment and supplies manufacturing .....	2	'868	'176	'28 403	'1 185 074	'17 775	'35 964	'512 120	'4 302 043	'1 647 900	'5 966 660	'200 559
33911	Medical equipment and supplies manufacturing .....	2	'868	'176	'28 403	'1 185 074	'17 775	'35 964	'512 120	'4 302 043	'1 647 900	'5 966 660	'200 559
339111	Laboratory apparatus and furniture manufacturing .....	—	29	17	1 737	88 599	600	1 262	17 268	189 109	130 989	336 985	10 283
339112	Surgical and medical instrument manufacturing ..	2	108	41	8 091	298 549	5 413	10 354	142 121	856 824	370 449	1 225 270	94 175
339113	Surgical appliance and supplies manufacturing .....	3	136	61	9 876	446 055	5 991	13 096	163 507	2 106 841	604 466	2 718 559	58 223
339114	Dental equipment and supplies manufacturing .....	—	91	18	2 639	112 711	1 464	2 543	44 510	598 017	248 176	843 328	18 948
339115	Ophthalmic goods manufacturing .....	8	31	11	1 392	58 237	1 001	1 915	27 405	192 916	211 450	402 324	D
339116	Dental laboratories .....	2	'473	'28	'4 668	'180 923	'3 306	'6 794	'117 309	'358 336	'82 370	'440 194	D
3399	Other miscellaneous manufacturing .....	1	'1 693	'389	'33 135	'994 757	'23 722	'44 394	'545 247	'2 622 501	'2 004 802	'4 636 036	'90 739
33991	Jewelry and silverware manufacturing .....	2	371	60	4 558	125 535	3 269	5 626	64 675	350 010	427 735	780 011	8 472
339911	Jewelry (except costume) manufacturing .....	2	270	44	h	D	D	D	D	D	D	D	7 048
339914	Costume jewelry and novelty manufacturing .....	2	65	15	f	D	D	D	D	D	D	D	D
33992	Sporting and athletic goods manufacturing .....	1	'207	48	h	D	D	D	D	D	D	D	'9 995
339920	Sporting and athletic goods manufacturing .....	1	'207	48	h	D	D	D	D	D	D	D	'9 995
33993	Doll, toy, and game manufacturing .....	2	75	13	g	D	D	D	D	D	D	D	D
339932	Game, toy, and children's vehicle manufacturing .....	2	64	12	g	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) manufacturing .....	1	72	15	g	D	D	D	D	D	D	D	D
339941	Pen and mechanical pencil manufacturing .....	—	10	3	f	D	D	D	D	D	D	D	D
339942	Lead pencil and art good manufacturing .....	1	16	2	f	D	D	D	D	D	D	D	D
339943	Marking device manufacturing .....	3	36	4	e	D	D	D	D	D	D	D	D
339944	Carbon paper and inked ribbon manufacturing .....	3	10	6		378	9 510	251	5 523	19 656	20 831	41 140	995
33995	Sign manufacturing .....	2	328	63	4 533	162 856	3 063	6 023	87 374	324 499	182 520	508 890	12 620
339950	Sign manufacturing .....	2	328	63	4 533	162 856	3 063	6 023	87 374	324 499	182 520	508 890	12 620
33999	All other miscellaneous manufacturing .....	1	'640	'190	'16 485	'463 407	'12 214	'22 648	'270 780	'1 193 816	'804 847	'2 020 106	'41 907
339991	Gasket, packing, and sealing device manufacturing .....	1	56	27	h	D	D	D	D	D	D	D	6 643
339992	Musical instrument manufacturing .....	—	42	9	g	D	D	D	D	D	D	D	D
339993	Fastener, button, needle, and pin manufacturing .....	3	16	6	e	D	D	D	D	D	D	D	D
339994	Broom, brush, and mop manufacturing .....	1	22	11	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing .....	'2	'500	'137	'10 737	'288 398	'7 939	'14 595	'160 653	'677 390	'571 022	'1 258 796	'26 134

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>													
<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>													
314	Textile product mills .....	2	'453	'136	'12 601	'329 407	'9 984	'20 191	'215 275	'809 680	'1 036 260	'1 831 558	'24 093
3141	Textile furnishings mills .....	1	'198	'62	'7 955	'211 101	'6 380	'13 101	'140 400	'564 716	'827 312	'1 377 163	'16 469
31411	Carpet and rug mills .....	1	19	10	3 189	101 035	2 529	5 627	69 676	285 264	473 014	745 717	10 981
314110	Carpet and rug mills .....	1	19	10	3 189	101 035	2 529	5 627	69 676	285 264	473 014	745 717	10 981
31412	Curtain and linen mills .....	1	'179	'52	'4 766	'110 066	'3 851	'7 474	'70 724	'279 452	'354 298	'631 446	'5 488
314121	Curtain and drapery mills....	4	101	12	960	21 886	759	1 447	12 088	40 865	30 589	71 431	688
314129	Other household textile product mills.....	1	'78	'40	'3 806	'88 180	'3 092	'6 027	'58 636	'238 587	'323 709	'560 015	'4 800
3149	Other textile product mills .....	4	255	74	4 646	118 306	3 604	7 090	74 875	244 964	208 948	454 395	7 624
31491	Textile bag and canvas mills ...	4	78	24	1 505	41 092	1 115	2 229	23 071	70 174	62 666	131 694	1 689
314911	Textile bag mills.....	3	11	5	364	8 065	307	691	5 342	9 980	11 922	22 064	179
314912	Canvas and related product mills .....	4	67	19	1 141	33 027	808	1 538	17 729	60 194	50 744	109 630	1 510
31499	All other textile product mills ...	4	177	50	3 141	77 214	2 489	4 861	51 804	174 790	146 282	322 701	5 935
314999	All other miscellaneous textile product mills.....	4	172	47	2 982	71 685	2 377	4 604	47 946	163 599	134 594	299 446	5 768
315	Apparel manufacturing .....	2	4 068	863	80 838	1 762 823	64 788	114 754	1 077 394	'4 212 964	4 791 540	'8 969 350	D
3151	Apparel knitting mills.....	3	72	28	2 111	53 343	1 758	3 354	37 013	137 016	152 812	281 710	D
31519	Other apparel knitting mills ....	3	58	24	g	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills .....	3	55	23	g	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing .....	2	3 837	801	74 870	1 609 982	59 952	105 863	981 460	'3 898 930	4 349 649	'8 236 118	D
31521	Cut and sew apparel contractors .....	5	'2 938	482	'38 888	'578 122	'35 591	'60 631	'477 767	'977 289	'285 349	'1 254 820	16 720
315211	Men's and boys' cut and sew apparel contractors .....	4	263	83	i	D	D	D	D	D	D	D	5 153
315212	Women's, girls', and infants' cut and sew apparel contractors .....	5	'2 675	399	k	D	D	D	D	D	D	D	11 567
31522	Men's and boys' cut and sew apparel manufacturing .....	1	126	47	6 080	126 673	5 159	8 311	95 713	308 436	354 390	657 224	D
315223	Men's and boys' cut and sew shirt (except work shirt) manufacturing .....	1	40	21	g	D	D	D	D	D	D	D	D
315224	Men's and boys' cut and sew trouser, slack, and jean manufacturing .....	1	14	7	g	D	D	D	D	D	D	D	D
315225	Men's and boys' cut and sew work clothing manufacturing .....	1	12	7	e	D	D	D	D	D	D	D	D
315228	Men's and boys' cut and sew other outerwear manufacturing .....	5	39	10	g	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing .....	2	'669	242	'27 792	'854 261	'17 721	'34 118	'380 247	'2 518 355	'3 643 041	'6 161 595	53 553
315231	Women's and girls' cut and sew lingerie, loungewear, and nightwear manufacturing .....	1	28	16	2 670	65 629	1 165	2 475	24 309	147 388	163 803	318 647	D
315232	Women's and girls' cut and sew blouse and shirt manufacturing .....	1	164	72	8 713	303 555	5 613	10 580	122 165	1 020 579	1 554 548	2 579 984	D
315233	Women's and girls' cut and sew dress manufacturing...	2	'151	59	'6 224	'200 520	'4 441	'8 663	'106 245	'515 590	'838 487	'1 336 794	D
315234	Women's and girls' cut and sew suit, coat, tailored jacket, and skirt manufacturing .....	6	34	5	418	11 852	325	531	4 818	27 369	21 025	48 686	D
315239	Women's and girls' cut and sew other outerwear manufacturing .....	2	292	90	9 767	272 705	6 177	11 869	122 710	807 429	1 065 178	1 877 484	17 022
31529	Other cut and sew apparel manufacturing .....	4	104	30	2 110	50 926	1 481	2 803	27 733	94 850	66 869	162 479	D
315292	Fur and leather apparel manufacturing .....	2	24	6	e	D	D	D	D	D	D	D	D
315299	All other cut and sew apparel manufacturing .....	5	73	21	1 479	33 922	1 030	1 994	19 325	51 958	38 869	92 012	D
3159	Apparel accessories and other apparel manufacturing .....	2	159	34	3 857	99 498	3 078	5 537	58 921	177 018	289 079	451 522	D
31599	Apparel accessories and other apparel manufacturing .....	2	159	34	3 857	99 498	3 078	5 537	58 921	177 018	289 079	451 522	D
315991	Hat, cap, and millinery manufacturing .....	3	12	4	e	D	D	D	D	D	D	D	D
315993	Men's and boys' neckwear manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
315999	Other apparel accessories and other apparel manufacturing .....	2	138	25	2 685	68 980	2 067	3 744	40 606	121 571	236 007	343 925	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>													
<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>													
316	Leather and allied product manufacturing .....	3	'127	'39	h	D	D	D	D	D	D	D	D
3162	Footwear manufacturing .....	4	47	16	1 312	29 185	1 095	2 153	18 580	63 467	47 149	115 172	1 681
31621	Footwear manufacturing .....	4	47	16	1 312	29 185	1 095	2 153	18 580	63 467	47 149	115 172	1 681
316214	Women's footwear (except athletic) manufacturing .....	3	23	8	779	15 943	646	1 325	10 803	28 204	16 661	49 860	D
316219	Other footwear manufacturing .....	2	11	3	e	D	D	D	D	D	D	D	D
3169	Other leather and allied product manufacturing .....	'3	'66	'22	'1 941	'47 585	1 533	2 816	26 183	'124 825	'98 762	'222 445	'5 420
31699	Other leather and allied product manufacturing .....	'3	'66	'22	'1 941	'47 585	1 533	2 816	26 183	'124 825	'98 762	'222 445	'5 420
316991	Luggage manufacturing .....	'4	'19	'10	'741	'20 140	563	1 077	9 208	'51 915	'44 814	'98 021	D
316992	Women's handbag and purse manufacturing .....	3	10	2	580	11 614	498	820	8 382	23 953	18 128	42 224	D
316999	All other leather goods manufacturing .....	1	21	7	406	11 263	290	558	5 155	41 624	30 869	69 242	D
321	Wood product manufacturing .....	'3	'427	'113	'9 057	'221 052	'6 712	'13 154	'142 704	'444 735	'499 721	'939 926	'19 772
3212	Veneer, plywood, and engineered wood product manufacturing .....	4	'36	'14	'865	'23 571	'740	'1 464	'17 162	'50 381	'87 983	'138 723	1 804
32121	Veneer, plywood, and engineered wood product manufacturing .....	4	'36	'14	'865	'23 571	'740	'1 464	'17 162	'50 381	'87 983	'138 723	1 804
321211	Hardwood veneer and plywood manufacturing .....	3	14	7	473	13 003	429	867	10 221	24 934	39 597	64 592	1 200
3219	Other wood product manufacturing .....	'3	'375	'97	'8 033	'192 862	'5 838	'11 428	'122 058	'385 080	'395 326	'775 892	'16 433
32191	Millwork .....	4	'174	'44	'3 996	'103 736	'2 917	'5 709	'63 837	'190 524	'204 846	'396 216	'7 727
321911	Wood window and door manufacturing .....	4	66	20	1 878	51 088	1 286	2 437	28 546	91 483	100 017	191 801	3 832
321912	Cut stock, resawing lumber, and planing .....	3	23	5	359	9 826	307	641	7 626	17 495	16 406	33 960	353
321918	Other millwork (including flooring) .....	5	'85	'19	'1 759	'42 822	'1 324	'2 631	'27 665	'81 546	'88 423	'170 455	'3 542
32192	Wood container and pallet manufacturing .....	3	98	30	1 836	39 641	1 527	2 896	28 082	82 624	84 006	163 434	3 641
321920	Wood container and pallet manufacturing .....	3	98	30	1 836	39 641	1 527	2 896	28 082	82 624	84 006	163 434	3 641
32199	All other wood product manufacturing .....	2	103	23	2 201	49 485	1 394	2 823	30 139	111 932	106 474	216 242	5 065
321999	All other miscellaneous wood product manufacturing .....	2	80	21	2 027	44 125	1 258	2 561	26 690	100 965	94 792	193 728	4 743
322	Paper manufacturing .....	2	282	158	15 098	637 402	11 216	23 518	411 190	1 587 241	2 353 322	4 030 246	135 425
3221	Pulp, paper, and paperboard mills .....	5	12	10	1 289	76 231	1 018	1 991	57 188	341 438	247 600	589 629	43 161
32212	Paper mills .....	7	7	5	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	9	6	4	f	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	-	5	5	e	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	-	5	5	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	1	270	148	13 809	561 171	10 198	21 527	354 002	1 245 803	2 105 722	3 440 617	92 264
32221	Paperboard container manufacturing .....	-	124	88	8 930	390 406	6 651	14 318	248 039	846 884	1 516 690	2 445 399	72 484
322211	Corrugated and solid fiber box manufacturing .....	-	81	57	6 208	278 600	4 532	9 786	172 491	582 145	1 197 663	1 864 848	53 398
322212	Folding paperboard box manufacturing .....	1	26	18	1 930	84 755	1 544	3 324	58 932	204 029	236 585	438 406	17 310
322213	Setup paperboard box manufacturing .....	4	5	5	301	9 371	237	471	5 623	15 972	30 250	46 692	D
322214	Fiber can, tube, drum, and similar products manufacturing .....	-	8	6	380	13 965	255	567	8 455	34 606	39 960	74 414	669
32222	Paper bag and coated and treated paper manufacturing .....	2	53	26	1 938	70 730	1 445	2 934	42 967	168 431	262 644	433 049	10 165
322221	Coated and laminated packaging paper and plastics film manufacturing .....	2	10	4	e	D	D	D	D	D	D	D	D
322222	Coated and laminated paper manufacturing .....	3	33	15	926	34 814	637	1 173	18 381	91 222	112 514	204 150	6 393
322224	Uncoated paper and multiwall bag manufacturing .....	-	6	5	468	16 405	396	871	11 815	31 344	50 977	81 659	D
32223	Stationery product manufacturing .....	-	47	19	1 899	60 202	1 352	2 753	40 465	129 717	201 419	335 422	3 993
322231	Die-cut paper and paperboard office supplies manufacturing .....	1	16	7	771	19 278	488	986	13 243	26 175	54 128	83 109	D
322232	Envelope manufacturing .....	-	21	9	859	30 351	658	1 367	21 051	57 563	90 629	147 863	D
322233	Stationery, tablet, and related product manufacturing .....	-	10	3	269	10 573	206	400	6 171	45 979	56 662	104 450	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	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
325	Chemical manufacturing—Con.												
3254	Pharmaceutical and medicine manufacturing .....	—	117	60	15 565	659 436	8 785	16 109	267 670	2 626 255	1 403 211	4 081 675	270 490
32541	Pharmaceutical and medicine manufacturing .....	—	117	60	15 565	659 436	8 785	16 109	267 670	2 626 255	1 403 211	4 081 675	270 490
325411	Medicinal and botanical manufacturing .....	—	25	10	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	—	69	37	10 425	380 920	6 187	10 588	168 717	1 916 023	785 856	2 758 688	197 643
325413	In-vitro diagnostic substance manufacturing .....	—	17	9	1 760	96 941	753	1 630	30 100	349 295	69 675	411 948	14 507
325414	Biological product (except diagnostic) manufacturing ..	4	6	4	g	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing .....	1	123	49	3 686	167 442	2 066	4 173	71 267	912 498	669 540	1 580 615	19 562
32551	Paint and coating manufacturing .....	1	87	35	2 674	119 431	1 474	2 955	49 936	766 887	570 240	1 335 748	14 934
325510	Paint and coating manufacturing .....	1	87	35	2 674	119 431	1 474	2 955	49 936	766 887	570 240	1 335 748	14 934
32552	Adhesive manufacturing .....	2	36	14	1 012	48 011	592	1 218	21 331	145 611	99 300	244 867	4 628
325520	Adhesive manufacturing .....	2	36	14	1 012	48 011	592	1 218	21 331	145 611	99 300	244 867	4 628
3256	Soap, cleaning compound, and toilet preparation manufacturing .	1	'204	'67	'8 825	'364 009	'5 042	'10 308	'136 136	'1 752 077	'1 081 246	'2 848 105	'64 184
32561	Soap and cleaning compound manufacturing .....	4	86	21	1 415	54 126	867	1 852	29 507	250 896	227 431	489 400	11 961
325611	Soap and other detergent manufacturing .....	4	39	9	692	30 261	415	865	14 858	131 619	122 232	253 811	7 579
325612	Polish and other sanitation good manufacturing .....	2	40	10	575	18 366	408	886	11 711	97 922	59 611	169 372	D
32562	Toilet preparation manufacturing .....	1	'118	'46	'7 410	'309 883	'4 175	'8 456	'106 629	'1 501 181	'853 815	'2 358 705	'52 223
325620	Toilet preparation manufacturing .....	1	'118	'46	'7 410	'309 883	'4 175	'8 456	'106 629	'1 501 181	'853 815	'2 358 705	'52 223
3259	Other chemical product and preparation manufacturing .....	2	156	60	5 089	201 726	3 261	6 291	98 141	586 233	669 944	1 254 706	42 850
32591	Printing ink manufacturing .....	2	32	18	f	D	D	D	D	D	D	D	D
325910	Printing ink manufacturing ..	2	32	18	f	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing ...	2	123	41	4 255	160 196	2 847	5 420	81 352	490 586	557 230	1 046 549	38 751
325991	Custom compounding of purchased resins .....	2	35	13	897	37 702	585	1 183	20 125	107 776	161 323	269 698	10 981
325992	Photographic film, paper, plate, and chemical manufacturing .....	—	34	13	2 152	70 397	1 522	2 740	33 562	142 785	206 978	347 319	19 617
325998	All other miscellaneous chemical product and preparation manufacturing .	3	54	15	1 206	52 097	740	1 497	27 665	240 025	188 929	429 532	8 153
326	Plastics and rubber products manufacturing .....	1	'819	'394	'41 083	'1 276 870	'31 242	'62 632	'780 045	'3 373 980	'2 811 244	'6 189 404	'220 459
3261	Plastics product manufacturing ..	1	'696	'342	'35 746	'1 117 583	'27 205	'54 714	'683 161	'3 029 297	'2 518 635	'5 549 655	'196 948
32611	Plastics packaging materials and un laminated film and sheet manufacturing .....	1	89	49	4 351	147 313	3 326	6 797	86 360	414 806	505 036	925 598	29 024
326111	Plastics bag manufacturing ..	1	38	20	2 221	64 633	1 793	3 737	38 387	205 262	200 290	404 598	11 850
326112	Plastics packaging film and sheet (including laminated) manufacturing .....	1	15	11	779	30 133	557	1 165	17 650	75 732	109 629	191 030	7 398
326113	Un laminated plastics film and sheet (except packaging) manufacturing .....	1	36	18	1 351	52 547	976	1 895	30 323	133 812	195 117	329 970	9 776
32612	Plastics pipe, pipe fitting, and un laminated profile shape manufacturing .....	1	55	25	1 903	64 197	1 601	3 344	46 190	163 145	148 653	307 989	9 789
326121	Un laminated plastics profile shape manufacturing .....	1	36	16	1 256	44 711	1 055	2 183	32 942	102 465	84 356	184 309	6 354
326122	Plastics pipe and pipe fitting manufacturing .....	1	19	9	647	19 486	546	1 161	13 248	60 680	64 297	123 680	3 435
32613	Laminated plastics plate, sheet, (except packaging), and shape manufacturing .....	—	13	3	259	10 750	211	482	8 053	22 136	27 533	51 992	1 974
326130	Laminated plastics plate, sheet, (except packaging), and shape manufacturing ..	—	13	3	259	10 750	211	482	8 053	22 136	27 533	51 992	1 974
32614	Polystyrene foam product manufacturing .....	1	38	17	1 539	45 583	1 234	2 505	32 581	138 500	179 668	320 081	8 986
326140	Polystyrene foam product manufacturing .....	1	38	17	1 539	45 583	1 234	2 505	32 581	138 500	179 668	320 081	8 986
32615	Urethane and other foam product (except polystyrene) manufacturing .....	2	39	21	1 643	46 420	1 273	2 546	30 347	104 389	116 895	220 978	8 955
326150	Urethane and other foam product (except polystyrene) manufacturing .....	2	39	21	1 643	46 420	1 273	2 546	30 347	104 389	116 895	220 978	8 955

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	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
326	Plastics and rubber products manufacturing—Con.												
3261	Plastics product manufacturing—Con.												
32616	Plastics bottle manufacturing ..	—	27	16	1 832	56 717	1 392	3 073	41 472	164 508	144 472	308 025	18 639
326160	Plastics bottle manufacturing .....	—	27	16	1 832	56 717	1 392	3 073	41 472	164 508	144 472	308 025	18 639
32619	Other plastics product manufacturing .....	1	'435	'211	'24 219	'746 603	'18 168	'35 967	'438 158	'2 021 813	'1 396 378	'3 414 992	'119 581
326191	Plastics plumbing fixture manufacturing .....	2	'22	'13	h	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	1	'410	'197	j	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	2	'123	'52	'5 337	'159 287	'4 037	'7 918	'96 884	'344 683	'292 609	'639 749	'23 511
32622	Rubber and plastics hoses and belting manufacturing .....	—	12	5	458	14 981	351	653	8 773	34 951	40 225	77 140	6 819
326220	Rubber and plastics hoses and belting manufacturing ..	—	12	5	458	14 981	351	653	8 773	34 951	40 225	77 140	6 819
32629	Other rubber product manufacturing .....	3	94	43	4 667	137 462	3 526	6 935	83 507	292 226	227 000	519 476	16 000
326291	Rubber product manufacturing for mechanical use .....	2	35	17	2 144	61 686	1 558	2 922	36 371	129 036	66 388	194 914	7 890
326299	All other rubber product manufacturing .....	3	59	26	2 523	75 776	1 968	4 013	47 136	163 190	160 612	324 562	8 110
327	Nonmetallic mineral product manufacturing .....	3	486	163	12 398	435 850	9 605	19 613	301 435	1 075 809	1 067 286	2 137 774	63 772
3271	Clay product and refractory manufacturing .....	4	79	24	1 788	52 799	1 302	2 550	31 038	119 518	51 973	169 758	D
32711	Pottery, ceramics, and plumbing fixture manufacturing .....	5	49	16	1 230	35 323	897	1 809	20 151	71 334	33 793	104 668	3 072
327112	Vitreous china, fine earthenware, and other pottery product manufacturing .....	5	44	14	1 168	33 863	844	1 724	19 226	68 438	32 663	100 651	3 019
32712	Clay building material and refractories manufacturing .....	2	30	8	558	17 476	405	741	10 887	48 184	18 180	65 090	D
3272	Glass and glass product manufacturing .....	2	130	36	3 746	123 493	3 003	5 952	86 614	350 341	234 416	583 191	21 164
32721	Glass and glass product manufacturing .....	2	130	36	3 746	123 493	3 003	5 952	86 614	350 341	234 416	583 191	21 164
327212	Other pressed and blown glass and glassware manufacturing .....	1	36	6	614	21 835	471	959	14 440	63 668	27 056	92 951	D
327213	Glass container manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	4	88	26	2 402	66 417	1 904	3 663	43 636	163 287	121 694	282 283	11 298
3273	Cement and concrete product manufacturing .....	3	130	63	4 132	160 269	3 280	6 931	119 484	361 349	499 468	859 854	25 894
32732	Ready-mix concrete manufacturing .....	2	86	42	2 725	108 470	2 231	4 740	85 159	253 636	437 724	691 330	19 763
327320	Ready-mix concrete manufacturing .....	2	86	42	2 725	108 470	2 231	4 740	85 159	253 636	437 724	691 330	19 763
32733	Concrete pipe, brick, and block manufacturing .....	5	12	8	542	21 918	380	851	14 167	42 197	29 359	71 601	D
327331	Concrete block and brick manufacturing .....	5	11	8	f	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing .....	4	29	13	852	29 154	658	1 315	19 591	62 627	30 156	91 731	3 184
327390	Other concrete product manufacturing .....	4	29	13	852	29 154	658	1 315	19 591	62 627	30 156	91 731	3 184
3274	Lime and gypsum product manufacturing .....	2	30	11	822	33 205	669	1 421	24 187	70 453	133 091	203 409	D
32742	Gypsum product manufacturing .....	2	29	11	f	D	D	D	D	D	D	D	D
327420	Gypsum product manufacturing .....	2	29	11	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing .....	3	117	29	1 910	66 084	1 351	2 759	40 112	174 148	148 338	321 562	8 942
32791	Abrasive product manufacturing .....	3	23	8	499	17 717	377	830	11 290	43 801	30 142	72 906	2 782
327910	Abrasive product manufacturing .....	3	23	8	499	17 717	377	830	11 290	43 801	30 142	72 906	2 782

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	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
327	Nonmetallic mineral product manufacturing—Con.												
3279	Other nonmetallic mineral product manufacturing—Con.												
32799	All other nonmetallic mineral product manufacturing .....	4	94	21	1 411	48 367	974	1 929	28 822	130 347	118 196	248 656	6 160
327991	Cut stone and stone product manufacturing .....	4	49	8	515	14 689	397	685	11 070	27 469	11 315	38 163	1 036
327999	All other miscellaneous nonmetallic mineral product manufacturing .....	5	28	8	565	19 704	369	818	11 255	53 124	72 807	126 019	D
331	Primary metal manufacturing .....	1	264	128	12 268	438 644	9 725	20 158	289 979	1 144 972	1 365 948	2 511 377	59 339
3312	Steel product manufacturing from purchased steel .....	1	37	20	2 184	89 959	1 767	3 594	63 016	299 636	360 591	649 441	D
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	—	7	5	632	27 866	489	1 039	18 441	104 383	117 946	216 292	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	—	7	5	632	27 866	489	1 039	18 441	104 383	117 946	216 292	D
33122	Rolling and drawing of purchased steel .....	1	30	15	1 552	62 093	1 278	2 555	44 575	195 253	242 645	433 149	D
331222	Steel wire drawing .....	1	24	14	g	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing .....	—	30	18	2 641	88 753	2 056	4 286	57 096	196 854	427 260	626 172	16 979
33131	Alumina and aluminum production and processing ...	—	30	18	2 641	88 753	2 056	4 286	57 096	196 854	427 260	626 172	16 979
331315	Aluminum sheet, plate, and foil manufacturing .....	1	5	4	352	12 898	285	622	8 834	55 578	91 323	145 380	1 541
331316	Aluminum extruded product manufacturing .....	—	13	10	1 364	49 336	1 063	2 319	31 208	79 006	183 750	267 080	7 468
331319	Other aluminum rolling and drawing .....	—	7	2	818	21 557	624	1 168	13 763	55 250	108 883	163 433	D
3314	Nonferrous metal (except aluminum) production and processing .....	1	144	114	11 501	65 984	998	2 152	35 059	182 694	279 034	463 806	D
33141	Nonferrous metal (except aluminum) smelting and refining .....	—	10	6	511	25 335	308	666	9 714	54 458	121 291	177 170	D
331419	Primary smelting and refining of nonferrous metal (except copper and aluminum) .....	—	10	6	511	25 335	308	666	9 714	54 458	121 291	177 170	D
33142	Copper rolling, drawing, extruding, and alloying .....	1	13	3	378	13 453	286	615	9 220	25 811	48 864	75 999	D
331422	Copper wire (except mechanical) drawing .....	1	7	2	e	D	D	D	D	D	D	D	D
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying .....	2	21	5	612	27 196	404	871	16 125	102 425	108 879	210 637	D
331492	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum) .....	2	10	4	511	20 095	347	753	14 014	83 863	88 232	171 309	D
3315	Foundries .....	1	145	72	5 702	182 044	4 712	9 741	125 393	415 359	222 991	638 985	D
33151	Ferrous metal foundries .....	—	39	23	2 133	62 954	1 775	3 504	42 184	159 037	76 045	235 209	D
331511	Iron foundries .....	—	21	10	911	26 000	788	1 556	18 278	48 562	32 122	81 006	D
331512	Steel investment foundries ..	—	8	7	892	25 531	720	1 349	16 007	89 882	27 031	116 703	D
331513	Steel foundries (except investment) .....	1	10	6	330	11 423	267	599	7 899	20 593	16 892	37 500	D
33152	Nonferrous metal foundries ...	2	106	49	3 569	119 090	2 937	6 237	83 209	256 322	146 946	403 776	8 456
331521	Aluminum die-casting foundries .....	2	30	16	1 032	33 937	864	1 875	25 768	85 201	47 452	133 098	3 620
331522	Nonferrous (except aluminum) die-casting foundries .....	—	14	6	543	20 950	445	996	14 507	51 233	17 980	68 580	D
331524	Aluminum foundries (except die-casting) .....	2	43	16	1 282	41 687	1 056	2 276	28 332	73 113	42 660	114 669	3 169
331525	Copper foundries (except die-casting) .....	2	12	7	341	9 996	280	557	6 925	27 498	13 893	41 226	D
331528	Other nonferrous foundries (except die-casting) .....	2	7	4	371	12 520	292	533	7 677	19 277	24 961	46 203	D
332	Fabricated metal product manufacturing .....	2	3 734	992	81 832	3 045 325	60 364	120 890	1 866 700	6 814 336	4 104 040	10 931 188	314 925

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
332	Fabricated metal product manufacturing—Con.												
3328	Coating, engraving, heat treating, and allied activities .....	2	593	209	13 350	405 704	10 639	20 969	271 145	780 439	326 277	1 110 967	38 537
33281	Coating, engraving, heat treating, and allied activities ..	2	593	209	13 350	405 704	10 639	20 969	271 145	780 439	326 277	1 110 967	38 537
332811	Metal heat treating .....	1	54	29	1 502	53 544	1 160	2 473	35 430	118 897	24 889	143 895	5 332
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	2	181	60	3 144	105 658	2 432	4 602	66 501	214 265	120 496	336 126	8 684
332813	Electroplating, plating, polishing, anodizing, and coloring .....	2	358	120	8 704	246 502	7 047	13 894	169 214	447 277	180 892	630 946	24 521
3329	Other fabricated metal product manufacturing .....	1	'399	124	'13 260	'548 784	'8 990	'16 810	'295 345	'1 321 784	'788 159	'2 123 365	'47 425
33291	Metal valve manufacturing ....	—	96	48	7 070	329 459	4 450	8 344	162 708	786 365	421 779	1 221 360	28 438
332911	Industrial valve manufacturing .....	—	28	12	1 799	97 264	987	1 698	39 628	278 090	146 298	426 308	12 068
332912	Fluid power valve and hose fitting manufacturing .....	—	41	22	3 671	174 226	2 354	4 519	92 348	387 445	170 431	564 282	13 118
332913	Plumbing fixture fitting and trim manufacturing .....	1	19	13	1 556	56 193	1 076	2 056	29 810	116 502	103 225	224 613	3 183
33299	All other fabricated metal product manufacturing .....	2	'303	76	'6 190	'219 325	'4 540	'8 466	'132 637	'535 419	'366 380	'902 005	'18 987
332991	Ball and roller bearing manufacturing .....	4	9	4	724	28 152	575	1 136	19 731	75 820	24 400	100 407	2 744
332996	Fabricated pipe and pipe fitting manufacturing .....	2	48	13	736	25 718	547	1 095	14 659	51 208	34 720	86 079	1 620
332998	ENAMELED IRON AND METAL SANITARY WARE MANUFACTURING .....	—	13	6	1 367	46 203	1 017	1 662	25 583	142 963	100 635	243 874	2 325
332999	All other miscellaneous fabricated metal product manufacturing .....	2	'194	50	'3 094	'108 899	'2 227	'4 231	'66 202	'240 102	'193 308	'433 029	'11 207
333	Machinery manufacturing .....	2	1 230	'341	'33 607	'1 380 673	'21 320	'40 951	'695 504	'3 012 881	'2 370 764	'5 402 787	'178 692
3331	Agriculture, construction, and mining machinery manufacturing .....	1	43	12	1 380	52 345	758	1 565	25 514	68 614	89 516	156 489	4 285
33311	Agricultural implement manufacturing .....	1	10	3	569	16 102	396	775	9 778	17 071	28 354	45 768	1 022
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing ..	—	3	2	e	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing .....	4	19	5	304	13 339	206	442	8 631	17 971	23 677	41 350	954
333120	Construction machinery manufacturing .....	4	19	5	304	13 339	206	442	8 631	17 971	23 677	41 350	954
33313	Mining and oil and gas field machinery manufacturing ....	—	14	4	507	22 904	156	348	7 105	33 572	37 485	69 371	2 309
333132	Oil and gas field machinery and equipment manufacturing .....	—	13	4	e	D	D	D	D	D	D	D	D
3332	Industrial machinery manufacturing .....	3	194	46	4 221	185 313	2 411	4 856	80 893	351 878	248 134	612 893	13 759
33329	Other industrial machinery manufacturing .....	3	151	42	3 901	172 340	2 205	4 470	75 212	317 862	227 561	558 164	11 831
333293	Printing machinery and equipment manufacturing ..	7	14	5	386	14 746	234	493	6 780	32 497	22 268	55 502	1 056
333294	Food product machinery manufacturing .....	4	27	11	805	29 948	535	1 118	17 173	54 542	38 888	93 345	1 292
333295	Semiconductor machinery manufacturing .....	2	18	8	797	35 472	458	909	16 150	58 322	49 380	107 174	1 748
333298	All other industrial machinery manufacturing .....	3	70	18	1 805	89 199	909	1 848	33 626	164 921	111 153	288 703	6 787
3333	Commercial and service industry machinery manufacturing .....	1	202	72	7 288	300 746	4 485	8 563	147 761	715 645	726 286	1 449 457	66 726
33331	Commercial and service industry machinery manufacturing .....	1	202	72	7 288	300 746	4 485	8 563	147 761	715 645	726 286	1 449 457	66 726
333314	Optical instrument and lens manufacturing .....	—	44	20	1 281	57 192	853	1 759	33 846	107 390	103 893	212 513	5 543
333315	Photographic and photocopying equipment manufacturing .....	—	43	13	3 063	130 895	1 717	3 096	60 838	282 369	358 698	647 126	49 447
333319	Other commercial and service industry machinery manufacturing .....	2	98	36	2 752	106 450	1 776	3 439	50 396	314 183	255 879	571 492	9 396

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
333	Machinery manufacturing—Con.												
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	79	38	3 396	123 012	2 610	4 906	76 244	279 529	209 376	491 825	9 607
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	79	38	3 396	123 012	2 610	4 906	76 244	279 529	209 376	491 825	9 607
333411	Air purification equipment manufacturing .....	1	15	6	291	11 172	205	400	6 499	22 051	14 234	36 061	318
333414	Heating equipment (except warm air furnaces) manufacturing .....	—	18	8	954	32 158	745	1 659	19 594	63 078	66 567	131 019	2 324
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	43	21	1 923	70 508	1 473	2 473	43 508	174 461	120 131	296 613	5 771
3335	Metalworking machinery manufacturing .....	1	'387	'70	'6 188	'249 890	'4 480	'8 460	'155 075	'531 485	'272 672	'790 779	40 422
33351	Metalworking machinery manufacturing .....	1	'387	'70	'6 188	'249 890	'4 480	'8 460	'155 075	'531 485	'272 672	'790 779	40 422
333511	Industrial mold manufacturing .....	2	'111	'21	'1 723	'79 041	'1 331	'2 470	'55 461	'157 700	'54 075	'210 045	22 485
333512	Machine tool (metal cutting types) manufacturing .....	—	16	5	548	25 800	262	545	9 802	51 972	55 388	99 775	1 500
333514	Special die and tool, die set, jig, and fixture manufacturing .....	1	140	18	1 805	68 446	1 333	2 592	42 295	132 162	90 855	221 753	4 982
333515	Cutting tool and machine tool accessory manufacturing .....	2	102	20	1 787	62 433	1 395	2 512	41 997	168 610	50 264	216 230	10 838
3336	Engine, turbine, and power transmission equipment manufacturing .....	5	43	16	1 671	73 330	1 098	2 225	36 603	180 344	111 161	294 939	11 672
33361	Engine, turbine, and power transmission equipment manufacturing .....	5	43	16	1 671	73 330	1 098	2 225	36 603	180 344	111 161	294 939	11 672
333611	Turbine and turbine generator set units manufacturing .....	7	3	3	e	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment manufacturing .....	2	14	4	e	D	D	D	D	D	D	D	D
333618	Other engine equipment manufacturing .....	5	18	6	801	30 983	599	1 178	17 548	77 625	65 965	141 827	5 868
3339	Other general purpose machinery manufacturing .....	1	'282	87	'9 463	'396 037	'5 478	'10 376	'173 414	'885 386	'713 619	'1 606 405	'32 221
33391	Pump and compressor manufacturing .....	1	45	15	1 913	66 281	1 185	2 238	26 031	216 549	184 797	400 843	12 592
333911	Pump and pumping equipment manufacturing ..	1	27	11	g	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	1	51	17	1 736	64 381	939	1 918	27 363	149 565	155 557	302 619	3 863
333922	Conveyor and conveying equipment manufacturing ..	1	21	7	791	31 411	403	826	13 643	74 904	83 163	155 716	1 634
333924	Industrial truck, tractor, trailer, and stacker machinery manufacturing ..	1	14	4	686	22 035	364	761	8 093	53 709	46 664	99 585	1 344
33399	All other general purpose machinery manufacturing ....	1	'186	55	'5 814	'265 375	'3 354	'6 220	'120 020	'519 272	'373 265	'902 943	'15 766
333992	Welding and soldering equipment manufacturing ..	—	12	5	561	28 558	273	460	9 144	59 973	36 492	98 482	689
333993	Packaging machinery manufacturing .....	—	33	9	1 050	48 806	563	1 221	23 394	91 889	46 385	141 846	3 092
333994	Industrial process furnace and oven manufacturing ...	5	17	4	273	10 626	179	326	5 181	19 066	15 144	35 788	497
333995	Fluid power cylinder and actuator manufacturing ....	1	21	7	1 473	72 177	861	1 533	33 060	128 259	119 225	244 053	3 897
333996	Fluid power pump and motor manufacturing .....	—	8	4	527	25 135	312	528	11 484	63 157	36 939	103 489	1 550
333999	All other miscellaneous general purpose machinery manufacturing .....	3	'85	22	'1 692	'70 419	'1 003	'1 854	'32 100	'135 601	'111 814	'251 352	'5 695
334	Computer and electronic product manufacturing .....	—	'1 391	581	'97 944	'5 235 951	'43 310	'83 275	'1 470 820	'14 593 127	'11 389 468	'25 189 008	'1 132 292

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
334	Computer and electronic product manufacturing—Con.												
3341	Computer and peripheral equipment manufacturing .....	—	145	47	5 997	328 362	2 093	3 819	63 336	950 032	2 484 044	3 444 335	157 999
33411	Computer and peripheral equipment manufacturing ....	—	145	47	5 997	328 362	2 093	3 819	63 336	950 032	2 484 044	3 444 335	157 999
334111	Electronic computer manufacturing .....	—	43	9	g	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing .....	1	27	12	1 446	94 997	351	754	15 861	204 849	209 770	419 492	D
334119	Other computer peripheral equipment manufacturing ..	2	72	25	2 488	128 110	1 110	1 802	27 194	260 295	303 968	569 865	19 188
3342	Communications equipment manufacturing .....	—	161	70	24 206	1 523 835	5 032	9 703	185 250	4 310 950	3 631 868	6 941 586	394 033
33421	Telephone apparatus manufacturing .....	3	29	13	2 336	132 017	747	1 346	27 494	519 219	440 625	973 329	D
334210	Telephone apparatus manufacturing .....	3	29	13	2 336	132 017	747	1 346	27 494	519 219	440 625	973 329	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	94	40	20 151	1 311 808	3 602	6 950	136 601	3 595 332	3 017 249	5 601 941	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	94	40	20 151	1 311 808	3 602	6 950	136 601	3 595 332	3 017 249	5 601 941	D
33429	Other communications equipment manufacturing ....	3	38	17	1 719	80 010	683	1 407	21 155	196 399	173 994	366 316	D
334290	Other communications equipment manufacturing ..	3	38	17	1 719	80 010	683	1 407	21 155	196 399	173 994	366 316	D
3343	Audio and video equipment manufacturing .....	1	73	23	2 920	108 660	1 643	3 188	41 008	292 622	277 648	547 085	16 271
33431	Audio and video equipment manufacturing .....	1	73	23	2 920	108 660	1 643	3 188	41 008	292 622	277 648	547 085	16 271
334310	Audio and video equipment manufacturing .....	1	73	23	2 920	108 660	1 643	3 188	41 008	292 622	277 648	547 085	16 271
3344	Semiconductor and other electronic component manufacturing .....	1	529	258	29 959	1 226 463	20 461	40 017	624 536	3 228 497	2 253 755	5 478 223	236 769
33441	Semiconductor and other electronic component manufacturing .....	1	529	258	29 959	1 226 463	20 461	40 017	624 536	3 228 497	2 253 755	5 478 223	236 769
334412	Bare printed circuit board manufacturing .....	2	121	51	5 778	210 809	4 432	8 951	129 454	342 070	311 788	668 419	21 227
334413	Semiconductor and related device manufacturing .....	2	92	38	6 781	353 902	3 946	7 447	156 551	733 333	381 540	1 101 813	90 854
334414	Electronic capacitor manufacturing .....	3	16	8	921	27 404	760	1 455	17 530	47 421	23 897	72 017	2 328
334415	Electronic resistor manufacturing .....	1	9	7	636	20 776	447	809	9 632	36 354	23 979	68 425	1 363
334416	Electronic coil, transformer, and other inductor manufacturing .....	1	28	13	719	19 341	557	1 035	11 999	40 523	21 940	63 687	726
334417	Electronic connector manufacturing .....	1	44	32	4 719	189 092	3 271	6 711	96 000	371 725	238 488	615 930	22 500
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	61	40	4 618	175 901	3 392	6 678	104 227	1 162 004	963 617	2 096 421	74 278
334419	Other electronic component manufacturing .....	1	151	68	5 551	222 019	3 510	6 821	97 051	482 648	279 479	769 959	23 287
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	'355	151	'30 229	'1 883 420	'10 735	'20 204	'461 007	'5 357 875	'2 480 566	'8 063 855	'265 312
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	'355	151	'30 229	'1 883 420	'10 735	'20 204	'461 007	'5 357 875	'2 480 566	'8 063 855	'265 312
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	—	42	21	4 217	224 829	2 185	3 404	81 835	992 239	458 211	1 463 633	31 432
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	65	31	16 851	1 178 929	4 151	7 835	226 235	3 146 688	1 312 714	4 646 559	96 752
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use .....	—	14	6	756	32 767	466	963	15 561	94 475	90 380	185 516	5 231
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	1	61	25	2 374	106 951	1 210	2 489	40 891	228 001	123 123	351 869	13 985

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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
334	Computer and electronic product manufacturing—Con.												
3345	Navigational, measuring, electromedical, and control instruments manufacturing—Con.												
33451	Navigational, measuring, electromedical, and control instruments manufacturing—Con.												
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	1	61	24	2 577	180 373	871	1 697	38 408	374 926	147 263	554 641	102 502
334516	Analytical laboratory instrument manufacturing ..	1	34	14	1 034	51 808	556	1 188	18 435	270 336	190 720	459 922	5 211
334517	Irradiation apparatus manufacturing .....	2	11	6	447	21 816	197	416	7 267	76 329	56 600	125 909	D
334518	Watch, clock, and part manufacturing .....	—	'11	5	'321	'9 769	'234	'489	'5 054	'28 532	'29 888	'58 604	D
334519	Other measuring and controlling device manufacturing .....	2	48	17	1 509	70 097	788	1 620	25 629	134 493	62 165	195 742	7 065
3346	Manufacturing and reproducing magnetic and optical media.....	1	128	32	4 633	165 211	3 346	6 344	95 683	453 151	261 587	713 924	61 908
33461	Manufacturing and reproducing magnetic and optical media...	1	128	32	4 633	165 211	3 346	6 344	95 683	453 151	261 587	713 924	61 908
334611	Software reproducing .....	1	17	2	354	13 690	287	415	9 477	42 732	24 130	66 865	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	1	92	28	3 809	130 719	2 781	5 361	74 591	363 935	214 849	578 447	57 899
334613	Magnetic and optical recording media manufacturing .....	2	19	2	470	20 802	278	568	11 615	46 484	22 608	68 612	D
335	Electrical equipment, appliance, and component manufacturing .....	1	467	206	19 730	723 629	13 100	26 677	362 931	1 609 058	1 492 836	3 118 710	93 607
3351	Electric lighting equipment manufacturing .....	1	154	68	5 597	170 351	3 835	7 547	86 607	434 809	306 264	739 948	D
33512	Lighting fixture manufacturing ..	1	147	65	5 400	164 660	3 683	7 245	83 572	416 666	297 405	713 489	12 164
335121	Residential electric lighting fixture manufacturing .....	1	63	21	1 802	42 191	1 409	2 602	26 170	97 296	107 665	206 310	3 401
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing .....	—	48	25	1 395	51 756	822	1 572	19 527	118 887	74 077	191 755	3 185
335129	Other lighting equipment manufacturing .....	1	36	19	2 203	70 713	1 452	3 071	37 875	200 483	115 663	315 424	5 578
3352	Household appliance manufacturing .....	—	20	8	720	20 721	517	1 063	11 988	67 084	64 131	137 112	D
33522	Major appliance manufacturing.	—	8	6	f	D	D	D	D	D	D	D	D
335221	Household cooking appliance manufacturing .....	—	6	4	e	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	2	142	59	5 255	206 077	3 236	6 585	93 080	362 800	284 260	655 368	11 966
33531	Electrical equipment manufacturing .....	2	142	59	5 255	206 077	3 236	6 585	93 080	362 800	284 260	655 368	11 966
335311	Power, distribution, and specialty transformer manufacturing .....	2	21	10	860	33 867	547	1 072	16 828	38 987	59 727	102 812	1 120
335312	Motor and generator manufacturing .....	3	30	11	935	34 537	585	1 148	17 352	80 790	53 609	133 277	1 935
335313	Switchgear and switchboard apparatus manufacturing ..	1	27	15	1 057	41 867	710	1 489	21 655	96 199	80 862	176 357	1 964
335314	Relay and industrial control manufacturing .....	1	64	23	2 403	95 806	1 394	2 876	37 245	146 824	90 062	242 922	6 947
3359	Other electrical equipment and component manufacturing .....	1	151	71	8 158	326 480	5 512	11 482	171 256	744 365	838 181	1 586 282	67 084
33591	Battery manufacturing .....	1	11	8	1 314	49 925	1 113	2 317	39 181	146 785	182 688	335 480	3 714
335911	Storage battery manufacturing .....	1	10	8	g	D	D	D	D	D	D	D	3 714
33592	Communication and energy wire and cable manufacturing ..	1	30	18	1 231	44 856	931	1 851	27 285	98 718	222 889	321 260	9 701
335929	Other communication and energy wire manufacturing ..	1	24	17	1 124	40 411	861	1 699	24 581	85 235	213 156	297 935	9 216
33593	Wiring device manufacturing ...	1	38	16	1 964	78 366	1 374	2 849	44 593	238 349	139 877	376 960	8 778
335931	Current-carrying wiring device manufacturing .....	1	30	11	1 375	53 957	912	1 873	27 184	145 728	65 391	211 961	3 598
335932	Noncurrent-carrying wiring device manufacturing .....	—	8	5	589	24 409	462	976	17 409	92 621	74 486	164 999	5 180

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
335	Electrical equipment, appliance, and component manufacturing—Con.												
3359	Other electrical equipment and component manufacturing—Con.												
33599	All other electrical equipment and component manufacturing .....	3	72	29	3 649	153 333	2 094	4 465	60 197	260 513	292 727	552 582	44 891
335999	All other miscellaneous electrical equipment and component manufacturing ..	3	70	27	h	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	1	721	292	68 847	3 810 379	36 809	75 699	1 546 701	9 203 422	6 297 155	15 399 827	446 816
3361	Motor vehicle manufacturing .....	9	17	6	408	23 762	363	665	20 756	94 455	293 035	386 533	D
33611	Automobile and light duty motor vehicle manufacturing .....	9	14	5	e	D	D	D	D	D	D	D	D
336111	Automobile manufacturing .....	9	8	3	e	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing .....	1	59	26	2 727	75 913	2 237	4 188	51 695	152 593	214 845	368 730	4 555
33621	Motor vehicle body and trailer manufacturing .....	1	59	26	2 727	75 913	2 237	4 188	51 695	152 593	214 845	368 730	4 555
336211	Motor vehicle body manufacturing .....	2	38	14	f	D	D	D	D	D	D	D	D
336213	Motor home manufacturing ..	—	2	1	e	D	D	D	D	D	D	D	D
336214	Travel trailer and camper manufacturing .....	1	17	9	1 229	32 344	1 028	2 218	21 746	72 285	88 508	161 558	2 132
3363	Motor vehicle parts manufacturing .....	2	358	133	17 975	600 096	14 306	29 360	401 840	1 395 979	1 679 016	3 051 254	124 631
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	3	96	27	2 806	103 982	2 158	3 860	65 415	192 986	187 056	374 070	37 453
336311	Carburetor, piston, piston ring, and valve manufacturing .....	2	22	10	922	27 377	726	1 437	16 713	62 592	29 553	92 436	11 210
336312	Gasoline engine and engine parts manufacturing .....	3	74	17	1 884	76 605	1 432	2 423	48 702	130 394	157 503	281 634	26 243
33632	Motor vehicle electrical and electronic equipment manufacturing .....	1	47	19	1 750	59 339	1 478	3 037	37 620	165 932	203 008	366 354	11 569
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	1	41	18	1 654	55 293	1 402	2 898	35 206	159 763	199 733	356 941	11 202
33635	Motor vehicle transmission and power train parts manufacturing .....	2	30	6	1 284	38 608	903	1 953	23 622	93 942	135 289	219 333	3 101
336350	Motor vehicle transmission and power train parts manufacturing .....	2	30	6	1 284	38 608	903	1 953	23 622	93 942	135 289	219 333	3 101
33636	Motor vehicle seating and interior trim manufacturing .....	1	29	10	1 488	45 328	1 099	2 130	26 250	83 552	93 846	179 751	3 253
336360	Motor vehicle seating and interior trim manufacturing ..	1	29	10	1 488	45 328	1 099	2 130	26 250	83 552	93 846	179 751	3 253
33637	Motor vehicle metal stamping ..	4	18	9	1 740	43 060	1 411	2 960	32 834	74 751	93 705	167 806	5 512
336370	Motor vehicle metal stamping .....	4	18	9	1 740	43 060	1 411	2 960	32 834	74 751	93 705	167 806	5 512
33639	Other motor vehicle parts manufacturing .....	2	119	54	8 616	296 550	7 030	14 973	207 148	758 744	939 012	1 690 797	62 823
336399	All other motor vehicle parts manufacturing .....	2	116	54	i	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	—	172	92	44 303	2 978 766	17 554	36 870	1 000 724	7 324 470	3 892 694	11 143 993	300 658
33641	Aerospace product and parts manufacturing .....	—	172	92	44 303	2 978 766	17 554	36 870	1 000 724	7 324 470	3 892 694	11 143 993	300 658
336411	Aircraft manufacturing .....	—	15	8	13 367	923 367	5 644	11 680	405 430	2 116 671	1 861 790	3 784 648	D
336412	Aircraft engine and engine parts manufacturing .....	1	22	9	f	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	—	118	64	18 158	1 218 675	7 780	17 048	401 352	2 879 703	1 289 065	4 340 368	116 190
336414	Guided missile and space vehicle manufacturing .....	—	3	2	i	D	D	D	D	D	D	D	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing .....	—	3	3	h	D	D	D	D	D	D	D	D
336419	Other guided missile and space vehicle parts and auxiliary equipment manufacturing .....	1	11	6	f	D	D	D	D	D	D	D	5 562

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)					
<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>														
<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>														
336	Transportation equipment manufacturing—Con.													
3366	Ship and boat building .....	3	41	12	f	D	D	D	D	D	D	D	5 000	
33661	Ship and boat building .....	3	41	12	f	D	D	D	D	D	D	D	5 000	
336611	Ship building and repairing ..	3	22	4	e	D	D	D	D	D	D	D	D	
336612	Boat building .....	2	19	8		632	18 866	509	1 004	12 786	33 471	51 359	84 830	
3369	Other transportation equipment manufacturing .....	2	71	22		2 478	101 632	1 580	3 122	51 037	180 414	145 531	321 824	7 336
33699	Other transportation equipment manufacturing .....	2	71	22		2 478	101 632	1 580	3 122	51 037	180 414	145 531	321 824	7 336
336991	Motorcycle, bicycle, and parts manufacturing .....	2	48	17		1 684	58 490	1 219	2 427	35 166	148 948	109 491	256 416	6 359
336992	Military armored vehicle, tank, and tank component manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D	
336999	All other transportation equipment manufacturing ..	4	21	3	e	D	D	D	D	D	D	D	D	
337	Furniture and related product manufacturing .....	3	'1 315	'368	'37 373	'1 028 856	'29 339	'56 353	'679 590	'2 503 226	'1 870 103	'4 367 368	'73 118	
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	4	'969	'224	'24 778	'636 279	'20 156	'38 089	'443 633	'1 403 300	'1 118 346	'2 522 652	'40 235	
33711	Wood kitchen cabinet and countertop manufacturing ...	6	344	41	5 036	141 571	3 721	7 012	91 297	295 543	209 183	504 190	9 613	
337110	Wood kitchen cabinet and countertop manufacturing ..	6	344	41	5 036	141 571	3 721	7 012	91 297	295 543	209 183	504 190	9 613	
33712	Household and institutional furniture manufacturing .....	3	'625	'183	'19 742	'494 708	'16 435	'31 077	'352 336	'1 107 757	'909 163	'2 018 462	'30 622	
337121	Upholstered household furniture manufacturing ....	'2	193	65	6 764	166 786	5 854	10 842	126 852	'355 642	'349 080	'704 876	7 361	
337122	Nonupholstered wood household furniture manufacturing .....	4	'295	'68	'7 392	'168 126	'6 377	'11 937	'126 043	'368 694	'287 191	'657 430	'13 518	
337124	Metal household furniture manufacturing .....	2	44	26	3 117	78 885	2 470	4 855	55 534	207 832	154 351	363 002	3 712	
337125	Household furniture (except wood and metal) manufacturing .....	4	16	5	268	8 985	200	335	3 850	9 996	18 988	29 245	D	
337127	Institutional furniture manufacturing .....	3	56	17	2 038	67 474	1 390	2 806	36 461	157 560	91 534	247 878	5 335	
3372	Office furniture (including fixtures) manufacturing .....	2	'265	'111	'8 511	'280 981	'6 418	'12 846	'172 524	'686 741	'419 914	'1 101 499	'22 180	
33721	Office furniture (including fixtures) manufacturing .....	2	'265	'111	'8 511	'280 981	'6 418	'12 846	'172 524	'686 741	'419 914	'1 101 499	'22 180	
337211	Wood office furniture manufacturing .....	3	41	24	1 669	42 297	1 411	2 810	29 696	79 287	51 714	131 167	2 260	
337212	Custom architectural woodwork and millwork manufacturing .....	2	'57	'23	'1 521	'52 708	'1 039	'2 069	'33 333	'100 363	'63 780	'166 467	'3 188	
337214	Office furniture (except wood) manufacturing .....	1	34	13	1 796	68 383	1 501	3 226	51 118	259 124	127 224	384 430	11 499	
337215	Showcase, partition, shelving, and locker manufacturing .....	2	133	51	3 525	117 593	2 467	4 741	58 377	247 967	177 196	419 435	5 233	
3379	Other furniture related product manufacturing .....	2	81	33	4 084	111 596	2 765	5 418	63 433	413 185	331 843	743 217	10 703	
33791	Mattress manufacturing .....	2	48	20	1 726	52 998	1 400	2 812	36 385	210 026	193 658	401 684	5 857	
337910	Mattress manufacturing .....	2	48	20	1 726	52 998	1 400	2 812	36 385	210 026	193 658	401 684	5 857	
33792	Blind and shade manufacturing .....	2	33	13	2 358	58 598	1 365	2 606	27 048	203 159	138 185	341 533	4 846	
337920	Blind and shade manufacturing .....	2	33	13	2 358	58 598	1 365	2 606	27 048	203 159	138 185	341 533	4 846	
339	Miscellaneous manufacturing .....	2	'2 071	'453	'48 230	'1 725 444	'32 552	'62 266	'828 200	'4 604 156	'2 890 186	'7 497 661	'233 237	
3391	Medical equipment and supplies manufacturing .....	3	'681	'136	'21 638	'926 408	'13 389	'26 867	'388 187	'2 638 511	'1 329 000	'3 978 803	'163 799	
33911	Medical equipment and supplies manufacturing .....	3	'681	'136	'21 638	'926 408	'13 389	'26 867	'388 187	'2 638 511	'1 329 000	'3 978 803	'163 799	
339111	Laboratory apparatus and furniture manufacturing ...	—	24	14	1 606	82 499	540	1 130	15 132	182 477	125 892	324 305	9 914	
339112	Surgical and medical instrument manufacturing ..	2	86	34	7 204	265 244	4 946	9 427	123 701	733 018	328 314	1 057 795	89 733	
339113	Surgical appliance and supplies manufacturing ....	6	91	42	5 144	261 523	2 809	6 266	77 548	673 931	370 905	1 050 888	29 024	
339114	Dental equipment and supplies manufacturing ....	—	72	13	2 193	96 294	1 190	2 049	38 543	540 506	222 912	758 327	17 255	
339115	Ophthalmic goods manufacturing .....	8	22	9	1 221	53 106	894	1 772	25 353	173 409	204 184	376 091	12 101	
339116	Dental laboratories .....	2	'386	'24	'4 270	'167 742	'3 010	'6 223	'107 910	'335 170	'76 793	'411 397	'5 772	

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	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>													
<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>													
339	Miscellaneous manufacturing—Con.												
3399	Other miscellaneous manufacturing	2	'1 390	'317	'26 592	'799 036	'19 163	'35 399	'440 013	'1 965 645	'1 561 186	'3 518 858	'69 438
33991	Jewelry and silverware manufacturing	2	350	57	4 307	116 064	3 144	5 402	61 602	315 967	390 061	709 268	7 993
339911	Jewelry (except costume) manufacturing	3	258	42	3 373	92 698	2 491	4 168	49 911	248 652	339 952	591 431	6 650
339914	Costume jewelry and novelty manufacturing	2	60	14	790	19 555	556	1 064	9 796	59 678	29 445	89 637	D
33992	Sporting and athletic goods manufacturing	1	'164	36	'3 264	'111 729	'2 099	'4 077	'45 674	'283 188	'236 667	'518 415	'7 579
339920	Sporting and athletic goods manufacturing	1	'164	36	'3 264	'111 729	'2 099	'4 077	'45 674	'283 188	'236 667	'518 415	'7 579
33993	Doll, toy, and game manufacturing	2	58	11	g	D	D	D	D	D	D	D	3 021
339932	Game, toy, and children's vehicle manufacturing	2	48	10	g	D	D	D	D	D	D	D	2 937
33994	Office supplies (except paper) manufacturing	2	56	11	g	D	D	D	D	D	D	D	10 341
339941	Pen and mechanical pencil manufacturing	—	9	3	719	27 603	608	1 009	19 371	63 075	48 792	102 009	D
339943	Marking device manufacturing	3	27	3	e	D	D	D	D	D	D	D	D
339944	Carbon paper and inked ribbon manufacturing	4	7	5	333	8 189	235	487	5 102	17 210	16 871	34 776	935
33995	Sign manufacturing	2	253	48	3 507	128 060	2 379	4 671	69 203	245 450	140 939	389 045	11 086
339950	Sign manufacturing	2	253	48	3 507	128 060	2 379	4 671	69 203	245 450	140 939	389 045	11 086
33999	All other miscellaneous manufacturing	1	'509	'154	'12 968	'359 998	'9 685	'17 711	'215 050	'843 176	'580 327	'1 430 175	'29 418
339991	Gasket, packing, and sealing device manufacturing	1	46	23	2 377	79 536	1 817	3 250	50 968	173 503	86 469	265 621	5 965
339992	Musical instrument manufacturing	—	32	6	918	19 866	649	1 222	10 940	47 476	35 809	85 357	2 202
339993	Fastener, button, needle, and pin manufacturing	3	13	6	434	13 020	321	686	8 337	29 853	13 835	42 635	1 965
339994	Broom, brush, and mop manufacturing	1	18	10	781	22 590	531	719	12 242	75 665	36 967	110 982	D
339999	All other miscellaneous manufacturing	1	'397	'109	'8 437	'224 445	'6 351	'11 803	'132 264	'515 159	'406 066	'922 879	'17 652
<b>Los Angeles-Long Beach-Glendale, CA Metropolitan Division</b>													
31-33	Manufacturing	1	'17 205	'4 870	'530 939	'19 989 479	'361 452	'701 433	'10 239 379	'55 525 812	'52 261 579	'108 052 135	'5 619 927
311	Food manufacturing	3	'1 198	'374	'46 351	'1 479 500	'32 123	'62 206	'874 501	'5 811 404	'6 372 753	'12 220 774	'418 134
3111	Animal food manufacturing	4	24	11	1 260	70 359	826	1 690	46 650	529 183	402 673	967 578	26 932
31111	Animal food manufacturing	4	24	11	1 260	70 359	826	1 690	46 650	529 183	402 673	967 578	26 932
311111	Dog and cat food manufacturing	4	11	7	g	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling	—	25	12	f	D	D	D	D	D	D	D	D
31122	Starch and vegetable fats and oils manufacturing	—	12	6	e	D	D	D	D	D	D	D	D
311225	Fats and oils refining and blending	—	8	5	e	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing	5	53	11	g	D	D	D	D	D	D	D	D
31131	Sugar manufacturing	9	2	1	f	D	D	D	D	D	D	D	D
311312	Cane sugar refining	9	2	1	f	D	D	D	D	D	D	D	D
31133	Confectionery manufacturing from purchased chocolate	—	26	5	1 126	36 298	974	1 812	26 263	88 836	149 075	239 993	D
311330	Confectionery manufacturing from purchased chocolate	—	26	5	1 126	36 298	974	1 812	26 263	88 836	149 075	239 993	D
31134	Nonchocolate confectionery manufacturing	7	22	5	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing	7	22	5	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing	3	58	33	5 583	158 940	4 668	9 186	112 113	861 500	829 734	1 696 408	82 073
31141	Frozen food manufacturing	3	25	20	3 601	91 319	3 085	6 035	64 249	566 442	567 842	1 134 223	19 966
311411	Frozen fruit, juice, and vegetable manufacturing	5	4	3	349	10 673	302	591	7 889	44 791	49 308	94 102	3 078
311412	Frozen specialty food manufacturing	2	21	17	3 252	80 646	2 783	5 444	56 360	521 651	518 534	1 040 121	16 888
31142	Fruit and vegetable canning, pickling, and drying	4	33	13	1 982	67 621	1 583	3 151	47 864	295 058	261 892	562 185	62 107
311421	Fruit and vegetable canning	6	24	8	g	D	D	D	D	D	D	D	D
311422	Specialty canning	—	4	2	e	D	D	D	D	D	D	D	D
311423	Dried and dehydrated food manufacturing	3	5	3	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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Los Angeles-Long Beach-Glendale, CA Metropolitan Division—Con.</b>												
311	Food manufacturing—Con.												
3115	Dairy product manufacturing . . . . .	1	62	29	4 322	180 967	2 421	4 811	88 581	865 414	1 362 668	2 229 717	140 783
31151	Dairy product (except frozen) manufacturing . . . . .	1	39	22	3 772	160 017	2 050	4 148	73 889	645 796	1 236 657	1 885 604	D
311511	Fluid milk manufacturing . . . . .	1	17	12	g	D	D	D	D	D	D	D	D
311513	Cheese manufacturing . . . . .	1	13	6	f	D	D	D	D	D	D	D	D
311514	Dry, condensed, and evaporated dairy product manufacturing . . . . .	—	8	3	e	D	D	D	D	D	D	D	D
31152	Ice cream and frozen dessert manufacturing . . . . .	2	23	7	550	20 950	371	663	14 692	219 618	126 011	344 113	D
311520	Ice cream and frozen dessert manufacturing . . . . .	2	23	7	550	20 950	371	663	14 692	219 618	126 011	344 113	D
3116	Animal slaughtering and processing . . . . .	2	103	50	6 239	173 852	5 125	10 135	117 546	638 937	981 723	1 621 768	28 021
31161	Animal slaughtering and processing . . . . .	2	103	50	6 239	173 852	5 125	10 135	117 546	638 937	981 723	1 621 768	28 021
311611	Animal (except poultry) slaughtering . . . . .	1	27	8	g	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses . . . . .	3	56	29	2 969	88 797	2 456	4 680	58 561	381 762	517 403	899 268	15 923
311613	Rendering and meat byproduct processing . . . . .	—	4	3	e	D	D	D	D	D	D	D	D
311615	Poultry processing . . . . .	4	16	10	f	D	D	D	D	D	D	D	D
3117	Seafood product preparation and packaging . . . . .	3	33	17	g	D	D	D	D	D	D	D	D
31171	Seafood product preparation and packaging . . . . .	3	33	17	g	D	D	D	D	D	D	D	D
311711	Seafood canning . . . . .	4	11	4	f	D	D	D	D	D	D	D	D
311712	Fresh and frozen seafood processing . . . . .	2	22	13	g	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing . . . . .	3	627	123	16 233	487 189	9 909	18 171	264 129	1 488 227	799 537	2 284 439	62 531
31181	Bread and bakery product manufacturing . . . . .	3	562	91	13 136	412 771	7 337	13 348	209 001	1 221 489	585 258	1 803 638	40 727
311811	Retail bakeries . . . . .	5	415	37	3 183	52 515	1 732	2 568	27 809	105 890	54 303	160 176	3 965
311812	Commercial bakeries . . . . .	3	138	47	8 725	322 764	4 637	8 760	159 520	985 460	418 621	1 403 426	34 356
311813	Frozen cakes, pies, and other pastries manufacturing . . . . .	—	9	7	1 228	37 492	968	2 020	21 672	130 139	112 334	240 036	2 406
31182	Cookie, cracker, and pasta manufacturing . . . . .	1	41	15	1 077	32 856	814	1 688	21 006	125 380	136 699	261 206	4 512
311821	Cookie and cracker manufacturing . . . . .	4	19	5	e	D	D	D	D	D	D	D	D
311822	Flour mixes and dough manufacturing from purchased flour . . . . .	—	12	8	f	D	D	D	D	D	D	D	D
31183	Tortilla manufacturing . . . . .	1	24	17	2 020	41 562	1 758	3 135	34 122	141 358	77 580	219 595	17 292
311830	Tortilla manufacturing . . . . .	1	24	17	2 020	41 562	1 758	3 135	34 122	141 358	77 580	219 595	17 292
3119	Other food manufacturing . . . . .	3	1213	188	17 202	1232 212	4 853	9 574	127 620	799 240	891 465	1 688 102	49 191
31191	Snack food manufacturing . . . . .	9	13	4	e	D	D	D	D	D	D	D	D
311919	Other snack food manufacturing . . . . .	9	13	4	e	D	D	D	D	D	D	D	D
31192	Coffee and tea manufacturing . . . . .	6	13	6	f	D	D	D	D	D	D	D	D
311920	Coffee and tea manufacturing . . . . .	6	13	6	f	D	D	D	D	D	D	D	D
31193	Flavoring syrup and concentrate manufacturing . . . . .	4	11	7	e	D	D	D	D	D	D	D	D
311930	Flavoring syrup and concentrate manufacturing . . . . .	4	11	7	e	D	D	D	D	D	D	D	D
31194	Seasoning and dressing manufacturing . . . . .	2	38	22	1 400	51 101	834	1 613	23 005	175 665	213 460	389 193	10 912
311941	Mayonnaise, dressing, and other prepared sauce manufacturing . . . . .	1	18	10	f	D	D	D	D	D	D	D	7 495
311942	Spice and extract manufacturing . . . . .	4	20	12	f	D	D	D	D	D	D	D	3 417
31199	All other food manufacturing . . . . .	2	138	49	4 245	121 355	2 998	5 922	72 124	313 366	463 181	773 373	22 340
311991	Perishable prepared food manufacturing . . . . .	1	37	24	2 498	74 297	1 732	3 452	44 335	160 459	319 122	476 702	15 030
311999	All other miscellaneous food manufacturing . . . . .	4	101	25	1 747	47 058	1 266	2 470	27 789	152 907	144 059	296 671	7 310

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Los Angeles-Long Beach-Glendale, CA Metropolitan Division—Con.</b>												
315	Apparel manufacturing—Con.												
3152	Cut and sew apparel manufacturing—Con.												
31523	Women's and girls' cut and sew apparel manufacturing . . . . .	2	'617	221	'23 307	'724 620	'14 452	'27 402	'313 810	'2 192 080	'3 185 007	'5 364 501	41 952
315231	Women's and girls' cut and sew lingerie, loungewear, and nightwear manufacturing . . . . .	1	25	15	2 625	64 261	1 141	2 427	23 865	142 261	158 976	308 638	4 307
315232	Women's and girls' cut and sew blouse and shirt manufacturing . . . . .	1	152	69	8 097	287 798	5 203	9 909	115 782	989 163	1 525 071	2 518 823	20 911
315233	Women's and girls' cut and sew dress manufacturing . . . . .	2	'144	56	h	D	D	D	D	D	D	D	D
315234	Women's and girls' cut and sew suit, coat, tailored jacket, and skirt manufacturing . . . . .	6	32	5	e	D	D	D	D	D	D	D	D
315239	Women's and girls' cut and sew other outerwear manufacturing . . . . .	3	264	76	i	D	D	D	D	D	D	D	D
31529	Other cut and sew apparel manufacturing . . . . .	4	94	26	1 845	44 074	1 270	2 416	23 506	83 349	60 030	143 585	D
315292	Fur and leather apparel manufacturing . . . . .	1	22	5	e	D	D	D	D	D	D	D	D
315299	All other cut and sew apparel manufacturing . . . . .	5	66	19	1 381	31 313	952	1 834	17 743	47 435	35 733	84 063	D
3159	Apparel accessories and other apparel manufacturing . . . . .	2	138	31	3 690	95 624	2 942	5 283	56 433	167 387	280 364	433 209	D
31599	Apparel accessories and other apparel manufacturing . . . . .	2	138	31	3 690	95 624	2 942	5 283	56 433	167 387	280 364	433 209	D
315991	Hat, cap, and millinery manufacturing . . . . .	1	11	3	e	D	D	D	D	D	D	D	D
315993	Men's and boys' neckwear manufacturing . . . . .	—	4	2	f	D	D	D	D	D	D	D	D
315999	Other apparel accessories and other apparel manufacturing . . . . .	2	119	23	h	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing . . . . .	'3	'104	'33	'2 839	'65 999	2 298	4 333	39 623	'162 904	'132 716	'298 268	D
3162	Footwear manufacturing . . . . .	4	43	14	1 241	27 100	1 039	2 044	17 526	57 611	45 171	107 537	D
31621	Footwear manufacturing . . . . .	4	43	14	1 241	27 100	1 039	2 044	17 526	57 611	45 171	107 537	D
316214	Women's footwear (except athletic) manufacturing . . . . .	3	22	8	f	D	D	D	D	D	D	D	D
3169	Other leather and allied product manufacturing . . . . .	'2	'51	'19	'1 537	'36 890	1 211	2 199	20 638	'101 992	'81 624	'181 558	D
31699	Other leather and allied product manufacturing . . . . .	'2	'51	'19	'1 537	'36 890	1 211	2 199	20 638	'101 992	'81 624	'181 558	D
316991	Luggage manufacturing . . . . .	'2	'13	'7	'412	'11 236	303	585	4 821	'32 446	'30 272	'63 083	D
316992	Women's handbag and purse manufacturing . . . . .	3	9	2	f	D	D	D	D	D	D	D	D
316999	All other leather goods manufacturing . . . . .	1	18	7	383	10 783	272	524	4 853	40 444	30 164	67 368	D
321	Wood product manufacturing . . . . .	3	'314	'82	'6 674	'159 022	'5 126	'10 012	'106 632	'325 408	'360 308	'681 310	'15 295
3212	Veneer, plywood, and engineered wood product manufacturing . . . . .	4	'26	'10	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing . . . . .	4	'26	'10	f	D	D	D	D	D	D	D	D
321211	Hardwood veneer and plywood manufacturing . . . . .	1	10	6	382	10 342	348	709	8 164	20 734	30 548	51 343	952
3219	Other wood product manufacturing . . . . .	3	'274	'70	'5 919	'138 605	'4 471	'8 727	'91 219	'283 007	'292 703	'571 243	'12 658
32191	Millwork . . . . .	4	'112	'29	'2 441	'62 826	'1 998	'3 905	'41 945	'115 066	'126 145	'242 039	'4 861
321911	Wood window and door manufacturing . . . . .	5	44	12	1 025	27 523	821	1 541	17 422	50 498	56 193	106 808	1 741
321918	Other millwork (including flooring) . . . . .	4	'54	'14	'1 192	'29 559	'972	'1 950	'19 700	'52 768	'58 722	'112 202	'2 913
32192	Wood container and pallet manufacturing . . . . .	3	84	25	1 599	35 029	1 341	2 507	24 856	74 509	75 150	146 468	3 338
321920	Wood container and pallet manufacturing . . . . .	3	84	25	1 599	35 029	1 341	2 507	24 856	74 509	75 150	146 468	3 338
32199	All other wood product manufacturing . . . . .	2	78	16	1 879	40 750	1 132	2 315	24 418	93 432	91 408	182 736	4 459
321999	All other miscellaneous wood product manufacturing . . . . .	2	62	16	1 796	38 175	1 070	2 196	22 774	88 635	85 894	172 503	4 304

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Los Angeles-Long Beach-Glendale, CA Metropolitan Division—Con.</b>												
325	Chemical manufacturing .....	1	'549	'217	'25 320	'1 100 251	'14 955	'30 274	'475 039	'5 044 286	'3 533 819	'8 635 241	'245 671
3251	Basic chemical manufacturing ...	2	53	18	1 181	56 978	643	1 348	27 797	244 884	184 635	432 095	14 586
32512	Industrial gas manufacturing ...	2	16	6	e	D	D	D	D	D	D	D	D
325120	Industrial gas manufacturing ..	2	16	6	e	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical manufacturing .....	1	15	8	527	25 528	359	736	14 715	94 906	43 395	139 955	D
325188	All other basic inorganic chemical manufacturing ....	1	13	7	e	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	2	17	4	296	14 333	171	370	7 180	63 327	88 914	153 220	D
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing.....	2	41	16	1 422	65 891	1 047	2 138	43 529	188 275	449 769	644 900	24 079
32521	Resin and synthetic rubber manufacturing .....	2	37	15	1 300	62 494	939	1 924	40 869	176 716	435 839	619 440	23 815
325211	Plastics material and resin manufacturing .....	1	30	14	1 184	56 192	860	1 765	36 732	154 066	401 025	561 898	D
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing .....	2	20	4	705	23 976	363	831	11 333	109 779	92 849	205 229	10 388
32531	Fertilizer manufacturing .....	5	13	3	e	D	D	D	D	D	D	D	D
325314	Fertilizer (mixing only) manufacturing .....	6	8	2	e	D	D	D	D	D	D	D	1 038
32532	Pesticide and other agricultural chemical manufacturing .....	1	7	1	e	D	D	D	D	D	D	D	D
325320	Pesticide and other agricultural chemical manufacturing .....	1	7	1	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	1	63	35	6 976	329 860	3 934	7 919	134 235	1 737 351	861 083	2 633 455	106 271
32541	Pharmaceutical and medicine manufacturing .....	1	63	35	6 976	329 860	3 934	7 919	134 235	1 737 351	861 083	2 633 455	106 271
325411	Medicinal and botanical manufacturing .....	—	16	7	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	—	35	20	3 011	108 173	2 046	3 853	62 446	1 261 915	336 402	1 631 751	44 900
325413	In-vitro diagnostic substance manufacturing .....	—	7	4	1 147	64 483	395	971	15 433	204 868	40 154	241 411	D
325414	Biological product (except diagnostic) manufacturing ..	4	5	4	g	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing .....	1	92	36	2 693	121 209	1 513	3 135	50 594	639 898	469 368	1 107 900	11 005
32551	Paint and coating manufacturing .....	1	67	25	1 857	81 945	1 019	2 117	32 520	521 631	391 213	911 339	6 834
325510	Paint and coating manufacturing .....	1	67	25	1 857	81 945	1 019	2 117	32 520	521 631	391 213	911 339	6 834
32552	Adhesive manufacturing .....	3	25	11	836	39 264	494	1 018	18 074	118 267	78 155	196 561	4 171
325520	Adhesive manufacturing ....	3	25	11	836	39 264	494	1 018	18 074	118 267	78 155	196 561	4 171
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	1	'160	'58	'8 157	'339 850	'4 717	'9 638	'127 192	'1 610 345	'954 231	'2 575 358	'60 597
32561	Soap and cleaning compound manufacturing .....	4	65	15	961	41 285	624	1 340	22 773	199 963	165 830	370 450	9 242
325611	Soap and other detergent manufacturing .....	4	30	7	495	23 795	308	649	11 569	102 039	104 678	206 755	6 385
325612	Polish and other sanitation good manufacturing .....	3	29	7	e	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing .....	1	'95	'43	'7 196	'298 565	'4 093	'8 298	'104 419	'1 410 382	'788 401	'2 204 908	'51 355
325620	Toilet preparation manufacturing .....	1	'95	'43	'7 196	'298 565	'4 093	'8 298	'104 419	'1 410 382	'788 401	'2 204 908	'51 355
3259	Other chemical product and preparation manufacturing .....	2	120	50	4 186	162 487	2 738	5 265	80 359	513 754	521 884	1 036 304	18 745
32591	Printing ink manufacturing .....	1	26	16	f	D	D	D	D	D	D	D	D
325910	Printing ink manufacturing ...	1	26	16	f	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing ...	2	93	33	3 415	123 363	2 370	4 489	65 087	425 618	417 862	844 844	14 809
325991	Custom compounding of purchased resins .....	—	22	10	648	27 900	416	907	14 129	76 797	122 183	199 757	D
325992	Photographic film, paper, plate, and chemical manufacturing .....	1	26	11	1 711	50 745	1 298	2 253	26 309	143 178	131 760	274 890	D
325998	All other miscellaneous chemical product and preparation manufacturing ..	4	45	12	1 056	44 718	656	1 329	24 649	205 643	163 919	370 197	7 228

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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	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Los Angeles-Long Beach-Glendale, CA Metropolitan Division—Con.</b>												
326	Plastics and rubber products manufacturing .....	1	'554	'257	'25 517	'776 620	'19 994	'39 501	'496 542	'1 991 475	'1 778 498	'3 775 545	'146 624
3261	Plastics product manufacturing ..	1	457	217	'22 037	'673 065	'17 330	'34 296	'432 896	'1 766 608	'1 568 734	'3 336 832	'129 970
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	1	72	42	3 654	118 351	2 856	5 827	72 203	340 921	426 864	773 750	24 648
326111	Plastics bag manufacturing ..	—	30	16	1 982	56 536	1 595	3 334	32 699	181 307	176 508	356 826	10 908
326112	Plastics packaging film and sheet (including laminated) manufacturing .....	1	15	11	779	30 133	557	1 165	17 650	75 732	109 629	191 030	7 398
326113	Unlaminated plastics film and sheet (except packaging) manufacturing .....	2	27	15	893	31 682	704	1 328	21 854	83 882	140 727	225 894	6 342
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing .....	1	34	14	g	D	D	D	D	D	D	D	D
326121	Unlaminated plastics profile shape manufacturing .....	—	22	9	804	27 648	673	1 464	20 364	59 127	54 795	110 428	4 120
326122	Plastics pipe and pipe fitting manufacturing .....	3	12	5	e	D	D	D	D	D	D	D	D
32614	Polystyrene foam product manufacturing .....	1	27	13	1 046	29 700	837	1 662	20 427	84 611	102 443	186 797	4 825
326140	Polystyrene foam product manufacturing .....	1	27	13	1 046	29 700	837	1 662	20 427	84 611	102 443	186 797	4 825
32615	Urethane and other foam product (except polystyrene) manufacturing .....	2	22	12	898	26 754	702	1 274	19 051	59 276	65 944	124 988	4 938
326150	Urethane and other foam product (except polystyrene) manufacturing .....	2	22	12	898	26 754	702	1 274	19 051	59 276	65 944	124 988	4 938
32616	Plastics bottle manufacturing ..	—	15	8	885	28 022	795	1 720	22 560	78 530	68 341	146 237	9 450
326160	Plastics bottle manufacturing .....	—	15	8	885	28 022	795	1 720	22 560	78 530	68 341	146 237	9 450
32619	Other plastics product manufacturing .....	'2	276	126	'14 275	'428 046	'11 082	'21 578	'268 502	'1 094 659	'803 927	'1 899 710	'79 286
326191	Plastics plumbing fixture manufacturing .....	3	9	6	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	'2	264	119	'12 498	'378 652	'9 607	'18 908	'230 569	'966 973	'718 474	'1 688 681	'72 509
3262	Rubber product manufacturing ...	3	'97	'40	'3 480	'103 555	'2 664	'5 205	'63 646	'224 867	'209 764	'438 713	'16 654
32622	Rubber and plastics hoses and belting manufacturing .....	—	9	4	389	12 982	306	562	7 787	27 857	33 744	63 624	D
326220	Rubber and plastics hoses and belting manufacturing ..	—	9	4	389	12 982	306	562	7 787	27 857	33 744	63 624	D
32629	Other rubber product manufacturing .....	4	75	33	2 936	85 382	2 235	4 389	52 201	183 423	155 896	341 135	10 248
326291	Rubber product manufacturing for mechanical use .....	5	26	10	931	23 116	719	1 282	14 494	46 875	24 527	71 861	3 100
326299	All other rubber product manufacturing .....	3	49	23	2 005	62 266	1 516	3 107	37 707	136 548	131 369	269 274	7 148
327	Nonmetallic mineral product manufacturing .....	2	348	113	9 140	308 015	7 178	14 663	220 429	782 848	786 993	1 564 437	48 887
3271	Clay product and refractory manufacturing .....	2	63	18	1 276	33 588	951	1 879	22 207	76 364	38 895	114 326	3 070
32711	Pottery, ceramics, and plumbing fixture manufacturing .....	4	38	11	775	18 388	567	1 167	11 913	33 188	22 450	55 828	D
327112	Vitreous china, fine earthenware, and other pottery product manufacturing .....	4	34	9	f	D	D	D	D	D	D	D	D
32712	Clay building material and refractories manufacturing .....	1	25	7	501	15 200	384	712	10 294	43 176	16 445	58 498	D
3272	Glass and glass product manufacturing .....	2	94	27	3 249	106 221	2 616	5 227	75 114	313 232	212 297	524 060	19 752
32721	Glass and glass product manufacturing .....	2	94	27	3 249	106 221	2 616	5 227	75 114	313 232	212 297	524 060	19 752
327212	Other pressed and blown glass and glassware manufacturing .....	1	26	6	f	D	D	D	D	D	D	D	D
327213	Glass container manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	4	64	18	2 024	53 596	1 611	3 122	35 483	138 132	107 322	242 796	10 170

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Los Angeles-Long Beach-Glendale, CA Metropolitan Division—Con.</b>												
327	Nonmetallic mineral product manufacturing—Con.												
3273	Cement and concrete product manufacturing .....	2	91	43	2 785	106 197	2 231	4 646	79 516	255 566	355 961	610 454	18 075
32732	Ready-mix concrete manufacturing .....	1	58	29	1 864	72 753	1 520	3 185	56 925	175 793	311 448	487 187	14 392
327320	Ready-mix concrete manufacturing .....	1	58	29	1 864	72 753	1 520	3 185	56 925	175 793	311 448	487 187	14 392
32733	Concrete pipe, brick, and block manufacturing .....	6	9	6	308	12 238	197	464	6 911	27 475	17 175	44 579	D
327331	Concrete block and brick manufacturing .....	5	8	6	e	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing .....	5	21	8	600	20 479	503	972	15 113	49 409	25 109	73 496	1 851
327390	Other concrete product manufacturing .....	5	21	8	600	20 479	503	972	15 113	49 409	25 109	73 496	1 851
3274	Lime and gypsum product manufacturing .....	3	23	8	549	21 781	441	962	16 125	49 965	80 242	128 509	2 143
32742	Gypsum product manufacturing .....	3	22	8	f	D	D	D	D	D	D	D	D
327420	Gypsum product manufacturing .....	3	22	8	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing .....	4	77	17	1 281	40 228	939	1 949	27 467	87 721	99 598	187 088	5 847
32791	Abrasive product manufacturing .....	4	16	5	357	11 543	304	674	8 961	22 097	18 481	40 615	D
327910	Abrasive product manufacturing .....	4	16	5	357	11 543	304	674	8 961	22 097	18 481	40 615	D
32799	All other nonmetallic mineral product manufacturing .....	4	61	12	924	28 685	635	1 275	18 506	65 624	81 117	146 473	D
327991	Cut stone and stone product manufacturing .....	4	35	5	315	8 746	226	376	6 305	15 840	7 093	22 632	D
327999	All other miscellaneous nonmetallic mineral product manufacturing .....	5	21	5	446	14 880	294	654	8 954	40 744	61 318	102 161	D
331	Primary metal manufacturing .....	1	214	114	10 831	388 276	8 577	17 825	259 457	1 001 311	1 267 961	2 271 222	54 924
3312	Steel product manufacturing from purchased steel .....	1	30	19	2 125	88 107	1 717	3 499	61 731	291 951	349 785	631 675	D
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	—	5	5	f	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	—	5	5	f	D	D	D	D	D	D	D	D
33122	Rolling and drawing of purchased steel .....	1	25	14	g	D	D	D	D	D	D	D	D
331222	Steel wire drawing .....	1	21	13	g	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing .....	—	25	14	2 140	71 127	1 669	3 481	47 462	149 571	388 614	540 070	15 905
33131	Alumina and aluminum production and processing .....	—	25	14	2 140	71 127	1 669	3 481	47 462	149 571	388 614	540 070	15 905
331315	Aluminum sheet, plate, and foil manufacturing .....	—	4	3	e	D	D	D	D	D	D	D	1 541
331316	Aluminum extruded product manufacturing .....	—	10	7	f	D	D	D	D	D	D	D	D
331319	Other aluminum rolling and drawing .....	—	6	2	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production and processing .....	1	'30	'12	g	D	D	D	D	D	D	D	D
33141	Nonferrous metal (except aluminum) smelting and refining .....	—	'8	'5	e	D	D	D	D	D	D	D	D
331419	Primary smelting and refining of nonferrous metal (except copper and aluminum) .....	—	'8	'5	e	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, and alloying .....	1	7	2	e	D	D	D	D	D	D	D	D
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying .....	'2	'15	'5	'553	'24 338	'360	'791	'14 364	'94 228	'100 965	'194 407	D
331492	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum) .....	'2	'9	'4	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Los Angeles-Long Beach-Glendale, CA Metropolitan Division—Con.</b>												
332	Fabricated metal product manufacturing—Con.												
3326	Spring and wire product manufacturing .....	'2	'81	21	'1 728	'48 833	'1 399	'2 745	'31 940	'111 112	'105 406	'216 778	'4 259
33261	Spring and wire product manufacturing .....	'2	'81	21	'1 728	'48 833	'1 399	'2 745	'31 940	'111 112	'105 406	'216 778	'4 259
332612	Spring (light gauge) manufacturing .....	–	14	5	f	D	D	D	D	D	D	D	D
332618	Other fabricated wire product manufacturing .....	4	'63	15	'1 155	'32 646	'951	'1 922	'21 181	'71 526	'64 885	'135 719	'3 333
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	'1 085	193	'15 619	'609 738	'11 752	'23 196	'404 215	'1 293 063	'547 734	'1 819 879	'63 878
33271	Machine shops .....	3	'887	119	'9 142	'356 592	'7 139	'13 724	'250 346	'695 266	'266 092	'955 472	'43 475
332710	Machine shops .....	3	'887	119	'9 142	'356 592	'7 139	'13 724	'250 346	'695 266	'266 092	'955 472	'43 475
33272	Turned product and screw, nut, and bolt manufacturing .....	1	198	74	'6 477	'253 146	'4 613	'9 472	'153 869	'597 797	'281 642	'864 407	20 403
332721	Precision turned product manufacturing .....	1	'127	'38	'2 555	'85 836	'1 881	'3 538	'55 716	'183 542	'53 598	'234 521	7 348
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	2	'71	'36	'3 922	'167 310	'2 732	'5 934	'98 153	'414 255	'228 044	'629 886	13 055
3328	Coating, engraving, heat treating, and allied activities .....	1	457	157	9 769	295 612	7 732	15 144	198 715	593 521	246 542	843 160	30 829
33281	Coating, engraving, heat treating, and allied activities ..	1	457	157	9 769	295 612	7 732	15 144	198 715	593 521	246 542	843 160	30 829
332811	Metal heat treating .....	1	48	26	1 363	48 696	1 053	2 237	32 642	107 813	22 486	130 307	5 099
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	1	135	47	2 387	80 380	1 828	3 455	49 312	173 163	97 386	271 923	7 530
332813	Electroplating, plating, polishing, anodizing, and coloring .....	2	274	84	6 019	166 536	4 851	9 452	116 761	312 545	126 670	440 930	18 200
3329	Other fabricated metal product manufacturing .....	1	'299	94	'9 718	'407 442	'6 607	'12 429	'219 679	'999 212	'619 114	'1 628 763	'27 674
33291	Metal valve manufacturing ....	–	74	39	5 103	244 994	3 200	6 105	121 337	594 780	333 717	938 745	17 298
332911	Industrial valve manufacturing .....	–	18	9	974	55 232	560	1 055	24 727	162 401	85 585	248 411	4 653
332912	Fluid power valve and hose fitting manufacturing .....	–	34	18	2 795	141 016	1 721	3 300	71 612	324 121	154 946	484 142	9 901
332913	Plumbing fixture fitting and trim manufacturing .....	1	16	11	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	2	'225	55	'4 615	'162 448	'3 407	'6 324	'98 342	'404 432	'285 397	'690 018	'10 376
332991	Ball and roller bearing manufacturing .....	4	5	2	485	18 173	423	827	14 713	48 547	15 051	63 533	D
332996	Fabricated pipe and pipe fitting manufacturing .....	2	37	9	600	20 866	456	905	12 364	41 647	29 548	71 243	1 338
332998	Enameled iron and metal sanitary ware manufacturing .....	–	10	6	1 339	45 205	993	1 616	24 808	139 956	98 033	238 265	2 209
332999	All other miscellaneous fabricated metal product manufacturing .....	2	'142	37	'2 031	'70 941	'1 435	'2 785	'41 876	'156 039	'131 864	'287 842	'5 234
333	Machinery manufacturing .....	2	'846	230	'20 599	'868 607	'13 292	'25 587	'446 602	'1 868 970	'1 355 286	'3 237 006	'88 812
3331	Agriculture, construction, and mining machinery manufacturing .....	2	34	10	f	D	D	D	D	D	D	D	2 396
33311	Agricultural implement manufacturing .....	1	7	3	f	D	D	D	D	D	D	D	D
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing ..	–	2	2	e	D	D	D	D	D	D	D	D
33312	Construction machinery manufacturing .....	4	16	4	265	11 173	186	399	7 853	14 060	19 908	33 737	D
333120	Construction machinery manufacturing .....	4	16	4	265	11 173	186	399	7 853	14 060	19 908	33 737	D
3332	Industrial machinery manufacturing .....	3	134	30	3 009	132 369	1 666	3 306	56 115	232 512	167 452	407 909	8 798
33329	Other industrial machinery manufacturing .....	3	103	27	2 749	122 095	1 498	2 993	51 613	203 633	150 481	361 919	7 098
333294	Food product machinery manufacturing .....	4	23	9	719	26 688	470	973	15 218	48 354	34 857	83 126	1 170
333295	Semiconductor machinery manufacturing .....	4	11	5	492	20 025	249	499	8 378	27 187	30 663	56 394	813
333298	All other industrial machinery manufacturing .....	2	46	11	1 333	68 873	650	1 308	24 963	114 953	75 709	200 054	3 781

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Los Angeles-Long Beach-Glendale, CA Metropolitan Division—Con.</b>												
333	Machinery manufacturing—Con.												
3333	Commercial and service industry machinery manufacturing .....	1	124	46	3 511	160 169	2 324	4 444	86 398	433 434	293 355	727 198	27 352
33331	Commercial and service industry machinery manufacturing .....	1	124	46	3 511	160 169	2 324	4 444	86 398	433 434	293 355	727 198	27 352
333314	Optical instrument and lens manufacturing .....	—	21	10	f	D	D	D	D	D	D	D	D
333315	Photographic and photocopying equipment manufacturing .....	1	32	7	f	D	D	D	D	D	D	D	D
333319	Other commercial and service industry machinery manufacturing .....	2	61	26	1 924	74 496	1 314	2 433	36 066	227 738	189 591	420 167	6 314
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	51	25	1 842	66 948	1 445	2 850	43 504	161 586	117 946	279 703	5 221
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	51	25	1 842	66 948	1 445	2 850	43 504	161 586	117 946	279 703	5 221
333414	Heating equipment (except warm air furnaces) manufacturing .....	1	10	4	484	18 012	360	772	9 646	42 836	30 176	73 691	1 207
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	1	30	14	962	32 599	796	1 489	23 643	85 152	71 961	157 131	2 658
3335	Metalworking machinery manufacturing .....	2	274	47	3 831	162 652	2 640	5 051	94 156	311 180	177 720	478 819	17 604
33351	Metalworking machinery manufacturing .....	2	274	47	3 831	162 652	2 640	5 051	94 156	311 180	177 720	478 819	17 604
333511	Industrial mold manufacturing .....	2	82	15	1 279	57 032	988	1 845	39 128	106 542	38 841	143 269	5 419
333512	Machine tool (metal cutting types) manufacturing .....	—	11	4	e	D	D	D	D	D	D	D	D
333514	Special die and tool, die set, jig, and fixture manufacturing .....	2	99	12	1 000	40 859	701	1 345	23 491	73 258	40 830	113 652	2 748
333515	Cutting tool and machine tool accessory manufacturing .....	2	66	10	764	27 769	575	1 038	17 554	62 938	24 735	87 895	7 443
3336	Engine, turbine, and power transmission equipment manufacturing .....	6	30	12	g	D	D	D	D	D	D	D	10 858
33361	Engine, turbine, and power transmission equipment manufacturing .....	6	30	12	g	D	D	D	D	D	D	D	10 858
333611	Turbine and turbine generator set units manufacturing .....	7	2	2	e	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment manufacturing .....	1	10	4	e	D	D	D	D	D	D	D	D
333618	Other engine equipment manufacturing .....	5	16	6	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	2	'199	60	'6 013	'248 541	'3 653	'6 703	'115 913	'532 950	'448 933	'994 201	'16 583
33391	Pump and compressor manufacturing .....	3	33	9	965	34 885	627	984	14 527	97 950	102 206	201 011	D
333911	Pump and pumping equipment manufacturing ..	2	19	7	f	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	1	39	14	1 288	47 794	710	1 467	21 301	105 302	124 999	230 907	D
333922	Conveyor and conveying equipment manufacturing ..	—	13	5	f	D	D	D	D	D	D	D	1 136
333924	Industrial truck, tractor, trailer, and stacker machinery manufacturing ..	1	11	3	e	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	1	'127	37	'3 760	'165 862	'2 316	'4 252	'80 085	'329 698	'221 728	'562 283	'10 794
333992	Welding and soldering equipment manufacturing ..	—	9	4	464	24 950	224	357	7 787	51 864	32 438	86 036	580
333993	Packaging machinery manufacturing .....	—	22	6	792	40 379	453	965	19 548	72 512	32 728	108 468	2 593
333995	Fluid power cylinder and actuator manufacturing ....	2	17	5	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Los Angeles-Long Beach-Glendale, CA Metropolitan Division—Con.</b>												
333	Machinery manufacturing—Con.												
3339	Other general purpose machinery manufacturing—Con.												
33399	All other general purpose machinery manufacturing—Con.												
333996	Fluid power pump and motor manufacturing .....	—	5	3	e	D	D	D	D	D	D	D	1 058
333999	All other miscellaneous general purpose machinery manufacturing .....	2	'54	13	'1 104	'44 088	'690	'1 282	'21 974	'87 770	'75 523	'165 715	'3 339
334	Computer and electronic product manufacturing .....	1	771	316	53 027	2 876 679	23 191	45 188	799 025	7 468 878	3 877 454	11 385 013	477 500
3341	Computer and peripheral equipment manufacturing .....	4	73	18	1 670	78 856	821	1 669	21 767	196 098	158 646	357 786	11 138
33411	Computer and peripheral equipment manufacturing ....	4	73	18	1 670	78 856	821	1 669	21 767	196 098	158 646	357 786	11 138
334111	Electronic computer manufacturing .....	4	24	2	f	D	D	D	D	D	D	D	1 321
334119	Other computer peripheral equipment manufacturing ..	3	38	13	f	D	D	D	D	D	D	D	6 612
3342	Communications equipment manufacturing .....	—	103	49	11 653	688 026	2 408	4 721	73 881	1 894 909	1 095 512	2 819 898	D
33421	Telephone apparatus manufacturing .....	—	19	9	1 302	69 935	536	917	17 407	373 310	278 867	652 911	D
334210	Telephone apparatus manufacturing .....	—	19	9	1 302	69 935	536	917	17 407	373 310	278 867	652 911	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	62	31	i	D	D	D	D	D	D	D	70 490
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	62	31	i	D	D	D	D	D	D	D	70 490
33429	Other communications equipment manufacturing ....	6	22	9	f	D	D	D	D	D	D	D	D
334290	Other communications equipment manufacturing ..	6	22	9	f	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing .....	1	49	15	1 715	63 728	1 047	2 121	25 945	141 264	203 081	323 462	D
33431	Audio and video equipment manufacturing .....	1	49	15	1 715	63 728	1 047	2 121	25 945	141 264	203 081	323 462	D
334310	Audio and video equipment manufacturing .....	1	49	15	1 715	63 728	1 047	2 121	25 945	141 264	203 081	323 462	D
3344	Semiconductor and other electronic component manufacturing .....	2	254	124	13 218	543 011	9 093	18 079	284 640	1 016 067	543 548	1 564 152	94 549
33441	Semiconductor and other electronic component manufacturing .....	2	254	124	13 218	543 011	9 093	18 079	284 640	1 016 067	543 548	1 564 152	94 549
334412	Bare printed circuit board manufacturing .....	1	45	17	1 730	64 857	1 510	2 995	50 186	98 359	74 145	183 505	3 055
334413	Semiconductor and related device manufacturing .....	2	52	22	4 196	225 184	2 383	4 657	97 233	384 411	162 534	532 400	66 120
334414	Electronic capacitor manufacturing .....	4	12	7	800	23 845	682	1 311	15 740	40 655	20 809	61 847	D
334416	Electronic coil, transformer, and other inductor manufacturing .....	2	18	9	422	10 858	336	606	7 237	18 244	10 866	29 569	265
334417	Electronic connector manufacturing .....	—	23	18	2 396	94 635	1 705	3 625	54 035	231 435	106 292	343 345	8 639
334418	Printed circuit assembly (electronic assembly) manufacturing .....	4	23	15	1 165	37 425	777	1 632	18 517	78 007	93 955	170 556	5 057
334419	Other electronic component manufacturing .....	2	74	32	2 151	76 061	1 463	2 973	38 010	148 307	65 979	217 147	9 453
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	198	84	20 721	1 359 466	6 879	13 019	308 166	3 835 172	1 656 029	5 714 694	220 549

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Los Angeles-Long Beach-Glendale, CA Metropolitan Division—Con.</b>												
334	Computer and electronic product manufacturing—Con.												
3345	Navigational, measuring, electromedical, and control instruments manufacturing—Con.												
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	198	84	20 721	1 359 466	6 879	13 019	308 166	3 835 172	1 656 029	5 714 694	220 549
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	—	15	6	2 099	114 115	1 017	1 408	34 626	666 194	226 928	905 839	22 060
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing ...	—	40	20	12 943	929 368	3 097	5 871	173 632	2 487 687	1 084 477	3 761 271	80 522
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use ...	—	5	3	e	D	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables ...	—	36	10	1 248	59 378	646	1 311	21 867	116 633	53 253	169 641	2 294
334515	Instrument manufacturing for measuring and testing electricity and electrical signals ...	—	36	15	1 802	140 084	583	1 249	28 667	275 442	100 209	403 913	99 938
334516	Analytical laboratory instrument manufacturing ...	5	16	6	362	16 872	200	407	6 412	42 747	26 988	69 079	2 238
334517	Irradiation apparatus manufacturing ...	4	8	5	e	D	D	D	D	D	D	D	D
334518	Watch, clock, and part manufacturing ...	—	6	4	e	D	D	D	D	D	D	D	D
334519	Other measuring and controlling device manufacturing ...	2	30	13	1 138	51 143	642	1 359	21 055	99 853	46 143	143 960	6 334
3346	Manufacturing and reproducing magnetic and optical media ...	1	94	26	4 050	143 592	2 943	5 579	84 626	385 368	220 638	605 021	58 697
33461	Manufacturing and reproducing magnetic and optical media ...	1	94	26	4 050	143 592	2 943	5 579	84 626	385 368	220 638	605 021	58 697
334611	Software reproducing ...	—	9	2	297	10 345	250	339	7 438	33 271	17 798	51 069	D
334612	Prerecorded compact disc (except software), tape, and record reproducing ...	—	70	22	3 293	112 825	2 421	4 683	65 792	306 329	181 300	487 123	55 015
334613	Magnetic and optical recording media manufacturing ...	1	15	2	460	20 422	272	557	11 396	45 768	21 540	66 829	D
335	Electrical equipment, appliance, and component manufacturing ...	1	324	143	13 751	485 127	9 422	18 770	253 949	1 125 898	930 843	2 069 069	61 700
3351	Electric lighting equipment manufacturing ...	1	122	53	h	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing ...	1	117	51	4 604	141 171	3 208	6 251	73 326	354 078	252 552	608 080	10 387
335121	Residential electric lighting fixture manufacturing ...	1	51	19	1 654	37 842	1 301	2 378	23 946	88 535	98 840	188 726	3 023
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing ...	1	34	16	1 035	38 819	635	1 178	14 698	88 566	53 659	140 799	2 610
335129	Other lighting equipment manufacturing ...	1	32	16	1 915	64 510	1 272	2 695	34 682	176 977	100 053	278 555	4 754
3352	Household appliance manufacturing ...	1	11	5	e	D	D	D	D	D	D	D	D
33522	Major appliance manufacturing ...	—	4	4	427	11 607	293	596	6 691	32 434	44 407	83 238	D
335221	Household cooking appliance manufacturing ...	—	3	3	e	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing ...	2	94	42	3 588	139 673	2 241	4 494	63 100	269 967	204 892	475 498	9 968
33531	Electrical equipment manufacturing ...	2	94	42	3 588	139 673	2 241	4 494	63 100	269 967	204 892	475 498	9 968
335311	Power, distribution, and specialty transformer manufacturing ...	3	14	8	530	19 683	336	696	9 778	38 189	42 698	81 352	1 030
335312	Motor and generator manufacturing ...	4	23	9	786	28 516	510	982	14 926	53 020	45 605	99 398	1 408
335313	Switchgear and switchboard apparatus manufacturing ...	—	18	10	824	33 079	537	1 111	16 239	79 707	62 897	141 922	1 700

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Los Angeles-Long Beach-Glendale, CA Metropolitan Division—Con.</b>												
335	Electrical equipment, appliance, and component manufacturing—Con.												
3353	Electrical equipment manufacturing—Con.												
33531	Electrical equipment manufacturing—Con.												
335314	Relay and industrial control manufacturing .....	1	39	15	1 448	58 395	858	1 705	22 157	99 051	53 692	152 826	5 830
3359	Other electrical equipment and component manufacturing .....	2	97	43	4 942	186 806	3 540	7 147	107 988	448 513	417 535	870 422	39 893
33591	Battery manufacturing .....	2	9	6	f	D	D	D	D	D	D	D	D
335911	Storage battery manufacturing .....	2	8	6	f	D	D	D	D	D	D	D	D
33592	Communication and energy wire and cable manufacturing .	1	18	9	f	D	D	D	D	D	D	D	8 116
335929	Other communication and energy wire manufacturing .	1	15	9	788	25 923	624	1 213	15 522	52 334	135 796	189 705	D
33593	Wiring device manufacturing...	1	23	9	1 343	54 336	983	1 998	33 982	171 125	104 287	275 291	D
335931	Current-carrying wiring device manufacturing .....	3	15	4	754	29 927	521	1 022	16 573	78 504	29 801	110 292	D
335932	Noncurrent-carrying wiring device manufacturing .....	—	8	5	589	24 409	462	976	17 409	92 621	74 486	164 999	5 180
33599	All other electrical equipment and component manufacturing .....	3	47	19	1 971	76 175	1 256	2 623	35 981	159 063	88 126	245 892	21 650
335999	All other miscellaneous electrical equipment and component manufacturing ..	3	46	18	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	496	212	59 784	3 456 334	30 270	61 422	1 332 235	8 373 540	5 390 887	13 670 413	398 973
3362	Motor vehicle body and trailer manufacturing .....	1	45	24	2 506	68 973	2 059	3 818	47 149	140 377	199 431	341 126	D
33621	Motor vehicle body and trailer manufacturing .....	1	45	24	2 506	68 973	2 059	3 818	47 149	140 377	199 431	341 126	D
336211	Motor vehicle body manufacturing .....	2	30	13	f	D	D	D	D	D	D	D	D
336213	Motor home manufacturing ..	—	2	1	e	D	D	D	D	D	D	D	D
336214	Travel trailer and camper manufacturing .....	—	11	8	1 134	29 810	950	2 077	20 000	67 623	81 198	149 586	1 996
3363	Motor vehicle parts manufacturing .....	2	253	101	13 939	464 372	11 317	23 282	316 911	1 052 394	1 281 643	2 326 135	98 892
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	3	70	20	2 128	74 551	1 711	3 017	49 706	130 810	126 660	254 126	24 098
336311	Carburetor, piston, piston ring, and valve manufacturing .....	1	17	8	622	15 529	514	966	9 599	31 463	13 156	45 673	D
336312	Gasoline engine and engine parts manufacturing .....	4	53	12	1 506	59 022	1 197	2 051	40 107	99 347	113 504	208 453	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	2	33	15	1 401	44 221	1 196	2 454	27 508	98 249	129 006	226 272	8 746
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	2	29	14	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	1	20	4	379	11 304	328	758	8 568	31 378	67 074	98 154	1 193
336350	Motor vehicle transmission and power train parts manufacturing .....	1	20	4	379	11 304	328	758	8 568	31 378	67 074	98 154	1 193
33636	Motor vehicle seating and interior trim manufacturing...	1	22	7	1 181	36 965	852	1 758	21 559	64 053	65 599	130 928	2 733
336360	Motor vehicle seating and interior trim manufacturing..	1	22	7	1 181	36 965	852	1 758	21 559	64 053	65 599	130 928	2 733
33637	Motor vehicle metal stamping ..	5	14	7	1 428	32 700	1 193	2 446	24 368	57 428	62 860	119 849	4 286
336370	Motor vehicle metal stamping .....	5	14	7	1 428	32 700	1 193	2 446	24 368	57 428	62 860	119 849	4 286
33639	Other motor vehicle parts manufacturing .....	2	79	40	7 143	252 089	5 819	12 419	176 770	645 559	804 914	1 446 388	56 994
336399	All other motor vehicle parts manufacturing .....	2	76	40	i	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	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Los Angeles-Long Beach-Glendale, CA Metropolitan Division—Con.</b>												
336	Transportation equipment manufacturing—Con.												
3364	Aerospace product and parts manufacturing .....	—	134	72	41 666	2 849 281	15 829	32 271	930 885	7 069 475	3 771 850	10 756 033	292 458
33641	Aerospace product and parts manufacturing .....	—	134	72	41 666	2 849 281	15 829	32 271	930 885	7 069 475	3 771 850	10 756 033	292 458
336411	Aircraft manufacturing .....	—	14	7	j	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing .....	1	18	7	f	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	—	89	48	15 944	1 115 896	6 306	12 992	341 118	2 674 154	1 187 975	4 020 591	D
336414	Guided missile and space vehicle manufacturing .....	—	2	2	i	D	D	D	D	D	D	D	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing .....	—	3	3	h	D	D	D	D	D	D	D	D
336419	Other guided missile and space vehicle parts and auxiliary equipment manufacturing .....	1	8	5	f	D	D	D	D	D	D	D	D
3366	Ship and boat building .....	2	22	4	e	D	D	D	D	D	D	D	823
33661	Ship and boat building .....	2	22	4	e	D	D	D	D	D	D	D	823
336612	Boat building .....	—	9	3	333	9 118	296	595	7 478	13 467	18 115	31 582	D
3369	Other transportation equipment manufacturing .....	2	34	9	1 092	54 905	565	1 114	22 366	71 587	68 500	137 949	1 933
33699	Other transportation equipment manufacturing .....	2	34	9	1 092	54 905	565	1 114	22 366	71 587	68 500	137 949	1 933
336991	Motorcycle, bicycle, and parts manufacturing .....	2	24	6	472	17 226	337	621	9 909	47 439	42 120	89 519	1 230
336992	Military armored vehicle, tank, and tank component manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	3	'1 065	'290	'29 651	'792 267	'23 532	'44 855	'532 438	'1 854 514	'1 426 859	'3 278 460	'48 666
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	'792	'181	'20 344	'514 391	'16 727	'31 221	'365 573	'1 109 586	'876 029	'1 986 643	'30 864
33711	Wood kitchen cabinet and countertop manufacturing .....	5	260	30	3 937	108 727	2 967	5 507	72 003	199 965	119 135	318 804	6 660
337110	Wood kitchen cabinet and countertop manufacturing .....	5	260	30	3 937	108 727	2 967	5 507	72 003	199 965	119 135	318 804	6 660
33712	Household and institutional furniture manufacturing .....	3	'532	'151	'16 407	'405 664	'13 760	'25 714	'293 570	'909 621	'756 894	'1 667 839	'24 204
337121	Upholstered household furniture manufacturing .....	2	171	56	6 106	149 568	5 298	9 756	113 907	'317 696	'313 236	'631 320	6 325
337122	Nonupholstered wood household furniture manufacturing .....	4	'247	'57	'5 939	'135 502	'5 128	'9 399	'102 122	'296 426	'230 997	'529 707	'10 729
337124	Metal household furniture manufacturing .....	2	40	23	2 709	70 460	2 138	4 190	48 796	181 933	125 545	308 448	3 149
337127	Institutional furniture manufacturing .....	4	46	11	1 419	43 684	993	1 976	24 462	101 931	75 343	174 964	3 656
3372	Office furniture (including fixtures) manufacturing .....	2	'206	'82	'6 143	'188 429	'4 687	'9 402	'117 410	'450 622	'294 293	'744 163	'10 667
33721	Office furniture (including fixtures) manufacturing .....	2	'206	'82	'6 143	'188 429	'4 687	'9 402	'117 410	'450 622	'294 293	'744 163	'10 667
337211	Wood office furniture manufacturing .....	1	29	17	g	D	D	D	D	D	D	D	D
337212	Custom architectural woodwork and millwork manufacturing .....	2	'42	'18	'1 310	'43 625	'889	'1 758	'28 340	'85 632	'55 219	'143 030	'3 038
337214	Office furniture (except wood) manufacturing .....	2	26	11	g	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing .....	2	109	36	2 533	76 813	1 863	3 577	39 163	168 586	125 143	290 813	3 603
3379	Other furniture related product manufacturing .....	2	67	27	3 164	89 447	2 118	4 232	49 455	294 306	256 537	547 654	7 135
33791	Mattress manufacturing .....	1	42	18	1 535	47 454	1 243	2 496	32 648	195 060	172 350	365 365	D
337910	Mattress manufacturing .....	1	42	18	1 535	47 454	1 243	2 496	32 648	195 060	172 350	365 365	D
33792	Blind and shade manufacturing .....	3	25	9	1 629	41 993	875	1 736	16 807	99 246	84 187	182 289	D
337920	Blind and shade manufacturing .....	3	25	9	1 629	41 993	875	1 736	16 807	99 246	84 187	182 289	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Santa Ana-Anaheim-Irvine, CA Metropolitan Division—Con.</b>												
315	Apparel manufacturing—Con.												
3152	Cut and sew apparel manufacturing .....	1	303	57	8 925	209 448	7 122	12 016	126 455	501 091	633 102	1 143 470	D
31521	Cut and sew apparel contractors .....	6	217	21	2 282	36 319	2 051	3 613	28 545	68 417	11 505	77 445	643
315211	Men's and boys' cut and sew apparel contractors .....	4	28	6	396	6 354	368	643	5 482	11 533	850	12 553	256
315212	Women's, girls', and infants' cut and sew apparel contractors .....	6	189	15	1 886	29 965	1 683	2 970	23 063	56 884	10 655	64 892	387
31522	Men's and boys' cut and sew apparel manufacturing .....	1	24	11	1 893	36 636	1 591	1 300	27 246	94 898	156 724	250 037	D
315223	Men's and boys' cut and sew shirt (except work shirt) manufacturing .....	—	11	6	g	D	D	D	D	D	D	D	D
315228	Men's and boys' cut and sew other outerwear manufacturing .....	5	7	5	f	D	D	D	D	D	D	D	295
31523	Women's and girls' cut and sew apparel manufacturing .....	—	52	21	4 485	129 641	3 269	6 716	66 437	326 275	458 034	797 094	11 601
315232	Women's and girls' cut and sew blouse and shirt manufacturing .....	5	12	3	616	15 757	410	671	6 383	31 416	29 477	61 161	D
315233	Women's and girls' cut and sew dress manufacturing .....	—	7	3	g	D	D	D	D	D	D	D	D
315239	Women's and girls' cut and sew other outerwear manufacturing .....	—	28	14	g	D	D	D	D	D	D	D	D
31529	Other cut and sew apparel manufacturing .....	3	10	4	265	6 852	211	387	4 227	11 501	6 839	18 894	D
316	Leather and allied product manufacturing .....	7	23	6	f	D	D	D	D	D	D	D	D
3169	Other leather and allied product manufacturing .....	8	15	3	404	10 695	322	617	5 545	22 833	17 138	40 887	D
31699	Other leather and allied product manufacturing .....	8	15	3	404	10 695	322	617	5 545	22 833	17 138	40 887	D
316991	Luggage manufacturing .....	8	6	3	329	8 904	260	492	4 387	19 469	14 542	34 938	D
321	Wood product manufacturing .....	4	113	31	2 383	62 030	1 586	3 142	36 072	119 327	139 413	258 616	4 477
3212	Veneer, plywood, and engineered wood product manufacturing .....	4	10	4	e	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	4	10	4	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	5	101	27	2 114	54 257	1 367	2 701	30 839	102 073	102 623	204 649	3 775
32191	Millwork .....	5	62	15	1 555	40 910	919	1 804	21 892	75 458	78 701	154 177	2 866
321911	Wood window and door manufacturing .....	4	22	8	853	23 565	465	896	11 124	40 985	43 824	84 993	2 091
321918	Other millwork (including flooring) .....	6	31	5	567	13 263	352	681	7 965	28 778	29 701	58 253	629
32199	All other wood product manufacturing .....	4	25	7	322	8 735	262	508	5 721	18 500	15 066	33 506	606
322	Paper manufacturing .....	2	72	38	3 896	176 980	2 954	6 301	116 829	489 989	700 059	1 278 567	60 370
3221	Pulp, paper, and paperboard mills .....	9	1	1	e	D	D	D	D	D	D	D	D
32212	Paper mills .....	9	1	1	e	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	9	1	1	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	—	71	37	h	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	—	31	22	2 478	114 669	1 868	4 140	73 709	211 168	486 092	778 866	D
322211	Corrugated and solid fiber box manufacturing .....	—	25	17	1 855	83 898	1 337	2 961	49 391	121 625	379 196	586 264	20 947
322212	Folding paperboard box manufacturing .....	—	4	4	f	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing .....	2	17	6	402	14 935	264	550	7 707	35 288	59 508	95 162	1 933
322222	Coated and laminated paper manufacturing .....	3	13	4	266	9 882	145	296	3 668	24 454	35 802	60 739	1 799
32223	Stationery product manufacturing .....	—	15	6	f	D	D	D	D	D	D	D	407
322231	Die-cut paper and paperboard office supplies manufacturing .....	2	8	4	319	10 622	251	491	7 454	10 334	15 051	28 085	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b> <b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b> <b>Santa Ana-Anaheim-Irvine, CA Metropolitan Division—Con.</b>													
323	Printing and related support activities .....	1	666	121	11 437	400 298	8 463	15 871	249 843	874 641	499 120	1 378 196	44 701
3231	Printing and related support activities .....	1	666	121	11 437	400 298	8 463	15 871	249 843	874 641	499 120	1 378 196	44 701
32311	Printing .....	1	600	113	10 335	355 953	7 608	14 185	220 169	810 134	484 312	1 299 204	42 366
323110	Commercial lithographic printing .....	—	246	59	4 975	200 509	3 440	6 652	118 775	463 438	299 184	765 224	27 496
323111	Commercial gravure printing ..	—	5	1	313	8 152	295	401	6 234	26 040	13 832	40 585	487
323112	Commercial flexographic printing .....	1	25	7	649	24 467	417	922	14 005	61 860	35 749	97 962	2 739
323113	Commercial screen printing ..	1	92	29	2 611	62 972	2 210	4 008	44 471	120 567	67 480	189 265	5 061
323114	Quick printing .....	3	155	13	675	18 708	473	843	11 510	47 431	20 190	67 605	1 204
323115	Digital printing .....	1	28	5	374	14 911	272	439	10 361	33 401	14 414	47 842	3 737
323116	Manifold business forms printing .....	2	10	4	281	10 895	207	358	6 771	21 080	14 148	35 375	469
323119	Other commercial printing ...	4	27	3	262	8 908	178	314	4 947	18 499	12 566	30 832	565
32312	Support activities for printing ...	4	66	8	1 102	44 345	855	1 686	29 674	64 507	14 808	78 992	2 335
323122	Prepress services .....	5	47	7	883	38 403	653	1 288	24 632	56 046	12 265	67 988	2 024
325	Chemical manufacturing .....	—	200	65	11 698	462 833	6 608	11 717	192 589	1 433 701	1 086 512	2 539 077	203 151
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing .....	2	15	7	365	14 794	262	611	7 729	35 592	45 882	80 935	1 384
32521	Resin and synthetic rubber manufacturing .....	2	15	7	365	14 794	262	611	7 729	35 592	45 882	80 935	1 384
325211	Plastics material and resin manufacturing .....	—	11	5	314	11 598	230	545	6 253	28 681	33 379	61 551	1 106
3254	Pharmaceutical and medicine manufacturing .....	—	54	25	8 589	329 576	4 851	8 190	133 435	888 904	542 128	1 448 220	164 219
32541	Pharmaceutical and medicine manufacturing .....	—	54	25	8 589	329 576	4 851	8 190	133 435	888 904	542 128	1 448 220	164 219
325411	Medicinal and botanical manufacturing .....	—	9	3	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	—	34	17	7 414	272 747	4 141	6 735	106 271	654 108	449 454	1 126 937	152 743
325413	In-vitro diagnostic substance manufacturing .....	—	10	5	613	32 458	358	659	14 667	144 427	29 521	170 537	D
3255	Paint, coating, and adhesive manufacturing .....	—	31	13	993	46 233	553	1 038	20 673	272 600	200 172	472 715	8 557
32551	Paint and coating manufacturing .....	—	20	10	817	37 486	455	838	17 416	245 256	179 027	424 409	8 100
325510	Paint and coating manufacturing .....	—	20	10	817	37 486	455	838	17 416	245 256	179 027	424 409	8 100
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	2	44	9	668	24 159	325	670	8 944	141 732	127 015	272 747	3 587
32561	Soap and cleaning compound manufacturing .....	3	21	6	454	12 841	243	512	6 734	50 933	61 601	118 950	2 719
3259	Other chemical product and preparation manufacturing .....	3	36	10	903	39 239	523	1 026	17 782	72 479	148 060	218 402	24 105
32599	All other chemical product and preparation manufacturing ...	3	30	8	840	36 833	477	931	16 265	64 968	139 368	201 705	23 942
325992	Photographic film, paper, plate, and chemical manufacturing .....	—	8	2	441	19 652	224	487	7 253	S	75 218	72 429	D
326	Plastics and rubber products manufacturing .....	1	265	137	15 566	500 250	11 248	23 131	283 503	1 382 505	1 032 746	2 413 859	73 835
3261	Plastics product manufacturing ..	1	239	125	13 709	444 518	9 875	20 418	250 265	1 262 689	949 901	2 212 823	66 978
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	2	17	7	697	28 962	470	970	14 157	73 885	78 172	151 848	4 376
326113	Unlaminated plastics film and sheet (except packaging) manufacturing .....	—	9	3	458	20 865	272	567	8 469	49 930	54 390	104 076	3 434
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing .....	1	21	11	f	D	D	D	D	D	D	D	D
326121	Unlaminated plastics profile shape manufacturing .....	2	14	7	452	17 063	382	719	12 578	43 338	29 561	73 881	2 234
326122	Plastics pipe and pipe fitting manufacturing .....	—	7	4	e	D	D	D	D	D	D	D	D
32614	Polystyrene foam product manufacturing .....	2	11	4	493	15 883	397	843	12 154	53 889	77 225	133 284	4 161
326140	Polystyrene foam product manufacturing .....	2	11	4	493	15 883	397	843	12 154	53 889	77 225	133 284	4 161

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Santa Ana-Anaheim-Irvine, CA Metropolitan Division—Con.</b>												
326	Plastics and rubber products manufacturing—Con.												
3261	Plastics product manufacturing—Con.												
32615	Urethane and other foam product (except polystyrene) manufacturing .....	2	17	9	745	19 666	571	1 272	11 296	45 113	50 951	95 990	4 017
326150	Urethane and other foam product (except polystyrene) manufacturing .....	2	17	9	745	19 666	571	1 272	11 296	45 113	50 951	95 990	4 017
32616	Plastics bottle manufacturing ..	1	12	8	947	28 695	597	1 353	18 912	85 978	76 131	161 788	9 189
326160	Plastics bottle manufacturing .....	1	12	8	947	28 695	597	1 353	18 912	85 978	76 131	161 788	9 189
32619	Other plastics product manufacturing .....	1	'159	'85	'9 944	'318 557	'7 086	'14 389	'169 656	'927 154	'592 451	'1 515 282	40 295
326191	Plastics plumbing fixture manufacturing .....	1	'13	'7	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	—	'146	'78	i	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	1	26	12	1 857	55 732	1 373	2 713	33 238	119 816	82 845	201 036	6 857
32629	Other rubber product manufacturing .....	1	19	10	1 731	52 080	1 291	2 546	31 306	108 803	71 104	178 341	5 752
326291	Rubber product manufacturing for mechanical use .....	1	9	7	1 213	38 570	839	1 640	21 877	82 161	41 861	123 053	4 790
326299	All other rubber product manufacturing .....	2	10	3	518	13 510	452	906	9 429	26 642	29 243	55 288	962
327	Nonmetallic mineral product manufacturing .....	3	138	50	3 258	127 835	2 427	4 950	81 006	292 961	280 293	573 337	14 885
3271	Clay product and refractory manufacturing .....	7	16	6	512	19 211	351	671	8 831	43 154	13 078	55 432	D
32711	Pottery, ceramics, and plumbing fixture manufacturing .....	7	11	5	455	16 935	330	642	8 238	38 146	11 343	48 840	D
327112	Vitreous china, fine earthenware, and other pottery product manufacturing .....	7	10	5	e	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing .....	2	36	9	497	17 272	387	725	11 500	37 109	22 119	59 131	1 412
32721	Glass and glass product manufacturing .....	2	36	9	497	17 272	387	725	11 500	37 109	22 119	59 131	1 412
327215	Glass product manufacturing made of purchased glass ..	2	24	8	378	12 821	293	541	8 153	25 155	14 372	39 487	1 128
3273	Cement and concrete product manufacturing .....	4	39	20	1 347	54 072	1 049	2 285	39 968	105 783	143 507	249 400	7 819
32732	Ready-mix concrete manufacturing .....	5	28	13	861	35 717	711	1 555	28 234	77 843	126 276	204 143	5 371
327320	Ready-mix concrete manufacturing .....	5	28	13	861	35 717	711	1 555	28 234	77 843	126 276	204 143	5 371
32739	Other concrete product manufacturing .....	—	8	5	252	8 675	155	343	4 478	13 218	5 047	18 235	1 333
327390	Other concrete product manufacturing .....	—	8	5	252	8 675	155	343	4 478	13 218	5 047	18 235	1 333
3274	Lime and gypsum product manufacturing .....	—	7	3	273	11 424	228	459	8 062	20 488	52 849	74 900	D
32742	Gypsum product manufacturing .....	—	7	3	273	11 424	228	459	8 062	20 488	52 849	74 900	D
327420	Gypsum product manufacturing .....	—	7	3	273	11 424	228	459	8 062	20 488	52 849	74 900	D
3279	Other nonmetallic mineral product manufacturing .....	2	40	12	629	25 856	412	810	12 645	86 427	48 740	134 474	3 095
32799	All other nonmetallic mineral product manufacturing .....	3	33	9	487	19 682	339	654	10 316	64 723	37 079	102 183	D
331	Primary metal manufacturing .....	1	50	14	1 437	50 368	1 148	2 333	30 522	143 661	97 987	240 155	4 415
3313	Alumina and aluminum production and processing .....	1	5	4	501	17 626	387	805	9 634	47 283	38 646	86 102	1 074
33131	Alumina and aluminum production and processing ...	1	5	4	501	17 626	387	805	9 634	47 283	38 646	86 102	1 074
331316	Aluminum extruded product manufacturing .....	—	3	3	e	D	D	D	D	D	D	D	D
3315	Foundries .....	1	23	7	641	20 475	528	1 054	14 227	57 826	30 803	87 451	D
33152	Nonferrous metal foundries .....	—	15	5	491	17 154	399	887	11 989	51 421	23 123	73 331	1 134

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Santa Ana-Anaheim-Irvine, CA Metropolitan Division—Con.</b>												
332	Fabricated metal product manufacturing .....	2	1 057	268	22 887	866 930	17 100	34 357	538 176	1 854 644	945 608	2 812 689	91 387
3321	Forging and stamping.....	2	54	28	2 218	84 221	1 703	3 749	55 046	179 689	132 361	309 699	6 621
33211	Forging and stamping.....	2	54	28	2 218	84 221	1 703	3 749	55 046	179 689	132 361	309 699	6 621
332112	Nonferrous forging .....	-	4	4	740	29 468	620	1 426	20 940	71 355	46 223	115 136	1 994
332116	Metal stamping .....	2	40	16	851	32 447	605	1 293	17 738	60 764	37 177	97 964	2 671
3322	Cutlery and handtool manufacturing .....	1	27	9	493	17 572	350	750	9 885	38 264	21 375	59 690	1 232
33221	Cutlery and handtool manufacturing .....	1	27	9	493	17 572	350	750	9 885	38 264	21 375	59 690	1 232
332212	Hand and edge tool manufacturing .....	1	25	8	e	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	2	173	51	4 390	158 439	3 324	6 710	102 901	369 199	243 787	618 164	14 900
33231	Plate work and fabricated structural product manufacturing .....	2	41	9	730	30 558	549	1 175	20 141	62 419	48 716	110 879	3 972
332312	Fabricated structural metal manufacturing .....	2	29	7	608	26 147	466	1 003	17 380	52 546	41 739	93 731	3 724
33232	Ornamental and architectural metal products manufacturing .....	2	132	42	3 660	127 881	2 775	5 535	82 760	306 780	195 071	507 285	10 928
332321	Metal window and door manufacturing .....	2	16	4	412	13 384	276	567	6 938	28 322	25 329	55 512	339
332322	Sheet metal work manufacturing .....	3	84	31	2 532	84 377	1 982	4 057	56 274	164 807	119 588	289 042	7 424
332323	Ornamental and architectural metal work manufacturing ..	-	32	7	716	30 120	517	911	19 548	113 651	50 154	162 731	3 165
3324	Boiler, tank, and shipping container manufacturing .....	2	7	5	285	10 685	220	455	5 946	25 437	17 470	43 135	1 034
3325	Hardware manufacturing .....	-	16	7	452	18 911	229	485	6 835	58 342	32 573	93 540	2 819
33251	Hardware manufacturing .....	-	16	7	452	18 911	229	485	6 835	58 342	32 573	93 540	2 819
332510	Hardware manufacturing ....	-	16	7	452	18 911	229	485	6 835	58 342	32 573	93 540	2 819
3326	Spring and wire product manufacturing .....	5	26	11	474	14 829	389	767	9 760	32 029	26 817	58 863	1 034
33261	Spring and wire product manufacturing .....	5	26	11	474	14 829	389	767	9 760	32 029	26 817	58 863	1 034
332618	Other fabricated wire product manufacturing .....	6	16	7	359	10 805	298	574	7 099	23 848	23 074	46 952	939
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	518	75	7 452	310 839	5 595	11 235	199 707	642 194	222 445	867 189	36 288
33271	Machine shops .....	3	434	45	3 812	151 871	2 928	5 677	102 943	301 588	126 328	425 778	19 882
332710	Machine shops .....	3	434	45	3 812	151 871	2 928	5 677	102 943	301 588	126 328	425 778	19 882
33272	Turned product and screw, nut, and bolt manufacturing .....	3	84	30	3 640	158 968	2 667	5 558	96 764	340 606	96 117	441 411	16 406
332721	Precision turned product manufacturing .....	1	61	17	901	31 820	691	1 379	21 982	71 212	21 737	92 741	6 931
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	4	23	13	2 739	127 148	1 976	4 179	74 782	269 394	74 380	348 670	9 475
3328	Coating, engraving, heat treating, and allied activities .....	3	136	52	3 581	110 092	2 907	5 825	72 430	186 918	79 735	267 807	7 708
33281	Coating, engraving, heat treating, and allied activities ..	3	136	52	3 581	110 092	2 907	5 825	72 430	186 918	79 735	267 807	7 708
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	4	46	13	757	25 278	604	1 147	17 189	41 102	23 110	64 203	1 154
332813	Electroplating, plating, polishing, anodizing, and coloring .....	2	84	36	2 685	79 966	2 196	4 442	52 453	134 732	54 222	190 016	6 321
3329	Other fabricated metal product manufacturing .....	1	100	30	3 542	141 342	2 383	4 381	75 666	322 572	169 045	494 602	19 751
33291	Metal valve manufacturing ....	-	22	9	1 967	84 465	1 250	2 239	41 371	191 585	88 062	282 615	11 140
332911	Industrial valve manufacturing .....	-	10	3	825	42 032	427	643	14 901	115 689	60 713	177 897	7 415
332912	Fluid power valve and hose fitting manufacturing .....	-	7	4	876	33 210	633	1 219	20 736	63 324	15 485	80 140	3 217
332913	Plumbing fixture fitting and trim manufacturing .....	1	3	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.**

[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 <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Santa Ana-Anaheim-Irvine, CA Metropolitan Division—Con.</b>												
332	Fabricated metal product manufacturing—Con.												
3329	Other fabricated metal product manufacturing—Con.												
33299	All other fabricated metal product manufacturing . . . . .	2	78	21	1 575	56 877	1 133	2 142	34 295	130 987	80 983	211 987	8 611
332999	All other miscellaneous fabricated metal product manufacturing . . . . .	1	52	13	1 063	37 958	792	1 446	24 326	84 063	61 444	145 187	5 973
333	Machinery manufacturing . . . . .	1	'384	'111	'13 008	'512 066	'8 028	'15 364	'248 902	'1 143 911	'1 015 478	'2 165 781	89 880
3331	Agriculture, construction, and mining machinery manufacturing . . . . .	—	9	2	e	D	D	D	D	D	D	D	1 889
33313	Mining and oil and gas field machinery manufacturing . . . . .	—	3	1	e	D	D	D	D	D	D	D	D
333132	Oil and gas field machinery and equipment manufacturing . . . . .	—	3	1	e	D	D	D	D	D	D	D	D
3332	Industrial machinery manufacturing . . . . .	4	60	16	1 212	52 944	745	1 550	24 778	119 366	80 682	204 984	4 961
33329	Other industrial machinery manufacturing . . . . .	4	48	15	1 152	50 245	707	1 477	23 599	114 229	77 080	196 245	4 733
333293	Printing machinery and equipment manufacturing . . . . .	6	6	3	266	10 506	159	353	4 866	24 555	16 968	42 298	651
333295	Semiconductor machinery manufacturing . . . . .	—	7	3	305	15 447	209	410	7 772	31 135	18 717	50 780	935
333298	All other industrial machinery manufacturing . . . . .	5	24	7	472	20 326	259	540	8 663	49 968	35 444	88 649	3 006
3333	Commercial and service industry machinery manufacturing . . . . .	—	78	26	3 777	140 577	2 161	4 119	61 363	282 211	432 931	722 259	39 374
33331	Commercial and service industry machinery manufacturing . . . . .	—	78	26	3 777	140 577	2 161	4 119	61 363	282 211	432 931	722 259	39 374
333314	Optical instrument and lens manufacturing . . . . .	—	23	10	f	D	D	D	D	D	D	D	D
333315	Photographic and photocopying equipment manufacturing . . . . .	—	11	6	g	D	D	D	D	D	D	D	D
333319	Other commercial and service industry machinery manufacturing . . . . .	1	37	10	828	31 954	462	1 006	14 330	86 445	66 288	151 325	3 082
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing . . . . .	—	28	13	1 554	56 064	1 165	2 056	32 740	117 943	91 430	212 122	4 386
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing . . . . .	—	28	13	1 554	56 064	1 165	2 056	32 740	117 943	91 430	212 122	4 386
333414	Heating equipment (except warm air furnaces) manufacturing . . . . .	—	8	4	470	14 146	385	887	9 948	20 242	36 391	57 328	1 117
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing . . . . .	—	13	7	961	37 909	677	984	19 865	89 309	48 170	139 482	3 113
3335	Metalworking machinery manufacturing . . . . .	1	'113	'23	'2 357	'87 238	'1 840	'3 409	'60 919	'220 305	'94 952	'311 960	22 818
33351	Metalworking machinery manufacturing . . . . .	1	'113	'23	'2 357	'87 238	'1 840	'3 409	'60 919	'220 305	'94 952	'311 960	22 818
333511	Industrial mold manufacturing . . . . .	—	'29	'6	'444	'22 009	'343	'625	'16 333	'51 158	'15 234	'66 776	17 066
333514	Special die and tool, die set, jig, and fixture manufacturing . . . . .	—	41	6	805	27 587	632	1 247	18 804	58 904	50 025	108 101	2 234
333515	Cutting tool and machine tool accessory manufacturing . . . . .	1	36	10	1 023	34 664	820	1 474	24 443	105 672	25 529	128 335	3 395
3336	Engine, turbine, and power transmission equipment manufacturing . . . . .	3	13	4	e	D	D	D	D	D	D	D	814
33361	Engine, turbine, and power transmission equipment manufacturing . . . . .	3	13	4	e	D	D	D	D	D	D	D	814

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Santa Ana-Anaheim-Irvine, CA Metropolitan Division—Con.</b>												
333	Machinery manufacturing—Con.												
3339	Other general purpose machinery manufacturing .....	1	83	27	3 450	147 496	1 825	3 673	57 501	352 436	264 686	612 204	15 638
33391	Pump and compressor manufacturing .....	—	12	6	948	31 396	558	1 254	11 504	118 599	82 591	199 832	D
333911	Pump and pumping equipment manufacturing ..	—	8	4	f	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	—	12	3	448	16 587	229	451	6 062	44 263	30 558	71 712	D
33399	All other general purpose machinery manufacturing ....	1	59	18	2 054	99 513	1 038	1 968	39 935	189 574	151 537	340 660	4 972
333993	Packaging machinery manufacturing .....	1	11	3	258	8 427	110	256	3 846	19 377	13 657	33 378	499
333995	Fluid power cylinder and actuator manufacturing ....	—	4	2	f	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	4	31	9	588	26 331	313	572	10 126	47 831	36 291	85 637	2 356
334	Computer and electronic product manufacturing .....	—	'620	265	'44 917	'2 359 272	'20 119	'38 087	'671 795	'7 124 249	'7 512 014	'13 803 995	'654 792
3341	Computer and peripheral equipment manufacturing .....	—	72	29	4 327	249 506	1 272	2 150	41 569	753 934	2 325 398	3 086 549	146 861
33411	Computer and peripheral equipment manufacturing ....	—	72	29	4 327	249 506	1 272	2 150	41 569	753 934	2 325 398	3 086 549	146 861
334111	Electronic computer manufacturing .....	—	19	7	g	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing .....	1	18	10	1 312	87 000	303	657	14 572	181 079	189 140	375 149	D
334119	Other computer peripheral equipment manufacturing ..	1	34	12	g	D	D	D	D	D	D	D	12 576
3342	Communications equipment manufacturing .....	—	58	21	12 553	835 809	2 624	4 982	111 369	2 416 041	2 536 356	4 121 688	D
33421	Telephone apparatus manufacturing .....	9	10	4	1 034	62 082	211	429	10 087	145 909	161 758	320 418	D
334210	Telephone apparatus manufacturing .....	9	10	4	1 034	62 082	211	429	10 087	145 909	161 758	320 418	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	32	9	j	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	32	9	j	D	D	D	D	D	D	D	D
33429	Other communications equipment manufacturing ....	2	16	8	f	D	D	D	D	D	D	D	D
334290	Other communications equipment manufacturing ..	2	16	8	f	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing .....	—	24	8	1 205	44 932	596	1 067	15 063	151 358	74 567	223 623	D
33431	Audio and video equipment manufacturing .....	—	24	8	1 205	44 932	596	1 067	15 063	151 358	74 567	223 623	D
334310	Audio and video equipment manufacturing .....	—	24	8	1 205	44 932	596	1 067	15 063	151 358	74 567	223 623	D
3344	Semiconductor and other electronic component manufacturing .....	1	275	134	16 741	683 452	11 368	21 938	339 896	2 212 430	1 710 207	3 914 071	142 220
33441	Semiconductor and other electronic component manufacturing .....	1	275	134	16 741	683 452	11 368	21 938	339 896	2 212 430	1 710 207	3 914 071	142 220
334412	Bare printed circuit board manufacturing .....	3	76	34	4 048	145 952	2 922	5 956	79 268	243 711	237 643	484 914	18 172
334413	Semiconductor and related device manufacturing .....	1	40	16	2 585	128 718	1 563	2 790	59 318	348 922	219 006	569 413	24 734
334415	Electronic resistor manufacturing .....	—	5	4	e	D	D	D	D	D	D	D	1 201
334416	Electronic coil, transformer, and other inductor manufacturing .....	—	10	4	297	8 483	221	429	4 762	22 279	11 074	34 118	461
334417	Electronic connector manufacturing .....	1	21	14	2 323	94 457	1 566	3 086	41 965	140 290	132 196	272 585	13 861
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	38	25	3 453	138 476	2 615	5 046	85 710	1 083 997	869 662	1 925 865	69 221
334419	Other electronic component manufacturing .....	1	77	36	3 400	145 958	2 047	3 848	59 041	334 341	213 500	552 812	13 834

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Santa Ana-Anaheim-Irvine, CA Metropolitan Division—Con.</b>												
334	Computer and electronic product manufacturing—Con.												
3345	Navigational, measuring, electromedical, and control instruments manufacturing . . . . .	—	'157	67	'9 508	'523 954	'3 856	'7 185	'152 841	'1 522 703	'824 537	'2 349 161	'44 763
33451	Navigational, measuring, electromedical, and control instruments manufacturing . . .	—	'157	67	'9 508	'523 954	'3 856	'7 185	'152 841	'1 522 703	'824 537	'2 349 161	'44 763
334510	Electromedical and electrotherapeutic apparatus manufacturing . . .	1	27	15	2 118	110 714	1 168	1 996	47 209	326 045	231 283	557 794	9 372
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing . . . . .	—	25	11	3 908	249 561	1 054	1 964	52 603	659 001	228 237	885 288	16 230
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use . . . . .	—	9	3	e	D	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables . . . . .	2	25	15	1 126	47 573	564	1 178	19 024	111 368	69 870	182 228	11 691
334515	Instrument manufacturing for measuring and testing electricity and electrical signals . . . . .	2	25	9	775	40 289	288	448	9 741	99 484	47 054	150 728	2 564
334516	Analytical laboratory instrument manufacturing . .	—	18	8	672	34 936	356	781	12 023	227 589	163 732	390 843	2 973
334519	Other measuring and controlling device manufacturing . . . . .	1	18	4	371	18 954	146	261	4 574	34 640	16 022	51 782	731
3346	Manufacturing and reproducing magnetic and optical media . . . . .	1	34	6	583	21 619	403	765	11 057	67 783	40 949	108 903	3 211
33461	Manufacturing and reproducing magnetic and optical media . . .	1	34	6	583	21 619	403	765	11 057	67 783	40 949	108 903	3 211
334612	Prerecorded compact disc (except software), tape, and record reproducing . . . . .	1	22	6	516	17 894	360	678	8 799	57 606	33 549	91 324	2 884
335	Electrical equipment, appliance, and component manufacturing . . . . .	1	143	63	5 979	238 502	3 678	7 907	108 982	483 160	561 993	1 049 641	31 907
3351	Electric lighting equipment manufacturing . . . . .	2	32	15	f	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing . .	2	30	14	796	23 489	475	994	10 246	62 588	44 853	105 409	1 777
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing . . . . .	—	14	9	360	12 937	187	394	4 829	30 321	20 418	50 956	575
335129	Other lighting equipment manufacturing . . . . .	2	4	3	288	6 203	180	376	3 193	23 506	15 610	36 869	824
3353	Electrical equipment manufacturing . . . . .	1	48	17	1 667	66 404	995	2 091	29 980	92 833	79 368	179 870	1 998
33531	Electrical equipment manufacturing . . . . .	1	48	17	1 667	66 404	995	2 091	29 980	92 833	79 368	179 870	1 998
335311	Power, distribution, and specialty transformer manufacturing . . . . .	1	7	2	330	14 184	211	376	7 050	798	17 029	21 460	90
335314	Relay and industrial control manufacturing . . . . .	1	25	8	955	37 411	536	1 171	15 088	47 773	36 370	90 096	1 117
3359	Other electrical equipment and component manufacturing . . . . .	1	54	28	3 216	139 674	1 972	4 335	63 268	295 852	420 646	715 860	27 191
33591	Battery manufacturing . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
335911	Storage battery manufacturing . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
33592	Communication and energy wire and cable manufacturing . .	1	12	9	e	D	D	D	D	D	D	D	1 585
335929	Other communication and energy wire manufacturing . .	1	9	8	336	14 488	237	486	9 059	32 901	77 360	108 230	D
33593	Wiring device manufacturing . . .	—	15	7	621	24 030	391	851	10 611	67 224	35 590	101 669	D
335931	Current-carrying wiring device manufacturing . . . . .	—	15	7	621	24 030	391	851	10 611	67 224	35 590	101 669	D
33599	All other electrical equipment and component manufacturing . . . . .	2	25	10	1 678	77 158	838	1 842	24 216	101 450	204 601	306 690	23 241
335999	All other miscellaneous electrical equipment and component manufacturing . .	3	24	9	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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Santa Ana-Anaheim-Irvine, CA Metropolitan Division—Con.</b>												
336	Transportation equipment manufacturing .....	3	225	80	9 063	354 045	6 539	14 277	214 466	829 882	906 268	1 729 414	47 843
3361	Motor vehicle manufacturing ....	9	11	4	e	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	9	10	4	e	D	D	D	D	D	D	D	D
336111	Automobile manufacturing ...	9	5	3	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	2	105	32	4 036	135 724	2 989	6 078	84 929	343 585	397 373	725 119	25 739
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	2	26	7	678	29 431	447	843	15 709	62 176	60 396	119 944	13 355
336311	Carburetor, piston, piston ring, and valve manufacturing .....	3	5	2	300	11 848	212	471	7 114	31 129	16 397	46 763	D
336312	Gasoline engine and engine parts manufacturing .....	2	21	5	378	17 583	235	372	8 595	31 047	43 999	73 181	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	1	14	4	349	15 118	282	583	10 112	67 683	74 002	140 082	2 823
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	1	12	4	e	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission and power train parts manufacturing .....	2	10	2	905	27 304	575	1 195	15 054	62 564	68 215	121 179	1 908
336350	Motor vehicle transmission and power train parts manufacturing .....	2	10	2	905	27 304	575	1 195	15 054	62 564	68 215	121 179	1 908
33636	Motor vehicle seating and interior trim manufacturing ....	-	7	3	307	8 363	247	372	4 691	19 499	28 247	48 823	520
336360	Motor vehicle seating and interior trim manufacturing ..	-	7	3	307	8 363	247	372	4 691	19 499	28 247	48 823	520
33637	Motor vehicle metal stamping ..	2	4	2	312	10 360	218	514	8 466	17 323	30 845	47 957	1 226
336370	Motor vehicle metal stamping ..	2	4	2	312	10 360	218	514	8 466	17 323	30 845	47 957	1 226
33639	Other motor vehicle parts manufacturing .....	3	40	14	1 473	44 461	1 211	2 554	30 378	113 185	134 098	244 409	5 829
336399	All other motor vehicle parts manufacturing .....	3	40	14	1 473	44 461	1 211	2 554	30 378	113 185	134 098	244 409	5 829
3364	Aerospace product and parts manufacturing .....	1	38	20	2 637	129 485	1 725	4 599	69 839	254 995	120 844	387 960	8 200
33641	Aerospace product and parts manufacturing .....	1	38	20	2 637	129 485	1 725	4 599	69 839	254 995	120 844	387 960	8 200
336413	Other aircraft parts and auxiliary equipment manufacturing .....	2	29	16	2 214	102 779	1 474	4 056	60 234	205 549	101 090	319 777	D
3366	Ship and boat building .....	3	19	8	e	D	D	D	D	D	D	D	4 177
33661	Ship and boat building .....	3	19	8	e	D	D	D	D	D	D	D	4 177
336612	Boat building .....	4	10	5	299	9 748	213	409	5 308	20 004	33 244	53 248	D
3369	Other transportation equipment manufacturing .....	2	37	13	1 386	46 727	1 015	2 008	28 671	108 827	77 031	183 875	5 403
33699	Other transportation equipment manufacturing .....	2	37	13	1 386	46 727	1 015	2 008	28 671	108 827	77 031	183 875	5 403
336991	Motorcycle, bicycle, and parts manufacturing .....	2	24	11	1 212	41 264	882	1 806	25 257	101 509	67 371	166 897	5 129
337	Furniture and related product manufacturing .....	3	250	78	7 722	236 589	5 807	11 498	147 152	648 712	443 244	1 088 908	24 452
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	5	177	43	4 434	121 888	3 429	6 868	78 060	293 714	242 317	536 009	9 371
33711	Wood kitchen cabinet and countertop manufacturing ....	8	84	11	1 099	32 844	754	1 505	19 294	95 578	90 048	185 386	2 953
337110	Wood kitchen cabinet and countertop manufacturing ..	8	84	11	1 099	32 844	754	1 505	19 294	95 578	90 048	185 386	2 953
33712	Household and institutional furniture manufacturing .....	4	93	32	3 335	89 044	2 675	5 363	58 766	198 136	152 269	350 623	6 418
337121	Upholstered household furniture manufacturing ....	4	22	9	658	17 218	556	1 086	12 945	37 946	35 844	73 556	1 036
337122	Nonupholstered wood household furniture manufacturing .....	5	48	11	1 453	32 624	1 249	2 538	23 921	72 268	56 194	127 723	2 789
337124	Metal household furniture manufacturing .....	4	4	3	408	8 425	332	665	6 738	25 899	28 806	54 554	563
337127	Institutional furniture manufacturing .....	2	10	6	619	23 790	397	830	11 999	55 629	16 191	72 914	1 679

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area—Con.</b>												
	<b>Santa Ana-Anaheim-Irvine, CA Metropolitan Division—Con.</b>												
337	Furniture and related product manufacturing—Con.												
3372	Office furniture (including fixtures) manufacturing .....	2	59	29	2 368	92 552	1 731	3 444	55 114	236 119	125 621	357 336	11 513
33721	Office furniture (including fixtures) manufacturing .....	2	59	29	2 368	92 552	1 731	3 444	55 114	236 119	125 621	357 336	11 513
337211	Wood office furniture manufacturing .....	5	12	7	f	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing .....	—	8	2	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing .....	3	24	15	992	40 780	604	1 164	19 214	79 381	52 053	128 622	1 630
3379	Other furniture related product manufacturing .....	2	14	6	920	22 149	647	1 186	13 978	118 879	75 306	195 563	3 568
33792	Blind and shade manufacturing .....	1	8	4	729	16 605	490	870	10 241	103 913	53 998	159 244	D
337920	Blind and shade manufacturing .....	1	8	4	729	16 605	490	870	10 241	103 913	53 998	159 244	D
339	Miscellaneous manufacturing .....	3	'611	'165	'20 957	'896 023	'12 712	'25 609	'375 716	'2 473 952	'1 398 677	'3 891 404	'99 973
3391	Medical equipment and supplies manufacturing .....	4	'243	'75	'13 372	'648 791	'7 418	'15 244	'239 996	'1 847 096	'951 206	'2 815 018	'78 032
33911	Medical equipment and supplies manufacturing .....	4	'243	'75	'13 372	'648 791	'7 418	'15 244	'239 996	'1 847 096	'951 206	'2 815 018	'78 032
339111	Laboratory apparatus and furniture manufacturing ....	—	8	6	1 282	71 716	354	745	10 772	145 035	112 506	275 736	8 943
339112	Surgical and medical instrument manufacturing ..	3	44	23	3 987	182 669	2 356	4 564	78 797	506 505	148 952	658 128	D
339113	Surgical appliance and supplies manufacturing ....	7	36	27	3 759	206 141	1 881	4 378	54 664	518 705	304 434	826 008	22 462
339114	Dental equipment and supplies manufacturing ....	—	19	5	1 298	64 671	589	919	18 778	405 786	172 211	574 500	13 120
339115	Ophthalmic goods manufacturing .....	9	9	5	906	43 029	644	1 264	17 990	139 614	181 474	319 148	D
339116	Dental laboratories .....	1	'127	'9	'2 140	'80 565	'1 594	'3 374	'58 995	'131 451	'31 629	'161 498	'2 788
3399	Other miscellaneous manufacturing .....	1	'368	90	'7 585	'247 232	'5 294	'10 365	'135 720	'626 856	'447 471	'1 076 386	'21 941
33991	Jewelry and silverware manufacturing .....	—	28	4	399	12 807	272	513	7 053	24 089	21 665	45 401	558
339911	Jewelry (except costume) manufacturing .....	—	18	3	329	10 982	224	429	6 190	20 092	6 606	26 288	384
33992	Sporting and athletic goods manufacturing .....	1	86	20	1 666	57 832	974	1 811	19 910	175 552	161 050	335 711	4 305
339920	Sporting and athletic goods manufacturing .....	1	86	20	1 666	57 832	974	1 811	19 910	175 552	161 050	335 711	4 305
33994	Office supplies (except paper) manufacturing .....	1	10	4	e	D	D	D	D	D	D	D	461
33995	Sign manufacturing .....	2	95	17	1 456	52 340	1 047	1 965	31 641	103 049	63 949	165 893	7 128
339950	Sign manufacturing .....	2	95	17	1 456	52 340	1 047	1 965	31 641	103 049	63 949	165 893	7 128
33999	All other miscellaneous manufacturing .....	2	'133	43	'3 570	'110 202	'2 621	'5 277	'67 984	'287 662	'164 553	'455 660	'8 847
339991	Gasket, packing, and sealing device manufacturing .....	—	15	9	1 050	38 619	788	1 643	24 848	90 519	37 764	133 586	2 896
339999	All other miscellaneous manufacturing .....	2	'108	29	'2 109	'58 994	'1 596	'3 121	'36 272	'142 318	'106 838	'249 549	'3 707
	<b>Oxnard-Thousand Oaks-Ventura, CA Metropolitan Statistical Area</b>												
31-33	Manufacturing .....	1	1 051	304	33 124	1 314 903	22 483	45 432	674 581	4 525 268	2 591 176	7 140 438	259 332
311	Food manufacturing .....	1	73	17	1 524	40 506	1 240	2 413	30 474	187 141	163 365	350 497	22 113
3114	Fruit and vegetable preserving and specialty food manufacturing .....	1	11	8	658	17 444	539	1 005	13 152	114 506	101 254	216 165	19 236
31141	Frozen food manufacturing ....	—	7	5	398	10 897	335	572	7 836	73 670	73 847	147 896	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	—	6	5	e	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	5	4	3	260	6 547	204	433	5 316	40 836	27 407	68 269	D
3118	Bakeries and tortilla manufacturing .....	—	38	4	410	10 005	325	690	7 859	36 600	19 638	56 128	1 663
31181	Bread and bakery product manufacturing .....	—	35	3	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	2	14	1	261	7 885	220	404	6 074	23 124	21 742	44 638	978

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>													
<b>Oxnard-Thousand Oaks-Ventura, CA Metropolitan Statistical Area—Con.</b>													
315	Apparel manufacturing .....	9	25	5	524	10 350	435	758	7 949	27 572	26 149	53 820	D
3152	Cut and sew apparel manufacturing .....	9	24	5	f	D	D	D	D	D	D	D	D
31522	Men's and boys' cut and sew apparel manufacturing .....	9	3	2	e	D	D	D	D	D	D	D	D
315225	Men's and boys' cut and sew work clothing manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	14	8	1 042	49 639	830	1 663	36 081	601 580	201 880	793 255	D
3221	Pulp, paper, and paperboard mills .....	-	2	2	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	-	12	6	e	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	1	8	5	e	D	D	D	D	D	D	D	2 328
323	Printing and related support activities .....	1	86	17	1 092	36 174	691	1 365	20 119	102 736	41 553	144 001	3 088
3231	Printing and related support activities .....	1	86	17	1 092	36 174	691	1 365	20 119	102 736	41 553	144 001	3 088
32311	Printing .....	1	85	17	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	31	6	382	17 066	252	511	9 484	41 315	21 776	62 186	2 130
323113	Commercial screen printing ..	-	14	4	286	4 848	146	265	2 289	11 704	4 229	16 114	326
325	Chemical manufacturing .....	4	39	15	1 173	53 807	738	1 448	25 866	168 509	132 540	297 656	9 922
3254	Pharmaceutical and medicine manufacturing .....	7	4	3	382	22 126	220	372	9 772	91 265	29 971	116 782	D
32541	Pharmaceutical and medicine manufacturing .....	7	4	3	382	22 126	220	372	9 772	91 265	29 971	116 782	D
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	2	17	4	388	13 325	317	682	8 900	28 787	42 348	72 395	1 274
32562	Toilet preparation manufacturing .....	1	12	4	379	12 973	310	669	8 687	26 701	41 301	69 297	1 199
325620	Toilet preparation manufacturing .....	1	12	4	379	12 973	310	669	8 687	26 701	41 301	69 297	1 199
326	Plastics and rubber products manufacturing .....	-	47	24	2 993	93 230	2 396	4 489	57 978	215 997	173 085	385 860	17 388
3261	Plastics product manufacturing ..	-	45	23	h	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing .....	-	4	3	256	8 305	226	478	7 174	12 408	13 106	25 459	1 577
326121	Unlaminated plastics profile shape manufacturing .....	-	4	3	256	8 305	226	478	7 174	12 408	13 106	25 459	1 577
32616	Plastics bottle manufacturing ..	2	2	2	e	D	D	D	D	D	D	D	D
326160	Plastics bottle manufacturing .....	2	2	2	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	34	16	2 298	71 114	1 816	3 582	41 306	172 426	143 664	313 249	13 788
326199	All other plastics product manufacturing .....	-	31	14	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	31	13	1 048	40 178	792	1 690	24 738	106 095	94 105	199 590	5 692
3273	Cement and concrete product manufacturing .....	-	14	7	347	15 989	258	569	11 345	36 243	49 447	85 578	1 358
3279	Other nonmetallic mineral product manufacturing .....	-	9	5	558	20 299	411	836	10 721	57 391	39 715	96 705	D
32799	All other nonmetallic mineral product manufacturing .....	-	4	2	e	D	D	D	D	D	D	D	D
327993	Mineral wool manufacturing ..	-	3	2	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	1	14	8	634	23 614	469	866	15 097	47 245	22 025	74 556	D
3315	Foundries .....	2	8	6	433	14 710	342	731	10 705	30 452	13 722	44 574	D
33151	Ferrous metal foundries .....	2	4	3	323	10 977	254	541	8 431	21 701	9 661	31 687	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Oxnard-Thousand Oaks-Ventura, CA Metropolitan Statistical Area—Con.</b>												
332	Fabricated metal product manufacturing .....	2	191	38	2 585	96 561	1 853	3 747	56 745	216 935	112 932	333 365	19 796
3323	Architectural and structural metals manufacturing .....	2	30	9	526	19 516	340	734	10 084	43 995	27 396	70 249	1 927
33232	Ornamental and architectural metal products manufacturing .....	1	21	7	415	14 618	268	573	7 425	36 111	20 761	55 983	1 631
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	99	13	961	36 226	715	1 381	22 926	77 935	24 250	102 428	6 103
33271	Machine shops .....	4	86	9	650	25 993	491	931	17 196	50 644	17 815	68 618	5 463
332710	Machine shops .....	4	86	9	650	25 993	491	931	17 196	50 644	17 815	68 618	5 463
33272	Turned product and screw, nut, and bolt manufacturing .....	—	13	4	311	10 233	224	450	5 730	27 291	6 435	33 810	640
3329	Other fabricated metal product manufacturing .....	1	15	2	261	11 409	183	404	6 995	34 236	12 595	46 908	D
333	Machinery manufacturing .....	1	99	30	4 747	231 719	2 908	6 293	99 535	522 007	411 196	940 387	19 582
3332	Industrial machinery manufacturing .....	5	18	7	1 098	46 378	632	1 304	20 456	103 331	70 712	176 894	9 229
33329	Other industrial machinery manufacturing .....	7	15	6	f	D	D	D	D	D	D	D	D
333293	Printing machinery and equipment manufacturing ..	9	3	1	e	D	D	D	D	D	D	D	D
333295	Semiconductor machinery manufacturing .....	2	5	3	281	9 761	216	458	6 279	15 452	19 333	35 662	1 465
3333	Commercial and service industry machinery manufacturing .....	—	14	5	616	22 650	427	852	13 505	82 372	97 614	175 334	2 056
33331	Commercial and service industry machinery manufacturing .....	—	14	5	616	22 650	427	852	13 505	82 372	97 614	175 334	2 056
333319	Other commercial and service industry machinery manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	8	3	1 161	33 910	518	1 212	13 707	129 507	85 221	216 649	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	8	3	1 161	33 910	518	1 212	13 707	129 507	85 221	216 649	D
333414	Heating equipment (except warm air furnaces) manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing .....	—	28	3	1 041	94 272	821	1 904	35 879	124 279	104 271	235 063	1 015
33351	Metalworking machinery manufacturing .....	—	28	3	1 041	94 272	821	1 904	35 879	124 279	104 271	235 063	1 015
333512	Machine tool (metal cutting types) manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	1	27	11	f	D	D	D	D	D	D	D	3 137
33399	All other general purpose machinery manufacturing ....	1	16	8	485	20 895	271	498	8 087	46 779	29 500	76 915	2 778
333999	All other miscellaneous general purpose machinery manufacturing .....	—	12	7	446	19 245	249	452	7 361	43 694	25 979	70 309	2 671
334	Computer and electronic product manufacturing .....	1	'142	'63	'9 052	'389 105	'5 652	'11 822	'176 075	'1 713 493	'742 604	'2 477 008	'75 652
3341	Computer and peripheral equipment manufacturing .....	6	22	6	463	25 005	178	357	5 068	65 244	58 759	123 928	D
33411	Computer and peripheral equipment manufacturing ....	6	22	6	463	25 005	178	357	5 068	65 244	58 759	123 928	D
334119	Other computer peripheral equipment manufacturing ..	4	15	4	e	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	5	'18	'10	f	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	5	'13	'8	'755	'34 464	'479	'878	'13 572	'51 416	'50 842	'102 852	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	5	'13	'8	'755	'34 464	'479	'878	'13 572	'51 416	'50 842	'102 852	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Oxnard-Thousand Oaks-Ventura, CA Metropolitan Statistical Area—Con.</b>												
334	Computer and electronic product manufacturing—Con.												
3343	Audio and video equipment manufacturing .....	4	11	5	707	25 464	485	990	13 393	56 621	37 616	98 553	1 607
33431	Audio and video equipment manufacturing .....	4	11	5	707	25 464	485	990	13 393	56 621	37 616	98 553	1 607
334310	Audio and video equipment manufacturing .....	4	11	5	707	25 464	485	990	13 393	56 621	37 616	98 553	1 607
3344	Semiconductor and other electronic component manufacturing .....	—	55	25	4 340	187 609	2 640	5 554	81 825	909 031	268 601	1 180 961	48 865
33441	Semiconductor and other electronic component manufacturing .....	—	55	25	4 340	187 609	2 640	5 554	81 825	909 031	268 601	1 180 961	48 865
334413	Semiconductor and related device manufacturing .....	—	18	9	1 782	99 073	1 012	2 083	39 851	730 065	143 301	872 918	40 339
334417	Electronic connector manufacturing .....	—	4	4	269	13 304	196	381	7 939	29 631	11 711	40 892	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	1	8	3	468	13 706	345	675	7 624	21 829	30 872	53 113	D
334419	Other electronic component manufacturing .....	—	16	6	1 562	53 444	862	1 966	20 210	104 600	75 731	184 239	5 128
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	31	13	1 129	56 753	572	1 152	18 435	257 536	154 898	416 314	7 880
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	31	13	1 129	56 753	572	1 152	18 435	257 536	154 898	416 314	7 880
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	—	6	3	e	D	D	D	D	D	D	D	D
334519	Other measuring and controlling device manufacturing .....	—	5	1	254	15 523	109	226	3 119	54 613	14 806	69 173	D
3346	Manufacturing and reproducing magnetic and optical media .....	—	5	4	g	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media .....	—	5	4	g	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	—	3	3	g	D	D	D	D	D	D	D	D
334613	Magnetic and optical recording media manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	22	14	1 161	41 049	804	1 607	20 506	84 025	55 467	140 226	2 980
3351	Electric lighting equipment manufacturing .....	—	8	6	507	14 793	408	824	9 749	32 834	29 306	62 245	816
33512	Lighting fixture manufacturing .....	—	8	6	507	14 793	408	824	9 749	32 834	29 306	62 245	816
335129	Other lighting equipment manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	—	7	4	432	18 015	254	511	6 713	37 997	17 203	55 567	660
33531	Electrical equipment manufacturing .....	—	7	4	432	18 015	254	511	6 713	37 997	17 203	55 567	660
335314	Relay and industrial control manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	5	44	13	2 179	100 180	1 358	2 821	51 862	271 344	236 067	510 061	16 859
3363	Motor vehicle parts manufacturing .....	1	23	8	1 169	46 349	857	1 897	29 369	113 034	66 299	181 836	7 641
33639	Other motor vehicle parts manufacturing .....	—	6	4	807	30 898	659	1 504	23 877	73 882	30 613	107 174	6 085
336399	All other motor vehicle parts manufacturing .....	—	6	4	807	30 898	659	1 504	23 877	73 882	30 613	107 174	6 085
3364	Aerospace product and parts manufacturing .....	7	11	5	946	51 224	450	826	20 835	152 064	161 722	313 933	9 046
33641	Aerospace product and parts manufacturing .....	7	11	5	946	51 224	450	826	20 835	152 064	161 722	313 933	9 046
336411	Aircraft manufacturing .....	9	2	1	f	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	—	5	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.**

[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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>													
<b>Oxnard-Thousand Oaks-Ventura, CA Metropolitan Statistical Area—Con.</b>													
337	Furniture and related product manufacturing .....	3	41	6	583	15 445	451	854	9 909	33 553	17 267	50 640	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	31	6	518	13 406	406	779	8 848	30 010	15 391	45 192	D
33712	Household and institutional furniture manufacturing .....	4	14	3	318	7 219	265	502	5 586	20 733	9 314	29 844	227
339	Miscellaneous manufacturing .....	3	'135	'31	'2 515	'84 241	'1 661	'3 199	'35 709	'205 129	'125 632	'332 333	'7 955
3391	Medical equipment and supplies manufacturing .....	3	60	15	1 204	44 641	785	1 545	17 656	113 294	45 546	159 534	3 465
33911	Medical equipment and supplies manufacturing .....	3	60	15	1 204	44 641	785	1 545	17 656	113 294	45 546	159 534	3 465
339113	Surgical appliance and supplies manufacturing .....	5	13	6	655	21 410	490	967	9 242	57 406	25 204	82 573	1 992
339114	Dental equipment and supplies manufacturing .....	—	8	3	253	11 172	128	239	3 503	29 185	10 133	39 281	584
3399	Other miscellaneous manufacturing .....	2	'75	'16	'1 311	'39 600	'876	'1 654	'18 053	'91 835	'80 086	'172 799	'4 490
33999	All other miscellaneous manufacturing .....	—	'36	'10	'784	'24 610	'524	'959	'10 990	'50 921	'47 846	'99 032	'3 553
339999	All other miscellaneous manufacturing .....	'1	'30	'8	'636	'18 517	'408	'731	'7 475	'37 427	'34 658	'72 862	'3 280
<b>Riverside-San Bernardino-Ontario, CA Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	1	3 804	1 202	119 990	4 091 683	90 015	180 011	2 558 066	13 224 310	11 917 400	25 140 017	924 693
311	Food manufacturing .....	1	234	68	7 134	216 520	5 561	10 931	150 721	1 508 712	1 480 634	2 985 201	68 752
3111	Animal food manufacturing .....	2	19	10	664	23 483	437	992	13 715	241 971	220 247	464 480	3 230
31111	Animal food manufacturing .....	2	19	10	664	23 483	437	992	13 715	241 971	220 247	464 480	3 230
311119	Other animal food manufacturing .....	3	16	8	f	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing .....	4	15	4	573	11 146	380	770	7 449	30 361	21 567	51 278	1 341
31132	Chocolate and confectionery manufacturing from cacao beans .....	—	1	1	e	D	D	D	D	D	D	D	D
311320	Chocolate and confectionery manufacturing from cacao beans .....	—	1	1	e	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	21	14	1 832	53 155	1 538	2 995	39 303	134 819	252 534	387 845	19 551
31141	Frozen food manufacturing .....	—	4	4	860	24 535	732	1 380	17 909	16 972	111 873	128 852	D
311411	Frozen fruit, juice, and vegetable manufacturing .....	—	3	3	352	10 811	270	480	6 367	16 972	111 873	128 852	D
311412	Frozen specialty food manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	1	17	10	972	28 620	806	1 615	21 394	117 847	140 661	258 993	D
311421	Fruit and vegetable canning .....	—	12	8	868	26 243	725	1 427	19 707	111 038	134 440	245 922	D
3115	Dairy product manufacturing .....	—	16	5	737	31 725	553	1 187	21 108	136 261	459 951	592 586	18 084
31151	Dairy product (except frozen) manufacturing .....	—	13	5	713	30 940	535	1 154	20 590	131 666	456 439	584 575	17 908
311513	Cheese manufacturing .....	—	5	3	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	5	23	7	370	9 432	255	569	6 112	26 824	49 692	74 594	2 228
31161	Animal slaughtering and processing .....	5	23	7	370	9 432	255	569	6 112	26 824	49 692	74 594	2 228
3118	Bakeries and tortilla manufacturing .....	—	89	12	1 888	50 682	1 586	2 772	39 528	178 161	122 542	302 208	7 516
31181	Bread and bakery product manufacturing .....	1	77	8	1 100	29 221	850	1 586	20 719	76 089	64 996	143 088	5 319
311811	Retail bakeries .....	6	54	4	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	2	20	3	426	10 093	354	548	6 670	29 597	12 446	42 121	1 803
311813	Frozen cakes, pies, and other pastries manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
31183	Tortilla manufacturing .....	—	7	2	f	D	D	D	D	D	D	D	D
311830	Tortilla manufacturing .....	—	7	2	f	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	—	43	12	840	29 093	632	1 257	19 097	716 500	241 896	956 502	13 840
31199	All other food manufacturing .....	3	27	5	351	9 891	268	571	6 171	28 796	34 464	63 209	966

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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Riverside-San Bernardino-Ontario, CA Metropolitan Statistical Area—Con.</b>												
312	Beverage and tobacco product manufacturing .....	-	20	9	1 086	35 428	558	1 102	15 787	163 863	139 083	303 147	36 905
3121	Beverage manufacturing .....	-	20	9	1 086	35 428	558	1 102	15 787	163 863	139 083	303 147	36 905
31211	Soft drink and ice manufacturing .....	-	11	8	962	31 423	501	1 021	14 295	156 405	119 441	273 552	35 908
312111	Soft drink manufacturing ....	-	4	4	654	25 986	336	719	11 539	124 521	99 292	222 543	D
313	Textile mills .....	5	22	4	454	12 123	398	822	9 457	23 223	19 173	42 536	D
314	Textile product mills .....	3	62	12	931	22 330	774	1 481	15 628	57 873	39 104	101 372	672
3141	Textile furnishings mills .....	1	23	4	432	9 489	379	703	7 020	27 567	19 978	51 890	239
31412	Curtain and linen mills .....	1	22	4	e	D	D	D	D	D	D	D	D
314129	Other household textile product mills .....	-	7	3	351	8 031	310	573	6 104	24 607	17 002	46 114	182
3149	Other textile product mills .....	5	39	8	499	12 841	395	778	8 608	30 306	19 126	49 482	433
31499	All other textile product mills ...	6	20	6	306	8 240	239	464	5 671	17 877	13 893	31 884	322
314999	All other miscellaneous textile product mills .....	6	20	6	306	8 240	239	464	5 671	17 877	13 893	31 884	322
315	Apparel manufacturing .....	8	86	14	1 045	18 673	916	1 438	14 202	26 989	16 315	43 193	315
3152	Cut and sew apparel manufacturing .....	8	76	12	921	15 939	807	1 243	12 221	22 755	12 902	35 468	D
31521	Cut and sew apparel contractors .....	9	49	7	f	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors .....	9	44	7	f	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing .....	2	13	3	308	8 593	230	389	4 490	18 310	13 289	31 082	D
321	Wood product manufacturing .....	3	174	70	6 419	169 746	5 361	10 579	117 243	378 584	492 923	874 604	14 061
3212	Veneer, plywood, and engineered wood product manufacturing ....	2	27	17	1 446	41 173	1 166	2 509	26 102	92 400	94 436	189 408	2 567
32121	Veneer, plywood, and engineered wood product manufacturing .....	2	27	17	1 446	41 173	1 166	2 509	26 102	92 400	94 436	189 408	2 567
321214	Truss manufacturing .....	3	20	15	1 228	34 825	987	2 134	21 725	78 260	57 368	137 488	D
3219	Other wood product manufacturing .....	3	134	51	4 855	125 581	4 091	7 872	88 613	281 151	389 302	670 983	11 058
32191	Millwork .....	3	55	21	1 814	47 560	1 533	3 082	33 996	80 524	198 964	279 331	5 924
321911	Wood window and door manufacturing .....	7	19	10	573	16 068	448	975	10 592	41 504	60 810	102 381	1 893
321912	Cut stock, resawing lumber, and planing .....	-	8	4	812	21 082	718	1 453	15 438	22 399	113 629	136 092	D
321918	Other millwork (including flooring) .....	4	28	7	429	10 410	367	654	7 966	16 621	24 525	40 858	D
32192	Wood container and pallet manufacturing .....	3	41	14	712	16 157	619	1 215	12 714	28 888	41 552	70 188	1 695
321920	Wood container and pallet manufacturing .....	3	41	14	712	16 157	619	1 215	12 714	28 888	41 552	70 188	1 695
32199	All other wood product manufacturing .....	3	38	16	2 329	61 864	1 939	3 575	41 903	171 739	148 786	321 464	3 439
321991	Manufactured home (mobile home) manufacturing .....	3	10	8	1 843	49 818	1 517	2 768	33 199	145 079	120 641	266 711	2 539
321992	Prefabricated wood building manufacturing .....	5	7	3	262	6 790	228	446	4 524	15 889	18 408	34 283	487
322	Paper manufacturing .....	-	55	30	2 164	89 723	1 690	3 708	60 900	326 516	504 627	812 500	19 148
3222	Converted paper product manufacturing .....	-	51	27	1 937	76 265	1 511	3 356	50 784	241 877	414 771	637 848	D
32221	Paperboard container manufacturing .....	-	25	14	1 013	40 123	779	1 704	27 446	99 933	169 452	269 495	11 062
322211	Corrugated and solid fiber box manufacturing .....	-	14	8	695	29 621	531	1 136	20 215	71 013	150 812	221 964	8 601
32223	Stationery product manufacturing .....	-	9	4	369	16 443	289	652	10 629	67 991	132 412	182 428	D
32229	Other converted paper product manufacturing .....	-	9	4	325	10 737	262	587	6 609	26 455	42 518	68 384	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>													
<b>Riverside-San Bernardino-Ontario, CA Metropolitan Statistical Area—Con.</b>													
323	Printing and related support activities .....	1	290	44	3 869	119 409	2 927	5 197	80 819	395 694	222 564	616 629	22 211
3231	Printing and related support activities .....	1	290	44	3 869	119 409	2 927	5 197	80 819	395 694	222 564	616 629	22 211
32311	Printing .....	1	268	38	3 321	103 887	2 470	4 343	69 594	361 861	215 015	575 593	21 173
323110	Commercial lithographic printing .....	1	119	21	1 622	57 997	1 202	2 109	39 637	203 567	132 749	336 144	7 466
323111	Commercial gravure printing ..	—	6	1	e	D	D	D	D	D	D	D	130
323113	Commercial screen printing ..	1	36	3	286	6 764	221	448	4 090	21 287	7 602	28 875	282
323114	Quick printing .....	5	64	4	359	9 013	228	379	5 323	19 609	7 119	26 734	523
323116	Manifold business forms printing .....	—	10	4	378	13 645	278	598	8 728	49 085	39 022	87 381	D
32312	Support activities for printing ..	4	22	6	548	15 522	457	854	11 225	33 833	7 549	41 036	1 038
323121	Tradebinding and related work .....	2	12	5	451	10 395	386	717	7 995	23 387	5 471	28 512	801
324	Petroleum and coal products manufacturing .....	—	22	3	391	19 548	320	629	15 304	121 330	166 017	289 870	6 015
3241	Petroleum and coal products manufacturing .....	—	22	3	391	19 548	320	629	15 304	121 330	166 017	289 870	6 015
32412	Asphalt paving, roofing, and saturated materials manufacturing .....	—	19	3	365	18 414	305	594	14 804	119 469	161 985	283 866	D
325	Chemical manufacturing .....	1	140	40	3 846	192 535	2 280	4 442	93 698	761 050	543 608	1 274 255	283 776
3251	Basic chemical manufacturing ...	1	21	7	776	40 291	473	841	21 011	207 590	136 425	340 710	211 255
32518	Other basic inorganic chemical manufacturing .....	—	8	3	594	31 207	372	618	16 064	176 414	98 616	271 657	D
325188	All other basic inorganic chemical manufacturing ....	—	8	3	594	31 207	372	618	16 064	176 414	98 616	271 657	D
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing .....	4	11	4	381	14 343	281	614	9 114	39 447	57 930	96 862	D
32521	Resin and synthetic rubber manufacturing .....	4	11	4	381	14 343	281	614	9 114	39 447	57 930	96 862	D
325211	Plastics material and resin manufacturing .....	5	5	3	318	11 828	239	530	7 728	33 351	46 156	78 816	D
3254	Pharmaceutical and medicine manufacturing .....	—	13	4	805	69 139	389	789	29 573	231 400	94 382	300 036	D
32541	Pharmaceutical and medicine manufacturing .....	—	13	4	805	69 139	389	789	29 573	231 400	94 382	300 036	D
325412	Pharmaceutical preparation manufacturing .....	—	7	1	f	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing .....	—	34	8	536	19 393	290	504	8 624	107 244	80 449	187 946	4 840
32551	Paint and coating manufacturing .....	1	27	5	307	11 806	174	372	6 367	78 070	48 680	128 501	4 024
325510	Paint and coating manufacturing .....	1	27	5	307	11 806	174	372	6 367	78 070	48 680	128 501	4 024
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	2	21	5	511	18 807	345	638	9 438	58 071	45 271	103 578	D
32562	Toilet preparation manufacturing .....	3	9	2	364	10 336	264	496	6 794	27 300	20 032	47 634	D
325620	Toilet preparation manufacturing .....	3	9	2	364	10 336	264	496	6 794	27 300	20 032	47 634	D
3259	Other chemical product and preparation manufacturing .....	2	32	7	632	24 132	361	758	12 263	86 016	111 911	197 647	8 087
32599	All other chemical product and preparation manufacturing ...	1	30	7	f	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product and preparation manufacturing ..	1	14	4	392	14 567	205	446	6 762	59 842	65 109	124 439	4 752
326	Plastics and rubber products manufacturing .....	1	278	148	15 260	459 667	11 584	22 533	290 305	1 230 541	1 257 543	2 499 170	74 656
3261	Plastics product manufacturing ..	1	238	131	13 907	422 507	10 583	20 471	268 076	1 116 330	1 180 271	2 309 392	66 325
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	1	20	12	864	32 319	692	1 507	21 522	91 227	124 347	219 287	6 055
326111	Plastics bag manufacturing ..	3	9	5	e	D	D	D	D	D	D	D	3 009
326113	Unlaminated plastics film and sheet (except packaging) manufacturing .....	—	9	6	419	16 034	323	708	10 640	44 843	68 126	113 420	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Riverside-San Bernardino-Ontario, CA Metropolitan Statistical Area—Con.</b>												
326	Plastics and rubber products manufacturing—Con.												
3261	Plastics product manufacturing—Con.												
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing . . . . .	2	21	15	1 090	34 242	923	2 019	26 214	99 331	119 429	223 577	10 988
326121	Unlaminated plastics profile shape manufacturing . . . . .	1	12	8	448	13 567	381	818	10 958	35 236	26 725	62 120	4 997
326122	Plastics pipe and pipe fitting manufacturing . . . . .	2	9	7	642	20 675	542	1 201	15 256	64 095	92 704	161 457	5 991
32614	Polystyrene foam product manufacturing . . . . .	—	11	7	1 018	31 697	903	1 640	27 490	99 331	84 383	183 759	4 058
326140	Polystyrene foam product manufacturing . . . . .	—	11	7	1 018	31 697	903	1 640	27 490	99 331	84 383	183 759	4 058
32615	Urethane and other foam product (except polystyrene) manufacturing . . . . .	—	14	10	943	29 237	769	1 672	20 525	119 657	102 972	222 847	6 491
326150	Urethane and other foam product (except polystyrene) manufacturing . . . . .	—	14	10	943	29 237	769	1 672	20 525	119 657	102 972	222 847	6 491
32616	Plastics bottle manufacturing . . . . .	—	14	12	1 458	39 957	1 303	1 842	31 055	107 873	203 147	314 866	5 952
326160	Plastics bottle manufacturing . . . . .	—	14	12	1 458	39 957	1 303	1 842	31 055	107 873	203 147	314 866	5 952
32619	Other plastics product manufacturing . . . . .	1	153	73	8 418	250 996	5 900	11 626	138 275	587 890	527 286	1 115 313	31 226
326191	Plastics plumbing fixture manufacturing . . . . .	—	10	6	1 449	34 214	1 010	2 032	16 504	101 602	97 987	197 113	3 586
326199	All other plastics product manufacturing . . . . .	1	143	67	6 969	216 782	4 890	9 594	121 771	486 288	429 299	918 200	27 640
3262	Rubber product manufacturing . . . . .	2	40	17	1 353	37 160	1 001	2 062	22 229	114 211	77 272	189 778	8 331
32621	Tire manufacturing . . . . .	—	10	5	304	8 856	209	471	5 071	16 260	33 631	49 566	5 106
32629	Other rubber product manufacturing . . . . .	2	23	12	1 021	27 379	769	1 545	16 477	95 237	41 378	135 238	3 148
326291	Rubber product manufacturing for mechanical use . . . . .	1	8	6	599	15 136	451	981	8 871	61 500	19 146	80 278	975
326299	All other rubber product manufacturing . . . . .	4	15	6	422	12 243	318	564	7 606	33 737	22 232	54 960	2 173
327	Nonmetallic mineral product manufacturing . . . . .	2	189	97	8 310	304 945	6 439	13 478	207 564	1 031 792	753 836	1 768 850	65 656
3271	Clay product and refractory manufacturing . . . . .	1	19	10	721	23 081	537	1 144	14 332	70 979	28 056	98 019	8 568
32712	Clay building material and refractories manufacturing . . . . .	—	11	7	536	18 150	401	852	11 661	58 998	25 713	83 443	8 530
327123	Other structural clay product manufacturing . . . . .	—	4	4	e	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing . . . . .	1	27	7	703	23 262	585	1 155	17 528	90 693	50 188	140 467	4 656
32721	Glass and glass product manufacturing . . . . .	1	27	7	703	23 262	585	1 155	17 528	90 693	50 188	140 467	4 656
327211	Flat glass manufacturing . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass . . . . .	2	23	6	e	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing . . . . .	2	109	65	6 040	232 322	4 648	9 817	158 144	785 210	615 802	1 385 920	49 213
32731	Cement manufacturing . . . . .	2	6	6	982	51 656	710	1 628	35 248	291 089	217 893	503 087	12 982
327310	Cement manufacturing . . . . .	2	6	6	982	51 656	710	1 628	35 248	291 089	217 893	503 087	12 982
32732	Ready-mix concrete manufacturing . . . . .	2	43	24	1 109	43 165	914	1 895	34 935	117 039	162 172	279 561	16 893
327320	Ready-mix concrete manufacturing . . . . .	2	43	24	1 109	43 165	914	1 895	34 935	117 039	162 172	279 561	16 893
32733	Concrete pipe, brick, and block manufacturing . . . . .	1	19	12	852	34 687	648	1 472	23 235	102 542	79 273	176 624	8 597
327331	Concrete block and brick manufacturing . . . . .	2	13	6	314	12 357	213	472	7 508	38 527	33 797	71 032	3 192
327332	Concrete pipe manufacturing . . . . .	—	6	6	538	22 330	435	1 000	15 727	64 015	45 476	105 592	5 405
32739	Other concrete product manufacturing . . . . .	1	41	23	3 097	102 814	2 376	4 822	64 726	274 540	156 464	426 648	10 741
327390	Other concrete product manufacturing . . . . .	1	41	23	3 097	102 814	2 376	4 822	64 726	274 540	156 464	426 648	10 741
3279	Other nonmetallic mineral product manufacturing . . . . .	1	29	15	825	25 593	657	1 336	17 091	82 608	57 767	140 116	D
32799	All other nonmetallic mineral product manufacturing . . . . .	1	25	12	670	21 434	533	1 113	14 745	73 059	52 370	125 165	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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Riverside-San Bernardino-Ontario, CA Metropolitan Statistical Area—Con.</b>												
331	Primary metal manufacturing . . . . .	—	64	26	3 762	162 317	2 967	6 076	116 380	522 104	938 779	1 464 456	55 829
3311	Iron and steel mills and ferroalloy manufacturing . . . . .	—	6	3	g	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing . . . . .	—	6	3	g	D	D	D	D	D	D	D	D
331111	Iron and steel mills . . . . .	—	6	3	g	D	D	D	D	D	D	D	D
3312	Steel product manufacturing from purchased steel . . . . .	2	8	3	e	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing . . . . .	—	18	9	1 031	42 909	811	1 516	29 511	110 636	250 827	359 044	5 139
33131	Alumina and aluminum production and processing . . . . .	—	18	9	1 031	42 909	811	1 516	29 511	110 636	250 827	359 044	5 139
331314	Secondary smelting and alloying of aluminum . . . . .	—	7	4	368	14 005	260	502	8 284	52 919	141 990	192 774	D
331316	Aluminum extruded product manufacturing . . . . .	—	7	5	f	D	D	D	D	D	D	D	D
3315	Foundries . . . . .	1	22	11	942	24 970	729	1 329	18 155	55 593	31 235	85 621	3 901
33151	Ferrous metal foundries . . . . .	—	8	3	540	12 295	400	635	9 657	29 151	12 925	41 060	1 238
331512	Steel investment foundries . . . . .	—	3	2	e	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries . . . . .	1	14	8	402	12 675	329	694	8 498	26 442	18 310	44 561	2 663
331524	Aluminum foundries (except die-casting) . . . . .	1	8	4	284	8 146	252	520	5 831	17 042	11 575	28 623	D
332	Fabricated metal product manufacturing . . . . .	1	769	206	17 643	626 191	13 265	26 389	395 475	1 544 299	1 652 975	3 254 566	90 884
3321	Forging and stamping . . . . .	—	32	14	1 082	43 289	778	1 631	24 500	75 085	152 270	234 076	7 063
33211	Forging and stamping . . . . .	—	32	14	1 082	43 289	778	1 631	24 500	75 085	152 270	234 076	7 063
332111	Iron and steel forging . . . . .	—	4	3	e	D	D	D	D	D	D	D	D
332116	Metal stamping . . . . .	3	20	8	361	14 237	254	507	7 214	29 807	24 462	54 696	889
3322	Cutlery and handtool manufacturing . . . . .	1	21	9	706	20 550	573	1 088	12 926	84 976	60 484	144 795	6 291
33221	Cutlery and handtool manufacturing . . . . .	1	21	9	706	20 550	573	1 088	12 926	84 976	60 484	144 795	6 291
332212	Hand and edge tool manufacturing . . . . .	1	18	7	602	14 493	527	980	11 121	66 044	41 416	106 987	D
3323	Architectural and structural metals manufacturing . . . . .	1	167	62	5 856	192 264	4 461	8 816	125 413	459 801	506 688	982 825	19 194
33231	Plate work and fabricated structural product manufacturing . . . . .	2	59	25	2 289	79 894	1 659	3 382	49 853	187 621	237 658	438 617	7 276
332311	Prefabricated metal building and component manufacturing . . . . .	6	8	7	844	25 008	606	1 188	14 933	61 668	79 248	140 688	2 973
332312	Fabricated structural metal manufacturing . . . . .	1	38	15	1 082	40 547	771	1 553	24 623	93 509	116 192	220 200	3 105
332313	Plate work manufacturing . . . . .	—	13	3	363	14 339	282	641	10 297	32 444	42 218	77 729	1 198
33232	Ornamental and architectural metal products manufacturing . . . . .	1	108	37	3 567	112 370	2 802	5 434	75 560	272 180	269 030	544 208	11 918
332321	Metal window and door manufacturing . . . . .	1	26	15	1 508	43 021	1 258	2 405	31 670	100 958	94 705	194 372	4 515
332322	Sheet metal work manufacturing . . . . .	—	51	18	1 651	55 026	1 278	2 511	35 980	134 988	132 240	271 689	6 261
332323	Ornamental and architectural metal work manufacturing . . . . .	1	31	4	408	14 323	266	518	7 910	36 234	42 085	78 147	1 142
3324	Boiler, tank, and shipping container manufacturing . . . . .	—	18	11	990	43 170	807	1 643	32 053	167 663	298 019	479 711	5 267
33242	Metal tank (heavy gauge) manufacturing . . . . .	—	8	4	e	D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) manufacturing . . . . .	—	8	4	e	D	D	D	D	D	D	D	D
33243	Metal can, box, and other metal container (light gauge) manufacturing . . . . .	—	8	7	615	28 465	514	1 072	22 126	127 981	262 918	403 113	D
332431	Metal can manufacturing . . . . .	—	4	3	e	D	D	D	D	D	D	D	D
332439	Other metal container manufacturing . . . . .	6	4	4	e	D	D	D	D	D	D	D	D
3325	Hardware manufacturing . . . . .	4	21	5	322	11 121	243	502	6 611	23 718	17 099	40 376	3 289
33251	Hardware manufacturing . . . . .	4	21	5	322	11 121	243	502	6 611	23 718	17 099	40 376	3 289
332510	Hardware manufacturing . . . . .	4	21	5	322	11 121	243	502	6 611	23 718	17 099	40 376	3 289
3326	Spring and wire product manufacturing . . . . .	2	31	12	1 016	34 679	795	1 689	23 060	112 337	109 540	220 702	4 796
33261	Spring and wire product manufacturing . . . . .	2	31	12	1 016	34 679	795	1 689	23 060	112 337	109 540	220 702	4 796
332618	Other fabricated wire product manufacturing . . . . .	2	24	9	793	26 486	650	1 395	18 280	91 109	93 389	184 146	3 866

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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Riverside-San Bernardino-Ontario, CA Metropolitan Statistical Area—Con.</b>												
332	Fabricated metal product manufacturing—Con.												
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	317	44	3 289	121 986	2 530	4 737	81 533	252 791	109 538	363 059	12 162
33271	Machine shops .....	3	266	27	2 210	80 157	1 734	3 069	54 243	172 884	64 277	238 582	8 189
332710	Machine shops .....	3	266	27	2 210	80 157	1 734	3 069	54 243	172 884	64 277	238 582	8 189
33272	Turned product and screw, nut, and bolt manufacturing .....	1	51	17	1 079	41 829	796	1 668	27 290	79 907	45 261	124 477	3 973
332721	Precision turned product manufacturing .....	1	37	14	907	35 625	685	1 441	23 783	64 482	36 583	99 985	3 295
3328	Coating, engraving, heat treating, and allied activities .....	1	60	19	1 123	42 936	869	1 821	28 317	103 763	201 184	320 240	13 465
33281	Coating, engraving, heat treating, and allied activities ..	1	60	19	1 123	42 936	869	1 821	28 317	103 763	201 184	320 240	13 465
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	—	34	13	803	34 664	617	1 341	22 735	88 569	194 233	298 183	13 116
332813	Electroplating, plating, polishing, anodizing, and coloring .....	4	25	6	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	1	102	30	3 259	116 196	2 209	4 462	61 062	264 165	198 153	468 782	19 357
33291	Metal valve manufacturing ....	2	13	7	1 025	36 546	692	1 486	19 136	96 015	74 212	172 477	3 417
332912	Fluid power valve and hose fitting manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting and trim manufacturing .....	5	5	3	420	14 384	313	681	9 568	37 671	35 829	72 957	D
33299	All other fabricated metal product manufacturing .....	1	89	23	2 234	79 650	1 517	2 976	41 926	168 150	123 941	296 305	15 940
332993	Ammunition (except small arms) manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
332996	Fabricated pipe and pipe fitting manufacturing .....	—	13	6	619	20 258	378	843	11 362	36 968	38 954	75 562	3 301
332999	All other miscellaneous fabricated metal product manufacturing .....	2	61	16	1 206	43 001	868	1 682	24 180	84 244	72 491	161 378	8 710
333	Machinery manufacturing .....	2	288	82	6 338	260 663	4 105	8 180	133 711	566 864	491 012	1 063 868	22 135
3331	Agriculture, construction, and mining machinery manufacturing .....	2	23	6	504	20 240	376	825	11 952	44 955	63 596	106 620	D
33311	Agricultural implement manufacturing .....	—	7	2	287	9 252	266	630	8 010	22 602	38 313	60 787	755
3332	Industrial machinery manufacturing .....	7	32	7	f	D	D	D	D	D	D	D	2 259
33329	Other industrial machinery manufacturing .....	6	23	6	544	27 118	292	563	11 469	51 362	35 298	90 246	2 023
333298	All other industrial machinery manufacturing .....	8	11	5	427	20 552	221	447	8 186	37 996	27 335	65 195	1 495
3333	Commercial and service industry machinery manufacturing .....	4	35	13	1 016	42 777	569	1 163	19 171	86 961	85 247	174 333	3 955
33331	Commercial and service industry machinery manufacturing .....	4	35	13	1 016	42 777	569	1 163	19 171	86 961	85 247	174 333	3 955
333314	Optical instrument and lens manufacturing .....	4	6	4	329	14 961	168	364	7 313	38 045	21 062	61 244	1 742
333319	Other commercial and service industry machinery manufacturing .....	4	23	7	598	23 847	347	677	10 195	43 614	58 412	101 784	1 936
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	30	13	1 252	47 986	974	1 974	31 300	106 408	113 777	227 248	2 419
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	30	13	1 252	47 986	974	1 974	31 300	106 408	113 777	227 248	2 419
333414	Heating equipment (except warm air furnaces) manufacturing .....	1	9	6	530	16 589	410	804	8 785	42 447	31 613	74 120	1 110
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	15	5	647	29 109	508	1 065	21 285	54 838	78 151	140 287	1 094

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Riverside-San Bernardino-Ontario, CA Metropolitan Statistical Area—Con.</b>												
333	Machinery manufacturing—Con.												
3335	Metalworking machinery manufacturing .....	1	93	15	1 054	42 694	730	1 366	25 737	83 619	33 064	115 950	6 953
33351	Metalworking machinery manufacturing .....	1	93	15	1 054	42 694	730	1 366	25 737	83 619	33 064	115 950	6 953
333511	Industrial mold manufacturing .....	—	41	8	701	29 520	482	920	17 909	57 686	20 418	77 228	6 054
3339	Other general purpose machinery manufacturing .....	2	72	27	1 851	75 572	1 088	2 118	31 674	182 212	154 385	332 499	4 775
33391	Pump and compressor manufacturing .....	3	7	4	650	24 925	376	731	10 399	74 010	86 410	161 060	2 194
333911	Pump and pumping equipment manufacturing ..	3	4	3	f	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	1	13	6	316	12 064	175	382	5 192	24 736	16 878	37 631	279
33399	All other general purpose machinery manufacturing ....	1	52	17	885	38 583	537	1 005	16 083	83 466	51 097	133 808	2 302
333999	All other miscellaneous general purpose machinery manufacturing .....	3	22	6	250	9 996	147	270	3 993	16 919	13 200	30 669	410
334	Computer and electronic product manufacturing .....	1	150	44	4 753	197 408	3 021	6 379	92 029	359 190	351 315	718 355	24 907
3341	Computer and peripheral equipment manufacturing .....	3	16	6	e	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing ....	3	16	6	e	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	1	9	3	e	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	—	10	4	542	29 644	201	397	6 749	99 883	34 478	134 308	D
33429	Other communications equipment manufacturing ....	—	4	2	e	D	D	D	D	D	D	D	D
334290	Other communications equipment manufacturing ..	—	4	2	e	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	—	64	19	2 687	100 121	2 014	4 289	61 436	107 225	221 080	335 765	D
33441	Semiconductor and other electronic component manufacturing .....	—	64	19	2 687	100 121	2 014	4 289	61 436	107 225	221 080	335 765	D
334413	Semiconductor and related device manufacturing .....	2	9	2	611	35 989	490	1 062	27 885	S	73 726	16 158	165
334417	Electronic connector manufacturing .....	—	8	3	961	21 581	892	1 969	18 434	64 068	55 243	126 879	365
334419	Other electronic component manufacturing .....	—	20	4	420	18 604	189	371	4 939	44 771	58 607	103 195	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	2	43	12	778	33 601	425	918	11 637	77 988	38 680	115 857	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	2	43	12	778	33 601	425	918	11 637	77 988	38 680	115 857	D
335	Electrical equipment, appliance, and component manufacturing .....	1	71	20	2 677	83 593	2 154	4 644	54 403	250 306	244 491	495 934	11 712
3351	Electric lighting equipment manufacturing .....	—	20	9	1 875	56 609	1 551	3 367	39 154	179 163	187 097	366 667	9 211
33512	Lighting fixture manufacturing ..	—	20	9	1 875	56 609	1 551	3 367	39 154	179 163	187 097	366 667	9 211
335129	Other lighting equipment manufacturing .....	—	9	4	1 441	45 306	1 177	2 514	30 659	114 210	156 685	271 110	D
3359	Other electrical equipment and component manufacturing .....	1	24	9	627	21 278	475	1 029	11 953	49 782	36 701	86 160	2 052
33593	Wiring device manufacturing ...	—	5	3	251	6 374	207	426	3 501	16 618	9 062	25 864	D
336	Transportation equipment manufacturing .....	1	226	96	12 782	434 862	10 097	21 018	299 473	1 097 142	1 387 513	2 449 060	53 322
3361	Motor vehicle manufacturing .....	4	9	4	e	D	D	D	D	D	D	D	D
33612	Heavy duty truck manufacturing .....	3	2	2	e	D	D	D	D	D	D	D	D
336120	Heavy duty truck manufacturing .....	3	2	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.**

[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 <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
	<b>SACRAMENTO--ARDEN-ARCADE--TRUCKEE, CA-NV COMBINED STATISTICAL AREA—Con.</b>												
311	Food manufacturing—Con.												
3118	Bakeries and tortilla manufacturing .....	—	78	26	h	D	D	D	D	D	D	D	
31181	Bread and bakery product manufacturing .....	—	72	24	h	D	D	D	D	D	D	D	
311811	Retail bakeries .....	1	61	16	f	D	D	D	D	D	D	D	
311812	Commercial bakeries .....	—	9	6	g	D	D	D	D	D	D	D	
311813	Frozen cakes, pies, and other pastries manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	
31183	Tortilla manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	
311830	Tortilla manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	
3119	Other food manufacturing .....	2	22	5	g	D	D	D	D	D	D	D	
31191	Snack food manufacturing .....	2	4	3	1 293	44 561	1 039	1 998	29 246	91 654	366 577	465 776	D
311911	Roasted nuts and peanut butter manufacturing .....	2	3	3	g	D	D	D	D	D	D	D	
312	Beverage and tobacco product manufacturing .....	2	35	10	g	D	D	D	D	D	D	D	
3121	Beverage manufacturing .....	2	35	10	g	D	D	D	D	D	D	D	
31211	Soft drink and ice manufacturing .....	2	10	8	1 438	57 423	326	680	12 361	287 865	230 601	517 621	13 226
312111	Soft drink manufacturing .....	2	5	5	1 206	50 657	224	457	9 774	255 013	220 209	474 373	11 563
313	Textile mills .....	9	9	1	e	D	D	D	D	D	D	D	
3132	Fabric mills .....	9	3	1	e	D	D	D	D	D	D	D	
31321	Broadwoven fabric mills .....	9	1	1	e	D	D	D	D	D	D	D	
313210	Broadwoven fabric mills .....	9	1	1	e	D	D	D	D	D	D	D	
314	Textile product mills .....	3	39	5	f	D	D	D	D	D	D	D	
3149	Other textile product mills .....	—	20	3	e	D	D	D	D	D	D	D	
31491	Textile bag and canvas mills .....	—	11	3	e	D	D	D	D	D	D	D	
314912	Canvas and related product mills .....	—	10	2	e	D	D	D	D	D	D	D	
315	Apparel manufacturing .....	3	28	2	e	D	D	D	D	D	D	D	
3152	Cut and sew apparel manufacturing .....	3	25	2	e	D	D	D	D	D	D	D	
321	Wood product manufacturing .....	—	102	44	h	D	D	D	D	D	D	D	
3211	Sawmills and wood preservation .....	—	9	5	f	D	D	D	D	D	D	D	
32111	Sawmills and wood preservation .....	—	9	5	f	D	D	D	D	D	D	D	
321113	Sawmills .....	—	8	4	f	D	D	D	D	D	D	D	
3212	Veneer, plywood, and engineered wood product manufacturing .....	—	12	9	f	D	D	D	D	D	D	D	
32121	Veneer, plywood, and engineered wood product manufacturing .....	—	12	9	f	D	D	D	D	D	D	D	
321214	Truss manufacturing .....	—	6	6	e	D	D	D	D	D	D	D	
3219	Other wood product manufacturing .....	1	81	30	h	D	D	D	D	D	D	D	
32191	Millwork .....	1	43	15	g	D	D	D	D	D	D	D	
321911	Wood window and door manufacturing .....	1	17	4	e	D	D	D	D	D	D	D	
321918	Other millwork (including flooring) .....	—	18	8	f	D	D	D	D	D	D	D	
32199	All other wood product manufacturing .....	—	25	10	g	D	D	D	D	D	D	D	
321991	Manufactured home (mobile home) manufacturing .....	—	9	4	f	D	D	D	D	D	D	D	
321992	Prefabricated wood building manufacturing .....	1	10	4	300	7 714	207	422	4 650	15 701	25 044	40 362	605
322	Paper manufacturing .....	—	18	11	640	24 257	506	974	16 730	69 630	92 812	160 547	6 866
3222	Converted paper product manufacturing .....	—	17	10	f	D	D	D	D	D	D	D	
32221	Paperboard container manufacturing .....	—	8	6	400	15 244	313	565	10 312	45 860	59 586	104 291	5 393
322211	Corrugated and solid fiber box manufacturing .....	—	7	5	e	D	D	D	D	D	D	D	
323	Printing and related support activities .....	—	249	34	i	D	D	D	D	D	D	D	
3231	Printing and related support activities .....	—	249	34	i	D	D	D	D	D	D	D	
32311	Printing .....	—	221	33	h	D	D	D	D	D	D	D	
323110	Commercial lithographic printing .....	1	96	17	g	D	D	D	D	D	D	D	
323114	Quick printing .....	—	55	6	g	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SACRAMENTO--ARDEN-ARCADE--TRUCKEE, CA-NV COMBINED STATISTICAL AREA—Con.</b>													
325	Chemical manufacturing .....	1	55	16	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	—	11	5	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	—	11	5	f	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	3	70	19	g	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	3	64	17	g	D	D	D	D	D	D	D	D
32613	Laminated plastics plate, sheet, (except packaging), and shape manufacturing .....	9	3	1	e	D	D	D	D	D	D	D	D
326130	Laminated plastics plate, sheet, (except packaging), and shape manufacturing ..	9	3	1	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	42	10	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	—	37	9	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	1	90	33	g	D	D	D	D	D	D	D	D
3271	Clay product and refractory manufacturing .....	—	8	3	e	D	D	D	D	D	D	D	D
32712	Clay building material and refractories manufacturing ....	—	2	2	e	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	1	53	26	g	D	D	D	D	D	D	D	D
32732	Ready-mix concrete manufacturing .....	—	40	20	g	D	D	D	D	D	D	D	D
327320	Ready-mix concrete manufacturing .....	—	40	20	g	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing .....	6	9	3	e	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing .....	6	9	3	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	282	52	3 460	125 733	2 551	5 022	79 640	298 918	229 306	524 447	12 092
3323	Architectural and structural metals manufacturing .....	2	92	25	g	D	D	D	D	D	D	D	D
33231	Plate work and fabricated structural product manufacturing .....	3	28	7	e	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing .....	2	16	5	e	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing .....	2	64	18	g	D	D	D	D	D	D	D	D
332321	Metal window and door manufacturing .....	2	10	6	337	10 473	261	520	6 782	19 362	17 841	37 282	429
332322	Sheet metal work manufacturing .....	2	36	7	f	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	124	14	g	D	D	D	D	D	D	D	D
33271	Machine shops .....	2	110	12	f	D	D	D	D	D	D	D	D
332710	Machine shops .....	2	110	12	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	2	28	7	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	3	99	29	g	D	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing .....	—	15	5	598	24 993	354	684	10 677	39 192	36 922	81 582	5 533
33331	Commercial and service industry machinery manufacturing .....	—	15	5	598	24 993	354	684	10 677	39 192	36 922	81 582	5 533
333314	Optical instrument and lens manufacturing .....	—	4	3	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	5	6	3	e	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	5	6	3	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SACRAMENTO--ARDEN-ARCADE--TRUCKEE, CA-NV COMBINED STATISTICAL AREA—Con.</b>												
333	Machinery manufacturing—Con.												
3335	Metalworking machinery manufacturing .....	—	19	7	e	D	D	D	D	D	D	D	D
33351	Metalworking machinery manufacturing .....	—	19	7	e	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	3	29	7	e	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	129	37	j	D	D	D	D	D	D	D	D
3341	Computer and peripheral equipment manufacturing .....	—	19	3	i	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing .....	—	19	3	i	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing .....	—	9	2	i	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	—	18	6	f	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	13	6	f	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	13	6	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	—	38	16	h	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	—	38	16	h	D	D	D	D	D	D	D	D
334411	Electron tube manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing .....	—	7	2	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	7	3	e	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing .....	3	15	7	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	35	8	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	35	8	g	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals.....	—	10	3	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing.....	1	23	8	g	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	2	10	3	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	2	10	3	f	D	D	D	D	D	D	D	D
335314	Relay and industrial control manufacturing .....	2	6	3	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing.....	—	9	5	e	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing .....	—	3	3	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	78	19	h	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing .....	1	19	8	408	14 129	335	676	9 693	27 941	37 515	65 414	1 405
33621	Motor vehicle body and trailer manufacturing .....	1	19	8	408	14 129	335	676	9 693	27 941	37 515	65 414	1 405

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SACRAMENTO--ARDEN-ARCADE--TRUCKEE, CA-NV COMBINED STATISTICAL AREA—Con.</b>												
336	Transportation equipment manufacturing—Con.												
3363	Motor vehicle parts manufacturing .....	4	30	6	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	—	4	1	302	7 042	266	497	5 233	15 569	8 702	17 842	161
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	—	4	1	302	7 042	266	497	5 233	15 569	8 702	17 842	161
33639	Other motor vehicle parts manufacturing .....	4	10	4	469	13 202	422	733	10 569	57 737	17 551	74 271	1 256
336399	All other motor vehicle parts manufacturing .....	4	10	4	469	13 202	422	733	10 569	57 737	17 551	74 271	1 256
3364	Aerospace product and parts manufacturing .....	—	9	3	g	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	9	3	g	D	D	D	D	D	D	D	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing .....	—	1	1	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
337	Furniture and related product manufacturing .....	2	156	35	2 803	78 486	2 124	4 233	48 412	157 274	148 232	305 533	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	2	128	26	g	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing ....	2	84	15	g	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing ..	2	84	15	g	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	1	44	11	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing .....	1	29	8	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	5	21	7	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	5	21	7	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing .....	6	9	3	e	D	D	D	D	D	D	D	D
3379	Other furniture related product manufacturing .....	1	7	2	362	10 663	235	477	4 779	23 914	30 488	54 150	D
33792	Blind and shade manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
337920	Blind and shade manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	2	'212	34	h	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing .....	2	96	16	1 719	74 928	968	1 964	29 579	81 464	61 851	143 111	D
33911	Medical equipment and supplies manufacturing .....	2	96	16	1 719	74 928	968	1 964	29 579	81 464	61 851	143 111	D
339112	Surgical and medical instrument manufacturing ..	—	10	7	f	D	D	D	D	D	D	D	D
339116	Dental laboratories .....	6	58	5	e	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing .....	2	'116	18	g	D	D	D	D	D	D	D	D
33995	Sign manufacturing .....	2	'41	6	e	D	D	D	D	D	D	D	D
339950	Sign manufacturing .....	2	'41	6	e	D	D	D	D	D	D	D	D
33999	All other miscellaneous manufacturing .....	2	43	9	754	22 463	522	953	10 249	50 712	22 434	73 142	D
339999	All other miscellaneous manufacturing .....	6	34	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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SACRAMENTO--ARDEN-ARCADE--TRUCKEE, CA-NV COMBINED STATISTICAL AREA—Con.</b>													
<b>Gardnerville Ranchos, NV Micropolitan Statistical Area</b>													
31-33	Manufacturing .....	—	63	11	2 438	116 061	1 214	2 547	40 498	221 833	132 181	349 953	9 240
314	Textile product mills .....	—	3	2	e	D	D	D	D	D	D	D	D
3149	Other textile product mills .....	—	3	2	e	D	D	D	D	D	D	D	D
31491	Textile bag and canvas mills .....	—	2	2	e	D	D	D	D	D	D	D	D
314912	Canvas and related product mills .....	—	2	2	e	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	9	3	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	4	2	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	4	2	g	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	—	1	1	g	D	D	D	D	D	D	D	D
<b>Sacramento--Arden-Arcade--Roseville, CA Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	1	'1 631	404	'50 524	'1 904 950	'31 364	'61 140	'989 076	'6 196 452	'5 486 667	'11 709 481	'535 580
311	Food manufacturing .....	—	142	45	7 448	293 620	4 773	9 376	158 445	1 149 004	1 019 869	2 167 588	39 855
3112	Grain and oilseed milling .....	—	7	4	517	24 389	378	875	16 144	52 346	198 489	242 402	7 884
31121	Flour milling and malt manufacturing .....	—	6	4	f	D	D	D	D	D	D	D	D
311212	Rice milling .....	—	4	3	e	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing .....	1	15	2	452	17 738	413	903	14 355	26 369	27 515	54 272	D
31131	Sugar manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
311313	Beet sugar manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	9	2	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	—	7	2	f	D	D	D	D	D	D	D	D
311422	Specialty canning .....	—	2	1	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	—	6	3	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	—	76	26	3 469	125 634	1 651	2 923	43 742	295 435	86 031	381 251	5 295
31181	Bread and bakery product manufacturing .....	—	70	24	3 147	109 699	1 366	2 540	35 887	282 253	77 466	359 507	4 950
311811	Retail bakeries .....	1	60	16	f	D	D	D	D	D	D	D	808
311812	Commercial bakeries .....	—	8	6	1 923	90 869	631	1 221	25 480	248 338	55 119	303 206	D
311813	Frozen cakes, pies, and other pastries manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	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
3119	Other food manufacturing .....	2	18	5	1 389	49 069	1 113	2 150	32 115	108 503	377 176	493 428	8 513
31191	Snack food manufacturing .....	2	4	3	1 293	44 561	1 039	1 998	29 246	91 654	366 577	465 776	D
311911	Roasted nuts and peanut butter manufacturing .....	2	3	3	g	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	2	31	10	1 626	62 061	458	847	14 886	304 769	244 795	548 515	15 501
3121	Beverage manufacturing .....	2	31	10	1 626	62 061	458	847	14 886	304 769	244 795	548 515	15 501
31211	Soft drink and ice manufacturing .....	2	10	8	1 438	57 423	326	680	12 361	287 865	230 601	517 621	13 226
312111	Soft drink manufacturing .....	2	5	5	1 206	50 657	224	457	9 774	255 013	220 209	474 373	11 563
313	Textile mills .....	9	8	1	e	D	D	D	D	D	D	D	D
3132	Fabric mills .....	9	3	1	e	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills .....	9	1	1	e	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills .....	9	1	1	e	D	D	D	D	D	D	D	D
314	Textile product mills .....	7	34	3	313	7 661	241	459	4 790	15 339	15 353	30 682	168

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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SACRAMENTO--ARDEN-ARCADE--TRUCKEE, CA-NV COMBINED STATISTICAL AREA—Con.</b>													
<b>Sacramento--Arden-Arcade--Roseville, CA Metropolitan Statistical Area—Con.</b>													
315	Apparel manufacturing .....	3	27	2	273	7 004	206	387	4 152	11 050	7 358	18 717	D
3152	Cut and sew apparel manufacturing .....	3	24	2	269	6 906	203	383	4 095	10 937	7 240	18 486	D
321	Wood product manufacturing .....	—	90	42	3 946	125 243	3 300	6 818	92 870	243 975	400 951	651 030	11 677
3211	Sawmills and wood preservation .....	—	7	5	715	30 115	629	1 354	25 117	44 191	142 898	192 468	3 873
32111	Sawmills and wood preservation .....	—	7	5	715	30 115	629	1 354	25 117	44 191	142 898	192 468	3 873
321113	Sawmills .....	—	6	4	f	D	D	D	D	D	D	D	D
3212	Veneer, plywood, and engineered wood product manufacturing .....	—	10	8	534	19 280	434	879	13 726	40 726	50 755	91 919	1 565
32121	Veneer, plywood, and engineered wood product manufacturing .....	—	10	8	534	19 280	434	879	13 726	40 726	50 755	91 919	1 565
321214	Truss manufacturing .....	—	5	5	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	1	73	29	2 697	75 848	2 237	4 585	54 027	159 058	207 298	366 643	6 239
32191	Millwork .....	—	37	15	1 292	36 896	1 103	2 323	27 212	80 674	118 823	200 320	4 297
321911	Wood window and door manufacturing .....	—	14	4	468	13 227	399	874	9 544	40 146	41 853	82 074	888
321918	Other millwork (including flooring) .....	—	16	8	661	18 143	565	1 147	13 818	33 919	67 419	102 439	3 213
32199	All other wood product manufacturing .....	—	23	9	1 192	34 310	949	1 921	23 374	70 260	79 348	149 310	1 224
321991	Manufactured home (mobile home) manufacturing .....	—	8	4	849	25 760	710	1 442	18 075	52 809	53 509	106 188	576
321992	Prefabricated wood building manufacturing .....	1	10	4	300	7 714	207	422	4 650	15 701	25 044	40 362	605
322	Paper manufacturing .....	—	18	11	640	24 257	506	974	16 730	69 630	92 812	160 547	6 866
3222	Converted paper product manufacturing .....	—	17	10	f	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	—	8	6	400	15 244	313	565	10 312	45 860	59 586	104 291	5 393
322211	Corrugated and solid fiber box manufacturing .....	—	7	5	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	—	230	33	5 056	179 987	3 534	6 038	107 681	686 609	315 115	994 165	30 377
3231	Printing and related support activities .....	—	230	33	5 056	179 987	3 534	6 038	107 681	686 609	315 115	994 165	30 377
32311	Printing .....	—	204	32	4 904	174 944	3 415	5 838	104 560	675 734	312 830	980 953	30 053
323110	Commercial lithographic printing .....	1	89	17	1 694	63 875	1 217	2 162	39 621	128 696	89 848	211 197	6 491
323114	Quick printing .....	—	53	6	g	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	1	42	15	1 257	64 158	634	1 167	24 765	271 242	211 115	485 796	15 694
3254	Pharmaceutical and medicine manufacturing .....	—	10	5	750	40 645	307	523	11 259	196 433	46 240	246 877	8 256
32541	Pharmaceutical and medicine manufacturing .....	—	10	5	750	40 645	307	523	11 259	196 433	46 240	246 877	8 256
325413	In-vitro diagnostic substance manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	3	63	17	2 118	67 833	1 595	3 445	45 009	205 306	185 152	388 207	9 881
3261	Plastics product manufacturing .....	3	57	15	2 027	65 328	1 529	3 296	43 570	194 471	178 424	370 646	9 755
32613	Laminated plastics plate, sheet, (except packaging), and shape manufacturing .....	9	3	1	e	D	D	D	D	D	D	D	D
326130	Laminated plastics plate, sheet, (except packaging), and shape manufacturing .....	9	3	1	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	36	8	1 235	39 561	994	2 208	27 821	134 273	105 920	240 583	5 751
326199	All other plastics product manufacturing .....	—	32	7	1 176	37 196	963	2 139	26 841	130 184	104 455	235 035	5 607

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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SACRAMENTO--ARDEN-ARCADE--TRUCKEE, CA-NV COMBINED STATISTICAL AREA—Con.</b>												
	<b>Sacramento--Arden-Arcade--Roseville, CA Metropolitan Statistical Area—Con.</b>												
327	Nonmetallic mineral product manufacturing .....	1	80	31	2 255	88 402	1 676	3 180	61 382	230 831	196 773	425 889	14 352
3271	Clay product and refractory manufacturing .....	—	7	3	e	D	D	D	D	D	D	D	D
32712	Clay building material and refractories manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	1	47	24	1 501	62 613	1 121	2 056	42 611	158 466	154 069	313 521	9 624
32732	Ready-mix concrete manufacturing .....	—	35	18	985	41 506	808	1 418	32 964	113 098	122 737	236 108	7 340
327320	Ready-mix concrete manufacturing .....	—	35	18	985	41 506	808	1 418	32 964	113 098	122 737	236 108	7 340
32739	Other concrete product manufacturing .....	6	8	3	353	15 857	189	398	6 215	28 524	19 853	48 479	1 414
327390	Other concrete product manufacturing .....	6	8	3	353	15 857	189	398	6 215	28 524	19 853	48 479	1 414
332	Fabricated metal product manufacturing .....	2	242	48	3 082	110 580	2 313	4 550	72 113	268 704	215 553	480 582	11 166
3323	Architectural and structural metals manufacturing .....	2	83	22	1 351	47 320	976	1 906	28 458	103 898	109 451	212 574	2 918
33231	Plate work and fabricated structural product manufacturing .....	3	25	5	328	12 930	231	450	7 613	31 303	43 214	74 605	1 131
332312	Fabricated structural metal manufacturing .....	2	15	4	260	10 804	181	362	6 258	27 025	39 425	66 538	962
33232	Ornamental and architectural metal products manufacturing .....	2	58	17	1 023	34 390	745	1 456	20 845	72 595	66 237	137 969	1 787
332321	Metal window and door manufacturing .....	2	10	6	337	10 473	261	520	6 782	19 362	17 841	37 282	429
332322	Sheet metal work manufacturing .....	1	32	6	538	19 614	375	739	11 361	44 949	41 690	85 734	1 131
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	100	14	1 009	37 166	783	1 575	26 698	69 400	30 971	100 311	2 900
33271	Machine shops .....	2	89	12	877	31 627	683	1 391	22 945	60 272	28 079	87 725	2 427
332710	Machine shops .....	2	89	12	877	31 627	683	1 391	22 945	60 272	28 079	87 725	2 427
3329	Other fabricated metal product manufacturing .....	2	23	6	314	11 375	259	480	7 652	38 419	28 918	64 756	2 654
333	Machinery manufacturing .....	3	89	27	1 955	85 717	1 231	2 413	42 608	167 934	143 247	322 573	15 000
3333	Commercial and service industry machinery manufacturing .....	—	15	5	598	24 993	354	684	10 677	39 192	36 922	81 582	5 533
33331	Commercial and service industry machinery manufacturing .....	—	15	5	598	24 993	354	684	10 677	39 192	36 922	81 582	5 533
333314	Optical instrument and lens manufacturing .....	—	4	3	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	5	4	2	261	9 339	184	391	5 334	24 060	26 025	50 073	491
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	5	4	2	261	9 339	184	391	5 334	24 060	26 025	50 073	491
3335	Metalworking machinery manufacturing .....	—	16	7	311	18 943	222	437	11 741	25 759	13 141	38 351	3 153
33351	Metalworking machinery manufacturing .....	—	16	7	311	18 943	222	437	11 741	25 759	13 141	38 351	3 153
3339	Other general purpose machinery manufacturing .....	3	28	7	418	18 332	213	343	6 050	46 435	38 600	87 763	3 225
334	Computer and electronic product manufacturing .....	—	101	27	10 080	341 066	3 878	7 610	132 702	1 680 348	1 720 857	3 410 171	315 026
3341	Computer and peripheral equipment manufacturing .....	—	16	3	i	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing .....	—	16	3	i	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing .....	—	7	2	i	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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	<b>SACRAMENTO--ARDEN-ARCADE--TRUCKEE, CA-NV COMBINED STATISTICAL AREA—Con.</b>												
	<b>Sacramento--Arden-Arcade--Roseville, CA Metropolitan Statistical Area—Con.</b>												
334	Computer and electronic product manufacturing—Con.												
3342	Communications equipment manufacturing .....	1	10	3	e	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	1	7	3	254	15 583	66	138	2 166	26 487	46 841	74 253	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	1	7	3	254	15 583	66	138	2 166	26 487	46 841	74 253	D
3344	Semiconductor and other electronic component manufacturing .....	—	31	12	3 561	179 219	2 518	4 887	100 789	395 596	168 381	570 764	D
33441	Semiconductor and other electronic component manufacturing .....	—	31	12	3 561	179 219	2 518	4 887	100 789	395 596	168 381	570 764	D
334411	Electron tube manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing .....	—	6	2	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	5	2	337	11 067	301	429	8 690	21 605	31 731	52 753	D
334419	Other electronic component manufacturing .....	2	12	5	476	19 432	393	758	14 674	48 500	13 105	60 303	803
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	1	29	6	e	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	1	29	6	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	1	19	6	840	37 754	581	1 123	21 293	106 119	103 674	213 688	3 687
3353	Electrical equipment manufacturing .....	2	8	3	572	26 739	388	745	14 202	59 799	43 993	103 708	1 400
33531	Electrical equipment manufacturing .....	2	8	3	572	26 739	388	745	14 202	59 799	43 993	103 708	1 400
335314	Relay and industrial control manufacturing .....	2	6	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	68	18	3 470	202 929	2 164	4 321	81 815	370 181	284 319	665 687	18 119
3362	Motor vehicle body and trailer manufacturing .....	1	19	8	408	14 129	335	676	9 693	27 941	37 515	65 414	1 405
33621	Motor vehicle body and trailer manufacturing .....	1	19	8	408	14 129	335	676	9 693	27 941	37 515	65 414	1 405
3363	Motor vehicle parts manufacturing .....	4	28	6	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	—	4	1	302	7 042	266	497	5 233	15 569	8 702	17 842	161
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	—	4	1	302	7 042	266	497	5 233	15 569	8 702	17 842	161
33639	Other motor vehicle parts manufacturing .....	4	10	4	469	13 202	422	733	10 569	57 737	17 551	74 271	1 256
336399	All other motor vehicle parts manufacturing .....	4	10	4	469	13 202	422	733	10 569	57 737	17 551	74 271	1 256
3364	Aerospace product and parts manufacturing .....	—	5	3	g	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	5	3	g	D	D	D	D	D	D	D	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing .....	—	1	1	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

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SACRAMENTO--ARDEN-ARCADE--TRUCKEE, CA-NV COMBINED STATISTICAL AREA—Con.</b>													
<b>Sacramento--Arden-Arcade--Roseville, CA Metropolitan Statistical Area—Con.</b>													
337	Furniture and related product manufacturing .....	2	141	34	2 622	73 290	1 979	3 913	44 817	147 843	131 949	279 413	8 260
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	2	114	25	1 777	46 220	1 402	2 727	30 968	91 999	72 570	164 359	3 679
33711	Wood kitchen cabinet and countertop manufacturing ....	2	76	15	988	27 302	758	1 414	18 040	52 312	34 796	86 661	2 694
337110	Wood kitchen cabinet and countertop manufacturing ..	2	76	15	988	27 302	758	1 414	18 040	52 312	34 796	86 661	2 694
33712	Household and institutional furniture manufacturing .....	1	38	10	789	18 918	644	1 313	12 928	39 687	37 774	77 698	985
337122	Nonupholstered wood household furniture manufacturing .....	1	24	7	558	13 331	459	957	9 313	27 296	21 031	48 350	797
3372	Office furniture (including fixtures) manufacturing .....	5	20	7	483	16 407	342	709	9 070	31 930	28 891	60 904	D
33721	Office furniture (including fixtures) manufacturing .....	5	20	7	483	16 407	342	709	9 070	31 930	28 891	60 904	D
337215	Showcase, partition, shelving, and locker manufacturing .....	6	8	3	261	8 371	210	461	5 256	18 027	9 822	27 829	539
3379	Other furniture related product manufacturing .....	1	7	2	362	10 663	235	477	4 779	23 914	30 488	54 150	D
33792	Blind and shade manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
337920	Blind and shade manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	2	'180	32	'2 891	'111 880	'1 752	'3 457	'46 673	'170 232	'96 885	'267 781	'13 476
3391	Medical equipment and supplies manufacturing .....	2	85	14	1 539	68 140	869	1 756	26 519	77 813	53 169	130 745	7 931
33911	Medical equipment and supplies manufacturing .....	2	85	14	1 539	68 140	869	1 756	26 519	77 813	53 169	130 745	7 931
339112	Surgical and medical instrument manufacturing ..	—	9	6	775	41 573	408	833	12 430	32 551	30 621	62 860	2 733
339116	Dental laboratories .....	6	50	5	447	11 907	281	567	8 382	22 138	3 544	25 712	1 469
3399	Other miscellaneous manufacturing .....	2	'95	18	'1 352	'43 740	'883	'1 701	'20 154	'92 419	'43 716	'137 036	'5 545
33995	Sign manufacturing .....	2	'35	6	'374	'14 920	'206	'436	'6 317	'27 888	'10 009	'37 932	'773
339950	Sign manufacturing .....	2	'35	6	'374	'14 920	'206	'436	'6 317	'27 888	'10 009	'37 932	'773
33999	All other miscellaneous manufacturing .....	2	38	9	747	22 282	517	945	10 155	50 412	22 193	72 605	3 907
339999	All other miscellaneous manufacturing .....	6	30	4	258	6 341	195	260	2 995	13 683	10 281	24 234	688
<b>Truckee-Grass Valley, CA Micropolitan Statistical Area</b>													
31-33	Manufacturing .....	2	168	21	1 901	81 300	1 226	2 319	40 536	255 772	176 213	399 853	13 077
334	Computer and electronic product manufacturing .....	1	19	7	612	37 364	297	594	14 404	164 001	101 767	232 835	5 705
3342	Communications equipment manufacturing .....	—	7	3	e	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	6	3	e	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	6	3	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	1	31	2	257	8 574	157	279	4 042	7 601	11 805	19 522	996
<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	'10 105	'2 867	'391 718	'20 274 458	'200 885	'382 550	'7 397 400	'61 278 433	'54 129 278	'116 133 304	'4 712 136

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
311	Food manufacturing .....	3	866	263	29 487	960 240	19 299	37 029	536 913	3 474 094	3 089 556	6 597 499	200 464
3111	Animal food manufacturing .....	2	21	5	e	D	D	D	D	D	D	D	D
31111	Animal food manufacturing ....	2	21	5	e	D	D	D	D	D	D	D	D
311119	Other animal food manufacturing .....	1	17	5	e	D	D	D	D	D	D	D	D
3112	Grain and oilseed milling .....	1	19	8	f	D	D	D	D	D	D	D	D
31122	Starch and vegetable fats and oils manufacturing .....	1	10	3	e	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing .....	4	55	23	h	D	D	D	D	D	D	D	D
31131	Sugar manufacturing .....	9	1	1	g	D	D	D	D	D	D	D	D
311311	Sugarcane mills .....	9	1	1	g	D	D	D	D	D	D	D	D
31132	Chocolate and confectionery manufacturing from cacao beans .....	3	8	3	e	D	D	D	D	D	D	D	D
311320	Chocolate and confectionery manufacturing from cacao beans .....	3	8	3	e	D	D	D	D	D	D	D	D
31133	Confectionery manufacturing from purchased chocolate ....	4	31	9	g	D	D	D	D	D	D	D	D
311330	Confectionery manufacturing from purchased chocolate ..	4	31	9	g	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery manufacturing .....	—	15	10	g	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing .....	—	15	10	g	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	1	63	31	h	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	2	30	17	g	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	4	8	6	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	—	22	11	g	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	—	33	14	g	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning .	—	23	10	f	D	D	D	D	D	D	D	D
311423	Dried and dehydrated food manufacturing .....	—	8	4	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	2	46	18	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	3	28	15	g	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing ....	3	13	8	g	D	D	D	D	D	D	D	D
311513	Cheese manufacturing .....	1	11	5	f	D	D	D	D	D	D	D	D
31152	Ice cream and frozen dessert manufacturing .....	—	18	3	e	D	D	D	D	D	D	D	D
311520	Ice cream and frozen dessert manufacturing .....	—	18	3	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	2	61	30	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	2	61	30	h	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	1	13	4	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	2	32	19	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	4	13	6	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	3	444	106	j	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	4	396	89	i	D	D	D	D	D	D	D	D
311811	Retail bakeries .....	2	276	37	h	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	5	110	44	i	D	D	D	D	D	D	D	D
311813	Frozen cakes, pies, and other pastries manufacturing .....	1	10	8	g	D	D	D	D	D	D	D	D
31182	Cookie, cracker, and pasta manufacturing .....	1	41	11	g	D	D	D	D	D	D	D	D
311821	Cookie and cracker manufacturing .....	—	21	7	f	D	D	D	D	D	D	D	D
31183	Tortilla manufacturing .....	2	7	6	e	D	D	D	D	D	D	D	D
311830	Tortilla manufacturing .....	2	7	6	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	3	151	40	h	D	D	D	D	D	D	D	D
31191	Snack food manufacturing .....	2	14	6	e	D	D	D	D	D	D	D	D
311919	Other snack food manufacturing .....	3	10	3	e	D	D	D	D	D	D	D	D
31192	Coffee and tea manufacturing .	3	25	6	f	D	D	D	D	D	D	D	D
311920	Coffee and tea manufacturing .....	3	25	6	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	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)				
<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
311	Food manufacturing—Con.											
3119	Other food manufacturing—Con.											
31194	Seasoning and dressing manufacturing .....	2	20	7	e	D	D	D	D	D	D	D
311941	Mayonnaise, dressing, and other prepared sauce manufacturing .....	2	16	6	e	D	D	D	D	D	D	D
31199	All other food manufacturing .....	3	87	19	g	D	D	D	D	D	D	D
311991	Perishable prepared food manufacturing .....	4	27	7	f	D	D	D	D	D	D	D
311999	All other miscellaneous food manufacturing .....	3	60	12	f	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	2	469	143	j	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	2	469	143	j	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	2	23	12	g	D	D	D	D	D	D	D
312111	Soft drink manufacturing .....	1	15	8	g	D	D	D	D	D	D	D
31212	Breweries .....	—	14	6	f	D	D	D	D	D	D	D
312120	Breweries .....	—	14	6	f	D	D	D	D	D	D	D
31213	Wineries .....	1	426	123	j	D	D	D	D	D	D	D
312130	Wineries .....	1	426	123	j	D	D	D	D	D	D	D
313	Textile mills .....	2	43	3	e	D	D	D	D	D	D	D
3133	Textile and fabric finishing and fabric coating mills .....	1	24	3	e	D	D	D	D	D	D	D
314	Textile product mills .....	3	155	21	g	D	D	D	D	D	D	D
3141	Textile furnishings mills .....	2	67	6	f	D	D	D	D	D	D	D
31412	Curtain and linen mills .....	2	63	6	f	D	D	D	D	D	D	D
314121	Curtain and drapery mills .....	4	55	4	e	D	D	D	D	D	D	D
314129	Other household textile product mills .....	—	8	2	e	D	D	D	D	D	D	D
3149	Other textile product mills .....	3	88	15	f	D	D	D	D	D	D	D
31491	Textile bag and canvas mills .....	2	39	5	e	D	D	D	D	D	D	D
31499	All other textile product mills .....	4	49	10	f	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills .....	3	45	8	e	D	D	D	D	D	D	D
315	Apparel manufacturing .....	7	354	107	i	D	D	D	D	D	D	D
3151	Apparel knitting mills .....	—	6	3	f	D	D	D	D	D	D	D
31519	Other apparel knitting mills .....	—	6	3	f	D	D	D	D	D	D	D
315191	Outerwear knitting mills .....	—	6	3	f	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing .....	7	314	97	i	D	D	D	D	D	D	D
31521	Cut and sew apparel contractors .....	4	205	54	h	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors .....	4	192	53	h	D	D	D	D	D	D	D
31522	Men's and boys' cut and sew apparel manufacturing .....	9	23	11	g	D	D	D	D	D	D	D
315224	Men's and boys' cut and sew trouser, slack, and jean manufacturing .....	9	4	3	e	D	D	D	D	D	D	D
315228	Men's and boys' cut and sew other outerwear manufacturing .....	3	7	4	e	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing .....	1	68	29	h	D	D	D	D	D	D	D
315232	Women's and girls' cut and sew blouse and shirt manufacturing .....	—	14	6	f	D	D	D	D	D	D	D
315233	Women's and girls' cut and sew dress manufacturing .....	2	18	8	734	22 356	291	519	5 882	69 712	74 527	145 460
315239	Women's and girls' cut and sew other outerwear manufacturing .....	—	25	11	f	D	D	D	D	D	D	D
31529	Other cut and sew apparel manufacturing .....	1	18	3	e	D	D	D	D	D	D	D
3159	Apparel accessories and other apparel manufacturing .....	2	34	7	f	D	D	D	D	D	D	D
31599	Apparel accessories and other apparel manufacturing .....	2	34	7	f	D	D	D	D	D	D	D
315999	Other apparel accessories and other apparel manufacturing .....	2	25	5	e	D	D	D	D	D	D	D

See footnotes at end of table.

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>													
316	Leather and allied product manufacturing .....	-	35	9	f	D	D	D	D	D	D	D	D
3162	Footwear manufacturing .....	-	5	1	e	D	D	D	D	D	D	D	D
31621	Footwear manufacturing .....	-	5	1	e	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
3169	Other leather and allied product manufacturing .....	1	25	6	e	D	D	D	D	D	D	D	D
31699	Other leather and allied product manufacturing .....	1	25	6	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	2	219	69	4 373	133 933	3 401	6 798	85 883	282 834	351 593	635 083	D
3211	Sawmills and wood preservation .....	5	10	3	e	D	D	D	D	D	D	D	D
32111	Sawmills and wood preservation .....	5	10	3	e	D	D	D	D	D	D	D	D
321113	Sawmills .....	5	7	3	e	D	D	D	D	D	D	D	D
3212	Veneer, plywood, and engineered wood product manufacturing .....	-	15	8	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing .....	-	15	8	f	D	D	D	D	D	D	D	D
321214	Truss manufacturing .....	1	7	5	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	2	194	58	h	D	D	D	D	D	D	D	D
32191	Millwork .....	2	82	23	g	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing .....	2	49	13	f	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring) .....	2	27	8	e	D	D	D	D	D	D	D	D
32192	Wood container and pallet manufacturing .....	2	57	24	g	D	D	D	D	D	D	D	D
321920	Wood container and pallet manufacturing .....	2	57	24	g	D	D	D	D	D	D	D	D
32199	All other wood product manufacturing .....	1	55	11	f	D	D	D	D	D	D	D	D
321992	Prefabricated wood building manufacturing .....	-	14	2	e	D	D	D	D	D	D	D	D
321999	All other miscellaneous wood product manufacturing .....	2	38	8	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	94	48	h	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	-	7	5	f	D	D	D	D	D	D	D	D
32213	Paperboard mills .....	-	5	4	e	D	D	D	D	D	D	D	D
322130	Paperboard mills .....	-	5	4	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	1	87	43	h	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	-	37	25	g	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	-	23	16	g	D	D	D	D	D	D	D	D
322212	Folding paperboard box manufacturing .....	2	6	4	e	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing ..	2	21	8	f	D	D	D	D	D	D	D	D
322222	Coated and laminated paper manufacturing .....	2	14	4	e	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing .....	-	19	8	f	D	D	D	D	D	D	D	D
322231	Die-cut paper and paperboard office supplies manufacturing .....	-	11	4	e	D	D	D	D	D	D	D	D
322232	Envelope manufacturing .....	-	4	4	308	11 358	254	562	7 969	22 564	23 646	46 068	691
323	Printing and related support activities .....	2	'1 110	'161	j	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	2	'1 110	'161	j	D	D	D	D	D	D	D	D
32311	Printing .....	2	'983	'143	j	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	2	467	73	i	D	D	D	D	D	D	D	D
323112	Commercial flexographic printing .....	-	24	8	e	D	D	D	D	D	D	D	D
323113	Commercial screen printing ..	3	'112	'19	g	D	D	D	D	D	D	D	D
323114	Quick printing .....	3	237	13	g	D	D	D	D	D	D	D	D
323115	Digital printing .....	3	44	9	639	25 981	383	624	12 416	53 933	20 274	73 980	2 937
323116	Manifold business forms printing .....	1	11	6	e	D	D	D	D	D	D	D	D
323117	Books printing .....	4	23	8	f	D	D	D	D	D	D	D	D
323119	Other commercial printing ...	6	57	6	e	D	D	D	D	D	D	D	D
32312	Support activities for printing...	3	127	18	g	D	D	D	D	D	D	D	D
323121	Tradebinding and related work .....	1	46	9	872	30 385	652	1 278	19 628	52 906	20 361	74 029	1 520
323122	Prepress services .....	4	81	9	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>													
324	Petroleum and coal products manufacturing .....	-	47	18	h	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing .....	-	47	18	h	D	D	D	D	D	D	D	D
32411	Petroleum refineries .....	-	7	7	h	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	-	7	7	h	D	D	D	D	D	D	D	D
32412	Asphalt paving, roofing, and saturated materials manufacturing .....	2	29	8	f	D	D	D	D	D	D	D	D
324121	Asphalt paving mixture and block manufacturing .....	2	26	6	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	1	312	109	j	D	D	D	D	D	D	D	D
3251	Basic chemical manufacturing ...	1	34	17	g	D	D	D	D	D	D	D	D
32512	Industrial gas manufacturing ...	3	14	4	e	D	D	D	D	D	D	D	D
325120	Industrial gas manufacturing ...	3	14	4	e	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical manufacturing .....	2	14	7	e	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical manufacturing ...	2	13	7	e	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	-	5	5	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing .....	-	5	5	f	D	D	D	D	D	D	D	D
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing .....	-	9	5	e	D	D	D	D	D	D	D	D
32521	Resin and synthetic rubber manufacturing .....	-	9	5	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	1	79	40	j	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	1	79	40	j	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	1	30	19	j	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance manufacturing .....	-	16	10	f	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) manufacturing ..	1	17	8	g	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing .....	1	43	13	g	D	D	D	D	D	D	D	D
32551	Paint and coating manufacturing .....	2	29	7	f	D	D	D	D	D	D	D	D
325510	Paint and coating manufacturing .....	2	29	7	f	D	D	D	D	D	D	D	D
32552	Adhesive manufacturing .....	-	14	6	f	D	D	D	D	D	D	D	D
325520	Adhesive manufacturing .....	-	14	6	f	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing .	2	63	17	f	D	D	D	D	D	D	D	D
32561	Soap and cleaning compound manufacturing .....	2	35	10	e	D	D	D	D	D	D	D	D
325611	Soap and other detergent manufacturing .....	3	21	7	e	D	D	D	D	D	D	D	D
32562	Toilet preparation manufacturing .....	5	28	7	e	D	D	D	D	D	D	D	D
325620	Toilet preparation manufacturing .....	5	28	7	e	D	D	D	D	D	D	D	D
3259	Other chemical product and preparation manufacturing .....	2	72	15	g	D	D	D	D	D	D	D	D
32592	Explosives manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
325920	Explosives manufacturing .....	-	2	1	e	D	D	D	D	D	D	D	D
32599	All other chemical product and preparation manufacturing ...	2	61	12	g	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, and chemical manufacturing .....	1	14	4	e	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product and preparation manufacturing .	1	28	6	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	3	281	106	j	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	3	255	104	j	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	1	33	13	g	D	D	D	D	D	D	D	D
326111	Plastics bag manufacturing ..	2	14	6	f	D	D	D	D	D	D	D	D
326112	Plastics packaging film and sheet (including laminated) manufacturing .....	-	5	3	296	12 080	243	434	8 695	31 496	37 760	69 227	1 835
326113	Unlaminated plastics film and sheet (except packaging) manufacturing .....	2	14	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	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)	
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>													
326	Plastics and rubber products manufacturing—Con.													
3261	Plastics product manufacturing—Con.													
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing . . . . .	9	12	5	g	D	D	D	D	D	D	D		
326121	Unlaminated plastics profile shape manufacturing . . . . .	9	8	4	g	D	D	D	D	D	D	D		
32614	Polystyrene foam product manufacturing . . . . .	3	13	5	e	D	D	D	D	D	D	D		
326140	Polystyrene foam product manufacturing . . . . .	3	13	5	e	D	D	D	D	D	D	D		
32615	Urethane and other foam product (except polystyrene) manufacturing . . . . .	—	7	5		372	11 257	277	525	6 842	28 101	32 263	60 934	1 631
326150	Urethane and other foam product (except polystyrene) manufacturing . . . . .	—	7	5		372	11 257	277	525	6 842	28 101	32 263	60 934	1 631
32619	Other plastics product manufacturing . . . . .	2	181	73	i	D	D	D	D	D	D	D	D	D
326191	Plastics plumbing fixture manufacturing . . . . .	3	10	5	e	D	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing . . . . .	2	169	68	i	D	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing . . . . .	1	26	2	f	D	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing . . . . .	1	17	2	f	D	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use . . . . .	—	5	1	e	D	D	D	D	D	D	D	D	D
326299	All other rubber product manufacturing . . . . .	1	12	1	e	D	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing . . . . .	2	'327	'119	'9 701	'416 335	'7 532	'15 177	'294 839	'1 153 161	'854 891	'2 001 918	D	
3271	Clay product and refractory manufacturing . . . . .	4	49	16	g	D	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, and plumbing fixture manufacturing . . . . .	4	35	12	g	D	D	D	D	D	D	D	D	D
327113	Porcelain electrical supply manufacturing . . . . .	4	15	10	f	D	D	D	D	D	D	D	D	D
32712	Clay building material and refractories manufacturing . . . . .	3	14	4	e	D	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing . . . . .	2	79	14	g	D	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing . . . . .	2	79	14	g	D	D	D	D	D	D	D	D	D
327213	Glass container manufacturing . . . . .	—	2	2	f	D	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass . . . . .	3	51	11	g	D	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing . . . . .	2	135	76	i	D	D	D	D	D	D	D	D	D
32731	Cement manufacturing . . . . .	7	7	5	e	D	D	D	D	D	D	D	D	D
327310	Cement manufacturing . . . . .	7	7	5	e	D	D	D	D	D	D	D	D	D
32732	Ready-mix concrete manufacturing . . . . .	—	71	36	g	D	D	D	D	D	D	D	D	D
327320	Ready-mix concrete manufacturing . . . . .	—	71	36	g	D	D	D	D	D	D	D	D	D
32733	Concrete pipe, brick, and block manufacturing . . . . .	—	11	6	e	D	D	D	D	D	D	D	D	D
327331	Concrete block and brick manufacturing . . . . .	—	9	4	e	D	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing . . . . .	3	46	29	h	D	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing . . . . .	3	46	29	h	D	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing . . . . .	2	59	10	g	D	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product manufacturing . . . . .	2	56	8	f	D	D	D	D	D	D	D	D	D
327991	Cut stone and stone product manufacturing . . . . .	4	41	5	e	D	D	D	D	D	D	D	D	D
327993	Mineral wool manufacturing . . . . .	—	5	1	e	D	D	D	D	D	D	D	D	D
331	Primary metal manufacturing . . . . .	—	90	31	h	D	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing . . . . .	—	6	1	f	D	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing . . . . .	—	6	1	f	D	D	D	D	D	D	D	D	D
331111	Iron and steel mills . . . . .	—	5	1	f	D	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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>													
331	Primary metal manufacturing—Con.												
3312	Steel product manufacturing from purchased steel .....	—	5	2	e	D	D	D	D	D	D	D	D
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	—	1	1	e	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	—	1	1	e	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing .....	—	13	4	e	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	—	13	4	e	D	D	D	D	D	D	D	D
331316	Aluminum extruded product manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production and processing .....	4	18	8	e	D	D	D	D	D	D	D	D
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying .....	5	11	5	e	D	D	D	D	D	D	D	D
331492	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum) .....	5	6	3	e	D	D	D	D	D	D	D	D
3315	Foundries .....	—	48	16	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .....	—	16	5	f	D	D	D	D	D	D	D	D
331511	Iron foundries .....	—	8	3	e	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment) .....	—	6	1	e	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries ...	1	32	11	f	D	D	D	D	D	D	D	D
331521	Aluminum die-casting foundries .....	—	9	6	e	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) .....	—	11	4	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	1 629	372	29 372	1 191 823	21 229	41 226	733 325	2 476 810	1 563 527	4 050 020	D
3321	Forging and stamping .....	5	48	20	g	D	D	D	D	D	D	D	D
33211	Forging and stamping .....	5	48	20	g	D	D	D	D	D	D	D	D
332116	Metal stamping .....	5	29	10	1 041	37 820	730	1 400	22 034	74 082	65 585	141 008	D
3322	Cutlery and handtool manufacturing .....	—	31	6	g	D	D	D	D	D	D	D	D
33221	Cutlery and handtool manufacturing .....	—	31	6	g	D	D	D	D	D	D	D	D
332212	Hand and edge tool manufacturing .....	—	23	4	g	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	2	348	99	i	D	D	D	D	D	D	D	D
33231	Plate work and fabricated structural product manufacturing .....	4	80	26	g	D	D	D	D	D	D	D	D
332312	Fabricated structural metal manufacturing .....	4	60	18	g	D	D	D	D	D	D	D	D
332313	Plate work manufacturing ...	2	13	7	358	16 429	260	573	10 153	23 484	13 333	36 744	D
33232	Ornamental and architectural metal products manufacturing .....	2	268	73	i	D	D	D	D	D	D	D	D
332321	Metal window and door manufacturing .....	3	28	7	e	D	D	D	D	D	D	D	D
332322	Sheet metal work manufacturing .....	2	161	58	h	D	D	D	D	D	D	D	D
332323	Ornamental and architectural metal work manufacturing ..	1	79	8	g	D	D	D	D	D	D	D	D
3324	Boiler, tank, and shipping container manufacturing .....	—	28	11	f	D	D	D	D	D	D	D	D
33242	Metal tank (heavy gauge) manufacturing .....	1	11	5	e	D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) manufacturing .....	1	11	5	e	D	D	D	D	D	D	D	D
33243	Metal can, box, and other metal container (light gauge) manufacturing .....	—	16	6	f	D	D	D	D	D	D	D	D
332431	Metal can manufacturing ....	—	3	3	e	D	D	D	D	D	D	D	D
3325	Hardware manufacturing .....	1	15	4	e	D	D	D	D	D	D	D	D
33251	Hardware manufacturing .....	1	15	4	e	D	D	D	D	D	D	D	D
332510	Hardware manufacturing ....	1	15	4	e	D	D	D	D	D	D	D	D

See footnotes at end of table.

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		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)				
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>											
332	Fabricated metal product manufacturing—Con.											
3326	Spring and wire product manufacturing .....	5	40	8	f	D	D	D	D	D	D	D
33261	Spring and wire product manufacturing .....	5	40	8	f	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	796	131	j	D	D	D	D	D	D	D
33271	Machine shops .....	3	701	100	i	D	D	D	D	D	D	D
332710	Machine shops .....	3	701	100	i	D	D	D	D	D	D	D
33272	Turned product and screw, nut, and bolt manufacturing .....	1	95	31	g	D	D	D	D	D	D	D
332721	Precision turned product manufacturing .....	—	79	27	g	D	D	D	D	D	D	D
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	5	16	4	e	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities .....	2	185	51	h	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, and allied activities ..	2	185	51	h	D	D	D	D	D	D	D
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	2	66	13	f	D	D	D	D	D	D	D
332813	Electroplating, plating, polishing, anodizing, and coloring .....	3	106	33	g	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	2	138	42	h	D	D	D	D	D	D	D
33291	Metal valve manufacturing ....	1	28	6	g	D	D	D	D	D	D	D
332911	Industrial valve manufacturing .....	—	17	4	f	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	2	110	36	g	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product manufacturing .....	2	86	31	g	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	530	167	k	D	D	D	D	D	D	267 961
3332	Industrial machinery manufacturing .....	1	170	82	j	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing .....	1	157	78	j	D	D	D	D	D	D	D
333295	Semiconductor machinery manufacturing .....	1	86	54	j	D	D	D	D	D	D	D
333298	All other industrial machinery manufacturing .....	2	140	115	g	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing .....	1	87	23	h	D	D	D	D	D	D	D
33331	Commercial and service industry machinery manufacturing .....	1	87	23	h	D	D	D	D	D	D	D
333314	Optical instrument and lens manufacturing .....	—	34	13	g	D	D	D	D	D	D	D
333319	Other commercial and service industry machinery manufacturing .....	6	34	7	f	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	30	8	f	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	30	8	f	D	D	D	D	D	D	D
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	1	12	4	e	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing .....	3	104	16	g	D	D	D	D	D	D	D
33351	Metalworking machinery manufacturing .....	3	104	16	g	D	D	D	D	D	D	D
333511	Industrial mold manufacturing .....	4	19	7	e	D	D	D	D	D	D	D
333514	Special die and tool, die set, jig, and fixture manufacturing .....	2	51	5	f	D	D	D	D	D	D	D
333515	Cutting tool and machine tool accessory manufacturing .....	5	22	3	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.**

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
333	Machinery manufacturing—Con.												
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	8	4	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	8	4	g	D	D	D	D	D	D	D	D
333611	Turbine and turbine generator set units manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	5	115	32	h	D	D	D	D	D	D	D	D
33391	Pump and compressor manufacturing .....	7	11	6	e	D	D	D	D	D	D	D	D
333911	Pump and pumping equipment manufacturing ..	6	8	5	e	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	1	28	6	e	D	D	D	D	D	D	D	D
333922	Conveyor and conveying equipment manufacturing ..	—	13	4	e	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	6	76	20	g	D	D	D	D	D	D	D	D
333993	Packaging machinery manufacturing .....	8	18	4	e	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	6	32	10	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	1 481	702	m	D	D	D	D	D	D	D	D
3341	Computer and peripheral equipment manufacturing .....	—	183	61	j	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing ....	—	183	61	j	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing .....	—	69	27	j	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing .....	—	29	11	i	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	3	81	22	g	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	1	222	133	j	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing .....	—	85	63	13 441	924 362	3 329	5 629	138 494	6 257 210	4 338 054	11 015 214	D
334210	Telephone apparatus manufacturing .....	—	85	63	13 441	924 362	3 329	5 629	138 494	6 257 210	4 338 054	11 015 214	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	3	113	63	j	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	3	113	63	j	D	D	D	D	D	D	D	D
33429	Other communications equipment manufacturing ....	5	24	7	f	D	D	D	D	D	D	D	D
334290	Other communications equipment manufacturing ..	5	24	7	f	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing .....	4	30	13	f	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing .....	4	30	13	f	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing .....	4	30	13	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	1	596	298	k	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	1	596	298	k	D	D	D	D	D	D	D	D
334411	Electron tube manufacturing ..	—	9	5	g	D	D	D	D	D	D	D	D
334412	Bare printed circuit board manufacturing .....	2	91	42	h	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing .....	1	233	111	k	D	D	D	D	D	D	D	D
334416	Electronic coil, transformer, and other inductor manufacturing .....	1	19	6	e	D	D	D	D	D	D	D	D
334417	Electronic connector manufacturing .....	1	27	13	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	98	74	j	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing .....	1	117	46	i	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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<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>													
334	Computer and electronic product manufacturing—Con.												
3345	Navigational, measuring, electromedical, and control instruments manufacturing . . . . .	—	379	177	k	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing . . .	—	379	177	k	D	D	D	D	D	D	D	D
334510	Electromedical and electrotherapeutic apparatus manufacturing . . .	2	43	24	i	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing . . . . .	4	21	12	g	D	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables . . . . .	3	59	22	g	D	D	D	D	D	D	D	D
334514	Totalizing fluid meter and counting device manufacturing . . . . .	—	10	3	f	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals . . . . .	—	114	60	j	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing . .	—	55	25	i	D	D	D	D	D	D	D	D
334517	Irradiation apparatus manufacturing . . . . .	—	15	8	h	D	D	D	D	D	D	D	D
334519	Other measuring and controlling device manufacturing . . . . .	—	44	18	g	D	D	D	D	D	D	D	D
3346	Manufacturing and reproducing magnetic and optical media . . . . .	1	71	20	g	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media . .	1	71	20	g	D	D	D	D	D	D	D	D
334611	Software reproducing . . . . .	—	15	5	e	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing . . . . .	5	32	9	563	20 405	375	771	10 144	45 249	19 803	65 042	D
334613	Magnetic and optical recording media manufacturing . . . . .	—	24	6	1 471	63 801	984	1 984	29 293	209 607	142 821	362 337	D
335	Electrical equipment, appliance, and component manufacturing . . . . .	1	1 220	1 68	i	D	D	D	D	D	D	D	D
3351	Electric lighting equipment manufacturing . . . . .	2	47	13	g	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing . .	2	46	13	g	D	D	D	D	D	D	D	D
335121	Residential electric lighting fixture manufacturing . . . . .	7	21	3	e	D	D	D	D	D	D	D	D
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing . . . . .	—	15	6	f	D	D	D	D	D	D	D	D
335129	Other lighting equipment manufacturing . . . . .	4	10	4	f	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing . . . . .	2	61	20	g	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing . . . . .	2	61	20	g	D	D	D	D	D	D	D	D
335311	Power, distribution, and specialty transformer manufacturing . . . . .	—	10	4	f	D	D	D	D	D	D	D	D
335313	Switchgear and switchboard apparatus manufacturing . . .	6	12	4	e	D	D	D	D	D	D	D	D
335314	Relay and industrial control manufacturing . . . . .	2	35	11	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing . . . . .	1	108	34	i	D	D	D	D	D	D	D	D
33592	Communication and energy wire and cable manufacturing . .	—	19	7	f	D	D	D	D	D	D	D	D
335921	Fiber optic cable manufacturing . . . . .	4	11	3	e	D	D	D	D	D	D	D	D
335929	Other communication and energy wire manufacturing . .	—	8	4	f	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing . . .	1	14	3	e	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device manufacturing . . . . .	1	10	2	e	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing . . . . .	—	70	24	h	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing . .	—	65	23	h	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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<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>													
336	Transportation equipment manufacturing .....	-	188	43	j	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing .....	-	6	2	i	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	-	5	1	i	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	-	1	1	i	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
3362	Motor vehicle body and trailer manufacturing .....	4	25	6	e	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	4	25	6	e	D	D	D	D	D	D	D	D
336211	Motor vehicle body manufacturing .....	1	19	5	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	2	78	18	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	4	21	7	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	4	19	6	e	D	D	D	D	D	D	D	D
33636	Motor vehicle seating and interior trim manufacturing .....	-	7	2	e	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing .....	-	7	2	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	3	18	6	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	3	18	6	e	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	20	6	j	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	20	6	j	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336414	Guided missile and space vehicle manufacturing .....	-	1	1	i	D	D	D	D	D	D	D	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing .....	1	2	2	f	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	-	30	9	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing .....	-	30	9	g	D	D	D	D	D	D	D	D
336991	Motorcycle, bicycle, and parts manufacturing .....	-	25	8	g	D	D	D	D	D	D	D	D
336992	Military armored vehicle, tank, and tank component manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	3	631	106	8 222	284 729	6 106	11 773	176 784	651 043	406 636	1 055 058	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	494	65	h	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing .....	4	274	31	2 406	83 534	1 756	3 568	50 662	158 548	101 556	260 169	D
337110	Wood kitchen cabinet and countertop manufacturing .....	4	274	31	2 406	83 534	1 756	3 568	50 662	158 548	101 556	260 169	D
33712	Household and institutional furniture manufacturing .....	3	220	34	g	D	D	D	D	D	D	D	D
337121	Upholstered household furniture manufacturing .....	2	65	12	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture manufacturing .....	2	103	12	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	2	110	30	h	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) manufacturing .....	2	110	30	h	D	D	D	D	D	D	D	D
337211	Wood office furniture manufacturing .....	3	22	7	f	D	D	D	D	D	D	D	D
337212	Custom architectural woodwork and millwork manufacturing .....	1	35	10	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing .....	3	50	12	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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<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>													
337	Furniture and related product manufacturing—Con.												
3379	Other furniture related product manufacturing .....	3	27	11	g	D	D	D	D	D	D	D	D
33791	Mattress manufacturing .....	4	11	6	f	D	D	D	D	D	D	D	D
337910	Mattress manufacturing .....	4	11	6	f	D	D	D	D	D	D	D	D
33792	Blind and shade manufacturing .....	2	16	5	f	D	D	D	D	D	D	D	D
337920	Blind and shade manufacturing .....	2	16	5	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	2	1 024	202	'28 384	'1 265 926	'13 881	'27 290	'416 454	'3 624 909	'1 897 352	'5 484 913	D
3391	Medical equipment and supplies manufacturing .....	1	506	110	j	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	1	506	110	j	D	D	D	D	D	D	D	D
339111	Laboratory apparatus and furniture manufacturing ....	1	26	15	g	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	1	86	46	j	D	D	D	D	D	D	D	D
339113	Surgical appliance and supplies manufacturing ....	1	47	18	h	D	D	D	D	D	D	D	D
339114	Dental equipment and supplies manufacturing ....	3	34	7	e	D	D	D	D	D	D	D	D
339115	Ophthalmic goods manufacturing .....	—	19	4	f	D	D	D	D	D	D	D	D
339116	Dental laboratories .....	5	294	20	3 011	97 308	2 125	4 009	67 310	169 816	37 540	206 518	D
3399	Other miscellaneous manufacturing .....	2	518	92	i	D	D	D	D	D	D	D	D
33991	Jewelry and silverware manufacturing .....	4	90	10	f	D	D	D	D	D	D	D	D
339911	Jewelry (except costume) manufacturing .....	5	55	6	e	D	D	D	D	D	D	D	D
33992	Sporting and athletic goods manufacturing .....	5	49	6	e	D	D	D	D	D	D	D	D
339920	Sporting and athletic goods manufacturing .....	5	49	6	e	D	D	D	D	D	D	D	D
33993	Doll, toy, and game manufacturing .....	—	36	6	g	D	D	D	D	D	D	D	D
339932	Game, toy, and children's vehicle manufacturing .....	—	32	6	g	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) manufacturing .....	1	25	8	e	D	D	D	D	D	D	D	D
339943	Marking device manufacturing .....	—	18	7	e	D	D	D	D	D	D	D	D
33995	Sign manufacturing .....	'3	'132	'18	g	D	D	D	D	D	D	D	D
339950	Sign manufacturing .....	'3	'132	'18	g	D	D	D	D	D	D	D	D
33999	All other miscellaneous manufacturing .....	4	'186	'44	h	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing .....	'4	151	36	h	D	D	D	D	D	D	D	D
<b>Napa, CA Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	1	381	114	10 910	486 294	5 256	10 473	189 973	1 994 584	1 612 129	3 580 927	159 612
311	Food manufacturing .....	5	26	7	445	14 354	243	506	5 862	43 687	40 871	84 536	3 333
312	Beverage and tobacco product manufacturing .....	1	213	70	5 948	280 803	2 140	4 162	92 213	1 364 075	1 009 129	2 355 491	138 975
3121	Beverage manufacturing .....	1	213	70	5 948	280 803	2 140	4 162	92 213	1 364 075	1 009 129	2 355 491	138 975
31213	Wineries .....	1	206	67	5 773	273 063	2 085	4 037	89 954	1 328 913	967 109	2 275 907	D
312130	Wineries .....	1	206	67	5 773	273 063	2 085	4 037	89 954	1 328 913	967 109	2 275 907	D
321	Wood product manufacturing .....	3	15	7	339	9 158	288	610	6 551	18 951	31 655	50 856	696
3219	Other wood product manufacturing .....	3	15	7	339	9 158	288	610	6 551	18 951	31 655	50 856	696
32192	Wood container and pallet manufacturing .....	4	8	7	272	7 203	238	516	5 330	14 270	22 357	37 062	568
321920	Wood container and pallet manufacturing .....	4	8	7	272	7 203	238	516	5 330	14 270	22 357	37 062	568
323	Printing and related support activities .....	7	18	4	351	15 188	261	535	9 182	36 637	11 881	48 207	987
3231	Printing and related support activities .....	7	18	4	351	15 188	261	535	9 182	36 637	11 881	48 207	987
32311	Printing .....	7	17	4	e	D	D	D	D	D	D	D	987
323110	Commercial lithographic printing .....	8	8	3	285	12 375	212	436	7 389	28 504	9 687	38 181	823

See footnotes at end of table.

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

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<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>													
<b>Napa, CA Metropolitan Statistical Area—Con.</b>													
325	Chemical manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	7	9	5	888	33 397	723	1 531	23 893	66 055	37 294	103 143	2 950
3273	Cement and concrete product manufacturing .....	8	5	5	860	32 476	707	1 501	23 348	64 028	36 501	100 343	2 894
32739	Other concrete product manufacturing .....	9	2	2	f	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing .....	9	2	2	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
3312	Steel product manufacturing from purchased steel .....	-	1	1	e	D	D	D	D	D	D	D	D
33121	Iron and steel pipe and tube manufacturing from purchased steel .....	-	1	1	e	D	D	D	D	D	D	D	D
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	-	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	25	6	416	16 785	293	572	9 298	62 362	43 642	105 917	2 054
335	Electrical equipment, appliance, and component manufacturing .....	-	3	3	258	11 023	180	348	5 655	38 749	11 035	49 235	D
<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	1	'5 112	'1 370	'163 670	'7 777 627	'93 690	'180 686	'3 326 863	'26 560 978	'27 062 940	'53 551 538	'1 606 204
311	Food manufacturing .....	3	523	165	19 014	638 589	11 804	22 428	334 189	2 317 846	1 893 790	4 217 702	142 600
3112	Grain and oilseed milling .....	1	13	5	366	13 420	239	475	7 933	100 293	103 845	202 045	3 303
3113	Sugar and confectionery product manufacturing .....	5	35	17	3 711	139 061	2 781	5 592	90 794	456 181	513 738	971 163	48 021
31131	Sugar manufacturing .....	9	1	1	g	D	D	D	D	D	D	D	D
311311	Sugarcane mills .....	9	1	1	g	D	D	D	D	D	D	D	D
31132	Chocolate and confectionery manufacturing from cacao beans .....	3	5	3	410	22 933	298	635	13 969	68 235	84 705	151 679	D
311320	Chocolate and confectionery manufacturing from cacao beans .....	3	5	3	410	22 933	298	635	13 969	68 235	84 705	151 679	D
31133	Confectionery manufacturing from purchased chocolate .....	4	22	8	1 621	57 878	1 233	2 123	31 769	204 736	195 109	402 071	12 269
311330	Confectionery manufacturing from purchased chocolate .....	4	22	8	1 621	57 878	1 233	2 123	31 769	204 736	195 109	402 071	12 269
31134	Nonchocolate confectionery manufacturing .....	2	7	5	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing .....	2	7	5	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	3	25	10	582	17 277	469	946	11 040	81 789	39 745	121 504	7 395
31141	Frozen food manufacturing .....	2	16	8	451	13 311	352	708	7 757	64 725	27 936	92 660	5 116
311412	Frozen specialty food manufacturing .....	2	16	8	451	13 311	352	708	7 757	64 725	27 936	92 660	5 116
3115	Dairy product manufacturing .....	2	26	10	1 378	71 960	568	1 197	24 369	290 403	383 819	675 960	9 002
31151	Dairy product (except frozen) manufacturing .....	3	16	8	1 040	55 391	439	899	18 974	158 877	299 405	459 291	6 838
311511	Fluid milk manufacturing .....	3	10	6	974	52 872	382	784	16 934	154 833	281 047	436 889	6 401
31152	Ice cream and frozen dessert manufacturing .....	-	10	2	338	16 569	129	298	5 395	131 526	84 414	216 669	2 164
311520	Ice cream and frozen dessert manufacturing .....	-	10	2	338	16 569	129	298	5 395	131 526	84 414	216 669	2 164
3116	Animal slaughtering and processing .....	2	35	20	1 999	56 181	1 529	3 004	37 974	134 063	234 999	373 300	7 949
31161	Animal slaughtering and processing .....	2	35	20	1 999	56 181	1 529	3 004	37 974	134 063	234 999	373 300	7 949
311611	Animal (except poultry) slaughtering .....	3	5	2	449	9 665	418	717	7 457	13 663	30 355	46 424	D
311612	Meat processed from carcasses .....	2	24	16	1 410	41 421	1 023	2 097	28 233	99 939	194 534	296 499	7 265

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>													
<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>													
311	Food manufacturing—Con.												
3118	Bakeries and tortilla manufacturing .....	4	279	74	8 708	257 969	4 795	8 276	120 154	887 198	360 085	1 246 790	55 127
31181	Bread and bakery product manufacturing .....	4	247	63	7 594	210 906	4 067	7 223	101 831	729 641	287 391	1 016 904	52 168
311811	Retail bakeries .....	2	174	24	2 205	41 102	1 181	1 827	22 943	87 141	43 700	130 648	2 653
311812	Commercial bakeries .....	5	65	32	4 363	142 751	2 105	4 023	62 600	520 451	187 662	708 539	14 170
311813	Frozen cakes, pies, and other pastries manufacturing .....	1	8	7	1 026	27 053	781	1 373	16 288	122 049	56 029	177 717	35 345
31182	Cookie, cracker, and pasta manufacturing .....	1	27	6	870	40 869	567	741	14 699	146 175	65 632	211 436	2 489
311821	Cookie and cracker manufacturing .....	—	11	4	721	36 670	436	512	11 319	134 450	49 854	183 848	1 853
3119	Other food manufacturing .....	2	96	27	2 112	77 665	1 301	2 706	38 752	353 456	232 772	587 669	11 258
31191	Snack food manufacturing .....	2	12	4	400	14 029	308	603	8 705	36 185	27 508	64 057	1 669
311919	Other snack food manufacturing .....	2	9	2	288	12 070	204	479	7 246	28 281	13 550	41 815	1 566
31192	Coffee and tea manufacturing .....	2	15	4	386	17 822	251	550	10 067	107 000	119 385	227 555	4 322
311920	Coffee and tea manufacturing .....	2	15	4	386	17 822	251	550	10 067	107 000	119 385	227 555	4 322
31199	All other food manufacturing .....	3	55	15	1 112	35 849	646	1 362	16 523	177 453	61 494	238 586	4 108
311991	Perishable prepared food manufacturing .....	4	18	6	618	12 432	380	828	8 104	27 639	19 205	46 829	833
311999	All other miscellaneous food manufacturing .....	2	37	9	494	23 417	266	534	8 419	149 814	42 289	191 757	3 275
312	Beverage and tobacco product manufacturing .....	5	58	15	1 610	74 195	864	1 651	34 118	434 706	632 212	1 059 195	32 284
3121	Beverage manufacturing .....	5	58	15	1 610	74 195	864	1 651	34 118	434 706	632 212	1 059 195	32 284
31211	Soft drink and ice manufacturing .....	1	11	8	1 020	49 082	491	997	20 623	75 403	405 458	478 492	23 884
312111	Soft drink manufacturing .....	1	7	6	f	D	D	D	D	D	D	D	23 676
31213	Wineries .....	7	37	3	e	D	D	D	D	D	D	D	D
312130	Wineries .....	7	37	3	e	D	D	D	D	D	D	D	D
313	Textile mills .....	2	29	2	267	10 289	193	391	6 343	20 701	37 114	57 582	D
314	Textile product mills .....	3	101	11	821	21 782	635	1 258	12 975	47 744	32 630	79 174	1 170
3141	Textile furnishings mills .....	3	47	4	320	8 827	237	468	4 630	21 889	14 300	34 760	265
31412	Curtain and linen mills .....	3	44	4	304	8 340	226	443	4 234	21 055	13 545	32 991	247
3149	Other textile product mills .....	4	54	7	501	12 955	398	790	8 345	25 855	18 330	44 414	905
31499	All other textile product mills .....	5	29	5	276	6 698	214	404	3 956	14 881	8 344	23 626	368
314999	All other miscellaneous textile product mills .....	4	28	5	e	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	7	301	100	7 850	181 755	5 750	10 694	98 259	1 064 052	1 345 765	2 376 921	D
3151	Apparel knitting mills .....	—	5	3	540	12 993	444	1 010	8 590	31 056	14 135	44 946	D
31519	Other apparel knitting mills .....	—	5	3	540	12 993	444	1 010	8 590	31 056	14 135	44 946	D
315191	Outerwear knitting mills .....	—	5	3	540	12 993	444	1 010	8 590	31 056	14 135	44 946	D
3152	Cut and sew apparel manufacturing .....	7	269	91	6 822	152 345	4 987	9 005	82 864	1 014 200	1 288 017	2 266 838	D
31521	Cut and sew apparel contractors .....	4	185	52	h	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors .....	4	176	51	h	D	D	D	D	D	D	D	D
31522	Men's and boys' cut and sew apparel manufacturing .....	9	19	10	g	D	D	D	D	D	D	D	D
315224	Men's and boys' cut and sew trouser, slack, and jean manufacturing .....	9	3	2	e	D	D	D	D	D	D	D	D
315228	Men's and boys' cut and sew other outerwear manufacturing .....	3	6	4	e	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing .....	—	51	26	2 296	73 666	1 098	2 067	23 855	185 290	262 466	459 697	D
315232	Women's and girls' cut and sew blouse and shirt manufacturing .....	—	11	5	841	26 570	382	765	8 556	73 324	82 080	155 300	D
315233	Women's and girls' cut and sew dress manufacturing .....	1	14	8	708	20 937	274	480	5 024	67 205	70 767	139 254	D
315239	Women's and girls' cut and sew other outerwear manufacturing .....	—	19	10	628	22 962	363	685	8 832	41 424	104 625	156 658	D
31529	Other cut and sew apparel manufacturing .....	1	14	3	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>												
315	Apparel manufacturing—Con.												
3159	Apparel accessories and other apparel manufacturing .....	1	27	6	488	16 417	319	679	6 805	18 796	43 613	65 137	D
31599	Apparel accessories and other apparel manufacturing .....	1	27	6	488	16 417	319	679	6 805	18 796	43 613	65 137	D
315999	Other apparel accessories and other apparel manufacturing .....	1	22	5	430	15 305	275	598	6 147	17 082	41 058	60 656	D
316	Leather and allied product manufacturing .....	—	24	6	727	20 419	557	1 009	12 176	56 198	38 578	93 079	D
3162	Footwear manufacturing .....	—	4	1	e	D	D	D	D	D	D	D	D
31621	Footwear manufacturing .....	—	4	1	e	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
3169	Other leather and allied product manufacturing .....	1	17	4	e	D	D	D	D	D	D	D	D
31699	Other leather and allied product manufacturing .....	1	17	4	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	2	95	25	1 340	40 141	1 029	2 047	24 414	91 457	95 494	186 702	D
3219	Other wood product manufacturing .....	2	89	23	1 254	37 525	956	1 892	22 303	87 800	86 895	174 465	D
32191	Millwork .....	3	43	11	508	18 194	344	708	9 721	38 440	37 789	76 415	D
321911	Wood window and door manufacturing .....	3	28	8	350	12 129	241	495	6 576	25 960	30 712	56 772	D
32192	Wood container and pallet manufacturing .....	1	25	7	497	12 140	421	801	8 222	32 246	35 742	67 743	D
321920	Wood container and pallet manufacturing .....	1	25	7	497	12 140	421	801	8 222	32 246	35 742	67 743	D
322	Paper manufacturing .....	1	61	34	2 707	113 011	1 989	4 229	68 429	250 453	397 515	646 338	35 905
3222	Converted paper product manufacturing .....	1	58	32	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	1	25	15	1 278	53 907	955	2 053	33 550	110 973	201 280	310 770	28 555
322211	Corrugated and solid fiber box manufacturing .....	—	16	9	927	42 768	667	1 440	25 918	84 436	174 437	257 391	27 099
32222	Paper bag and coated and treated paper manufacturing ..	1	13	8	630	27 389	406	885	13 041	56 382	83 061	138 588	5 636
322222	Coated and laminated paper manufacturing .....	2	8	4	e	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing .....	—	12	7	454	15 968	363	796	10 808	34 312	41 792	76 456	1 256
322232	Envelope manufacturing .....	—	4	4	308	11 358	254	562	7 969	22 564	23 646	46 068	691
323	Printing and related support activities .....	2	'723	'120	'9 982	'384 512	'6 976	'12 471	'229 131	'769 822	'467 433	'1 242 802	'58 260
3231	Printing and related support activities .....	2	'723	'120	'9 982	'384 512	'6 976	'12 471	'229 131	'769 822	'467 433	'1 242 802	'58 260
32311	Printing .....	2	'636	'104	'8 458	'317 575	'5 938	'10 525	'189 532	'649 786	'416 118	'1 070 132	'51 119
323110	Commercial lithographic printing .....	1	304	55	4 558	177 686	3 319	5 674	111 228	358 486	249 846	611 284	23 753
323113	Commercial screen printing ..	1	'63	'12	'1 080	'36 906	'757	'1 412	'18 695	'65 802	'36 831	'103 819	'2 944
323114	Quick printing .....	3	159	10	1 009	31 005	679	1 234	18 270	66 493	25 355	92 016	3 540
323115	Digital printing .....	1	31	7	476	19 842	306	503	10 221	43 510	11 569	54 878	2 471
323116	Manifold business forms printing .....	2	8	4	300	9 838	158	282	5 061	25 437	27 788	52 998	6 222
323117	Books printing .....	4	14	5	425	17 661	321	608	12 040	37 225	28 460	66 138	1 508
323119	Other commercial printing ...	6	36	5	289	11 313	188	369	6 665	21 871	14 354	36 224	D
32312	Support activities for printing...	3	87	16	1 524	66 937	1 038	1 946	39 599	120 036	51 315	172 670	7 141
323121	Tradebinding and related work .....	—	36	8	795	28 144	586	1 157	17 949	48 913	19 035	68 708	1 437
323122	Prepress services .....	4	51	8	729	38 793	452	789	21 650	71 123	32 280	103 962	5 704
324	Petroleum and coal products manufacturing .....	—	33	14	3 651	257 149	2 316	4 973	159 536	1 773 550	5 618 070	7 324 233	D
3241	Petroleum and coal products manufacturing .....	—	33	14	3 651	257 149	2 316	4 973	159 536	1 773 550	5 618 070	7 324 233	D
32411	Petroleum refineries .....	—	6	6	3 134	230 002	1 927	4 218	140 529	1 630 612	5 385 304	6 949 775	D
324110	Petroleum refineries .....	—	6	6	3 134	230 002	1 927	4 218	140 529	1 630 612	5 385 304	6 949 775	D
32412	Asphalt paving, roofing, and saturated materials manufacturing .....	2	18	5	334	17 532	264	540	13 227	107 076	120 818	228 006	D

See footnotes at end of table.

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<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>													
325	Chemical manufacturing .....	1	199	70	14 463	929 402	5 192	9 179	244 540	4 195 829	1 030 745	5 239 966	355 347
3251	Basic chemical manufacturing ...	1	23	14	1 045	64 967	628	1 272	38 979	429 372	286 337	721 625	20 550
32518	Other basic inorganic chemical manufacturing .....	2	11	7	397	23 289	239	478	12 272	155 528	119 057	277 418	D
325188	All other basic inorganic chemical manufacturing ....	2	10	7	e	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	—	3	3	e	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing ....	—	3	3	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	1	43	19	10 561	735 978	2 783	4 675	139 787	3 243 907	188 605	3 442 792	293 195
32541	Pharmaceutical and medicine manufacturing .....	1	43	19	10 561	735 978	2 783	4 675	139 787	3 243 907	188 605	3 442 792	293 195
325412	Pharmaceutical preparation manufacturing .....	1	15	6	i	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance manufacturing .....	—	9	6	e	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) manufacturing ..	1	13	6	1 593	106 849	953	1 570	64 437	367 881	50 727	400 299	D
3255	Paint, coating, and adhesive manufacturing .....	1	32	11	1 164	50 809	731	1 190	27 078	265 899	312 201	576 478	24 360
32551	Paint and coating manufacturing .....	1	21	6	642	24 488	451	658	15 789	163 839	255 837	418 100	21 298
325510	Paint and coating manufacturing .....	1	21	6	642	24 488	451	658	15 789	163 839	255 837	418 100	21 298
32552	Adhesive manufacturing .....	—	11	5	522	26 321	280	532	11 289	102 060	56 364	158 378	3 062
325520	Adhesive manufacturing ....	—	11	5	522	26 321	280	532	11 289	102 060	56 364	158 378	3 062
3256	Soap, cleaning compound, and toilet preparation manufacturing .	5	42	10	522	20 401	365	628	11 369	70 995	39 117	108 921	2 305
32562	Toilet preparation manufacturing .....	5	21	5	292	9 843	217	360	5 721	37 800	13 974	51 641	1 104
325620	Toilet preparation manufacturing .....	5	21	5	292	9 843	217	360	5 721	37 800	13 974	51 641	1 104
3259	Other chemical product and preparation manufacturing .....	2	47	11	882	45 831	493	1 043	21 606	155 699	87 236	243 196	13 684
32599	All other chemical product and preparation manufacturing ...	1	38	9	757	38 812	421	887	18 095	133 479	71 316	204 953	12 249
325998	All other miscellaneous chemical product and preparation manufacturing .	1	20	6	584	31 005	331	717	14 881	120 936	57 254	178 293	11 450
326	Plastics and rubber products manufacturing .....	4	174	64	6 821	246 236	5 006	10 207	153 087	605 007	508 713	1 110 741	55 016
3261	Plastics product manufacturing ..	4	157	63	6 491	236 542	4 767	9 661	147 857	583 340	484 113	1 063 661	54 126
32611	Plastics packaging materials and sheet manufacturing .....	2	26	11	871	31 516	664	1 377	20 524	93 391	97 781	190 386	34 070
326111	Plastics bag manufacturing ..	2	13	6	515	17 303	377	850	10 503	56 692	53 218	109 156	D
326112	Plastics packaging film and sheet (including laminated) manufacturing .....	—	5	3	296	12 080	243	434	8 695	31 496	37 760	69 227	1 835
32612	Plastics pipe, pipe fitting, and un laminated profile shape manufacturing .....	9	8	4	1 431	69 447	909	1 617	38 735	169 840	139 864	308 274	4 275
326121	Un laminated plastics profile shape manufacturing .....	9	6	4	g	D	D	D	D	D	D	D	D
32614	Polystyrene foam product manufacturing .....	3	8	2	304	9 421	245	464	6 114	34 353	18 723	53 182	800
326140	Polystyrene foam product manufacturing .....	3	8	2	304	9 421	245	464	6 114	34 353	18 723	53 182	800
32615	Urethane and other foam product (except polystyrene) manufacturing .....	—	7	5	372	11 257	277	525	6 842	28 101	32 263	60 934	1 631
326150	Urethane and other foam product (except polystyrene) manufacturing .....	—	7	5	372	11 257	277	525	6 842	28 101	32 263	60 934	1 631
32619	Other plastics product manufacturing .....	1	103	40	3 467	112 816	2 635	5 608	74 268	248 810	190 392	437 086	13 223
326191	Plastics plumbing fixture manufacturing .....	4	7	4	e	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	1	94	36	3 197	103 994	2 434	5 192	68 964	227 632	184 126	409 665	11 646
3262	Rubber product manufacturing ...	1	17	1	330	9 694	239	546	5 230	21 667	24 600	47 080	890
32629	Other rubber product manufacturing .....	1	12	1	301	8 895	214	495	4 669	19 284	21 221	41 498	797
326291	Rubber product manufacturing for mechanical use .....	—	4	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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<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>													
327	Nonmetallic mineral product manufacturing .....	1	159	60	4 748	'206 731	3 666	7 105	'147 394	520 893	406 882	923 657	51 157
3271	Clay product and refractory manufacturing .....	5	26	10	886	34 229	635	1 244	21 211	66 951	28 894	90 377	6 806
32711	Pottery, ceramics, and plumbing fixture manufacturing .....	5	19	8	762	28 105	551	1 056	16 475	52 106	21 852	68 463	6 644
327113	Porcelain electrical supply manufacturing .....	6	7	6	620	24 409	446	821	14 112	44 675	19 672	58 806	6 294
3272	Glass and glass product manufacturing .....	1	40	9	1 360	60 345	1 091	2 273	46 324	163 148	99 994	263 890	11 144
32721	Glass and glass product manufacturing .....	1	40	9	1 360	60 345	1 091	2 273	46 324	163 148	99 994	263 890	11 144
327213	Glass container manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	4	24	6	f	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	-	58	34	1 917	'87 554	1 512	2 679	'63 033	224 908	204 598	429 658	D
32732	Ready-mix concrete manufacturing .....	-	35	20	963	51 439	813	1 557	41 662	140 595	156 560	297 399	5 635
327320	Ready-mix concrete manufacturing .....	-	35	20	963	51 439	813	1 557	41 662	140 595	156 560	297 399	5 635
32739	Other concrete product manufacturing .....	-	21	13	f	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing .....	-	21	13	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing .....	3	31	4	369	13 858	255	534	8 288	31 612	25 798	57 338	D
32799	All other nonmetallic mineral product manufacturing .....	3	31	4	369	13 858	255	534	8 288	31 612	25 798	57 338	D
331	Primary metal manufacturing .....	-	50	18	2 531	124 665	1 952	4 235	88 722	291 135	564 251	881 186	D
3311	Iron and steel mills and ferroalloy manufacturing .....	-	5	1	f	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	-	5	1	f	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	-	4	1	f	D	D	D	D	D	D	D	D
3315	Foundries .....	-	31	13	1 440	61 562	1 191	2 552	45 787	144 201	91 333	252 147	D
33151	Ferrous metal foundries .....	-	13	5	912	41 683	757	1 697	32 352	106 099	65 192	187 474	D
331511	Iron foundries .....	-	7	3	e	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment) .....	-	5	1	e	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries .....	-	18	8	528	19 879	434	855	13 435	38 102	26 141	64 673	D
332	Fabricated metal product manufacturing .....	2	770	181	15 029	622 814	10 533	20 826	369 748	1 269 672	846 691	2 116 639	76 755
3321	Forging and stamping .....	6	25	11	1 030	37 962	740	1 450	22 375	82 037	77 580	160 913	2 209
33211	Forging and stamping .....	6	25	11	1 030	37 962	740	1 450	22 375	82 037	77 580	160 913	2 209
332116	Metal stamping .....	6	15	5	734	27 240	547	1 046	15 597	56 048	53 976	110 566	1 272
3322	Cutlery and handtool manufacturing .....	-	17	5	832	50 887	235	519	9 357	56 760	15 895	76 820	5 540
33221	Cutlery and handtool manufacturing .....	-	17	5	832	50 887	235	519	9 357	56 760	15 895	76 820	5 540
332212	Hand and edge tool manufacturing .....	-	14	3	719	47 123	190	429	7 814	47 685	8 857	60 683	D
3323	Architectural and structural metals manufacturing .....	2	191	52	4 235	163 766	2 997	5 823	97 859	328 695	234 080	564 940	11 870
33231	Plate work and fabricated structural product manufacturing .....	5	44	16	1 347	50 942	977	1 934	29 759	103 257	94 712	198 695	3 947
332312	Fabricated structural metal manufacturing .....	5	32	11	1 090	40 495	796	1 541	24 027	85 951	82 386	168 591	3 231
33232	Ornamental and architectural metal products manufacturing .....	1	147	36	2 888	112 824	2 020	3 889	68 100	225 438	139 368	366 245	7 923
332321	Metal window and door manufacturing .....	2	22	5	383	14 445	272	547	8 691	29 548	20 122	48 416	1 259
332322	Sheet metal work manufacturing .....	2	80	27	1 851	71 810	1 290	2 501	41 738	106 356	71 577	180 527	5 588
332323	Ornamental and architectural metal work manufacturing ..	1	45	4	654	26 569	458	841	17 671	89 534	47 669	137 302	1 076
3324	Boiler, tank, and shipping container manufacturing .....	-	15	5	324	13 503	275	596	10 843	60 761	77 034	138 014	1 344

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>												
332	Fabricated metal product manufacturing—Con.												
3325	Hardware manufacturing .....	1	10	3	344	10 613	258	535	6 310	25 486	9 296	34 055	720
33251	Hardware manufacturing .....	1	10	3	344	10 613	258	535	6 310	25 486	9 296	34 055	720
332510	Hardware manufacturing .....	1	10	3	344	10 613	258	535	6 310	25 486	9 296	34 055	720
3326	Spring and wire product manufacturing .....	4	26	6	329	12 638	230	494	7 453	23 228	17 968	41 533	1 675
33261	Spring and wire product manufacturing .....	4	26	6	329	12 638	230	494	7 453	23 228	17 968	41 533	1 675
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	334	54	4 622	201 863	3 493	6 866	138 567	377 192	228 981	610 707	33 343
33271	Machine shops .....	2	291	40	3 686	157 821	2 759	5 396	107 329	286 163	168 099	458 896	26 832
332710	Machine shops .....	2	291	40	3 686	157 821	2 759	5 396	107 329	286 163	168 099	458 896	26 832
33272	Turned product and screw, nut, and bolt manufacturing .....	1	43	14	936	44 042	734	1 470	31 238	91 029	60 882	151 811	6 511
332721	Precision turned product manufacturing .....	—	33	10	711	31 177	565	1 125	22 472	65 080	40 825	105 388	5 054
3328	Coating, engraving, heat treating, and allied activities .....	2	82	20	1 284	46 613	960	1 943	28 246	116 642	37 991	147 705	8 217
33281	Coating, engraving, heat treating, and allied activities ..	2	82	20	1 284	46 613	960	1 943	28 246	116 642	37 991	147 705	8 217
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	1	32	6	409	14 959	277	575	7 749	56 839	17 235	66 999	3 881
332813	Electroplating, plating, polishing, anodizing, and coloring .....	4	44	11	775	26 975	608	1 198	17 377	49 227	17 613	66 811	3 966
3329	Other fabricated metal product manufacturing .....	1	70	25	2 029	84 969	1 345	2 600	48 738	198 871	147 866	341 952	11 837
33291	Metal valve manufacturing ....	1	20	4	897	37 193	590	1 094	23 185	70 829	36 639	103 723	1 858
332911	Industrial valve manufacturing .....	—	13	3	699	28 537	465	813	16 378	49 032	27 041	75 824	D
33299	All other fabricated metal product manufacturing .....	2	50	21	1 132	47 776	755	1 506	25 553	128 042	111 227	238 229	9 979
332999	All other miscellaneous fabricated metal product manufacturing .....	1	39	18	952	40 527	612	1 197	20 354	112 976	102 028	213 747	9 114
333	Machinery manufacturing .....	2	225	58	7 633	466 773	2 409	4 683	96 273	978 357	767 913	1 772 566	41 148
3332	Industrial machinery manufacturing .....	2	52	28	5 031	340 525	1 098	2 084	50 326	646 786	488 939	1 162 405	31 102
33329	Other industrial machinery manufacturing .....	2	48	25	4 939	336 318	1 042	1 961	48 295	639 315	483 915	1 150 284	30 784
333295	Semiconductor machinery manufacturing .....	2	26	17	4 492	313 338	799	1 450	39 335	598 922	455 570	1 083 767	29 512
3333	Commercial and service industry machinery manufacturing .....	1	40	7	712	41 312	322	652	12 489	159 798	105 042	265 657	4 495
33331	Commercial and service industry machinery manufacturing .....	1	40	7	712	41 312	322	652	12 489	159 798	105 042	265 657	4 495
333319	Other commercial and service industry machinery manufacturing .....	6	21	2	326	13 997	211	420	6 877	34 365	25 142	60 211	1 425
3335	Metalworking machinery manufacturing .....	3	44	6	384	16 767	269	556	10 262	35 827	15 731	48 890	768
33351	Metalworking machinery manufacturing .....	3	44	6	384	16 767	269	556	10 262	35 827	15 731	48 890	768
3339	Other general purpose machinery manufacturing .....	6	59	13	1 226	57 731	534	1 025	17 098	104 755	137 160	243 385	4 067
33399	All other general purpose machinery manufacturing ....	7	37	10	980	45 136	418	795	13 035	78 022	114 041	193 176	3 544
333993	Packaging machinery manufacturing .....	9	7	1	e	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	6	17	5	279	10 627	147	249	4 137	17 832	12 555	30 177	411

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>												
334	Computer and electronic product manufacturing .....	—	479	200	34 823	2 060 786	12 591	24 467	435 927	7 371 664	6 476 386	13 897 391	274 972
3341	Computer and peripheral equipment manufacturing .....	—	58	19	8 788	599 862	1 291	2 297	53 395	3 913 661	3 410 636	7 354 791	51 142
33411	Computer and peripheral equipment manufacturing ....	—	58	19	8 788	599 862	1 291	2 297	53 395	3 913 661	3 410 636	7 354 791	51 142
334111	Electronic computer manufacturing .....	—	26	10	i	D	D	D	D	D	D	D	44 777
334119	Other computer peripheral equipment manufacturing ..	1	23	7	f	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	4	70	34	4 485	253 478	1 648	3 193	53 191	535 116	455 769	1 000 099	D
33421	Telephone apparatus manufacturing .....	2	22	13	1 842	119 822	419	785	14 402	312 607	207 640	530 079	D
334210	Telephone apparatus manufacturing .....	2	22	13	1 842	119 822	419	785	14 402	312 607	207 640	530 079	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	6	38	19	2 498	126 434	1 170	2 294	37 114	205 514	232 526	437 325	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	6	38	19	2 498	126 434	1 170	2 294	37 114	205 514	232 526	437 325	D
3343	Audio and video equipment manufacturing .....	6	13	6	368	13 180	217	435	4 408	62 626	43 500	106 552	1 371
33431	Audio and video equipment manufacturing .....	6	13	6	368	13 180	217	435	4 408	62 626	43 500	106 552	1 371
334310	Audio and video equipment manufacturing .....	6	13	6	368	13 180	217	435	4 408	62 626	43 500	106 552	1 371
3344	Semiconductor and other electronic component manufacturing .....	1	155	74	9 935	446 657	5 820	11 625	187 741	862 905	1 073 071	1 970 272	71 242
33441	Semiconductor and other electronic component manufacturing .....	1	155	74	9 935	446 657	5 820	11 625	187 741	862 905	1 073 071	1 970 272	71 242
334411	Electron tube manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	71 242
334412	Bare printed circuit board manufacturing .....	3	23	10	750	25 264	523	1 067	15 191	53 565	58 357	109 314	D
334413	Semiconductor and related device manufacturing .....	2	52	18	2 201	141 036	931	1 786	37 559	270 089	126 201	422 727	26 433
334417	Electronic connector manufacturing .....	—	9	5	397	17 088	224	482	8 631	26 049	39 636	65 456	2 147
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	29	23	3 664	146 016	2 365	4 864	73 825	291 775	647 511	952 059	32 495
334419	Other electronic component manufacturing .....	1	33	14	2 103	80 106	1 146	2 275	29 758	146 267	164 779	313 134	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	148	58	10 536	716 726	3 230	6 145	125 111	1 922 209	1 445 482	3 342 425	122 060
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	148	58	10 536	716 726	3 230	6 145	125 111	1 922 209	1 445 482	3 342 425	122 060
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	1	18	8	1 507	99 830	500	1 076	24 632	278 900	116 395	404 502	10 297
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	6	5	3	e	D	D	D	D	D	D	D	689
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	1	23	8	507	30 708	180	358	7 519	50 257	53 695	103 141	D
334514	Totalizing fluid meter and counting device manufacturing .....	—	6	2	715	31 680	353	374	10 796	30 641	40 688	71 634	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	—	30	12	1 240	98 387	414	838	17 962	125 455	96 386	224 616	9 540
334516	Analytical laboratory instrument manufacturing ..	—	27	12	4 356	300 731	1 082	2 117	35 013	983 298	748 465	1 709 151	85 990
334517	Irradiation apparatus manufacturing .....	—	5	2	f	D	D	D	D	D	D	D	D
334519	Other measuring and controlling device manufacturing .....	—	22	8	905	48 931	347	622	11 407	89 407	73 335	166 901	5 058

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 <sup>1</sup>	All establishments <sup>2</sup>		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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	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>												
334	Computer and electronic product manufacturing—Con.												
3346	Manufacturing and reproducing magnetic and optical media.....	3	35	9	711	30 883	385	772	12 081	75 147	47 928	123 252	D
33461	Manufacturing and reproducing magnetic and optical media...	3	35	9	711	30 883	385	772	12 081	75 147	47 928	123 252	D
334611	Software reproducing .....	—	6	2	286	14 427	114	198	3 843	37 898	23 837	61 767	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	6	19	6	352	13 401	225	476	6 275	28 295	13 247	41 611	967
335	Electrical equipment, appliance, and component manufacturing .....	1	104	27	3 761	146 404	2 161	4 433	57 774	552 124	347 468	886 795	13 753
3351	Electric lighting equipment manufacturing .....	1	35	8	996	38 313	591	1 151	16 455	106 533	81 997	183 757	D
33512	Lighting fixture manufacturing ..	1	35	8	996	38 313	591	1 151	16 455	106 533	81 997	183 757	D
335121	Residential electric lighting fixture manufacturing .....	9	16	2	349	10 118	276	533	6 415	13 405	11 620	25 022	D
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing .....	—	11	4	400	17 389	171	332	5 267	65 056	26 989	85 775	D
3353	Electrical equipment manufacturing .....	3	28	6	1 022	39 308	617	1 206	15 790	99 727	50 980	154 912	4 296
33531	Electrical equipment manufacturing .....	3	28	6	1 022	39 308	617	1 206	15 790	99 727	50 980	154 912	4 296
335313	Switchgear and switchboard apparatus manufacturing ..	6	7	2	271	10 984	213	437	7 177	23 709	19 975	46 379	D
335314	Relay and industrial control manufacturing .....	2	15	3	584	20 283	286	560	3 964	62 270	17 713	80 990	640
3359	Other electrical equipment and component manufacturing .....	—	38	12	1 720	68 068	939	2 052	25 136	344 756	213 612	546 005	6 454
33592	Communication and energy wire and cable manufacturing ..	—	8	1	e	D	D	D	D	D	D	D	D
335929	Other communication and energy wire manufacturing ..	—	3	1	e	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing .....	—	23	9	1 177	49 337	719	1 598	18 333	246 534	164 658	404 010	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	—	21	8	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	101	23	8 307	508 750	7 189	13 522	433 944	1 839 483	4 466 196	6 294 391	56 802
3361	Motor vehicle manufacturing .....	—	3	2	i	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	2	1	i	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	—	1	1	i	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
3362	Motor vehicle body and trailer manufacturing .....	1	13	5	251	8 973	200	391	6 265	19 287	16 937	35 482	D
33621	Motor vehicle body and trailer manufacturing .....	1	13	5	251	8 973	200	391	6 265	19 287	16 937	35 482	D
3363	Motor vehicle parts manufacturing .....	1	43	10	f	D	D	D	D	D	D	D	5 941
33632	Motor vehicle electrical and electronic equipment manufacturing .....	1	10	4	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	1	8	3	252	9 397	187	374	6 409	19 646	23 965	43 126	1 364
33636	Motor vehicle seating and interior trim manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing ..	—	4	2	e	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	—	9	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	9	2	f	D	D	D	D	D	D	D	D
336411	Aircraft 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.**

[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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>													
<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>													
337	Furniture and related product manufacturing .....	3	348	70	5 085	182 622	3 795	7 381	113 659	436 024	249 222	682 941	8 289
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	266	41	2 675	89 314	1 985	3 915	55 267	191 146	117 413	306 456	D
33711	Wood kitchen cabinet and countertop manufacturing ...	5	135	18	1 270	46 416	893	1 824	25 979	82 303	52 187	134 560	3 398
337110	Wood kitchen cabinet and countertop manufacturing ..	5	135	18	1 270	46 416	893	1 824	25 979	82 303	52 187	134 560	3 398
33712	Household and institutional furniture manufacturing .....	2	131	23	1 405	42 898	1 092	2 091	29 288	108 843	65 226	171 896	D
337121	Upholstered household furniture manufacturing ....	2	43	11	563	17 036	460	911	12 270	45 921	25 525	71 532	D
337122	Nonupholstered wood household furniture manufacturing .....	2	58	8	515	14 380	383	677	9 593	31 372	24 493	55 324	D
3372	Office furniture (including fixtures) manufacturing .....	2	63	21	1 733	68 094	1 244	2 564	39 035	143 052	68 635	211 151	2 508
33721	Office furniture (including fixtures) manufacturing .....	2	63	21	1 733	68 094	1 244	2 564	39 035	143 052	68 635	211 151	2 508
337211	Wood office furniture manufacturing .....	3	15	6	670	20 606	521	1 131	11 244	47 750	22 341	70 467	1 214
337212	Custom architectural woodwork and millwork manufacturing .....	1	19	7	e	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing .....	3	28	8	629	25 686	440	880	14 983	52 368	34 183	86 536	D
3379	Other furniture related product manufacturing .....	5	19	8	677	25 214	566	902	19 357	101 826	63 174	165 334	D
33791	Mattress manufacturing .....	5	10	5	487	19 848	419	614	15 656	90 590	54 419	145 108	D
337910	Mattress manufacturing .....	5	10	5	487	19 848	419	614	15 656	90 590	54 419	145 108	D
339	Miscellaneous manufacturing .....	2	'555	'107	'12 500	'540 602	7 083	'13 497	'206 225	'1 674 261	'839 872	'2 461 537	'65 124
3391	Medical equipment and supplies manufacturing .....	2	267	52	7 294	383 968	3 440	6 910	123 220	1 051 131	418 063	1 454 634	44 186
33911	Medical equipment and supplies manufacturing .....	2	267	52	7 294	383 968	3 440	6 910	123 220	1 051 131	418 063	1 454 634	44 186
339111	Laboratory apparatus and furniture manufacturing ....	1	12	8	632	32 516	310	616	8 780	79 199	43 586	118 288	2 603
339112	Surgical and medical instrument manufacturing ..	4	33	16	2 735	152 861	1 130	2 358	40 156	368 653	168 382	536 341	16 304
339113	Surgical appliance and supplies manufacturing ....	1	19	7	1 731	105 936	679	1 491	27 807	368 442	108 757	476 177	15 227
339114	Dental equipment and supplies manufacturing ....	2	25	5	268	10 772	183	266	4 557	25 014	11 595	37 022	3 324
339115	Ophthalmic goods manufacturing .....	-	15	4	564	34 630	215	397	10 449	124 519	67 611	184 043	4 984
339116	Dental laboratories .....	3	163	12	1 364	47 253	923	1 782	31 471	85 304	18 132	102 763	1 744
3399	Other miscellaneous manufacturing .....	2	'288	'55	'5 206	'156 634	3 643	'6 587	'83 005	'623 130	'421 809	'1 006 903	'20 938
33991	Jewelry and silverware manufacturing .....	3	63	7	569	14 553	399	708	7 951	27 765	17 503	46 742	2 496
339911	Jewelry (except costume) manufacturing .....	4	36	5	351	8 476	235	426	4 682	16 274	11 538	27 614	349
33992	Sporting and athletic goods manufacturing .....	6	26	4	331	9 836	241	503	5 691	29 109	11 275	40 611	D
339920	Sporting and athletic goods manufacturing .....	6	26	4	331	9 836	241	503	5 691	29 109	11 275	40 611	D
33993	Doll, toy, and game manufacturing .....	-	22	4	g	D	D	D	D	D	D	D	4 968
339932	Game, toy, and children's vehicle manufacturing ....	-	18	4	g	D	D	D	D	D	D	D	4 933
33994	Office supplies (except paper) manufacturing .....	2	17	5	e	D	D	D	D	D	D	D	D
33995	Sign manufacturing .....	'2	'71	'10	'735	'29 249	'351	'686	'10 216	'54 401	'27 966	'82 851	'2 236
339950	Sign manufacturing .....	'2	'71	'10	'735	'29 249	'351	'686	'10 216	'54 401	'27 966	'82 851	'2 236
33999	All other miscellaneous manufacturing .....	'7	'89	'25	'1 493	'42 605	'1 124	'1 943	'25 019	'124 824	'99 070	'223 604	'10 029
339999	All other miscellaneous manufacturing .....	7	'74	'21	'1 341	'37 813	'1 009	'1 719	'21 880	'115 971	'91 929	'207 952	9 553
<b>Oakland-Fremont-Hayward, CA Metropolitan Division</b>													
31-33	Manufacturing .....	1	'3 032	'920	'115 367	'5 681 202	'66 526	'128 779	'2 495 399	'18 600 099	'22 571 427	'41 147 930	1 162 218

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>												
	<b>Oakland-Fremont-Hayward, CA Metropolitan Division—Con.</b>												
311	Food manufacturing .....	3	259	98	12 459	440 223	7 660	14 762	222 869	1 541 503	1 361 159	2 906 898	106 093
3113	Sugar and confectionery product manufacturing .....	7	18	10	2 474	90 037	1 801	3 721	59 783	288 715	340 310	630 911	D
31131	Sugar manufacturing .....	9	1	1	g	D	D	D	D	D	D	D	D
311311	Sugarcane mills .....	9	1	1	g	D	D	D	D	D	D	D	D
31133	Confectionery manufacturing from purchased chocolate ...	7	8	3	f	D	D	D	D	D	D	D	D
311330	Confectionery manufacturing from purchased chocolate ..	7	8	3	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery manufacturing .....	1	5	4	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing .....	1	5	4	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	2	13	7	e	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	—	6	5	311	9 385	223	442	4 372	45 282	18 694	63 976	4 456
311412	Frozen specialty food manufacturing .....	—	6	5	311	9 385	223	442	4 372	45 282	18 694	63 976	4 456
3115	Dairy product manufacturing .....	2	14	6	1 162	62 695	489	1 026	21 325	238 465	324 743	563 158	8 331
31151	Dairy product (except frozen) manufacturing .....	4	10	5	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing ....	4	8	4	f	D	D	D	D	D	D	D	D
31152	Ice cream and frozen dessert manufacturing .....	—	4	1	e	D	D	D	D	D	D	D	D
311520	Ice cream and frozen dessert manufacturing .....	—	4	1	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	2	20	10	1 339	34 901	991	1 927	23 314	70 633	164 180	239 069	4 040
31161	Animal slaughtering and processing .....	2	20	10	1 339	34 901	991	1 927	23 314	70 633	164 180	239 069	4 040
311611	Animal (except poultry) slaughtering .....	3	4	2	e	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	1	12	8	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	2	129	40	5 171	169 955	2 893	5 095	75 887	496 203	240 887	736 354	47 657
31181	Bread and bakery product manufacturing .....	3	111	33	4 291	128 964	2 348	4 385	61 811	353 133	179 781	532 579	45 268
311811	Retail bakeries .....	2	71	9	716	14 225	438	710	9 135	29 877	17 242	46 940	D
311812	Commercial bakeries .....	4	35	19	2 688	91 798	1 251	2 525	39 443	212 445	116 025	328 673	9 604
311813	Frozen cakes, pies, and other pastries manufacturing .....	—	5	5	887	22 941	659	1 150	13 233	110 811	46 514	156 966	D
31182	Cookie, cracker, and pasta manufacturing .....	—	15	4	f	D	D	D	D	D	D	D	D
311821	Cookie and cracker manufacturing .....	—	7	3	f	D	D	D	D	D	D	D	1 653
3119	Other food manufacturing .....	1	50	19	1 521	54 809	900	1 841	26 376	279 795	161 759	442 715	8 734
31191	Snack food manufacturing .....	1	9	4	383	13 013	299	582	8 000	33 072	27 067	60 506	1 638
311919	Other snack food manufacturing .....	2	6	2	271	11 054	195	458	6 541	25 168	13 109	38 264	1 535
31192	Coffee and tea manufacturing .	1	9	3	308	14 837	200	440	8 435	94 534	94 286	189 811	3 562
311920	Coffee and tea manufacturing .....	1	9	3	308	14 837	200	440	8 435	94 534	94 286	189 811	3 562
31199	All other food manufacturing ...	1	26	9	f	D	D	D	D	D	D	D	2 741
311991	Perishable prepared food manufacturing .....	5	6	3	e	D	D	D	D	D	D	D	388
311999	All other miscellaneous food manufacturing .....	1	20	6	323	17 302	130	252	4 077	125 965	22 129	147 863	2 353
312	Beverage and tobacco product manufacturing .....	2	37	10	1 237	57 873	595	1 210	24 641	114 557	435 668	544 762	27 820
3121	Beverage manufacturing .....	2	37	10	1 237	57 873	595	1 210	24 641	114 557	435 668	544 762	27 820
31211	Soft drink and ice manufacturing .....	1	11	8	1 020	49 082	491	997	20 623	75 403	405 458	478 492	23 884
312111	Soft drink manufacturing ....	1	7	6	f	D	D	D	D	D	D	D	23 676
314	Textile product mills .....	4	50	6	417	10 718	333	707	7 073	22 874	16 550	39 339	853
3149	Other textile product mills .....	3	32	5	321	8 515	254	544	5 647	18 295	12 885	30 974	762

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>												
	<b>Oakland-Fremont-Hayward, CA Metropolitan Division—Con.</b>												
315	Apparel manufacturing .....	1	100	27	1 763	35 820	1 385	2 468	22 548	92 774	58 990	151 756	D
3152	Cut and sew apparel manufacturing .....	1	88	23	1 474	29 728	1 134	1 931	17 903	72 834	49 314	121 689	D
31521	Cut and sew apparel contractors .....	5	62	10	f	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors .....	5	59	10	f	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing .....	1	20	10	429	11 242	283	474	4 770	20 970	20 707	40 534	D
316	Leather and allied product manufacturing .....	—	9	3	509	13 866	398	670	8 177	45 837	30 905	74 597	D
3162	Footwear manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
31621	Footwear manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
316213	Men's footwear (except athletic) manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	2	64	16	985	27 651	786	1 545	17 548	62 134	66 486	128 378	D
3219	Other wood product manufacturing .....	2	59	14	f	D	D	D	D	D	D	D	D
32192	Wood container and pallet manufacturing .....	1	22	6	e	D	D	D	D	D	D	D	D
321920	Wood container and pallet manufacturing .....	1	22	6	e	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	1	40	27	2 182	88 823	1 599	3 361	52 771	201 269	319 412	521 903	32 019
3222	Converted paper product manufacturing .....	1	37	25	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	1	18	13	989	39 258	731	1 525	23 516	84 835	141 158	225 667	D
322211	Corrugated and solid fiber box manufacturing .....	—	10	7	f	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing ..	1	9	6	f	D	D	D	D	D	D	D	D
322222	Coated and laminated paper manufacturing .....	2	7	4	e	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing .....	—	6	4	336	11 608	273	606	8 165	25 868	37 004	63 265	D
322232	Envelope manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	2	'330	'52	'4 798	'170 604	'3 463	'5 921	'103 859	'357 219	'239 260	'602 372	'42 700
3231	Printing and related support activities .....	2	'330	'52	'4 798	'170 604	'3 463	'5 921	'103 859	'357 219	'239 260	'602 372	'42 700
32311	Printing .....	1	'291	'48	'4 386	'153 474	'3 159	'5 358	'93 285	'317 671	'216 501	'540 101	'39 237
323110	Commercial lithographic printing .....	1	135	22	2 219	76 182	1 738	2 689	52 481	160 468	115 845	281 453	19 051
323113	Commercial screen printing ..	'1	'34	'7	'784	'29 096	'542	'1 056	'14 184	'52 032	'28 780	'81 930	'2 091
323114	Quick printing .....	2	78	4	491	15 444	323	581	8 814	32 836	12 819	45 680	1 315
323116	Manifold business forms printing .....	—	4	3	250	7 696	133	228	3 941	16 639	23 276	39 688	D
32312	Support activities for printing...	7	39	4	412	17 130	304	563	10 574	39 548	22 759	62 271	3 463
324	Petroleum and coal products manufacturing .....	—	26	12	3 552	251 548	2 252	4 852	156 410	1 754 041	5 591 748	7 278 365	209 738
3241	Petroleum and coal products manufacturing .....	—	26	12	3 552	251 548	2 252	4 852	156 410	1 754 041	5 591 748	7 278 365	209 738
32411	Petroleum refineries .....	—	6	6	3 134	230 002	1 927	4 218	140 529	1 630 612	5 385 304	6 949 775	D
324110	Petroleum refineries .....	—	6	6	3 134	230 002	1 927	4 218	140 529	1 630 612	5 385 304	6 949 775	D
32412	Asphalt paving, roofing, and saturated materials manufacturing .....	1	15	3	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	2	129	50	7 494	474 091	3 460	6 465	172 781	1 543 918	798 949	2 327 082	D
3251	Basic chemical manufacturing ...	1	21	12	f	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical manufacturing .....	2	11	7	397	23 289	239	478	12 272	155 528	119 057	277 418	D
325188	All other basic inorganic chemical manufacturing .....	2	10	7	e	D	D	D	D	D	D	D	D
32519	Other basic organic chemical manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing .....	—	2	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.**

[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 <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>												
	<b>Oakland-Fremont-Hayward, CA Metropolitan Division—Con.</b>												
325	Chemical manufacturing—Con.												
3254	Pharmaceutical and medicine manufacturing .....	4	21	9	h	D	D	D	D	D	D	D	
32541	Pharmaceutical and medicine manufacturing .....	4	21	9	h	D	D	D	D	D	D	D	
325412	Pharmaceutical preparation manufacturing .....	9	10	3	h	D	D	D	D	D	D	D	
325413	In-vitro diagnostic substance manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	
325414	Biological product (except diagnostic) manufacturing ..	—	5	3	g	D	D	D	D	D	D	D	
3255	Paint, coating, and adhesive manufacturing .....	—	22	8	f	D	D	D	D	D	D	D	
32551	Paint and coating manufacturing .....	—	12	3		290	10 739	182	288	5 274	63 444	155 251	218 596
325510	Paint and coating manufacturing .....	—	12	3		290	10 739	182	288	5 274	63 444	155 251	218 596
32552	Adhesive manufacturing .....	—	10	5	f	D	D	D	D	D	D	D	
325520	Adhesive manufacturing .....	—	10	5	f	D	D	D	D	D	D	D	
3256	Soap, cleaning compound, and toilet preparation manufacturing .	4	26	9	e	D	D	D	D	D	D	1 784	
3259	Other chemical product and preparation manufacturing .....	1	31	9	f	D	D	D	D	D	D	13 290	
32599	All other chemical product and preparation manufacturing ...	1	23	8		654	33 957	352	754	15 238	117 964	61 303	179 459
325998	All other miscellaneous chemical product and preparation manufacturing .	—	14	5		515	27 866	281	620	12 785	108 468	51 153	159 759
326	Plastics and rubber products manufacturing .....	2	134	54		4 694	153 766	3 611	7 521	99 097	382 417	336 672	717 379
3261	Plastics product manufacturing ..	2	123	53		4 390	145 076	3 394	7 018	94 692	362 370	313 736	673 583
32611	Plastics packaging materials and un laminated film and sheet manufacturing .....	2	24	11	f	D	D	D	D	D	D	D	D
326111	Plastics bag manufacturing ..	2	13	6		515	17 303	377	850	10 503	56 692	53 218	109 156
326112	Plastics packaging film and sheet (including laminated) manufacturing .....	—	5	3		296	12 080	243	434	8 695	31 496	37 760	69 227
32615	Urethane and other foam product (except polystyrene) manufacturing .....	—	7	5		372	11 257	277	525	6 842	28 101	32 263	60 934
326150	Urethane and other foam product (except polystyrene) manufacturing .....	—	7	5		372	11 257	277	525	6 842	28 101	32 263	60 934
32619	Other plastics product manufacturing .....	1	78	33	h	D	D	D	D	D	D	D	11 378
326191	Plastics plumbing fixture manufacturing .....	4	6	4	e	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	1	70	29	h	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	—	11	1		304	8 690	217	503	4 405	20 047	22 936	43 796
32629	Other rubber product manufacturing .....	—	7	1	e	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use .....	—	4	1	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	1	101	43		3 823	165 693	2 960	5 673	116 615	429 052	325 119	750 461
3271	Clay product and refractory manufacturing .....	6	14	6	f	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, and plumbing fixture manufacturing .....	6	11	5	f	D	D	D	D	D	D	D	6 312
327113	Porcelain electrical supply manufacturing .....	6	6	5	f	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing .....	1	27	8		1 283	57 683	1 029	2 149	44 317	159 491	97 227	257 465
32721	Glass and glass product manufacturing .....	1	27	8		1 283	57 683	1 029	2 149	44 317	159 491	97 227	257 465
327213	Glass container manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	4	14	6	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>												
	<b>Oakland-Fremont-Hayward, CA Metropolitan Division—Con.</b>												
327	Nonmetallic mineral product manufacturing—Con.												
3273	Cement and concrete product manufacturing .....	-	40	23	1 405	60 837	1 105	1 907	43 170	159 776	136 038	295 960	D
32732	Ready-mix concrete manufacturing .....	-	24	14	625	31 328	550	1 056	26 795	96 408	96 255	192 907	D
327320	Ready-mix concrete manufacturing .....	-	24	14	625	31 328	550	1 056	26 795	96 408	96 255	192 907	D
32739	Other concrete product manufacturing .....	-	15	9	f	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing .....	-	15	9	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product manufacturing .....	3	17	3	271	10 552	189	388	6 018	24 755	22 789	47 734	D
32799	All other nonmetallic mineral product manufacturing .....	3	17	3	271	10 552	189	388	6 018	24 755	22 789	47 734	D
331	Primary metal manufacturing .....	-	39	17	2 460	122 129	1 897	4 121	86 933	286 701	561 051	873 422	D
3311	Iron and steel mills and ferroalloy manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	-	2	1	f	D	D	D	D	D	D	D	D
3315	Foundries .....	-	26	12	1 399	60 219	1 160	2 486	45 003	141 873	89 891	248 401	D
33151	Ferrous metal foundries .....	-	11	5	f	D	D	D	D	D	D	D	D
331511	Iron foundries .....	-	6	3	e	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment) .....	-	4	1	e	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries .....	-	15	7	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	515	147	11 975	495 368	8 261	16 333	288 284	990 729	681 728	1 674 110	68 709
3321	Forging and stamping.....	4	16	8	650	24 256	442	862	13 279	58 081	57 538	116 965	1 546
33211	Forging and stamping.....	4	16	8	650	24 256	442	862	13 279	58 081	57 538	116 965	1 546
332116	Metal stamping .....	5	10	3	391	15 206	276	512	7 472	36 602	38 938	76 138	D
3322	Cutlery and handtool manufacturing .....	-	10	3	734	47 094	165	356	7 286	48 087	11 556	63 757	5 032
33221	Cutlery and handtool manufacturing .....	-	10	3	734	47 094	165	356	7 286	48 087	11 556	63 757	5 032
332212	Hand and edge tool manufacturing .....	-	8	2	f	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	2	121	40	3 449	131 034	2 436	4 744	78 007	260 107	191 561	454 384	10 502
33231	Plate work and fabricated structural product manufacturing .....	4	31	14	1 199	44 925	874	1 728	26 256	91 291	83 775	175 596	3 579
332312	Fabricated structural metal manufacturing .....	4	20	9	f	D	D	D	D	D	D	D	2 863
33232	Ornamental and architectural metal products manufacturing .....	1	90	26	2 250	86 109	1 562	3 016	51 751	168 816	107 786	278 788	6 923
332321	Metal window and door manufacturing .....	2	15	3	272	10 735	198	396	6 762	22 410	14 928	36 245	1 020
332322	Sheet metal work manufacturing .....	2	54	21	1 520	56 719	1 039	2 026	31 698	71 192	53 624	127 964	5 083
332323	Ornamental and architectural metal work manufacturing ..	-	21	2	458	18 655	325	594	13 291	75 214	39 234	114 579	820
3324	Boiler, tank, and shipping container manufacturing .....	-	10	5	295	12 232	253	550	9 967	58 230	74 935	133 406	D
3325	Hardware manufacturing .....	-	6	3	318	9 824	238	492	5 797	23 036	8 595	31 449	D
33251	Hardware manufacturing .....	-	6	3	318	9 824	238	492	5 797	23 036	8 595	31 449	D
332510	Hardware manufacturing .....	-	6	3	318	9 824	238	492	5 797	23 036	8 595	31 449	D
3326	Spring and wire product manufacturing .....	4	16	5	268	11 026	184	398	6 367	20 896	16 019	37 290	1 637
33261	Spring and wire product manufacturing .....	4	16	5	268	11 026	184	398	6 367	20 896	16 019	37 290	1 637

See footnotes at end of table.

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	<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>												
	<b>Oakland-Fremont-Hayward, CA Metropolitan Division—Con.</b>												
332	Fabricated metal product manufacturing—Con.												
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	230	44	3 551	152 495	2 667	5 202	103 952	268 073	169 520	443 040	29 792
33271	Machine shops .....	2	201	34	3 017	129 174	2 248	4 457	87 244	222 261	147 825	374 535	24 824
332710	Machine shops .....	2	201	34	3 017	129 174	2 248	4 457	87 244	222 261	147 825	374 535	24 824
33272	Turned product and screw, nut, and bolt manufacturing .....	—	29	10	534	23 321	419	745	16 708	45 812	21 695	68 505	4 968
332721	Precision turned product manufacturing .....	1	22	7	e	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities .....	2	59	17	981	35 855	719	1 517	20 891	94 789	30 134	117 746	7 206
33281	Coating, engraving, heat treating, and allied activities ..	2	59	17	981	35 855	719	1 517	20 891	94 789	30 134	117 746	7 206
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	1	24	6	378	13 747	250	519	6 821	54 567	16 046	63 538	3 826
332813	Electroplating, plating, polishing, anodizing, and coloring .....	3	30	9	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	1	47	22	1 729	71 552	1 157	2 212	42 738	159 430	121 870	276 073	10 995
33291	Metal valve manufacturing ....	1	15	4	867	35 936	569	1 054	22 360	67 742	35 513	99 511	1 667
332911	Industrial valve manufacturing .....	—	9	3	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	1	32	18	862	35 616	588	1 158	20 378	91 688	86 357	176 562	9 328
332999	All other miscellaneous fabricated metal product manufacturing .....	1	26	15	710	29 295	470	900	15 931	78 903	78 733	155 933	8 537
333	Machinery manufacturing .....	2	164	49	6 822	427 372	1 965	3 766	80 348	885 117	712 757	1 626 332	37 855
3332	Industrial machinery manufacturing .....	2	40	25	4 835	329 956	987	1 857	45 773	624 038	475 895	1 126 853	30 640
33329	Other industrial machinery manufacturing .....	2	37	22	h	D	D	D	D	D	D	D	D
333295	Semiconductor machinery manufacturing .....	2	23	16	4 407	308 633	754	1 359	37 370	588 182	447 230	1 064 675	D
3333	Commercial and service industry machinery manufacturing .....	—	26	5	486	30 707	187	375	8 096	135 901	86 587	223 355	3 524
33331	Commercial and service industry machinery manufacturing .....	—	26	5	486	30 707	187	375	8 096	135 901	86 587	223 355	3 524
3335	Metalworking machinery manufacturing .....	3	33	5	314	13 067	220	445	8 025	27 367	13 550	39 896	487
33351	Metalworking machinery manufacturing .....	3	33	5	314	13 067	220	445	8 025	27 367	13 550	39 896	487
3339	Other general purpose machinery manufacturing .....	7	46	12	995	46 790	445	843	14 365	80 730	121 255	203 796	2 780
33399	All other general purpose machinery manufacturing ....	8	31	9	f	D	D	D	D	D	D	D	D
333993	Packaging machinery manufacturing .....	9	6	1	e	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	6	14	5	268	10 191	141	238	3 946	16 900	11 851	28 541	384
334	Computer and electronic product manufacturing .....	—	367	160	27 652	1 661 106	9 963	19 211	347 304	6 275 625	5 555 904	11 900 456	180 647
3341	Computer and peripheral equipment manufacturing .....	—	50	17	8 692	592 827	1 272	2 267	52 795	3 903 042	3 391 028	7 324 535	D
33411	Computer and peripheral equipment manufacturing ....	—	50	17	8 692	592 827	1 272	2 267	52 795	3 903 042	3 391 028	7 324 535	D
334111	Electronic computer manufacturing .....	—	24	9	i	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	1	19	6	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 <sup>1</sup>	All establishments <sup>2</sup>		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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	<b>Oakland-Fremont-Hayward, CA Metropolitan Division—Con.</b>												
334	Computer and electronic product manufacturing—Con.												
3342	Communications equipment manufacturing .....	4	50	25	2 877	169 989	1 009	1 836	34 962	398 070	343 557	751 507	D
33421	Telephone apparatus manufacturing .....	2	16	10	1 297	89 408	254	427	11 004	220 603	182 890	413 428	D
334210	Telephone apparatus manufacturing .....	2	16	10	1 297	89 408	254	427	11 004	220 603	182 890	413 428	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	7	26	13	g	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	7	26	13	g	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing .....	5	11	5	e	D	D	D	D	D	D	D	D
33431	Audio and video equipment manufacturing .....	5	11	5	e	D	D	D	D	D	D	D	D
334310	Audio and video equipment manufacturing .....	5	11	5	e	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	1	128	60	8 094	378 108	4 671	9 417	152 252	728 832	970 521	1 742 011	D
33441	Semiconductor and other electronic component manufacturing .....	1	128	60	8 094	378 108	4 671	9 417	152 252	728 832	970 521	1 742 011	D
334412	Bare printed circuit board manufacturing .....	2	18	7	653	21 784	438	910	12 426	47 226	52 085	96 501	D
334413	Semiconductor and related device manufacturing .....	2	45	16	2 142	138 283	895	1 712	36 400	262 106	123 288	411 831	26 253
334417	Electronic connector manufacturing .....	—	8	4	e	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	25	20	2 970	127 752	2 042	4 211	67 305	258 672	611 592	885 900	30 172
334419	Other electronic component manufacturing .....	1	28	12	1 942	73 061	1 088	2 134	27 888	136 818	150 998	291 589	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	105	47	7 293	492 454	2 567	4 793	94 480	1 146 427	787 390	1 919 303	42 138
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	105	47	7 293	492 454	2 567	4 793	94 480	1 146 427	787 390	1 919 303	42 138
334510	Electromedical and electrotherapeutic apparatus manufacturing .....	—	12	5	915	59 684	316	701	16 752	204 596	79 011	285 362	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	1	17	6	e	D	D	D	D	D	D	D	716
334514	Totalizing fluid meter and counting device manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	—	24	11	1 171	93 965	384	779	16 944	115 637	90 911	209 323	D
334516	Analytical laboratory instrument manufacturing .....	1	17	9	g	D	D	D	D	D	D	D	D
334517	Irradiation apparatus manufacturing .....	—	5	2	f	D	D	D	D	D	D	D	D
334519	Other measuring and controlling device manufacturing .....	—	16	8	882	47 751	341	610	11 185	86 566	72 428	163 139	D
3346	Manufacturing and reproducing magnetic and optical media .....	3	23	6	e	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media .....	3	23	6	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	2	74	20	2 336	89 849	1 314	2 572	33 747	254 915	161 381	416 797	D

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	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>												
	<b>Oakland-Fremont-Hayward, CA Metropolitan Division—Con.</b>												
335	Electrical equipment, appliance, and component manufacturing—Con.												
3351	Electric lighting equipment manufacturing .....	1	23	8	923	35 862	539	1 057	15 031	100 050	79 389	174 676	D
33512	Lighting fixture manufacturing ..	1	23	8	923	35 862	539	1 057	15 031	100 050	79 389	174 676	D
335121	Residential electric lighting fixture manufacturing .....	9	9	2	e	D	D	D	D	D	D	D	D
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing .....	—	7	4	361	16 112	146	287	4 557	60 758	25 721	80 209	D
3353	Electrical equipment manufacturing .....	4	20	4	805	28 066	471	928	9 695	79 812	33 522	116 954	D
33531	Electrical equipment manufacturing .....	4	20	4	805	28 066	471	928	9 695	79 812	33 522	116 954	D
335314	Relay and industrial control manufacturing .....	2	11	3	556	18 939	271	527	3 602	59 580	15 418	75 991	D
3359	Other electrical equipment and component manufacturing .....	1	28	7	585	25 206	290	563	8 628	73 945	47 591	123 046	D
33599	All other electrical equipment and component manufacturing .....	1	18	6	e	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	2	17	5	e	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	73	21	8 017	497 163	6 963	13 063	425 920	1 815 300	4 439 865	6 243 384	55 944
3361	Motor vehicle manufacturing .....	—	2	2	i	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	1	1	i	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	—	1	1	i	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 .....	1	35	10	f	D	D	D	D	D	D	D	5 589
33632	Motor vehicle electrical and electronic equipment manufacturing .....	1	9	4	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	1	8	3	252	9 397	187	374	6 409	19 646	23 965	43 126	1 364
33636	Motor vehicle seating and interior trim manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
336360	Motor vehicle seating and interior trim manufacturing ..	—	4	2	e	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	—	8	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	8	2	f	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	3	174	35	3 051	112 051	2 274	4 298	70 741	282 118	167 662	448 685	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	4	128	17	1 220	40 133	901	1 685	25 325	79 914	58 665	137 938	D
33711	Wood kitchen cabinet and countertop manufacturing .....	5	66	7	615	21 128	454	887	12 965	35 951	28 247	64 122	D
337110	Wood kitchen cabinet and countertop manufacturing ..	5	66	7	615	21 128	454	887	12 965	35 951	28 247	64 122	D
33712	Household and institutional furniture manufacturing .....	2	62	10	605	19 005	447	798	12 360	43 963	30 418	73 816	D
337122	Nonupholstered wood household furniture manufacturing .....	1	31	5	319	9 970	213	349	5 986	22 730	17 477	39 671	D

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<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>													
<b>Oakland-Fremont-Hayward, CA Metropolitan Division—Con.</b>													
337	Furniture and related product manufacturing—Con.												
3372	Office furniture (including fixtures) manufacturing .....	2	34	13	1 302	51 629	935	1 963	29 964	110 986	49 632	160 064	D
33721	Office furniture (including fixtures) manufacturing .....	2	34	13	1 302	51 629	935	1 963	29 964	110 986	49 632	160 064	D
337211	Wood office furniture manufacturing .....	2	10	5	614	19 007	476	1 044	10 176	44 604	20 177	65 165	D
337212	Custom architectural woodwork and millwork manufacturing .....	—	13	4	306	15 407	200	409	9 446	30 207	6 561	35 812	D
337215	Showcase, partition, shelving, and locker manufacturing .....	2	11	4	382	17 215	259	510	10 342	36 175	22 894	59 087	D
3379	Other furniture related product manufacturing .....	5	12	5	529	20 289	438	650	15 452	91 218	59 365	150 683	D
33791	Mattress manufacturing .....	5	7	3	e	D	D	D	D	D	D	D	D
337910	Mattress manufacturing .....	5	7	3	e	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	2	328	72	'8 942	'377 088	5 253	'9 992	'152 881	'1 244 758	'676 833	'1 871 132	'47 713
3391	Medical equipment and supplies manufacturing .....	3	163	40	5 358	266 924	2 814	5 622	97 991	764 023	362 617	1 116 849	31 696
33911	Medical equipment and supplies manufacturing .....	3	163	40	5 358	266 924	2 814	5 622	97 991	764 023	362 617	1 116 849	31 696
339111	Laboratory apparatus and furniture manufacturing .....	2	7	5	e	D	D	D	D	D	D	D	1 955
339112	Surgical and medical instrument manufacturing .....	5	21	11	1 842	91 393	917	1 893	29 559	255 761	134 240	394 333	8 313
339113	Surgical appliance and supplies manufacturing .....	2	13	6	g	D	D	D	D	D	D	D	D
339115	Ophthalmic goods manufacturing .....	—	14	4	f	D	D	D	D	D	D	D	D
339116	Dental laboratories .....	2	87	9	1 030	37 033	681	1 303	24 257	67 936	14 008	81 452	D
3399	Other miscellaneous manufacturing .....	1	165	32	'3 584	'110 164	2 439	'4 370	'54 890	'480 735	'314 216	'754 283	'16 017
33993	Doll, toy, and game manufacturing .....	—	12	3	g	D	D	D	D	D	D	D	D
339932	Game, toy, and children's vehicle manufacturing .....	—	10	3	g	D	D	D	D	D	D	D	D
33995	Sign manufacturing .....	2	'49	'8	'574	'23 915	'238	'468	'7 378	'45 448	'23 662	'69 590	'2 077
339950	Sign manufacturing .....	2	'49	'8	'574	'23 915	'238	'468	'7 378	'45 448	'23 662	'69 590	'2 077
33999	All other miscellaneous manufacturing .....	'5	'54	'14	'747	'20 862	'567	'960	'12 734	'44 441	'32 638	'77 825	6 411
339999	All other miscellaneous manufacturing .....	4	'45	'13	'670	'18 705	'513	'848	'11 323	'39 455	'29 962	'70 179	6 046
<b>San Francisco-San Mateo-Redwood City, CA Metropolitan Division</b>													
31-33	Manufacturing .....	3	'2 080	'450	'48 303	'2 096 425	27 164	51 907	'831 464	'7 960 879	'4 491 513	'12 403 608	'443 986
311	Food manufacturing .....	4	264	67	6 555	198 366	4 144	7 666	111 320	776 343	532 631	1 310 804	36 507
3113	Sugar and confectionery product manufacturing .....	1	17	7	1 237	49 024	980	1 871	31 011	167 466	173 428	340 252	D
31133	Confectionery manufacturing from purchased chocolate .....	1	14	5	f	D	D	D	D	D	D	D	D
311330	Confectionery manufacturing from purchased chocolate .....	1	14	5	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	3	15	10	660	21 280	538	1 077	14 660	63 430	70 819	134 231	3 909
31161	Animal slaughtering and processing .....	3	15	10	660	21 280	538	1 077	14 660	63 430	70 819	134 231	3 909
311612	Meat processed from carcasses .....	3	12	8	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	6	150	34	3 537	88 014	1 902	3 181	44 267	390 995	119 198	510 436	7 470
31181	Bread and bakery product manufacturing .....	6	136	30	3 303	81 942	1 719	2 838	40 020	376 508	107 610	484 325	6 900
311811	Retail bakeries .....	3	103	15	1 489	26 877	743	1 117	13 808	57 284	26 458	83 708	D
311812	Commercial bakeries .....	6	30	13	1 675	50 953	854	1 498	23 157	308 006	71 637	379 866	4 566
3119	Other food manufacturing .....	5	46	8	591	22 856	401	865	12 376	73 661	71 013	144 954	2 524
31199	All other food manufacturing .....	6	29	6	e	D	D	D	D	D	D	D	1 367

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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	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>												
	<b>San Francisco-San Mateo-Redwood City, CA Metropolitan Division—Con.</b>												
312	Beverage and tobacco product manufacturing .....	9	21	5	373	16 322	269	441	9 477	320 149	196 544	514 433	4 464
3121	Beverage manufacturing .....	9	21	5	373	16 322	269	441	9 477	320 149	196 544	514 433	4 464
314	Textile product mills .....	3	51	5	404	11 064	302	551	5 902	24 870	16 080	39 835	317
315	Apparel manufacturing .....	7	201	73	6 087	145 935	4 365	8 226	75 711	971 278	1 286 775	2 225 165	D
3151	Apparel knitting mills .....	—	3	2	e	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills ....	—	3	2	e	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills .....	—	3	2	e	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing .....	7	181	68	5 348	122 617	3 853	7 074	64 961	941 366	1 238 703	2 145 149	D
31521	Cut and sew apparel contractors .....	3	123	42	g	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors .....	3	117	41	g	D	D	D	D	D	D	D	D
31522	Men's and boys' cut and sew apparel manufacturing .....	9	18	9	g	D	D	D	D	D	D	D	D
315224	Men's and boys' cut and sew trouser, slack, and jean manufacturing .....	9	3	2	e	D	D	D	D	D	D	D	D
315228	Men's and boys' cut and sew other outerwear manufacturing .....	9	5	3	e	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing .....	—	31	16	1 867	62 424	815	1 593	19 085	164 320	241 759	419 163	D
315232	Women's and girls' cut and sew blouse and shirt manufacturing .....	—	8	4	f	D	D	D	D	D	D	D	D
315233	Women's and girls' cut and sew dress manufacturing...	1	7	3	514	15 214	170	293	3 235	56 537	60 576	119 418	D
315239	Women's and girls' cut and sew other outerwear manufacturing .....	—	13	8	548	21 187	298	563	7 706	36 252	101 124	148 038	D
3159	Apparel accessories and other apparel manufacturing .....	1	17	3	e	D	D	D	D	D	D	D	D
31599	Apparel accessories and other apparel manufacturing .....	1	17	3	e	D	D	D	D	D	D	D	D
315999	Other apparel accessories and other apparel manufacturing .....	1	15	3	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	3	31	9	355	12 490	243	502	6 866	29 323	29 008	58 324	D
3219	Other wood product manufacturing .....	3	30	9	e	D	D	D	D	D	D	D	D
32191	Millwork .....	2	20	7	266	9 721	173	364	5 261	21 889	22 877	44 800	D
322	Paper manufacturing .....	1	21	7	525	24 188	390	868	15 658	49 184	78 103	124 435	3 886
3222	Converted paper product manufacturing .....	1	21	7	525	24 188	390	868	15 658	49 184	78 103	124 435	3 886
32221	Paperboard container manufacturing .....	—	7	2	289	14 649	224	528	10 034	26 138	60 122	85 103	D
322211	Corrugated and solid fiber box manufacturing .....	—	6	2	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	2	393	68	5 184	213 908	3 513	6 550	125 272	412 603	228 173	640 430	15 560
3231	Printing and related support activities .....	2	393	68	5 184	213 908	3 513	6 550	125 272	412 603	228 173	640 430	15 560
32311	Printing .....	2	345	56	4 072	164 101	2 779	5 167	96 247	332 115	199 617	530 031	11 882
323110	Commercial lithographic printing .....	1	169	33	2 339	101 504	1 581	2 985	58 747	198 018	134 001	329 831	4 702
323113	Commercial screen printing ..	5	29	5	296	7 810	215	356	4 511	13 770	8 051	21 889	853
323114	Quick printing .....	4	81	6	518	15 561	356	653	9 456	33 657	12 536	46 336	2 225
323115	Digital printing .....	—	21	4	318	13 730	209	333	7 362	29 842	7 068	36 714	1 707
323117	Books printing .....	5	10	4	350	15 050	265	537	10 345	32 082	24 308	56 923	1 423
32312	Support activities for printing...	—	48	12	1 112	49 807	734	1 383	29 025	80 488	28 556	110 399	3 678
323121	Tradebinding and related work .....	—	17	6	630	23 136	444	899	14 032	38 828	16 665	56 257	1 036
323122	Prepress services .....	—	31	6	482	26 671	290	484	14 993	41 660	11 891	54 142	2 642

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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>												
	<b>San Francisco-San Mateo-Redwood City, CA Metropolitan Division—Con.</b>												
325	Chemical manufacturing .....	-	70	20	6 969	455 311	1 732	2 714	71 759	2 651 911	231 796	2 912 884	D
3254	Pharmaceutical and medicine manufacturing .....	-	22	10	i	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	-	22	10	i	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	-	5	3	i	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing .....	2	10	3	e	D	D	D	D	D	D	D	D
32551	Paint and coating manufacturing .....	3	9	3	352	13 749	269	370	10 515	100 395	100 586	199 504	D
325510	Paint and coating manufacturing .....	3	9	3	352	13 749	269	370	10 515	100 395	100 586	199 504	D
326	Plastics and rubber products manufacturing .....	8	40	10	2 127	92 470	1 395	2 686	53 990	222 590	172 041	393 362	6 460
3261	Plastics product manufacturing ..	8	34	10	2 101	91 466	1 373	2 643	53 165	220 970	170 377	390 078	6 396
32612	Plastics pipe, pipe fitting, and un laminated profile shape manufacturing .....	9	3	2	g	D	D	D	D	D	D	D	D
326121	Un laminated plastics profile shape manufacturing .....	9	2	2	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	2	25	7	f	D	D	D	D	D	D	D	1 845
326199	All other plastics product manufacturing .....	2	24	7	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	1	58	17	925	'41 038	706	1 432	'30 779	91 841	81 763	173 196	6 211
3273	Cement and concrete product manufacturing .....	1	18	11	512	'26 717	407	772	'19 863	65 132	68 560	133 698	D
32732	Ready-mix concrete manufacturing .....	-	11	6	338	20 111	263	501	14 867	44 187	60 305	104 492	D
327320	Ready-mix concrete manufacturing .....	-	11	6	338	20 111	263	501	14 867	44 187	60 305	104 492	D
332	Fabricated metal product manufacturing .....	4	255	34	3 054	127 446	2 272	4 493	81 464	278 943	164 963	442 529	8 046
3321	Forging and stamping.....	9	9	3	380	13 706	298	588	9 096	23 956	20 042	43 948	663
33211	Forging and stamping.....	9	9	3	380	13 706	298	588	9 096	23 956	20 042	43 948	663
332116	Metal stamping .....	8	5	2	343	12 034	271	534	8 125	19 446	15 038	34 428	D
3323	Architectural and structural metals manufacturing .....	3	70	12	786	32 732	561	1 079	19 852	68 588	42 519	110 556	1 368
33232	Ornamental and architectural metal products manufacturing .....	2	57	10	638	26 715	458	873	16 349	56 622	31 582	87 457	1 000
332322	Sheet metal work manufacturing .....	1	26	6	331	15 091	251	475	10 040	35 164	17 953	52 563	505
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	104	10	1 071	49 368	826	1 664	34 615	109 119	59 461	167 667	3 551
33271	Machine shops .....	4	90	6	669	28 647	511	939	20 085	63 902	20 274	84 361	2 008
332710	Machine shops .....	4	90	6	669	28 647	511	939	20 085	63 902	20 274	84 361	2 008
33272	Turned product and screw, nut, and bolt manufacturing .....	2	14	4	402	20 721	315	725	14 530	45 217	39 187	83 306	1 543
332721	Precision turned product manufacturing .....	-	11	3	e	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities .....	5	23	3	303	10 758	241	426	7 355	21 853	7 857	29 959	1 011
33281	Coating, engraving, heat treating, and allied activities ..	5	23	3	303	10 758	241	426	7 355	21 853	7 857	29 959	1 011
3329	Other fabricated metal product manufacturing .....	2	23	3	300	13 417	188	388	6 000	39 441	25 996	65 879	842
33299	All other fabricated metal product manufacturing .....	2	18	3	270	12 160	167	348	5 175	36 354	24 870	61 667	651
333	Machinery manufacturing .....	6	61	9	811	39 401	444	917	15 925	93 240	55 156	146 234	3 293

See footnotes at end of table.

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

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	<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>												
	<b>San Francisco-San Mateo-Redwood City, CA Metropolitan Division—Con.</b>												
334	Computer and electronic product manufacturing .....	1	112	40	7 171	399 680	2 628	5 256	88 623	1 096 039	920 482	1 996 935	94 325
3342	Communications equipment manufacturing .....	4	20	9	1 608	83 489	639	1 357	18 229	137 046	112 212	248 592	D
33421	Telephone apparatus manufacturing .....	4	6	3	545	30 414	165	358	3 398	92 004	24 750	116 651	1 638
334210	Telephone apparatus manufacturing .....	4	6	3	545	30 414	165	358	3 398	92 004	24 750	116 651	1 638
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	5	12	6	g	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	5	12	6	g	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	—	27	14	1 841	68 549	1 149	2 208	35 489	134 073	102 550	228 261	D
33441	Semiconductor and other electronic component manufacturing .....	—	27	14	1 841	68 549	1 149	2 208	35 489	134 073	102 550	228 261	D
334411	Electron tube manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	4	3	694	18 264	323	653	6 520	33 103	35 919	66 159	2 323
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	43	11	3 243	224 272	663	1 352	30 631	775 782	658 092	1 423 122	79 922
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	43	11	3 243	224 272	663	1 352	30 631	775 782	658 092	1 423 122	79 922
334510	Electromedical and electrotherapeutic apparatus manufacturing .....	4	6	3	592	40 146	184	375	7 880	74 304	37 384	119 140	D
334516	Analytical laboratory instrument manufacturing .....	—	10	3	g	D	D	D	D	D	D	D	D
3346	Manufacturing and reproducing magnetic and optical media .....	4	12	3	e	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media .....	4	12	3	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	30	7	1 425	56 555	847	1 861	24 027	297 209	186 087	469 998	D
3359	Other electrical equipment and component manufacturing .....	—	10	5	1 135	42 862	649	1 489	16 508	270 811	166 021	422 959	D
33592	Communication and energy wire and cable manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
335929	Other communication and energy wire manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	6	28	2	290	11 587	226	459	8 024	24 183	26 331	51 007	858
337	Furniture and related product manufacturing .....	3	174	35	2 034	70 571	1 521	3 083	42 918	153 906	81 560	234 256	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	138	24	1 455	49 181	1 084	2 230	29 942	111 232	58 748	168 518	D
33711	Wood kitchen cabinet and countertop manufacturing .....	5	69	11	655	25 288	439	937	13 014	46 352	23 940	70 438	D
337110	Wood kitchen cabinet and countertop manufacturing .....	5	69	11	655	25 288	439	937	13 014	46 352	23 940	70 438	D
33712	Household and institutional furniture manufacturing .....	2	69	13	800	23 893	645	1 293	16 928	64 880	34 808	98 080	D
337121	Upholstered household furniture manufacturing .....	2	22	7	335	9 768	267	539	6 813	28 610	16 997	45 713	D
3372	Office furniture (including fixtures) manufacturing .....	4	29	8	431	16 465	309	601	9 071	32 066	19 003	51 087	D
33721	Office furniture (including fixtures) manufacturing .....	4	29	8	431	16 465	309	601	9 071	32 066	19 003	51 087	D

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

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<b>San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area—Con.</b>													
<b>San Francisco-San Mateo-Redwood City, CA Metropolitan Division—Con.</b>													
339	Miscellaneous manufacturing .....	3	'227	'35	'3 558	'163 514	1 830	3 505	53 344	'429 503	'163 039	'590 405	'17 411
3391	Medical equipment and supplies manufacturing .....	—	104	12	1 936	117 044	626	1 288	25 229	287 108	55 446	337 785	12 490
33911	Medical equipment and supplies manufacturing .....	—	104	12	1 936	117 044	626	1 288	25 229	287 108	55 446	337 785	12 490
339112	Surgical and medical instrument manufacturing ..	1	12	5	893	61 468	213	465	10 597	112 892	34 142	142 008	7 991
339113	Surgical appliance and supplies manufacturing ....	—	6	1	e	D	D	D	D	D	D	D	D
339116	Dental laboratories .....	5	76	3	334	10 220	242	479	7 214	17 368	4 124	21 311	D
3399	Other miscellaneous manufacturing .....	'6	'123	'23	'1 622	'46 470	1 204	2 217	28 115	'142 395	'107 593	'252 620	'4 921
33991	Jewelry and silverware manufacturing .....	3	42	5	395	9 330	273	478	5 204	18 269	10 604	30 412	D
339911	Jewelry (except costume) manufacturing .....	4	25	4	295	7 043	197	366	3 854	13 731	7 127	20 647	274
33999	All other miscellaneous manufacturing .....	'8	'35	'11	'746	'21 743	557	983	12 285	'80 383	'66 432	'145 779	'3 618
339999	All other miscellaneous manufacturing .....	8	29	8	671	19 108	496	871	10 557	76 516	61 967	137 773	3 507
<b>San Jose-Sunnyvale-Santa Clara, CA Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	1	'3 058	'989	'173 597	'10 148 290	74 839	139 348	2 938 997	'26 888 846	'20 044 131	'47 626 699	'2 560 104
311	Food manufacturing .....	1	166	36	3 334	103 587	2 521	4 619	73 913	394 599	401 095	833 725	14 101
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	16	8	1 091	34 361	911	1 530	24 910	182 706	135 591	353 431	6 586
31142	Fruit and vegetable canning, pickling, and drying .....	—	12	5	844	27 326	692	1 142	19 770	146 081	114 405	295 620	D
311421	Fruit and vegetable canning ..	—	8	3	e	D	D	D	D	D	D	D	2 780
311423	Dried and dehydrated food manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	1	9	2	295	12 231	280	645	11 181	34 665	76 326	110 853	1 190
3116	Animal slaughtering and processing .....	1	9	3	322	10 188	252	355	7 092	60 422	71 327	134 788	832
31161	Animal slaughtering and processing .....	1	9	3	322	10 188	252	355	7 092	60 422	71 327	134 788	832
311612	Meat processed from carcasses .....	1	6	3	296	9 266	228	301	6 215	59 062	68 752	130 853	D
3118	Bakeries and tortilla manufacturing .....	2	95	12	945	21 985	533	889	12 890	42 257	17 740	60 100	2 153
31181	Bread and bakery product manufacturing .....	2	87	11	892	20 501	490	796	11 974	37 364	16 323	53 729	2 029
311811	Retail bakeries .....	4	72	8	710	12 354	362	549	6 836	21 905	10 458	32 393	D
3119	Other food manufacturing .....	3	26	7	408	15 161	330	729	11 141	54 323	48 313	101 952	2 390
312	Beverage and tobacco product manufacturing .....	1	30	8	483	19 897	294	520	9 843	97 655	86 743	187 294	39 004
3121	Beverage manufacturing .....	1	30	8	483	19 897	294	520	9 843	97 655	86 743	187 294	39 004
31213	Wineries .....	—	24	6	391	16 090	247	426	8 066	79 134	80 014	162 069	37 929
312130	Wineries .....	—	24	6	391	16 090	247	426	8 066	79 134	80 014	162 069	37 929
314	Textile product mills .....	7	27	5	294	8 084	232	421	5 162	14 485	13 641	27 980	339
315	Apparel manufacturing .....	8	29	4	289	10 789	191	350	4 444	9 289	10 130	20 596	D
3152	Cut and sew apparel manufacturing .....	7	25	3	257	10 073	164	300	3 881	8 514	8 701	18 393	D
321	Wood product manufacturing .....	2	36	15	748	23 247	601	1 242	16 303	44 314	36 453	81 234	D
3219	Other wood product manufacturing .....	2	32	12	650	20 209	542	1 111	14 695	37 854	32 217	70 642	D
32191	Millwork .....	1	13	5	275	9 862	206	456	6 349	11 484	17 345	29 135	545

See footnotes at end of table.



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[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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>San Jose-Sunnyvale-Santa Clara, CA Metropolitan Statistical Area—Con.</b>												
327	Nonmetallic mineral product manufacturing—Con.												
3279	Other nonmetallic mineral product manufacturing .....	1	15	6	656	27 655	548	1 192	21 412	86 388	35 610	120 806	D
32799	All other nonmetallic mineral product manufacturing .....	1	13	4	f	D	D	D	D	D	D	D	D
327993	Mineral wool manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	6	26	7	527	20 235	398	853	13 858	40 348	40 299	80 915	3 084
3314	Nonferrous metal (except aluminum) production and processing .....	9	8	3	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	3	661	152	10 823	431 959	8 040	15 864	276 207	833 303	432 652	1 277 669	63 432
3321	Forging and stamping.....	3	17	5	326	11 486	197	380	6 868	19 348	12 669	32 816	279
33211	Forging and stamping.....	3	17	5	326	11 486	197	380	6 868	19 348	12 669	32 816	279
332116	Metal stamping .....	3	14	5	307	10 580	183	354	6 437	18 034	11 609	30 442	D
3322	Cutlery and handtool manufacturing .....	—	7	1	389	27 304	66	122	3 289	34 427	29 601	64 534	D
33221	Cutlery and handtool manufacturing .....	—	7	1	389	27 304	66	122	3 289	34 427	29 601	64 534	D
332212	Hand and edge tool manufacturing .....	—	5	1	e	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	2	104	36	3 082	119 418	2 315	4 881	78 616	217 991	150 235	376 087	22 771
33231	Plate work and fabricated structural product manufacturing .....	1	21	5	402	16 419	266	636	9 756	28 374	19 409	47 481	3 385
33232	Ornamental and architectural metal products manufacturing .....	3	83	31	2 680	102 999	2 049	4 245	68 860	189 617	130 826	328 606	19 386
332322	Sheet metal work manufacturing .....	3	66	26	2 424	90 727	1 880	3 882	62 453	165 955	121 212	297 403	18 409
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	386	68	4 808	193 997	3 704	7 233	133 566	400 588	170 582	576 296	22 385
33271	Machine shops .....	4	342	52	3 988	162 566	3 049	6 030	110 545	319 114	145 492	469 207	18 827
332710	Machine shops .....	4	342	52	3 988	162 566	3 049	6 030	110 545	319 114	145 492	469 207	18 827
33272	Turned product and screw, nut, and bolt manufacturing .....	1	44	16	820	31 431	655	1 203	23 021	81 474	25 090	107 089	3 558
332721	Precision turned product manufacturing .....	1	41	16	775	29 565	622	1 137	21 888	78 928	23 099	102 583	D
3328	Coating, engraving, heat treating, and allied activities .....	3	91	29	1 395	47 754	1 134	1 998	33 295	83 704	29 787	115 347	5 412
33281	Coating, engraving, heat treating, and allied activities ..	3	91	29	1 395	47 754	1 134	1 998	33 295	83 704	29 787	115 347	5 412
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	4	28	5	302	9 399	238	397	6 787	15 279	8 718	23 997	1 339
332813	Electroplating, plating, polishing, anodizing, and coloring .....	2	57	22	994	34 247	827	1 459	23 889	60 009	18 722	80 602	3 954
3329	Other fabricated metal product manufacturing .....	5	40	10	521	20 426	406	822	13 953	50 664	23 008	69 168	6 247
33299	All other fabricated metal product manufacturing .....	4	35	9	422	16 407	329	668	11 616	40 452	16 936	52 884	5 899
332999	All other miscellaneous fabricated metal product manufacturing .....	4	28	9	404	15 811	314	640	11 205	39 092	15 839	50 427	5 847
333	Machinery manufacturing .....	1	203	68	17 329	1 101 010	5 635	7 544	255 790	1 730 581	1 888 174	3 595 267	203 151
3332	Industrial machinery manufacturing .....	1	93	43	13 709	890 347	4 307	4 978	196 957	1 363 838	1 690 686	3 037 464	178 569
33329	Other industrial machinery manufacturing .....	1	90	43	13 704	890 129	4 304	4 972	196 859	1 363 391	1 690 454	3 036 784	178 557
333295	Semiconductor machinery manufacturing .....	1	54	32	12 910	853 933	3 857	4 152	180 269	1 296 060	1 632 545	2 902 692	173 407
333298	All other industrial machinery manufacturing .....	2	22	8	604	27 868	336	588	13 016	50 968	44 372	104 355	4 337

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>San Jose-Sunnyvale-Santa Clara, CA Metropolitan Statistical Area—Con.</b>												
333	Machinery manufacturing—Con.												
3333	Commercial and service industry machinery manufacturing .....	4	36	10	1 008	62 533	418	758	16 730	79 486	50 312	126 004	7 839
33331	Commercial and service industry machinery manufacturing .....	4	36	10	1 008	62 533	418	758	16 730	79 486	50 312	126 004	7 839
333314	Optical instrument and lens manufacturing .....	1	22	7	635	47 930	191	323	10 100	39 906	31 929	68 659	6 682
333319	Other commercial and service industry machinery manufacturing .....	8	10	3	359	13 861	224	429	6 524	38 693	17 584	55 665	1 135
3335	Metalworking machinery manufacturing .....	4	48	7	f	D	D	D	D	D	D	D	9 631
33351	Metalworking machinery manufacturing .....	4	48	7	f	D	D	D	D	D	D	D	9 631
333514	Special die and tool, die set, jig, and fixture manufacturing .....	1	24	4	448	19 278	205	364	7 137	29 265	8 126	37 477	7 444
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
333611	Turbine and turbine generator set units manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	6	21	6	f	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	7	15	4	672	30 067	159	241	5 336	27 317	35 560	63 039	1 207
333999	All other miscellaneous general purpose machinery manufacturing .....	9	6	2	520	23 636	65	96	2 179	14 658	24 605	39 898	D
334	Computer and electronic product manufacturing .....	1	890	457	96 641	6 080 285	36 716	68 810	1 553 010	18 084 307	12 590 945	31 305 448	1 770 067
3341	Computer and peripheral equipment manufacturing .....	—	115	40	11 886	856 487	3 085	5 600	132 626	2 392 255	2 132 582	4 588 951	286 531
33411	Computer and peripheral equipment manufacturing ....	—	115	40	11 886	856 487	3 085	5 600	132 626	2 392 255	2 132 582	4 588 951	286 531
334111	Electronic computer manufacturing .....	1	38	17	2 120	131 833	401	678	15 224	432 262	417 550	863 581	18 553
334112	Computer storage device manufacturing .....	—	21	9	8 562	660 355	2 229	3 821	101 587	1 833 617	1 596 029	3 478 866	258 699
334119	Other computer peripheral equipment manufacturing ..	6	53	13	g	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	1	133	89	17 755	1 182 916	5 903	9 472	298 021	5 933 142	4 715 876	11 129 077	212 699
33421	Telephone apparatus manufacturing .....	—	57	45	10 142	693 607	2 384	3 838	95 999	5 173 507	3 591 755	9 140 897	168 307
334210	Telephone apparatus manufacturing .....	—	57	45	10 142	693 607	2 384	3 838	95 999	5 173 507	3 591 755	9 140 897	168 307
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	2	67	40	7 242	470 356	3 454	5 506	199 662	722 922	1 088 916	1 917 858	42 962
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	2	67	40	7 242	470 356	3 454	5 506	199 662	722 922	1 088 916	1 917 858	42 962
33429	Other communications equipment manufacturing ....	4	9	4	371	18 953	65	128	2 360	36 713	35 205	70 322	1 430
334290	Other communications equipment manufacturing ..	4	9	4	371	18 953	65	128	2 360	36 713	35 205	70 322	1 430
3343	Audio and video equipment manufacturing .....	2	8	3	262	10 952	154	301	3 511	22 933	27 208	49 944	526
33431	Audio and video equipment manufacturing .....	2	8	3	262	10 952	154	301	3 511	22 933	27 208	49 944	526
334310	Audio and video equipment manufacturing .....	2	8	3	262	10 952	154	301	3 511	22 933	27 208	49 944	526

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>San Jose-Sunnyvale-Santa Clara, CA Metropolitan Statistical Area—Con.</b>												
334	Computer and electronic product manufacturing—Con.												
3344	Semiconductor and other electronic component manufacturing .....	1	415	210	37 274	2 098 173	18 648	36 054	716 441	5 930 664	3 335 651	9 271 486	1 106 410
33441	Semiconductor and other electronic component manufacturing .....	—	415	210	37 274	2 098 173	18 648	36 054	716 441	5 930 664	3 335 651	9 271 486	1 106 410
334411	Electron tube manufacturing .....	1	4	1	f	D	D	D	D	D	D	D	D
334412	Bare printed circuit board manufacturing .....	2	64	30	3 138	124 993	2 279	4 564	77 159	216 329	164 214	384 176	22 793
334413	Semiconductor and related device manufacturing .....	—	174	90	23 612	1 535 810	10 198	19 533	432 658	4 807 771	1 768 645	6 486 912	1 026 330
334417	Electronic connector manufacturing .....	4	17	7	628	23 662	390	715	13 462	26 943	11 091	38 348	3 165
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	63	48	6 110	238 175	3 448	6 522	94 934	515 505	1 161 902	1 753 845	29 791
334419	Other electronic component manufacturing .....	1	78	29	2 940	132 224	1 749	3 475	66 582	273 496	182 652	462 307	22 302
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	1	184	104	27 734	1 857 392	7 775	15 080	369 071	3 576 167	2 232 895	5 880 286	137 364
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	1	184	104	27 734	1 857 392	7 775	15 080	369 071	3 576 167	2 232 895	5 880 286	137 364
334510	Electromedical and electrotherapeutic apparatus manufacturing .....	3	21	15	4 877	283 837	2 451	4 837	96 112	615 234	342 535	980 378	35 675
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	4	12	6	1 797	138 502	373	743	22 891	183 385	96 333	281 199	5 472
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	5	24	11	936	49 051	439	823	15 917	84 789	58 198	152 855	13 497
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	—	76	45	11 168	766 075	1 993	4 134	103 476	1 140 975	652 225	1 830 950	29 810
334516	Analytical laboratory instrument manufacturing .....	—	23	12	4 500	339 636	1 550	2 987	78 176	820 043	444 285	1 269 572	18 406
334517	Irradiation apparatus manufacturing .....	—	8	5	3 257	207 544	722	1 105	42 349	517 279	515 419	1 033 587	23 967
334519	Other measuring and controlling device manufacturing .....	—	16	8	1 145	70 698	207	357	8 932	209 847	122 299	325 433	10 497
3346	Manufacturing and reproducing magnetic and optical media .....	—	35	11	1 730	74 365	1 151	2 303	33 340	229 146	146 733	385 704	26 537
33461	Manufacturing and reproducing magnetic and optical media .....	—	35	11	1 730	74 365	1 151	2 303	33 340	229 146	146 733	385 704	26 537
334613	Magnetic and optical recording media manufacturing .....	—	14	5	1 398	60 746	938	1 886	27 330	200 653	131 977	342 463	25 567
335	Electrical equipment, appliance, and component manufacturing .....	'1	'79	'24	'4 195	'188 629	2 614	5 042	86 084	'426 837	'224 287	'669 132	'29 010
3351	Electric lighting equipment manufacturing .....	9	5	2	e	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing .....	9	4	2	e	D	D	D	D	D	D	D	D
335129	Other lighting equipment manufacturing .....	9	2	2	e	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	1	21	7	560	35 465	354	718	21 152	65 445	51 780	124 994	D
33531	Electrical equipment manufacturing .....	1	21	7	560	35 465	354	718	21 152	65 445	51 780	124 994	D
335311	Power, distribution, and specialty transformer manufacturing .....	—	4	1	e	D	D	D	D	D	D	D	337
3359	Other electrical equipment and component manufacturing .....	1	'52	'15	'3 174	'136 349	1 906	3 561	54 126	'326 360	'151 672	'485 296	'27 506
33592	Communication and energy wire and cable manufacturing .....	1	8	4	499	12 856	359	366	5 879	26 061	19 629	44 473	D
335929	Other communication and energy wire manufacturing .....	—	4	3	424	9 995	317	320	4 991	18 347	15 013	32 170	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>San Jose-Sunnyvale-Santa Clara, CA Metropolitan Statistical Area—Con.</b>												
335	Electrical equipment, appliance, and component manufacturing—Con.												
3359	Other electrical equipment and component manufacturing—Con.												
33599	All other electrical equipment and component manufacturing .....	1	'36	'11	'2 635	'122 043	1 516	3 131	47 205	'296 781	'129 223	'434 485	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	1	'33	'11	h	D	D	D	D	D	D	D	'20 508
336	Transportation equipment manufacturing .....	—	47	14	12 082	970 405	2 954	5 366	148 581	1 938 308	2 269 323	4 197 132	137 294
3363	Motor vehicle parts manufacturing .....	8	24	6	e	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	—	10	4	j	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	10	4	j	D	D	D	D	D	D	D	D
336414	Guided missile and space vehicle manufacturing .....	—	1	1	i	D	D	D	D	D	D	D	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing .....	1	2	2	f	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	—	8	4	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing .....	—	8	4	g	D	D	D	D	D	D	D	D
336991	Motorcycle, bicycle, and parts manufacturing .....	—	5	3	663	26 282	529	841	20 356	58 585	55 726	115 811	D
336992	Military armored vehicle, tank, and tank component manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	2	128	18	1 549	55 708	1 065	2 042	31 050	96 791	71 952	168 704	4 313
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	101	12	841	27 242	675	1 313	18 566	48 140	35 924	84 122	2 765
33711	Wood kitchen cabinet and countertop manufacturing .....	2	57	5	520	18 697	406	846	12 708	31 320	21 769	53 055	2 010
337110	Wood kitchen cabinet and countertop manufacturing ..	2	57	5	520	18 697	406	846	12 708	31 320	21 769	53 055	2 010
33712	Household and institutional furniture manufacturing .....	5	44	7	321	8 545	269	467	5 858	16 820	14 155	31 067	755
3372	Office furniture (including fixtures) manufacturing .....	3	22	5	451	20 770	235	461	9 305	31 660	14 083	45 836	D
33721	Office furniture (including fixtures) manufacturing .....	3	22	5	451	20 770	235	461	9 305	31 660	14 083	45 836	D
3379	Other furniture related product manufacturing .....	—	5	1	257	7 696	155	268	3 179	16 991	21 945	38 746	D
33792	Blind and shade manufacturing .....	—	5	1	257	7 696	155	268	3 179	16 991	21 945	38 746	D
337920	Blind and shade manufacturing .....	—	5	1	257	7 696	155	268	3 179	16 991	21 945	38 746	D
339	Miscellaneous manufacturing .....	1	'275	'72	'12 379	'577 511	'4 897	'9 961	'149 373	'1 705 166	'961 329	'2 683 266	'112 259
3391	Medical equipment and supplies manufacturing .....	1	164	48	9 885	488 166	3 490	6 894	112 155	1 542 329	874 332	2 428 917	101 626
33911	Medical equipment and supplies manufacturing .....	1	164	48	9 885	488 166	3 490	6 894	112 155	1 542 329	874 332	2 428 917	101 626
339111	Laboratory apparatus and furniture manufacturing .....	1	12	6	491	23 997	277	547	10 681	58 865	56 846	114 760	4 228
339112	Surgical and medical instrument manufacturing ..	—	44	28	7 356	392 740	1 874	3 824	61 093	1 373 493	777 678	2 165 436	93 410
339113	Surgical appliance and supplies manufacturing .....	1	14	7	555	26 660	258	493	8 688	32 287	21 893	53 260	1 310
339116	Dental laboratories .....	8	87	6	1 426	42 942	1 039	1 967	30 753	73 080	15 910	88 876	2 557
3399	Other miscellaneous manufacturing .....	'3	'111	'24	'2 494	'89 345	'1 407	'3 067	'37 218	'162 837	'86 997	'254 349	'10 633
33995	Sign manufacturing .....	5	28	6	556	17 753	353	562	9 562	31 678	16 592	48 450	1 163
339950	Sign manufacturing .....	5	28	6	556	17 753	353	562	9 562	31 678	16 592	48 450	1 163
33999	All other miscellaneous manufacturing .....	'2	'59	'16	'1 792	'67 939	'956	'2 346	'25 679	'124 072	'64 626	'193 311	'9 330
339999	All other miscellaneous manufacturing .....	'2	'51	'14	'1 669	'63 592	'858	'2 153	'22 942	'115 170	'58 997	'178 906	'8 644

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>													
<b>Santa Cruz-Watsonville, CA Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	2	377	71	6 694	250 300	4 554	8 287	129 718	617 269	426 156	1 053 584	31 289
311	Food manufacturing .....	2	39	15	1 866	51 484	1 573	2 916	39 316	202 502	87 822	289 810	7 704
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	8	6	1 066	24 731	986	1 694	22 152	101 601	46 929	148 530	3 325
31141	Frozen food manufacturing ....	1	5	4	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	1	5	4	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	4	19	6	361	8 934	263	548	6 017	27 254	8 502	35 725	732
31181	Bread and bakery product manufacturing .....	3	16	4	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	2	15	4	476	13 834	394	738	9 362	25 901	43 871	69 994	827
3219	Other wood product manufacturing .....	2	13	3	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	1	31	4	260	8 227	172	287	4 616	16 092	8 941	25 342	1 707
3231	Printing and related support activities .....	1	31	4	260	8 227	172	287	4 616	16 092	8 941	25 342	1 707
32311	Printing .....	1	29	4	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	2	19	2	262	14 427	200	436	10 316	49 223	42 183	92 592	D
331	Primary metal manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
3313	Alumina and aluminum production and processing .....	—	2	1	e	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	—	2	1	e	D	D	D	D	D	D	D	D
331316	Aluminum extruded product manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	4	20	4	415	19 519	219	424	8 347	35 024	30 851	67 755	3 028
3339	Other general purpose machinery manufacturing .....	6	7	3	297	13 651	149	285	5 471	19 757	18 597	39 572	1 344
334	Computer and electronic product manufacturing .....	2	46	19	1 155	62 720	497	976	15 415	107 062	78 829	188 560	3 431
3344	Semiconductor and other electronic component manufacturing .....	3	17	9	582	24 645	326	632	10 336	43 375	23 657	68 436	D
33441	Semiconductor and other electronic component manufacturing .....	3	17	9	582	24 645	326	632	10 336	43 375	23 657	68 436	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	1	18	7	402	28 440	112	242	3 030	51 580	37 474	89 034	1 096
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	1	18	7	402	28 440	112	242	3 030	51 580	37 474	89 034	1 096
335	Electrical equipment, appliance, and component manufacturing .....	4	11	4	297	10 265	131	254	2 591	26 615	14 917	41 852	657
336	Transportation equipment manufacturing .....	1	11	3	377	13 855	273	256	7 433	27 481	29 099	57 584	683
3369	Other transportation equipment manufacturing .....	—	7	3	346	12 839	247	207	6 732	25 161	26 483	52 648	D
33699	Other transportation equipment manufacturing .....	—	7	3	346	12 839	247	207	6 732	25 161	26 483	52 648	D
336991	Motorcycle, bicycle, and parts manufacturing .....	—	6	3	e	D	D	D	D	D	D	D	565
339	Miscellaneous manufacturing .....	5	46	3	294	10 324	186	334	4 600	22 205	11 266	33 076	1 240

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>													
<b>Santa Rosa-Petaluma, CA Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	1	874	229	26 678	1 183 304	15 357	30 355	559 399	3 437 229	2 394 431	5 973 013	190 348
311	Food manufacturing .....	2	84	27	3 131	91 023	2 082	4 199	51 654	278 433	313 139	587 976	19 182
3114	Fruit and vegetable preserving and specialty food manufacturing .....	3	8	4	978	25 184	652	1 248	14 237	77 882	63 556	141 482	6 981
31141	Frozen food manufacturing ....	3	3	2	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing ....	—	7	4	485	19 264	266	562	8 938	47 796	113 540	161 378	3 837
31151	Dairy product (except frozen) manufacturing .....	—	7	4	485	19 264	266	562	8 938	47 796	113 540	161 378	3 837
311511	Fluid milk manufacturing ....	—	1	1	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	4	10	5	671	15 964	553	1 224	12 024	60 367	56 265	113 293	4 005
31161	Animal slaughtering and processing .....	4	10	5	671	15 964	553	1 224	12 024	60 367	56 265	113 293	4 005
311615	Poultry processing .....	4	6	4	618	14 583	505	1 116	10 858	59 438	49 883	105 982	3 868
3118	Bakeries and tortilla manufacturing .....	2	30	8	612	17 565	353	626	8 776	39 172	14 998	54 079	1 865
31181	Bread and bakery product manufacturing .....	2	28	6	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	2	16	6	411	12 904	229	397	6 165	25 856	9 364	35 188	959
312	Beverage and tobacco product manufacturing .....	1	150	45	3 786	141 985	1 694	3 289	58 471	681 568	531 204	1 250 463	77 048
3121	Beverage manufacturing .....	1	150	45	3 786	141 985	1 694	3 289	58 471	681 568	531 204	1 250 463	77 048
31213	Wineries .....	1	148	44	h	D	D	D	D	D	D	D	D
312130	Wineries .....	1	148	44	h	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	2	48	13	969	32 134	714	1 455	20 425	69 700	90 548	159 782	3 549
3212	Veneer, plywood, and engineered wood product manufacturing ....	—	6	2	e	D	D	D	D	D	D	D	532
32121	Veneer, plywood, and engineered wood product manufacturing .....	—	6	2	e	D	D	D	D	D	D	D	532
3219	Other wood product manufacturing .....	1	36	9	492	16 870	335	711	10 011	43 624	57 758	99 761	2 751
323	Printing and related support activities .....	3	79	11	933	33 652	619	1 142	18 644	73 361	32 565	109 008	5 799
3231	Printing and related support activities .....	3	79	11	933	33 652	619	1 142	18 644	73 361	32 565	109 008	5 799
32311	Printing .....	3	69	11	900	32 541	591	1 098	17 945	71 303	32 201	106 586	5 741
323110	Commercial lithographic printing .....	3	30	5	395	15 731	274	499	9 585	30 157	16 727	49 511	3 530
325	Chemical manufacturing .....	1	24	6	425	20 321	264	524	10 313	82 635	26 270	120 520	9 497
326	Plastics and rubber products manufacturing .....	1	30	12	916	36 091	611	1 186	17 434	88 887	43 457	131 844	8 539
3261	Plastics product manufacturing ..	2	29	12	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	1	24	11	843	33 650	556	1 069	15 707	82 927	35 314	118 164	7 262
326199	All other plastics product manufacturing .....	1	24	11	843	33 650	556	1 069	15 707	82 927	35 314	118 164	7 262
327	Nonmetallic mineral product manufacturing .....	—	40	10	694	28 608	506	1 037	18 321	60 529	50 639	111 694	2 207
3273	Cement and concrete product manufacturing .....	—	18	7	396	19 852	271	572	12 381	44 431	41 876	86 127	1 251
332	Fabricated metal product manufacturing .....	2	82	13	905	34 814	632	1 221	21 686	70 711	38 941	109 995	3 735
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	29	5	256	10 143	211	378	7 517	19 594	8 719	28 476	1 236

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>												
	<b>Santa Rosa-Petaluma, CA Metropolitan Statistical Area—Con.</b>												
333	Machinery manufacturing .....	—	48	25	2 592	125 005	1 537	2 913	57 785	286 977	173 287	469 508	17 392
3332	Industrial machinery manufacturing .....	3	14	8	575	29 299	350	505	13 649	48 663	35 725	85 098	11 537
33329	Other industrial machinery manufacturing .....	3	11	7	e	D	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing .....	—	6	5	1 240	64 557	766	1 561	30 262	139 149	82 957	230 920	D
33331	Commercial and service industry machinery manufacturing .....	—	6	5	1 240	64 557	766	1 561	30 262	139 149	82 957	230 920	D
333314	Optical instrument and lens manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	6	3	274	11 686	177	359	5 362	24 112	18 590	41 795	1 555
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	6	3	274	11 686	177	359	5 362	24 112	18 590	41 795	1 555
3339	Other general purpose machinery manufacturing .....	—	15	7	324	12 403	123	252	4 198	62 952	29 932	93 578	943
334	Computer and electronic product manufacturing .....	—	47	22	7 289	446 775	3 582	7 205	192 649	1 362 373	892 946	2 342 953	26 928
3342	Communications equipment manufacturing .....	—	12	8	1 764	125 715	665	1 261	32 237	795 585	563 612	1 393 647	D
33421	Telephone apparatus manufacturing .....	—	6	5	1 457	110 933	526	1 006	28 093	771 096	538 659	1 344 238	20 497
334210	Telephone apparatus manufacturing .....	—	6	5	1 457	110 933	526	1 006	28 093	771 096	538 659	1 344 238	20 497
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	20	7	4 997	297 374	2 581	5 339	150 944	504 719	295 600	852 340	2 831
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	20	7	4 997	297 374	2 581	5 339	150 944	504 719	295 600	852 340	2 831
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	—	2	2	h	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	1	19	8	560	22 436	323	687	8 581	47 060	31 021	78 013	1 538
3353	Electrical equipment manufacturing .....	—	6	3	317	13 425	180	377	4 786	25 746	23 509	49 425	770
33531	Electrical equipment manufacturing .....	—	6	3	317	13 425	180	377	4 786	25 746	23 509	49 425	770
336	Transportation equipment manufacturing .....	3	21	3	438	13 883	396	778	11 928	49 444	38 896	84 763	2 816
3363	Motor vehicle parts manufacturing .....	—	9	2	264	8 329	248	492	7 587	39 153	19 558	55 134	D
337	Furniture and related product manufacturing .....	1	69	12	881	23 850	711	1 311	17 540	66 214	42 065	108 130	1 870
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	2	57	8	e	D	D	D	D	D	D	D	903
33711	Wood kitchen cabinet and countertop manufacturing .....	2	36	5	306	8 880	226	444	5 788	28 821	17 050	45 974	653
337110	Wood kitchen cabinet and countertop manufacturing .....	2	36	5	306	8 880	226	444	5 788	28 821	17 050	45 974	653
3372	Office furniture (including fixtures) manufacturing .....	—	11	3	313	9 125	287	515	7 989	23 210	15 211	38 069	D
33721	Office furniture (including fixtures) manufacturing .....	—	11	3	313	9 125	287	515	7 989	23 210	15 211	38 069	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>													
<b>Santa Rosa-Petaluma, CA Metropolitan Statistical Area—Con.</b>													
339	Miscellaneous manufacturing .....	1	91	15	2 707	117 538	1 383	2 829	46 677	183 972	60 019	243 417	9 303
3391	Medical equipment and supplies manufacturing .....	—	33	6	2 073	98 802	964	2 132	36 650	140 102	28 644	168 595	8 364
33911	Medical equipment and supplies manufacturing .....	—	33	6	2 073	98 802	964	2 132	36 650	140 102	28 644	168 595	8 364
339113	Surgical appliance and supplies manufacturing ....	—	5	2	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing .....	3	58	9	634	18 736	419	697	10 027	43 870	31 375	74 822	939
<b>Vallejo-Fairfield, CA Metropolitan Statistical Area</b>													
31-33	Manufacturing .....	—	303	94	10 169	428 643	7 189	13 401	252 450	1 779 527	2 589 491	4 347 543	164 579
311	Food manufacturing .....	1	28	13	1 697	61 203	1 076	2 361	31 979	237 027	352 839	583 750	13 544
3113	Sugar and confectionery product manufacturing .....	—	4	3	652	25 439	346	777	11 875	116 241	64 478	178 765	3 741
31134	Nonchocolate confectionery manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	—	3	2	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	4	1	e	D	D	D	D	D	D	D	177
31161	Animal slaughtering and processing .....	—	4	1	e	D	D	D	D	D	D	D	177
312	Beverage and tobacco product manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
31212	Breweries .....	—	1	1	e	D	D	D	D	D	D	D	D
312120	Breweries .....	—	1	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	—	10	5	501	15 419	375	706	8 828	32 511	53 572	86 515	945
3219	Other wood product manufacturing .....	—	9	4	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	1	21	8	1 791	99 932	1 365	2 240	66 184	269 987	179 288	459 407	34 114
3254	Pharmaceutical and medicine manufacturing .....	—	9	5	1 556	88 012	1 234	2 073	60 286	166 803	137 219	316 281	29 749
32541	Pharmaceutical and medicine manufacturing .....	—	9	5	1 556	88 012	1 234	2 073	60 286	166 803	137 219	316 281	29 749
325412	Pharmaceutical preparation manufacturing .....	—	5	5	1 522	86 079	1 217	2 039	59 635	160 199	132 846	305 304	29 138
326	Plastics and rubber products manufacturing .....	—	11	8	728	28 402	496	1 044	15 480	69 997	93 172	166 900	8 800
3261	Plastics product manufacturing ..	—	10	8	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	5	4	443	16 552	254	557	6 257	32 178	24 620	60 616	D
326199	All other plastics product manufacturing .....	—	5	4	443	16 552	254	557	6 257	32 178	24 620	60 616	D
327	Nonmetallic mineral product manufacturing .....	—	28	9	759	31 628	598	1 283	23 250	116 633	103 155	218 283	4 049
3273	Cement and concrete product manufacturing .....	—	15	8	589	24 881	461	999	18 096	100 195	88 045	186 726	3 225

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA—Con.</b>													
<b>Vallejo-Fairfield, CA Metropolitan Statistical Area—Con.</b>													
332	Fabricated metal product manufacturing .....	-	48	18	1 958	75 399	1 559	2 402	49 852	218 629	188 932	405 204	13 964
3323	Architectural and structural metals manufacturing .....	-	15	6	990	29 346	829	946	18 501	64 210	34 229	98 535	4 316
33232	Ornamental and architectural metal products manufacturing .....	-	9	3	753	21 383	642	586	12 965	49 540	21 982	72 323	D
332322	Sheet metal work manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
332323	Ornamental and architectural metal work manufacturing ..	-	5	1	456	9 010	415	235	5 126	15 741	5 294	21 098	43
3324	Boiler, tank, and shipping container manufacturing .....	-	3	3	399	23 447	314	590	17 404	89 539	136 796	227 477	D
33243	Metal can, box, and other metal container (light gauge) manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
332431	Metal can manufacturing ....	-	2	2	e	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	-	16	3	273	11 936	180	382	7 007	35 476	7 258	41 984	1 307
33271	Machine shops .....	-	16	3	273	11 936	180	382	7 007	35 476	7 258	41 984	1 307
332710	Machine shops .....	-	16	3	273	11 936	180	382	7 007	35 476	7 258	41 984	1 307
333	Machinery manufacturing .....	1	29	10	596	25 280	343	705	10 278	72 348	43 044	112 589	2 825
337	Furniture and related product manufacturing .....	2	32	5	449	15 145	332	642	9 518	38 263	34 269	72 445	947
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	5	24	3	255	7 263	194	372	4 870	18 395	18 880	37 264	509
339	Miscellaneous manufacturing .....	1	31	3	266	9 493	177	389	4 699	19 318	12 708	31 517	461
<b>BAKERSFIELD, CA METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	398	98	10 968	360 294	7 653	15 310	213 361	1 656 177	2 068 250	3 752 122	165 680
311	Food manufacturing .....	1	44	15	3 844	102 317	2 534	5 394	55 167	719 866	482 563	1 214 111	62 020
3119	Other food manufacturing .....	2	10	6	3 241	83 720	2 133	4 629	45 272	492 460	358 637	853 689	48 913
31191	Snack food manufacturing .....	2	4	3	f	D	D	D	D	D	D	D	D
311911	Roasted nuts and peanut butter manufacturing .....	9	3	2	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing ...	-	5	2	g	D	D	D	D	D	D	D	D
311991	Perishable prepared food manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	2	15	4	537	6 307	368	547	4 258	13 816	9 717	21 489	845
3219	Other wood product manufacturing .....	3	12	3	473	4 762	315	436	3 057	6 706	7 158	11 880	D
32192	Wood container and pallet manufacturing .....	1	7	2	430	3 339	282	368	2 050	4 686	4 244	6 957	D
321920	Wood container and pallet manufacturing .....	1	7	2	430	3 339	282	368	2 050	4 686	4 244	6 957	D
324	Petroleum and coal products manufacturing .....	-	12	6	665	41 356	415	809	23 119	138 785	986 187	1 138 695	D
3241	Petroleum and coal products manufacturing .....	-	12	6	665	41 356	415	809	23 119	138 785	986 187	1 138 695	D
32411	Petroleum refineries .....	-	5	4	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	-	5	4	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	1	24	5	513	20 737	357	716	12 627	84 964	70 725	163 634	38 557
326	Plastics and rubber products manufacturing .....	-	15	8	704	23 007	537	1 113	15 485	98 739	92 656	196 803	4 668
3261	Plastics product manufacturing ..	-	12	8	693	22 655	529	1 097	15 269	97 877	91 618	194 903	4 630
32614	Polystyrene foam product manufacturing .....	-	4	4	487	15 005	363	771	9 860	75 006	74 431	154 610	3 911
326140	Polystyrene foam product manufacturing .....	-	4	4	487	15 005	363	771	9 860	75 006	74 431	154 610	3 911

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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BAKERSFIELD, CA METROPOLITAN STATISTICAL AREA—Con.</b>													
327	Nonmetallic mineral product manufacturing .....	—	32	14	1 097	49 890	774	1 717	33 174	305 041	234 081	540 946	26 743
3273	Cement and concrete product manufacturing .....	—	24	11	867	41 265	606	1 362	26 945	235 362	204 923	441 411	23 430
32731	Cement manufacturing .....	—	3	3	365	20 975	282	670	15 703	111 741	80 596	193 484	17 865
327310	Cement manufacturing .....	—	3	3	365	20 975	282	670	15 703	111 741	80 596	193 484	17 865
32739	Other concrete product manufacturing .....	—	6	3	e	D	D	D	D	D	D	D	3 247
327390	Other concrete product manufacturing .....	—	6	3	e	D	D	D	D	D	D	D	3 247
332	Fabricated metal product manufacturing .....	3	87	13	1 104	37 043	847	1 728	25 006	85 872	49 704	127 022	2 115
3323	Architectural and structural metals manufacturing .....	4	14	5	458	14 938	348	736	9 645	38 645	20 895	51 356	794
33231	Plate work and fabricated structural product manufacturing .....	'4	'6	'3	'332	'11 406	'248	'550	'7 271	'30 363	'16 881	'39 169	'573
332312	Fabricated structural metal manufacturing .....	'5	'5	'2	e	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	47	2	334	11 366	254	516	7 827	22 127	10 478	32 750	805
33271	Machine shops .....	3	43	2	310	10 550	238	480	7 252	20 452	9 607	30 204	729
332710	Machine shops .....	3	43	2	310	10 550	238	480	7 252	20 452	9 607	30 204	729
333	Machinery manufacturing .....	5	32	9	424	15 132	303	572	8 478	35 623	25 948	61 675	1 901
337	Furniture and related product manufacturing .....	3	32	7	739	16 412	552	1 001	10 133	33 291	21 516	52 381	559
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	31	7	f	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	4	12	6	613	13 881	452	845	8 307	29 052	16 376	42 966	364
337122	Nonupholstered wood household furniture manufacturing .....	—	4	3	417	9 369	288	549	4 860	20 583	7 293	24 912	D
339	Miscellaneous manufacturing .....	6	31	4	575	19 224	448	782	10 988	52 497	21 891	73 921	3 146
3391	Medical equipment and supplies manufacturing .....	7	13	2	444	14 392	362	641	8 988	44 142	15 848	59 772	2 665
33911	Medical equipment and supplies manufacturing .....	7	13	2	444	14 392	362	641	8 988	44 142	15 848	59 772	2 665
339113	Surgical appliance and supplies manufacturing .....	7	4	2	390	12 664	321	562	7 658	40 790	15 101	55 686	2 560
<b>CHICO, CA METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	3	235	53	4 427	140 548	3 153	6 286	86 193	425 336	382 362	800 607	90 281
311	Food manufacturing .....	5	27	12	1 123	40 785	761	1 597	26 446	131 835	165 869	295 340	8 267
3114	Fruit and vegetable preserving and specialty food manufacturing .....	7	7	4	639	26 584	529	1 114	19 834	74 945	117 364	192 428	4 591
31142	Fruit and vegetable canning, pickling, and drying .....	7	6	4	f	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning ..	6	4	3	f	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	—	3	1	e	D	D	D	D	D	D	D	D
31212	Breweries .....	—	2	1	e	D	D	D	D	D	D	D	D
312120	Breweries .....	—	2	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	1	15	8	467	12 462	396	803	9 443	27 705	43 934	71 329	2 276
3219	Other wood product manufacturing .....	2	11	6	e	D	D	D	D	D	D	D	D
32191	Millwork .....	2	8	6	319	8 301	262	519	6 148	12 581	40 164	51 495	D
326	Plastics and rubber products manufacturing .....	1	9	3	355	11 264	258	556	6 897	25 809	33 659	59 284	2 047
3261	Plastics product manufacturing ..	1	9	3	355	11 264	258	556	6 897	25 809	33 659	59 284	2 047
333	Machinery manufacturing .....	3	26	8	687	24 219	432	900	12 777	57 466	42 708	96 468	2 687
339	Miscellaneous manufacturing .....	1	31	5	422	11 870	322	483	6 504	32 698	16 514	49 851	D
<b>CLEARLAKE, CA MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	4	43	8	449	14 434	293	561	7 671	27 491	29 364	61 886	2 424

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>EL CENTRO, CA METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	60	20	1 811	61 254	1 365	2 858	39 609	219 088	211 120	395 955	17 643
311	Food manufacturing .....	1	10	2	321	9 851	262	553	7 457	49 810	60 459	79 757	2 299
327	Nonmetallic mineral product manufacturing .....	-	5	3	e	D	D	D	D	D	D	D	D
3274	Lime and gypsum product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
32742	Gypsum product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
327420	Gypsum product manufacturing .....	-	1	1	e	D	D	D	D	D	D	D	D
<b>EUREKA-ARCATA-FORTUNA, CA MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	166	35	3 636	121 018	2 955	5 808	89 486	266 054	443 360	761 336	22 983
311	Food manufacturing .....	5	27	6	491	11 623	407	754	9 223	37 621	37 184	77 763	1 652
321	Wood product manufacturing .....	-	32	15	2 163	77 153	1 823	3 684	59 415	128 777	334 788	508 561	17 000
3211	Sawmills and wood preservation .....	-	14	7	1 619	61 370	1 353	2 795	47 280	100 641	266 576	411 578	14 637
32111	Sawmills and wood preservation .....	-	14	7	1 619	61 370	1 353	2 795	47 280	100 641	266 576	411 578	14 637
321113	Sawmills .....	-	13	7	g	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	-	16	6	e	D	D	D	D	D	D	D	D
32191	Millwork .....	-	15	6	e	D	D	D	D	D	D	D	D
321912	Cut stock, resawing lumber, and planing .....	-	12	6	422	12 596	380	712	10 200	22 675	60 420	83 678	D
<b>HANFORD-CORCORAN, CA METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	79	31	3 857	122 962	3 312	7 001	96 805	689 495	595 002	1 269 196	27 258
311	Food manufacturing .....	1	27	13	2 488	78 985	2 134	4 703	63 110	600 866	473 853	1 057 686	23 091
3114	Fruit and vegetable preserving and specialty food manufacturing .....	2	4	3	1 133	37 569	1 046	2 314	33 069	196 622	133 635	316 035	8 859
31142	Fruit and vegetable canning, pickling, and drying .....	2	4	3	1 133	37 569	1 046	2 314	33 069	196 622	133 635	316 035	8 859
311421	Fruit and vegetable canning .....	2	3	2	g	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
311513	Cheese manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	-	4	2	e	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	-	4	2	e	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	-	2	1	e	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	-	2	2	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	8	3	2	386	12 834	329	662	9 525	23 124	28 930	54 387	D
3262	Rubber product manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
32621	Tire manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
326211	Tire manufacturing (except retreading) .....	9	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MERCED, CA METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	127	50	8 856	243 021	6 926	13 720	177 202	941 111	1 825 222	2 734 324	49 293
311	Food manufacturing .....	1	36	20	5 738	135 461	4 417	8 417	99 198	339 723	1 247 130	1 588 373	31 007
3114	Fruit and vegetable preserving and specialty food manufacturing .....	2	9	9	h	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	—	1	1	g	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	—	1	1	g	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	3	8	8	f	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning .	4	7	7	790	23 661	693	1 455	18 729	93 479	143 102	236 603	18 885
3115	Dairy product manufacturing .....	1	5	5	828	35 770	616	1 279	23 866	75 446	613 588	691 019	7 274
31151	Dairy product (except frozen) manufacturing .....	1	5	5	828	35 770	616	1 279	23 866	75 446	613 588	691 019	7 274
311513	Cheese manufacturing .....	1	3	3	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	7	3	2 114	41 931	1 931	3 887	33 487	3 919	294 641	298 383	2 380
31161	Animal slaughtering and processing .....	—	7	3	2 114	41 931	1 931	3 887	33 487	3 919	294 641	298 383	2 380
311615	Poultry processing .....	—	1	1	g	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	—	7	2	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	—	7	2	f	D	D	D	D	D	D	D	D
32311	Printing .....	—	7	2	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	—	5	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	—	3	2	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	—	14	4	324	9 633	257	470	7 153	47 769	42 333	89 087	529
336	Transportation equipment manufacturing .....	1	12	5	422	15 399	322	653	10 778	62 298	47 150	109 246	1 355
3366	Ship and boat building .....	—	3	3	267	9 724	217	454	7 488	51 113	30 060	81 173	D
33661	Ship and boat building .....	—	3	3	267	9 724	217	454	7 488	51 113	30 060	81 173	D
336612	Boat building .....	—	3	3	267	9 724	217	454	7 488	51 113	30 060	81 173	D
<b>MODESTO, CA METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	488	170	24 469	913 022	18 729	36 558	540 781	3 284 159	3 960 297	7 232 823	153 161
311	Food manufacturing .....	1	92	57	11 332	344 192	9 431	18 588	253 769	1 537 920	2 157 618	3 654 421	68 700
3111	Animal food manufacturing .....	—	13	9	539	20 485	296	627	9 603	23 852	307 661	331 516	D
31111	Animal food manufacturing ....	—	13	9	539	20 485	296	627	9 603	23 852	307 661	331 516	D
311119	Other animal food manufacturing .....	—	12	9	f	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
31132	Chocolate and confectionery manufacturing from cacao beans .....	—	1	1	f	D	D	D	D	D	D	D	D
311320	Chocolate and confectionery manufacturing from cacao beans .....	—	1	1	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	17	16	i	D	D	D	D	D	D	D	20 927
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
31142	Fruit and vegetable canning, pickling, and drying .....	—	16	15	i	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning .	—	8	8	4 411	138 947	3 838	7 279	107 843	462 574	507 659	972 340	18 353
311423	Dried and dehydrated food manufacturing .....	1	6	6	664	19 678	558	860	12 931	60 687	58 682	105 365	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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MODESTO, CA METROPOLITAN STATISTICAL AREA—Con.</b>													
311	Food manufacturing—Con.												
3115	Dairy product manufacturing . . . . .	4	16	11	1 202	44 626	1 026	2 177	35 078	192 364	762 355	948 606	14 364
31151	Dairy product (except frozen) manufacturing . . . . .	3	13	10	f D	D	D	D	D	D	D	D	D
311513	Cheese manufacturing . . . . .	2	6	4	383	12 222	363	813	11 130	37 347	196 789	230 268	D
311514	Dry, condensed, and evaporated dairy product manufacturing . . . . .	3	5	4	486	20 223	373	766	14 148	95 101	483 372	575 577	7 254
3116	Animal slaughtering and processing . . . . .	—	15	9	2 215	52 434	1 839	4 110	36 504	241 187	111 559	353 458	6 781
31161	Animal slaughtering and processing . . . . .	—	15	9	2 215	52 434	1 839	4 110	36 504	241 187	111 559	353 458	6 781
311615	Poultry processing . . . . .	—	5	4	1 886	42 513	1 623	3 627	30 724	216 078	44 618	261 371	5 629
3119	Other food manufacturing . . . . .	1	17	8	727	17 598	567	992	11 910	312 341	179 028	479 239	12 701
31191	Snack food manufacturing . . . . .	1	8	4	496	11 611	366	615	7 437	265 316	144 074	397 317	11 515
311911	Roasted nuts and peanut butter manufacturing . . . . .	6	6	3	e D	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing . . . . .	—	7	4	h	D	D	D	D	D	D	D	21 465
3121	Beverage manufacturing . . . . .	—	7	4	h	D	D	D	D	D	D	D	21 465
31213	Wineries . . . . .	—	3	2	h	D	D	D	D	D	D	D	D
312130	Wineries . . . . .	—	3	2	h	D	D	D	D	D	D	D	D
321	Wood product manufacturing . . . . .	2	27	14	983	28 880	806	1 595	18 385	68 480	96 082	169 170	5 579
3212	Veneer, plywood, and engineered wood product manufacturing . . . . .	2	6	6	e	D	D	D	D	D	D	D	D
32121	Veneer, plywood, and engineered wood product manufacturing . . . . .	2	6	6	e	D	D	D	D	D	D	D	D
321214	Truss manufacturing . . . . .	5	5	5	e	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing . . . . .	2	20	8	630	18 262	524	1 014	11 752	47 055	62 828	114 278	5 105
32192	Wood container and pallet manufacturing . . . . .	2	8	4	309	6 772	281	577	5 258	14 290	16 537	31 551	1 347
321920	Wood container and pallet manufacturing . . . . .	2	8	4	309	6 772	281	577	5 258	14 290	16 537	31 551	1 347
322	Paper manufacturing . . . . .	2	7	6	908	44 188	696	1 543	29 364	107 690	183 395	291 249	4 899
3222	Converted paper product manufacturing . . . . .	2	7	6	908	44 188	696	1 543	29 364	107 690	183 395	291 249	4 899
32221	Paperboard container manufacturing . . . . .	2	6	6	f	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing . . . . .	2	5	5	f	D	D	D	D	D	D	D	D
323	Printing and related support activities . . . . .	1	30	8	393	14 295	282	510	9 306	33 442	14 569	47 716	2 757
3231	Printing and related support activities . . . . .	1	30	8	393	14 295	282	510	9 306	33 442	14 569	47 716	2 757
32311	Printing . . . . .	—	28	7	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing . . . . .	1	24	6	402	15 466	257	554	7 993	39 439	41 186	78 554	2 629
3261	Plastics product manufacturing . . . . .	1	18	5	315	12 241	205	436	6 649	31 791	32 857	62 572	2 489
327	Nonmetallic mineral product manufacturing . . . . .	—	17	6	1 120	43 935	929	1 826	34 676	94 972	110 825	197 238	D
3272	Glass and glass product manufacturing . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
327213	Glass container manufacturing . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing . . . . .	1	'98	'27	'2 303	'94 038	'1 715	'3 592	'63 829	'224 569	'280 191	'510 762	'16 890
3323	Architectural and structural metals manufacturing . . . . .	1	28	11	935	35 112	626	1 324	19 352	76 214	67 835	144 157	4 865
33231	Plate work and fabricated structural product manufacturing . . . . .	1	11	4	444	17 052	285	628	8 693	36 907	42 652	79 505	1 022
332312	Fabricated structural metal manufacturing . . . . .	—	7	2	292	10 698	183	404	5 811	24 609	29 022	53 448	D
33232	Ornamental and architectural metal products manufacturing . . . . .	2	17	7	491	18 060	341	696	10 659	39 307	25 183	64 652	3 843

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MODESTO, CA METROPOLITAN STATISTICAL AREA—Con.</b>													
332	Fabricated metal product manufacturing—Con.												
3324	Boiler, tank, and shipping container manufacturing .....	—	8	5	699	35 834	587	1 288	29 876	93 095	191 222	289 658	D
33243	Metal can, box, and other metal container (light gauge) manufacturing .....	—	7	5	f	D	D	D	D	D	D	D	D
332431	Metal can manufacturing ....	—	6	5	f	D	D	D	D	D	D	D	10 353
333	Machinery manufacturing .....	3	47	10	843	32 088	548	1 111	16 767	76 672	46 496	123 356	2 202
334	Computer and electronic product manufacturing .....	3	13	4	263	7 721	168	316	3 404	15 116	9 194	24 548	754
336	Transportation equipment manufacturing .....	—	15	8	1 127	40 422	868	1 571	25 813	85 105	89 328	178 189	3 556
3363	Motor vehicle parts manufacturing .....	—	6	4	888	32 651	675	1 182	20 138	75 094	64 971	142 985	3 164
33639	Other motor vehicle parts manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	6	37	7	646	16 424	519	1 050	11 414	33 184	22 036	55 312	1 389
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	6	32	6	613	15 156	496	1 011	10 794	30 260	20 884	51 280	1 285
33711	Wood kitchen cabinet and countertop manufacturing ....	9	21	3	396	10 285	313	641	7 139	19 638	13 300	32 948	1 002
337110	Wood kitchen cabinet and countertop manufacturing ..	9	21	3	396	10 285	313	641	7 139	19 638	13 300	32 948	1 002
339	Miscellaneous manufacturing .....	3	40	5	388	11 337	276	529	6 152	23 651	11 097	34 682	900
<b>PHOENIX LAKE-CEDAR RIDGE, CA MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	81	12	1 161	39 340	926	1 662	26 892	105 025	106 604	210 631	5 397
321	Wood product manufacturing .....	—	8	3	e	D	D	D	D	D	D	D	D
3211	Sawmills and wood preservation .	—	2	2	e	D	D	D	D	D	D	D	D
32111	Sawmills and wood preservation .....	—	2	2	e	D	D	D	D	D	D	D	D
321113	Sawmills .....	—	2	2	e	D	D	D	D	D	D	D	D
<b>RED BLUFF, CA MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	—	56	14	2 462	79 259	2 113	4 373	60 761	180 467	306 711	483 533	7 118
311	Food manufacturing .....	—	6	2	e	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	—	3	2	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
321	Wood product manufacturing .....	—	10	7	1 514	52 259	1 296	2 815	40 084	101 074	198 590	297 793	D
3219	Other wood product manufacturing .....	—	9	6	g	D	D	D	D	D	D	D	D
32191	Millwork .....	—	8	6	g	D	D	D	D	D	D	D	D
321911	Wood window and door manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring) .....	—	6	4	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
32229	Other converted paper product manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
322299	All other converted paper product 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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>REDDING, CA METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	3	178	38	3 342	115 835	2 512	5 227	76 951	262 551	338 184	597 203	169 359
321	Wood product manufacturing .....	1	16	8	830	31 288	684	1 440	24 052	47 893	150 151	198 638	5 167
3211	Sawmills and wood preservation ..	1	8	6	736	28 246	607	1 280	22 019	42 071	145 289	187 911	D
32111	Sawmills and wood preservation .....	1	8	6	736	28 246	607	1 280	22 019	42 071	145 289	187 911	D
321113	Sawmills .....	1	8	6	736	28 246	607	1 280	22 019	42 071	145 289	187 911	D
322	Paper manufacturing .....	9	1	1	e	D	D	D	D	D	D	D	D
3221	Pulp, paper, and paperboard mills .....	9	1	1	e	D	D	D	D	D	D	D	D
32212	Paper mills .....	9	1	1	e	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	9	1	1	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	9	5	265	6 809	211	456	4 378	14 591	17 959	32 494	D
327	Nonmetallic mineral product manufacturing .....	—	12	6	489	19 877	378	824	14 287	46 103	46 038	87 778	D
3273	Cement and concrete product manufacturing .....	—	8	5	e	D	D	D	D	D	D	D	4 027
333	Machinery manufacturing .....	4	17	3	260	7 974	191	336	4 760	13 049	7 440	19 874	483
<b>SALINAS, CA METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	2	307	67	8 431	268 832	6 306	10 428	166 705	1 037 074	895 867	1 896 237	51 514
311	Food manufacturing .....	2	72	23	4 529	131 788	3 520	5 903	87 036	640 159	536 252	1 169 460	26 631
3114	Fruit and vegetable preserving and specialty food manufacturing .....	4	9	5	1 768	54 629	1 493	2 481	38 918	295 754	212 112	505 956	10 318
31141	Frozen food manufacturing ....	—	3	1	e	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	—	2	1	e	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	4	6	4	g	D	D	D	D	D	D	D	D
311423	Dried and dehydrated food manufacturing .....	7	3	3	g	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	3	36	7	471	9 538	249	335	4 289	19 649	8 569	28 108	337
31181	Bread and bakery product manufacturing .....	4	31	6	381	7 582	202	273	3 730	13 290	6 000	19 301	273
311811	Retail bakeries .....	4	26	5	289	4 440	162	200	2 459	8 463	4 665	13 139	228
3119	Other food manufacturing .....	—	11	8	2 000	59 385	1 533	2 620	37 706	303 674	281 793	580 491	D
31194	Seasoning and dressing manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
311942	Spice and extract manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
31199	All other food manufacturing ...	—	8	5	g	D	D	D	D	D	D	D	D
311991	Perishable prepared food manufacturing .....	—	7	5	g	D	D	D	D	D	D	D	11 670
312	Beverage and tobacco product manufacturing .....	2	23	9	717	24 914	487	677	13 231	117 821	96 394	184 630	15 260
3121	Beverage manufacturing .....	2	23	9	717	24 914	487	677	13 231	117 821	96 394	184 630	15 260
31213	Wineries .....	2	21	9	f	D	D	D	D	D	D	D	D
312130	Wineries .....	2	21	9	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	1	13	5	704	18 813	594	589	11 809	55 588	32 578	88 047	2 337
3219	Other wood product manufacturing .....	1	12	4	f	D	D	D	D	D	D	D	D
32191	Millwork .....	2	4	2	296	8 493	234	221	4 577	18 700	14 065	33 036	1 080
321911	Wood window and door manufacturing .....	2	4	2	296	8 493	234	221	4 577	18 700	14 065	33 036	1 080
32192	Wood container and pallet manufacturing .....	—	5	1	315	7 914	285	216	5 651	30 527	14 461	44 977	D
321920	Wood container and pallet manufacturing .....	—	5	1	315	7 914	285	216	5 651	30 527	14 461	44 977	D
322	Paper manufacturing .....	—	3	3	400	17 930	317	641	13 279	45 656	97 242	143 037	D
3222	Converted paper product manufacturing .....	—	3	3	400	17 930	317	641	13 279	45 656	97 242	143 037	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
332	Fabricated metal product manufacturing .....	5	38	4	302	9 641	239	404	6 747	21 998	11 202	32 962	1 787
333	Machinery manufacturing .....	2	21	5	297	10 498	158	308	4 535	22 535	23 229	46 123	449

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
334	<b>SALINAS, CA METROPOLITAN STATISTICAL AREA—Con.</b> Computer and electronic product manufacturing .....	1	19	6	335	14 181	162	304	4 658	25 250	13 377	38 732	684
	<b>SAN DIEGO-CARLSBAD-SAN MARCOS, CA METROPOLITAN STATISTICAL AREA</b>												
31-33	Manufacturing .....	1	3 473	928	117 125	4 915 450	68 531	132 213	2 118 100	14 187 111	11 615 926	25 798 424	1 116 270
311	Food manufacturing .....	2	216	52	5 871	168 691	4 182	7 844	108 091	657 050	368 377	1 009 670	30 977
3112	Grain and oilseed milling .....	—	2	2	e	D	D	D	D	D	D	D	D
31122	Starch and vegetable fats and oils manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
311221	Wet corn milling .....	—	1	1	e	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	9	6	971	26 335	721	1 421	18 715	147 090	60 084	209 489	9 073
31141	Frozen food manufacturing ....	1	4	3	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	—	5	3	e	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing ....	2	5	1	353	9 871	179	138	2 860	16 700	28 636	45 264	955
31151	Dairy product (except frozen) manufacturing .....	1	2	1	e	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing ....	—	1	1	e	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	2	138	30	3 323	87 407	2 397	4 575	56 639	252 106	124 861	376 201	8 706
31181	Bread and bakery product manufacturing .....	1	120	23	2 778	73 392	1 974	3 776	46 175	199 576	102 189	301 008	6 378
311811	Retail bakeries .....	5	79	6	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	1	38	15	1 940	58 017	1 460	2 861	37 576	164 763	80 482	244 829	5 312
311813	Frozen cakes, pies, and other pastries manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
31183	Tortilla manufacturing .....	—	8	6	393	7 828	292	532	5 648	14 616	7 537	22 144	1 230
311830	Tortilla manufacturing .....	—	8	6	393	7 828	292	532	5 648	14 616	7 537	22 144	1 230
3119	Other food manufacturing .....	4	37	8	567	15 812	444	851	10 324	50 384	51 521	100 483	5 055
31199	All other food manufacturing ...	3	30	6	503	13 202	397	756	8 833	40 833	41 610	81 029	4 632
311991	Perishable prepared food manufacturing .....	1	8	3	327	8 055	264	526	5 472	20 061	30 070	48 744	3 889
312	Beverage and tobacco product manufacturing .....	—	22	6	1 035	32 366	332	651	11 156	242 883	142 406	381 097	46 968
3121	Beverage manufacturing .....	—	22	6	1 035	32 366	332	651	11 156	242 883	142 406	381 097	46 968
31211	Soft drink and ice manufacturing .....	—	10	4	620	26 440	290	576	10 126	229 665	133 703	359 199	44 726
312111	Soft drink manufacturing ....	—	2	2	f	D	D	D	D	D	D	D	D
31212	Breweries .....	—	4	2	383	4 511	26	46	542	8 854	4 052	12 883	D
312120	Breweries .....	—	4	2	383	4 511	26	46	542	8 854	4 052	12 883	D
313	Textile mills .....	2	22	6	e	D	D	D	D	D	D	D	397
314	Textile product mills .....	3	89	12	804	20 528	605	1 139	11 740	41 604	30 175	71 317	2 930
3149	Other textile product mills .....	3	65	10	611	16 524	454	823	9 127	31 829	22 836	54 080	2 660
31491	Textile bag and canvas mills ...	1	34	6	392	10 501	290	522	5 575	20 190	13 923	33 742	1 499
314912	Canvas and related product mills .....	1	26	4	255	7 319	183	344	3 987	15 417	7 693	22 775	1 453
315	Apparel manufacturing .....	4	139	38	3 069	65 021	2 497	4 657	41 510	143 622	113 858	256 129	3 261
3152	Cut and sew apparel manufacturing .....	4	121	31	2 540	52 768	2 074	3 939	33 639	126 208	93 646	218 410	D
31521	Cut and sew apparel contractors .....	5	85	16	g	D	D	D	D	D	D	D	D
315211	Men's and boys' cut and sew apparel contractors .....	2	21	6	e	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors .....	8	64	10	f	D	D	D	D	D	D	D	D
31522	Men's and boys' cut and sew apparel manufacturing .....	2	10	8	f	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing .....	2	18	4	418	8 783	376	725	6 830	13 022	15 615	28 645	D
31529	Other cut and sew apparel manufacturing .....	9	8	3	413	11 918	291	622	5 207	36 136	28 092	63 453	D
315299	All other cut and sew apparel manufacturing .....	9	6	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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		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>SAN DIEGO-CARLSBAD-SAN MARCOS, CA METROPOLITAN STATISTICAL AREA—Con.</b>													
315	Apparel manufacturing—Con.												
3159	Apparel accessories and other apparel manufacturing .....	1	16	6	e	D	D	D	D	D	D	185	
31599	Apparel accessories and other apparel manufacturing .....	1	16	6	e	D	D	D	D	D	D	185	
315999	Other apparel accessories and other apparel manufacturing .....	1	12	5	311	7 066	262	552	5 362	12 660	9 656	22 202	185
316	Leather and allied product manufacturing .....	—	23	5	522	17 621	252	408	5 543	56 191	83 750	142 887	D
3169	Other leather and allied product manufacturing .....	1	15	4	e	D	D	D	D	D	D	D	201
31699	Other leather and allied product manufacturing .....	1	15	4	e	D	D	D	D	D	D	D	201
321	Wood product manufacturing .....	3	68	19	1 118	31 189	854	1 716	19 569	92 276	81 137	173 380	3 308
3219	Other wood product manufacturing .....	4	58	15	869	24 131	672	1 341	15 701	67 307	57 199	124 489	2 523
32191	Millwork .....	2	31	7	401	12 170	303	603	7 568	36 420	39 434	75 772	1 655
32199	All other wood product manufacturing .....	9	18	3	259	7 121	205	420	4 653	23 088	8 465	31 539	589
322	Paper manufacturing .....	1	29	10	855	29 608	652	1 391	17 773	74 702	82 668	157 239	3 621
3222	Converted paper product manufacturing .....	1	28	10	f	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	1	10	5	564	18 771	431	924	10 945	49 520	56 543	106 086	2 677
322211	Corrugated and solid fiber box manufacturing .....	—	5	3	275	11 131	178	410	5 052	25 338	31 883	56 720	D
323	Printing and related support activities .....	2	'408	'62	'5 509	'178 405	'3 950	'6 408	'111 467	'423 785	'246 068	'667 814	'25 002
3231	Printing and related support activities .....	2	'408	'62	'5 509	'178 405	'3 950	'6 408	'111 467	'423 785	'246 068	'667 814	'25 002
32311	Printing .....	2	'372	'58	'5 234	'169 413	'3 768	'6 088	'106 417	'407 874	'242 097	'647 889	'24 654
323110	Commercial lithographic printing .....	1	167	38	3 461	115 435	2 519	3 885	72 000	289 722	177 438	466 818	19 077
323113	Commercial screen printing ..	3	60	13	905	22 070	635	1 052	12 599	42 637	29 381	71 733	2 072
323114	Quick printing .....	6	92	2	400	11 988	269	475	7 201	27 123	13 618	39 473	854
32312	Support activities for printing ..	2	36	4	275	8 992	182	320	5 050	15 911	3 971	19 925	348
325	Chemical manufacturing .....	1	154	44	6 453	314 871	3 014	5 655	110 671	1 154 698	568 064	1 689 804	103 369
3251	Basic chemical manufacturing ...	—	11	2	307	15 565	111	240	4 651	66 201	33 467	99 615	2 675
32519	Other basic organic chemical manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
325199	All other basic organic chemical manufacturing .....	—	4	2	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	1	67	29	4 939	254 358	2 222	4 138	83 070	830 796	317 045	1 117 271	88 285
32541	Pharmaceutical and medicine manufacturing .....	1	67	29	4 939	254 358	2 222	4 138	83 070	830 796	317 045	1 117 271	88 285
325411	Medicinal and botanical manufacturing .....	—	14	3	1 144	62 450	496	1 039	15 320	254 256	80 396	315 934	D
325412	Pharmaceutical preparation manufacturing .....	3	21	8	682	31 872	393	627	13 944	148 225	62 882	208 645	11 511
325413	In-vitro diagnostic substance manufacturing .....	—	20	15	2 721	136 506	1 202	2 235	48 232	388 278	136 406	512 732	34 809
325414	Biological product (except diagnostic) manufacturing ..	3	12	3	392	23 530	131	237	5 574	40 037	37 361	79 960	D
3255	Paint, coating, and adhesive manufacturing .....	—	16	3	317	13 747	191	343	6 450	141 597	130 008	271 171	4 456
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	7	21	7	517	14 609	259	517	7 817	60 781	31 317	92 078	1 845
32562	Toilet preparation manufacturing .....	7	9	6	421	10 736	203	412	5 856	46 019	21 700	67 663	1 323
325620	Toilet preparation manufacturing .....	7	9	6	421	10 736	203	412	5 856	46 019	21 700	67 663	1 323
3259	Other chemical product and preparation manufacturing .....	3	31	2	291	13 325	168	315	6 834	48 739	41 655	88 394	5 646

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<b>SAN DIEGO-CARLSBAD-SAN MARCOS, CA METROPOLITAN STATISTICAL AREA—Con.</b>													
326	Plastics and rubber products manufacturing .....	1	146	52	6 330	214 053	4 518	7 894	107 679	544 196	422 466	964 285	32 777
3261	Plastics product manufacturing ..	1	127	46	5 881	197 985	4 269	7 364	100 446	507 283	384 413	893 664	27 472
32612	Plastics pipe, pipe fitting, and un laminated profile shape manufacturing .....	1	13	7	764	30 025	560	846	16 348	51 410	37 292	89 571	2 247
326122	Plastics pipe and pipe fitting manufacturing .....	1	6	6	577	24 015	409	543	12 105	40 522	30 674	72 389	2 101
32619	Other plastics product manufacturing .....	1	91	35	4 657	152 261	3 383	5 912	74 792	433 645	308 008	743 990	23 489
326191	Plastics plumbing fixture manufacturing .....	-	6	4	1 512	34 027	1 222	1 847	17 875	126 511	107 682	234 873	3 728
326199	All other plastics product manufacturing .....	2	85	31	3 145	118 234	2 161	4 065	56 917	307 134	200 326	509 117	19 761
3262	Rubber product manufacturing ...	4	19	6	449	16 068	249	530	7 233	36 913	38 053	70 621	5 305
32629	Other rubber product manufacturing .....	3	15	4	312	11 204	163	357	4 397	27 866	21 552	44 838	D
327	Nonmetallic mineral product manufacturing .....	2	102	26	2 384	79 261	1 944	4 149	59 350	246 398	217 979	463 472	12 862
3272	Glass and glass product manufacturing .....	3	21	3	458	12 279	339	674	7 492	19 397	7 344	26 806	449
32721	Glass and glass product manufacturing .....	3	21	3	458	12 279	339	674	7 492	19 397	7 344	26 806	449
327215	Glass product manufacturing made of purchased glass ..	3	14	3	440	11 631	326	647	6 987	17 414	6 543	24 022	373
3273	Cement and concrete product manufacturing .....	2	42	13	1 226	45 436	1 082	2 468	37 769	177 357	184 610	360 968	9 882
32732	Ready-mix concrete manufacturing .....	2	28	7	534	24 410	465	1 022	20 362	116 740	143 249	260 054	4 754
327320	Ready-mix concrete manufacturing .....	2	28	7	534	24 410	465	1 022	20 362	116 740	143 249	260 054	4 754
32739	Other concrete product manufacturing .....	-	7	2	513	13 651	469	1 105	11 502	37 452	7 023	44 131	1 540
327390	Other concrete product manufacturing .....	-	7	2	513	13 651	469	1 105	11 502	37 452	7 023	44 131	1 540
3279	Other nonmetallic mineral product manufacturing .....	5	24	6	402	12 550	278	523	7 841	29 321	18 862	48 224	D
32799	All other nonmetallic mineral product manufacturing .....	4	23	6	e	D	D	D	D	D	D	D	1 868
331	Primary metal manufacturing .....	3	24	5	258	9 714	214	415	6 755	28 816	12 454	41 262	605
332	Fabricated metal product manufacturing .....	1	498	129	9 736	366 295	7 075	14 118	229 612	773 508	431 371	1 199 122	39 410
3321	Forging and stamping.....	-	14	7	584	30 157	304	658	10 644	53 232	43 043	93 703	1 938
33211	Forging and stamping.....	-	14	7	584	30 157	304	658	10 644	53 232	43 043	93 703	1 938
332112	Nonferrous forging .....	-	2	2	e	D	D	D	D	D	D	D	D
3322	Cutlery and handtool manufacturing .....	1	17	4	564	19 014	439	670	11 644	44 441	20 193	65 413	2 578
33221	Cutlery and handtool manufacturing .....	1	17	4	564	19 014	439	670	11 644	44 441	20 193	65 413	2 578
332211	Cutlery and flatware (except precious) manufacturing ...	-	2	1	e	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	1	109	32	3 347	130 103	2 327	4 922	81 188	286 380	177 158	462 207	12 206
33231	Plate work and fabricated structural product manufacturing .....	-	30	12	1 258	59 807	912	2 065	39 490	125 084	74 391	198 441	5 278
332312	Fabricated structural metal manufacturing .....	-	24	9	944	44 310	706	1 580	31 098	87 368	62 443	148 414	4 200
33232	Ornamental and architectural metal products manufacturing .....	1	79	20	2 089	70 296	1 415	2 857	41 698	161 296	102 767	263 766	6 928
332321	Metal window and door manufacturing .....	1	12	3	488	16 900	317	648	8 341	44 529	23 546	67 591	1 835
332322	Sheet metal work manufacturing .....	-	46	17	1 477	49 137	1 014	2 055	30 928	107 784	71 364	179 314	4 813
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	236	51	3 454	124 589	2 643	5 248	87 021	267 153	95 176	362 176	18 520
33271	Machine shops .....	2	199	34	2 401	88 857	1 798	3 528	61 831	189 619	73 812	263 621	11 796
332710	Machine shops .....	2	199	34	2 401	88 857	1 798	3 528	61 831	189 619	73 812	263 621	11 796
33272	Turned product and screw, nut, and bolt manufacturing .....	-	37	17	1 053	35 732	845	1 720	25 190	77 534	21 364	98 555	6 724
332721	Precision turned product manufacturing .....	-	35	17	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN DIEGO-CARLSBAD-SAN MARCOS, CA METROPOLITAN STATISTICAL AREA—Con.</b>													
332	Fabricated metal product manufacturing—Con.												
3328	Coating, engraving, heat treating, and allied activities .....	2	55	15	706	22 703	552	986	14 445	37 555	16 137	53 760	885
33281	Coating, engraving, heat treating, and allied activities ..	2	55	15	706	22 703	552	986	14 445	37 555	16 137	53 760	885
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	1	23	8	362	11 207	288	473	7 049	18 114	8 934	27 072	612
332813	Electroplating, plating, polishing, anodizing, and coloring .....	3	29	5	273	8 468	213	397	5 308	12 699	4 203	16 946	D
3329	Other fabricated metal product manufacturing .....	2	41	12	673	25 016	515	1 048	16 119	48 637	32 958	80 318	2 174
33299	All other fabricated metal product manufacturing .....	2	37	10	595	21 405	457	946	13 320	42 742	29 551	70 975	2 080
332999	All other miscellaneous fabricated metal product manufacturing .....	2	30	8	520	18 992	410	847	11 800	37 714	23 656	60 053	1 851
333	Machinery manufacturing .....	—	198	58	8 905	363 041	4 709	9 219	158 787	1 138 353	1 264 847	2 417 520	37 043
3332	Industrial machinery manufacturing .....	1	40	16	2 187	96 627	990	1 712	29 431	165 939	147 992	322 838	5 610
33329	Other industrial machinery manufacturing .....	—	32	15	2 127	94 040	953	1 637	28 396	160 521	143 210	312 667	5 445
333293	Printing machinery and equipment manufacturing ..	—	4	4	407	15 602	192	392	6 090	39 167	26 439	66 829	D
333295	Semiconductor machinery manufacturing .....	1	7	6	1 261	61 665	453	652	14 146	86 723	92 925	187 383	4 080
333298	All other industrial machinery manufacturing .....	—	17	5	451	16 473	303	586	8 021	34 409	23 462	57 652	938
3333	Commercial and service industry machinery manufacturing .....	—	38	10	892	38 669	464	937	11 413	152 767	218 892	367 295	19 085
33331	Commercial and service industry machinery manufacturing .....	—	38	10	892	38 669	464	937	11 413	152 767	218 892	367 295	19 085
333319	Other commercial and service industry machinery manufacturing .....	1	20	4	547	19 770	317	643	6 660	75 185	46 906	117 594	2 584
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	3	17	4	e	D	D	D	D	D	D	D	582
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	3	17	4	e	D	D	D	D	D	D	D	582
3335	Metalworking machinery manufacturing .....	1	49	9	f	D	D	D	D	D	D	D	2 084
33351	Metalworking machinery manufacturing .....	1	49	9	f	D	D	D	D	D	D	D	2 084
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	8	3	h	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	8	3	h	D	D	D	D	D	D	D	D
333611	Turbine and turbine generator set units manufacturing .....	—	2	2	h	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	2	39	14	1 304	50 432	855	1 760	21 751	110 398	96 533	206 681	5 369
33399	All other general purpose machinery manufacturing ....	3	29	10	1 062	40 342	712	1 511	18 103	85 161	70 402	154 322	4 585
333999	All other miscellaneous general purpose machinery manufacturing .....	3	19	8	944	34 156	639	1 359	14 897	75 701	59 676	133 749	4 394
334	Computer and electronic product manufacturing .....	—	406	175	27 306	1 414 622	11 712	22 902	397 650	3 903 202	4 551 276	8 487 737	408 387
3341	Computer and peripheral equipment manufacturing .....	—	50	22	6 728	408 731	1 871	3 497	77 954	1 356 382	2 141 090	3 545 672	201 601
33411	Computer and peripheral equipment manufacturing ....	—	50	22	6 728	408 731	1 871	3 497	77 954	1 356 382	2 141 090	3 545 672	201 601
334111	Electronic computer manufacturing .....	—	14	7	h	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing .....	—	2	1	e	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	2	33	14	h	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SAN DIEGO-CARLSBAD-SAN MARCOS, CA METROPOLITAN STATISTICAL AREA—Con.</b>												
334	Computer and electronic product manufacturing—Con.												
3342	Communications equipment manufacturing .....	—	60	37	4 844	273 666	1 761	3 591	65 042	1 022 292	1 086 578	2 087 857	D
33421	Telephone apparatus manufacturing .....	1	12	6	758	47 088	174	392	11 129	62 578	56 186	121 875	4 794
334210	Telephone apparatus manufacturing .....	1	12	6	758	47 088	174	392	11 129	62 578	56 186	121 875	4 794
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	37	25	3 533	201 262	1 404	2 855	49 298	842 301	917 294	1 736 113	36 756
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	37	25	3 533	201 262	1 404	2 855	49 298	842 301	917 294	1 736 113	36 756
33429	Other communications equipment manufacturing ....	—	11	6	553	25 316	183	344	4 615	117 413	113 098	229 869	D
334290	Other communications equipment manufacturing ..	—	11	6	553	25 316	183	344	4 615	117 413	113 098	229 869	D
3344	Semiconductor and other electronic component manufacturing .....	—	144	67	8 855	367 697	5 569	10 886	171 009	670 980	682 861	1 367 021	130 314
33441	Semiconductor and other electronic component manufacturing .....	—	144	67	8 855	367 697	5 569	10 886	171 009	670 980	682 861	1 367 021	130 314
334412	Bare printed circuit board manufacturing .....	—	26	9	998	35 215	751	1 644	21 568	89 006	83 500	175 685	4 027
334413	Semiconductor and related device manufacturing .....	—	21	13	2 064	99 651	1 289	2 119	42 172	162 767	303 538	483 511	D
334414	Electronic capacitor manufacturing .....	1	5	3	f	D	D	D	D	D	D	D	D
334417	Electronic connector manufacturing .....	—	9	7	1 148	34 260	847	1 741	25 536	71 542	37 665	111 000	1 912
334418	Printed circuit assembly (electronic assembly) manufacturing .....	1	22	15	993	41 733	645	1 348	21 661	81 661	76 472	158 364	4 238
334419	Other electronic component manufacturing .....	—	53	18	2 870	128 126	1 567	3 086	47 257	211 030	148 005	350 231	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	2	121	43	6 229	335 328	2 073	3 912	68 623	764 681	505 297	1 262 853	27 796
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	2	121	43	6 229	335 328	2 073	3 912	68 623	764 681	505 297	1 262 853	27 796
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	5	18	12	1 410	73 186	597	1 189	17 712	128 394	92 476	221 332	3 725
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	17	7	2 640	147 976	619	954	20 169	246 024	158 325	404 797	12 705
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use, .....	—	9	2	e	D	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	4	19	6	522	25 505	191	377	6 625	61 447	49 735	110 674	1 878
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	5	19	6	372	20 121	162	349	5 817	27 112	18 656	54 575	1 786
334519	Other measuring and controlling device manufacturing .....	—	16	6	606	36 132	150	293	5 195	76 086	32 785	109 906	1 027
3346	Manufacturing and reproducing magnetic and optical media, .....	1	17	4	402	15 230	266	514	8 790	36 411	119 473	157 388	D
33461	Manufacturing and reproducing magnetic and optical media, ...	1	17	4	402	15 230	266	514	8 790	36 411	119 473	157 388	D
335	Electrical equipment, appliance, and component manufacturing .....	2	71	34	3 128	142 982	1 704	3 472	53 726	435 208	264 209	679 864	78 877
3351	Electric lighting equipment manufacturing .....	4	16	5	272	12 002	141	290	4 207	26 165	19 729	46 192	1 824
33512	Lighting fixture manufacturing ..	4	16	5	272	12 002	141	290	4 207	26 165	19 729	46 192	1 824

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SAN DIEGO-CARLSBAD-SAN MARCOS, CA METROPOLITAN STATISTICAL AREA—Con.</b>												
335	Electrical equipment, appliance, and component manufacturing—Con.												
3353	Electrical equipment manufacturing .....	3	19	12	922	38 461	596	1 177	17 562	82 830	51 671	138 409	D
33531	Electrical equipment manufacturing .....	3	19	12	922	38 461	596	1 177	17 562	82 830	51 671	138 409	D
335312	Motor and generator manufacturing .....	3	8	6	256	8 382	181	349	4 908	23 997	12 251	37 998	D
335314	Relay and industrial control manufacturing .....	4	7	3	312	16 824	136	286	4 044	28 733	21 403	52 592	794
3359	Other electrical equipment and component manufacturing .....	1	36	17	1 934	92 519	967	2 005	31 957	326 213	192 809	495 263	D
33599	All other electrical equipment and component manufacturing .....	1	19	11	1 474	78 854	640	1 357	23 869	295 610	143 231	416 005	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	1	19	11	1 474	78 854	640	1 357	23 869	295 610	143 231	416 005	D
336	Transportation equipment manufacturing .....	—	145	51	13 714	657 290	8 821	17 793	350 552	1 617 340	1 214 072	2 797 689	136 638
3363	Motor vehicle parts manufacturing .....	4	43	12	758	28 678	498	940	19 873	70 492	83 433	155 145	4 903
3364	Aerospace product and parts manufacturing .....	—	30	16	6 289	360 977	3 061	6 214	150 397	1 020 079	606 716	1 591 426	89 543
33641	Aerospace product and parts manufacturing .....	—	30	16	6 289	360 977	3 061	6 214	150 397	1 020 079	606 716	1 591 426	89 543
336411	Aircraft manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
336412	Aircraft engine and engine parts manufacturing .....	—	11	5	1 467	58 784	1 114	1 851	36 264	166 439	69 919	233 657	6 093
336413	Other aircraft parts and auxiliary equipment manufacturing .....	—	13	7	h	D	D	D	D	D	D	D	D
3366	Ship and boat building .....	—	28	16	6 239	253 302	4 940	10 043	171 055	490 656	470 676	961 332	40 885
33661	Ship and boat building .....	—	28	16	6 239	253 302	4 940	10 043	171 055	490 656	470 676	961 332	40 885
336611	Ship building and repairing ..	—	18	14	6 080	249 019	4 829	9 804	167 801	481 010	459 235	940 245	40 161
3369	Other transportation equipment manufacturing .....	4	27	4	253	8 158	182	326	4 917	18 009	23 119	41 554	D
33699	Other transportation equipment manufacturing .....	4	27	4	253	8 158	182	326	4 917	18 009	23 119	41 554	D
337	Furniture and related product manufacturing .....	2	235	31	3 940	107 454	2 983	5 764	67 727	270 963	175 298	443 826	6 966
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	2	176	16	2 347	61 605	1 886	3 736	41 492	135 155	78 678	212 982	4 562
33711	Wood kitchen cabinet and countertop manufacturing .....	2	99	7	1 130	32 384	818	1 625	19 057	71 322	28 252	99 735	3 010
337110	Wood kitchen cabinet and countertop manufacturing ..	2	99	7	1 130	32 384	818	1 625	19 057	71 322	28 252	99 735	3 010
33712	Household and institutional furniture manufacturing .....	3	77	9	1 217	29 221	1 068	2 111	22 435	63 833	50 426	113 247	1 552
337122	Nonupholstered wood household furniture manufacturing .....	2	41	6	991	22 870	893	1 772	18 061	49 819	37 692	86 490	1 072
3372	Office furniture (including fixtures) manufacturing .....	1	44	11	956	29 508	730	1 301	18 529	93 103	46 355	139 250	1 452
33721	Office furniture (including fixtures) manufacturing .....	1	44	11	956	29 508	730	1 301	18 529	93 103	46 355	139 250	1 452
337215	Showcase, partition, shelving, and locker manufacturing .....	2	20	6	515	14 410	429	824	9 918	45 327	27 652	72 526	799
3379	Other furniture related product manufacturing .....	—	15	4	637	16 341	367	727	7 706	42 705	50 265	91 594	952
33792	Blind and shade manufacturing .....	—	11	3	f	D	D	D	D	D	D	D	D
337920	Blind and shade manufacturing .....	—	11	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	2	1465	1113	15 758	686 109	8 188	15 963	239 519	2 293 159	1 273 847	3 633 331	140 002

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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN DIEGO-CARLSBAD-SAN MARCOS, CA METROPOLITAN STATISTICAL AREA—Con.</b>													
339	Miscellaneous manufacturing—Con.												
3391	Medical equipment and supplies manufacturing .....	3	179	43	7 028	299 222	3 441	6 574	98 137	937 616	583 395	1 551 012	46 109
33911	Medical equipment and supplies manufacturing .....	3	179	43	7 028	299 222	3 441	6 574	98 137	937 616	583 395	1 551 012	46 109
339111	Laboratory apparatus and furniture manufacturing ....	9	11	3	g	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	2	39	17	1 714	79 676	741	1 588	27 349	237 320	93 760	337 090	22 809
339113	Surgical appliance and supplies manufacturing ....	—	30	13	2 378	88 953	1 288	2 273	36 594	330 578	167 148	521 896	8 031
339115	Ophthalmic goods manufacturing .....	—	10	2	631	15 663	576	1 180	13 000	54 660	34 472	88 740	2 008
339116	Dental laboratories .....	3	82	5	515	12 539	426	733	9 042	21 633	5 428	26 746	1 010
3399	Other miscellaneous manufacturing .....	2	'286	'70	'8 730	'386 887	'4 747	'9 389	'141 382	'1 355 543	'690 452	'2 082 319	'93 893
33992	Sporting and athletic goods manufacturing .....	2	88	26	5 382	268 450	2 523	5 251	82 306	1 045 027	530 919	1 610 172	86 875
339920	Sporting and athletic goods manufacturing .....	2	88	26	5 382	268 450	2 523	5 251	82 306	1 045 027	530 919	1 610 172	86 875
33995	Sign manufacturing .....	4	'62	'13	'998	'38 324	'670	'1 334	'19 839	'75 290	'46 594	'123 625	'1 396
339950	Sign manufacturing .....	4	'62	'13	'998	'38 324	'670	'1 334	'19 839	'75 290	'46 594	'123 625	'1 396
33999	All other miscellaneous manufacturing .....	2	101	26	2 004	69 264	1 304	2 274	32 806	213 464	83 052	297 445	5 048
339991	Gasket, packing, and sealing device manufacturing .....	—	3	2	e	D	D	D	D	D	D	D	D
339992	Musical instrument manufacturing .....	—	8	2	e	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing .....	3	85	21	1 297	41 454	820	1 446	18 392	110 613	60 937	170 201	2 833
<b>SAN LUIS OBISPO-PASO ROBLES, CA METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	3	383	80	6 867	245 294	4 379	8 305	121 875	'614 992	'573 215	1 174 650	59 166
311	Food manufacturing .....	7	34	4	345	11 199	225	418	6 432	30 125	25 644	55 748	1 437
312	Beverage and tobacco product manufacturing .....	2	46	13	778	22 761	392	814	12 420	107 150	102 950	202 466	29 363
3121	Beverage manufacturing .....	2	46	13	778	22 761	392	814	12 420	107 150	102 950	202 466	29 363
31213	Wineries .....	2	41	11	724	20 619	342	706	10 480	101 093	95 439	189 540	D
312130	Wineries .....	2	41	11	724	20 619	342	706	10 480	101 093	95 439	189 540	D
315	Apparel manufacturing .....	1	9	4	316	7 986	256	527	5 069	17 278	10 575	27 860	D
3152	Cut and sew apparel manufacturing .....	—	7	3	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	—	41	9	727	26 892	499	883	16 113	'53 859	'57 394	106 875	6 833
3231	Printing and related support activities .....	—	41	9	727	26 892	499	883	16 113	'53 859	'57 394	106 875	6 833
32311	Printing .....	—	41	9	727	26 892	499	883	16 113	'53 859	'57 394	106 875	6 833
323116	Manifold business forms printing .....	—	4	3	347	14 265	226	480	8 765	'30 561	'41 940	68 692	355
325	Chemical manufacturing .....	7	12	5	331	16 131	173	339	5 540	43 552	69 107	109 492	5 991
327	Nonmetallic mineral product manufacturing .....	3	26	5	269	7 278	219	377	5 269	23 063	21 919	44 865	2 423
332	Fabricated metal product manufacturing .....	1	57	10	858	24 508	645	1 193	16 179	92 431	59 952	152 550	1 680
3329	Other fabricated metal product manufacturing .....	—	7	3	303	9 114	203	476	5 178	39 616	36 787	74 869	517
333	Machinery manufacturing .....	6	18	5	631	29 027	265	539	7 579	60 370	59 213	122 004	1 949
3332	Industrial machinery manufacturing .....	7	6	3	484	23 258	178	358	4 911	48 330	51 670	102 357	1 714
33329	Other industrial machinery manufacturing .....	7	5	3	e	D	D	D	D	D	D	D	D
333295	Semiconductor machinery manufacturing .....	8	2	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.**

[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 <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>SAN LUIS OBISPO-PASO ROBLES, CA METROPOLITAN STATISTICAL AREA—Con.</b>													
334	Computer and electronic product manufacturing .....	4	24	7	977	41 081	527	1 020	14 331	56 113	63 683	118 980	D
3341	Computer and peripheral equipment manufacturing .....	9	5	1	e	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing ....	9	5	1	e	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing .....	9	3	1	e	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	1	10	3	460	14 589	316	614	6 764	29 085	23 904	51 415	D
33441	Semiconductor and other electronic component manufacturing .....	1	10	3	460	14 589	316	614	6 764	29 085	23 904	51 415	D
339	Miscellaneous manufacturing .....	5	39	7	753	24 453	530	982	13 088	70 556	30 209	100 611	1 642
3391	Medical equipment and supplies manufacturing .....	8	17	2	269	10 497	180	338	5 396	31 511	11 670	43 051	1 106
33911	Medical equipment and supplies manufacturing .....	8	17	2	269	10 497	180	338	5 396	31 511	11 670	43 051	1 106
3399	Other miscellaneous manufacturing .....	2	22	5	484	13 956	350	644	7 692	39 045	18 539	57 560	536
33999	All other miscellaneous manufacturing .....	2	10	4	403	11 625	296	544	6 452	34 834	14 985	49 796	231
339992	Musical instrument manufacturing .....	—	5	3	307	9 454	224	402	5 278	23 230	14 170	37 352	222
<b>SANTA BARBARA-SANTA MARIA-GOLETA, CA METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	2	532	130	15 275	692 286	8 026	15 547	263 562	1 773 463	908 529	2 677 224	121 593
311	Food manufacturing .....	—	39	10	886	20 939	676	1 260	14 530	89 151	81 249	170 342	2 258
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	—	3	3	525	12 236	463	906	9 769	64 074	63 657	127 731	1 127
311411	Frozen fruit, juice, and vegetable manufacturing ...	—	3	3	525	12 236	463	906	9 769	64 074	63 657	127 731	1 127
3118	Bakeries and tortilla manufacturing .....	4	24	6	263	5 742	144	214	3 205	12 866	6 553	19 426	710
31181	Bread and bakery product manufacturing .....	3	22	6	e	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	2	31	8	474	16 134	142	242	4 974	42 319	27 927	69 125	5 963
3121	Beverage manufacturing .....	2	31	8	474	16 134	142	242	4 974	42 319	27 927	69 125	5 963
31213	Wineries .....	2	30	7	e	D	D	D	D	D	D	D	D
312130	Wineries .....	2	30	7	e	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	3	45	4	347	11 819	225	431	6 871	22 019	11 659	33 991	1 058
3231	Printing and related support activities .....	3	45	4	347	11 819	225	431	6 871	22 019	11 659	33 991	1 058
32311	Printing .....	3	43	4	e	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	—	13	5	1 441	51 026	599	775	17 687	157 000	51 827	214 859	58 972
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing .....	1	2	1	e	D	D	D	D	D	D	D	D
32521	Resin and synthetic rubber manufacturing .....	1	2	1	e	D	D	D	D	D	D	D	D
325212	Synthetic rubber manufacturing .....	1	2	1	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance manufacturing .....	—	2	2	e	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing .	1	6	2	660	22 120	345	266	7 510	96 980	23 002	123 675	D
32561	Soap and cleaning compound manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
325611	Soap and other detergent 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.**

[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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>SANTA BARBARA-SANTA MARIA-GOLETA, CA METROPOLITAN STATISTICAL AREA—Con.</b>												
326	Plastics and rubber products manufacturing .....	1	20	8	876	27 593	654	1 285	15 042	71 600	51 189	124 009	3 294
3261	Plastics product manufacturing ..	1	14	6	670	19 721	530	999	12 056	53 676	41 252	96 966	2 704
32619	Other plastics product manufacturing .....	1	9	4	572	16 327	448	820	9 414	46 114	33 542	81 173	2 576
326199	All other plastics product manufacturing .....	1	8	4	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	2	20	6	369	10 773	287	530	7 374	32 143	24 366	56 095	801
332	Fabricated metal product manufacturing .....	2	62	8	625	27 350	493	984	19 508	57 134	20 480	77 667	3 326
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	30	3	267	10 320	218	449	7 800	24 844	6 466	31 381	1 969
333	Machinery manufacturing .....	2	39	11	806	37 550	442	900	16 198	71 691	48 875	118 882	2 819
3339	Other general purpose machinery manufacturing .....	5	10	3	296	13 619	149	335	4 200	19 885	18 619	38 031	1 458
334	Computer and electronic product manufacturing .....	1	67	29	4 408	277 617	1 505	3 153	68 552	636 951	295 538	927 672	15 753
3341	Computer and peripheral equipment manufacturing .....	6	6	3	283	14 742	144	295	4 807	44 956	26 793	71 645	D
33411	Computer and peripheral equipment manufacturing ....	6	6	3	283	14 742	144	295	4 807	44 956	26 793	71 645	D
334112	Computer storage device manufacturing .....	6	3	3	e	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	6	4	4	266	17 991	99	217	5 750	12 707	16 398	29 194	D
3344	Semiconductor and other electronic component manufacturing .....	3	23	9	645	33 590	422	801	17 536	67 347	25 230	93 807	D
33441	Semiconductor and other electronic component manufacturing .....	3	23	9	645	33 590	422	801	17 536	67 347	25 230	93 807	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	27	12	3 179	210 038	825	1 812	40 063	508 727	222 906	725 596	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	27	12	3 179	210 038	825	1 812	40 063	508 727	222 906	725 596	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	5	4	g	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing ..	—	6	3	733	47 233	90	169	6 400	67 905	28 944	96 721	1 659
335	Electrical equipment, appliance, and component manufacturing .....	2	17	9	877	25 853	411	841	12 430	72 856	68 038	141 971	2 464
3353	Electrical equipment manufacturing .....	4	8	4	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	4	8	4	f	D	D	D	D	D	D	D	D
335313	Switchgear and switchboard apparatus manufacturing ...	—	1	1	e	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	2	7	4	256	9 657	197	395	6 322	35 512	44 018	77 981	1 965
336	Transportation equipment manufacturing .....	3	22	5	530	29 405	303	617	13 501	60 561	47 518	106 922	5 521
3364	Aerospace product and parts manufacturing .....	4	6	4	403	24 207	208	436	10 291	50 528	38 844	88 391	4 039
33641	Aerospace product and parts manufacturing .....	4	6	4	403	24 207	208	436	10 291	50 528	38 844	88 391	4 039

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SANTA BARBARA-SANTA MARIA-GOLETA, CA METROPOLITAN STATISTICAL AREA—Con.</b>													
339	Miscellaneous manufacturing . . . . .	6	79	15	2 811	132 577	1 678	3 348	52 743	408 864	108 577	513 299	17 855
3391	Medical equipment and supplies manufacturing . . . . .	6	38	11	2 300	118 316	1 367	2 727	45 355	373 235	92 203	462 151	14 490
33911	Medical equipment and supplies manufacturing . . . . .	6	38	11	2 300	118 316	1 367	2 727	45 355	373 235	92 203	462 151	14 490
339112	Surgical and medical instrument manufacturing . . . . .	5	8	4	1 372	63 185	868	1 717	27 305	219 485	67 886	284 726	9 250
339113	Surgical appliance and supplies manufacturing . . . . .	8	11	5	773	47 065	430	895	15 673	139 009	20 109	158 082	4 571
3399	Other miscellaneous manufacturing . . . . .	3	41	4	511	14 261	311	621	7 388	35 629	16 374	51 148	3 365
<b>STOCKTON, CA METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing . . . . .	1	609	222	23 274	844 306	17 704	35 571	579 578	3 515 538	3 003 287	6 481 720	220 366
311	Food manufacturing . . . . .	1	83	41	7 377	263 096	5 846	11 720	193 664	1 455 110	1 066 208	2 516 834	92 613
3112	Grain and oilseed milling . . . . .	—	4	3	629	37 349	501	1 012	29 293	660 542	227 001	887 524	D
31123	Breakfast cereal manufacturing . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal manufacturing . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing . . . . .	5	18	15	h	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing . . . . .	9	2	2	e	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing . . . . .	9	2	2	e	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying . . . . .	5	16	13	3 031	105 384	2 583	5 234	81 393	174 433	403 169	583 280	35 024
311421	Fruit and vegetable canning . . . . .	5	16	13	3 031	105 384	2 583	5 234	81 393	174 433	403 169	583 280	35 024
3115	Dairy product manufacturing . . . . .	—	4	2	e	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
311513	Cheese manufacturing . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing . . . . .	1	9	6	571	16 739	474	1 083	12 829	118 411	50 284	168 554	5 997
31161	Animal slaughtering and processing . . . . .	1	9	6	571	16 739	474	1 083	12 829	118 411	50 284	168 554	5 997
311612	Meat processed from carcasses . . . . .	—	6	4	420	13 064	354	837	10 189	108 498	35 903	144 260	5 541
3118	Bakeries and tortilla manufacturing . . . . .	4	22	6	712	19 553	607	837	15 023	38 914	38 589	77 923	2 386
31181	Bread and bakery product manufacturing . . . . .	4	20	5	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries . . . . .	4	6	3	543	16 181	503	670	13 047	31 309	34 026	65 755	1 939
3119	Other food manufacturing . . . . .	—	10	6	1 340	47 509	1 046	2 331	29 625	322 364	65 939	379 033	13 255
31191	Snack food manufacturing . . . . .	—	4	3	729	26 114	511	1 100	13 417	239 319	21 412	251 488	D
311911	Roasted nuts and peanut butter manufacturing . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing . . . . .	—	4	3	f	D	D	D	D	D	D	D	D
311991	Perishable prepared food manufacturing . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing . . . . .	—	19	8	1 158	45 028	776	1 440	33 094	461 011	384 301	819 631	38 920
3121	Beverage manufacturing . . . . .	—	19	8	1 158	45 028	776	1 440	33 094	461 011	384 301	819 631	38 920
31213	Wineries . . . . .	—	18	7	g	D	D	D	D	D	D	D	D
312130	Wineries . . . . .	—	18	7	g	D	D	D	D	D	D	D	D
321	Wood product manufacturing . . . . .	2	29	14	1 495	48 945	1 156	2 203	31 766	101 205	165 872	263 067	4 508
3212	Veneer, plywood, and engineered wood product manufacturing . . . . .	7	3	3	e	D	D	D	D	D	D	D	767
32121	Veneer, plywood, and engineered wood product manufacturing . . . . .	7	3	3	e	D	D	D	D	D	D	D	767
321214	Truss manufacturing . . . . .	7	3	3	e	D	D	D	D	D	D	D	767
3219	Other wood product manufacturing . . . . .	1	25	10	1 145	37 724	841	1 778	23 112	81 484	138 426	215 972	3 741
32191	Millwork . . . . .	1	12	6	631	17 593	481	1 041	11 682	44 741	91 289	136 943	1 598
321911	Wood window and door manufacturing . . . . .	—	8	4	e	D	D	D	D	D	D	D	D
32192	Wood container and pallet manufacturing . . . . .	2	9	3	e	D	D	D	D	D	D	D	D
321920	Wood container and pallet manufacturing . . . . .	2	9	3	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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>STOCKTON, CA METROPOLITAN STATISTICAL AREA—Con.</b>													
322	Paper manufacturing .....	—	14	13	1 140	49 178	902	1 983	33 588	154 966	233 701	384 345	11 201
3221	Pulp, paper, and paperboard mills .....	1	3	3	361	16 937	284	629	11 884	56 060	67 911	122 803	3 714
3222	Converted paper product manufacturing .....	—	11	10	779	32 241	618	1 354	21 704	98 906	165 790	261 542	7 487
32221	Paperboard container manufacturing .....	—	11	10	779	32 241	618	1 354	21 704	98 906	165 790	261 542	7 487
322211	Corrugated and solid fiber box manufacturing .....	—	9	8	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	3	48	6	447	15 024	301	554	8 803	30 468	20 237	51 087	4 069
3231	Printing and related support activities .....	3	48	6	447	15 024	301	554	8 803	30 468	20 237	51 087	4 069
32311	Printing .....	3	45	5	413	14 313	281	517	8 337	29 458	20 080	49 920	D
325	Chemical manufacturing .....	2	20	7	575	24 497	354	764	13 223	118 135	97 966	216 790	4 049
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing .....	1	6	4	349	15 731	233	508	9 646	77 991	73 069	151 900	2 106
32531	Fertilizer manufacturing .....	—	5	3	e	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	44	22	1 921	62 856	1 546	3 022	45 911	231 943	221 601	457 018	13 844
3261	Plastics product manufacturing ..	—	34	19	1 674	55 166	1 361	2 707	40 905	215 766	210 872	430 357	12 837
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing .....	—	6	5	558	17 629	462	777	12 959	75 485	86 806	165 529	3 037
326122	Plastics pipe and pipe fitting manufacturing .....	—	4	3	e	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	21	8	597	19 579	437	969	12 489	54 522	41 901	98 202	4 989
326199	All other plastics product manufacturing .....	—	17	7	529	16 998	373	831	10 066	45 012	39 858	86 551	4 891
327	Nonmetallic mineral product manufacturing .....	—	32	16	1 474	60 373	1 134	2 367	44 111	270 212	179 422	448 417	8 054
3272	Glass and glass product manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
327213	Glass container manufacturing .....	—	1	1	e	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	1	19	11	735	24 548	533	1 084	15 792	96 796	75 587	170 621	2 468
32739	Other concrete product manufacturing .....	—	7	4	361	10 584	232	466	5 926	49 226	30 017	77 971	1 054
327390	Other concrete product manufacturing .....	—	7	4	361	10 584	232	466	5 926	49 226	30 017	77 971	1 054
332	Fabricated metal product manufacturing .....	2	111	31	2 717	99 516	2 073	4 268	66 749	271 863	307 679	587 131	12 965
3323	Architectural and structural metals manufacturing .....	1	33	18	1 602	57 574	1 213	2 517	36 610	158 910	161 371	327 912	4 940
33231	Plate work and fabricated structural product manufacturing .....	1	19	12	1 287	46 916	970	2 001	29 873	134 945	147 395	288 469	4 166
332312	Fabricated structural metal manufacturing .....	1	14	8	1 049	38 402	777	1 608	23 611	113 851	115 810	235 710	3 662
33232	Ornamental and architectural metal products manufacturing .....	—	14	6	315	10 658	243	516	6 737	23 965	13 976	39 443	774
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	40	1	330	11 853	255	513	8 243	30 157	10 819	40 771	D
33271	Machine shops .....	3	37	1	307	11 145	238	481	7 730	28 869	10 311	39 009	2 116
332710	Machine shops .....	3	37	1	307	11 145	238	481	7 730	28 869	10 311	39 009	2 116
333	Machinery manufacturing .....	1	39	15	758	30 831	474	866	16 617	65 099	36 375	96 835	4 305
3332	Industrial machinery manufacturing .....	2	10	6	304	13 589	152	313	5 767	25 738	16 031	38 198	3 437
33329	Other industrial machinery manufacturing .....	2	8	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>STOCKTON, CA METROPOLITAN STATISTICAL AREA—Con.</b>													
336	Transportation equipment manufacturing .....	-	21	12	1 204	42 978	921	1 977	30 649	115 140	79 552	190 486	4 804
3363	Motor vehicle parts manufacturing .....	-	12	6	745	26 290	524	1 137	16 942	77 741	65 030	139 236	3 224
33639	Other motor vehicle parts manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	3	2	e	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	1	47	18	1 636	54 168	1 292	2 588	36 297	135 692	101 779	232 933	11 482
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	29	9	1 071	33 279	876	1 786	22 782	76 947	50 371	123 169	9 525
33711	Wood kitchen cabinet and countertop manufacturing .....	1	22	6	597	20 061	489	1 040	14 190	41 705	19 561	57 280	D
337110	Wood kitchen cabinet and countertop manufacturing ..	1	22	6	597	20 061	489	1 040	14 190	41 705	19 561	57 280	D
33712	Household and institutional furniture manufacturing .....	-	7	3	474	13 218	387	746	8 592	35 242	30 810	65 889	D
337122	Nonupholstered wood household furniture manufacturing .....	-	3	1	e	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) manufacturing .....	2	15	7	483	18 656	348	651	11 940	52 630	45 398	97 691	1 888
33721	Office furniture (including fixtures) manufacturing .....	2	15	7	483	18 656	348	651	11 940	52 630	45 398	97 691	1 888
339	Miscellaneous manufacturing .....	5	51	8	676	22 359	470	885	11 964	38 998	35 692	74 784	1 631
3399	Other miscellaneous manufacturing .....	5	32	5	503	16 798	337	620	8 708	25 641	31 155	56 890	1 162
<b>UKIAH, CA MICROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	1	152	41	3 314	103 725	2 348	4 318	63 819	311 764	391 079	738 344	21 609
312	Beverage and tobacco product manufacturing .....	-	28	10	741	24 061	361	687	10 084	158 874	105 325	269 609	14 289
3121	Beverage manufacturing .....	-	28	10	741	24 061	361	687	10 084	158 874	105 325	269 609	14 289
31213	Wineries .....	-	22	7	625	20 824	292	579	8 897	149 370	98 109	252 445	11 388
312130	Wineries .....	-	22	7	625	20 824	292	579	8 897	149 370	98 109	252 445	11 388
321	Wood product manufacturing .....	-	26	15	1 225	37 144	1 058	1 965	28 335	71 242	203 128	302 803	3 242
3211	Sawmills and wood preservation ..	-	11	8	675	23 000	580	1 283	18 026	36 402	146 992	211 695	1 424
32111	Sawmills and wood preservation .....	-	11	8	675	23 000	580	1 283	18 026	36 402	146 992	211 695	1 424
321113	Sawmills .....	1	8	6	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	1	14	6	f	D	D	D	D	D	D	D	D
32191	Millwork .....	-	6	4	394	10 247	343	441	7 439	27 333	48 812	76 264	D
321912	Cut stock, resawing lumber, and planing.....	-	3	3	319	9 397	269	292	6 641	24 758	48 122	72 999	D
332	Fabricated metal product manufacturing .....	-	16	5	422	12 722	272	486	7 143	22 491	18 869	41 152	1 219
<b>VISALIA-PORTERVILLE, CA METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	2	293	91	11 340	371 658	8 765	16 938	246 744	1 262 113	2 524 807	3 763 077	74 981
311	Food manufacturing .....	1	59	26	4 718	168 449	3 684	7 697	115 499	729 113	1 950 027	2 661 214	46 893
3111	Animal food manufacturing .....	2	7	3	364	15 852	214	481	7 959	39 706	258 087	298 135	1 720
31111	Animal food manufacturing .....	2	7	3	364	15 852	214	481	7 959	39 706	258 087	298 135	1 720
311119	Other animal food manufacturing .....	2	7	3	364	15 852	214	481	7 959	39 706	258 087	298 135	1 720
3114	Fruit and vegetable preserving and specialty food manufacturing .....	9	9	6	1 517	50 321	1 263	2 774	36 224	215 015	126 393	341 409	11 193
31141	Frozen food manufacturing .....	9	5	4	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	9	1	1	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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>VISALIA-PORTERVILLE, CA METROPOLITAN STATISTICAL AREA—Con.</b>												
311	Food manufacturing—Con.												
3115	Dairy product manufacturing . . . . .	-	8	7	1 732	73 991	1 319	2 753	51 401	336 813	1 361 468	1 690 257	24 145
31151	Dairy product (except frozen) manufacturing . . . . .	-	7	6	g	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing . . . . .	-	3	3	f	D	D	D	D	D	D	D	D
311513	Cheese manufacturing . . . . .	-	3	2	e	D	D	D	D	D	D	D	D
31152	Ice cream and frozen dessert manufacturing . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
311520	Ice cream and frozen dessert manufacturing . . . . .	-	1	1	e	D	D	D	D	D	D	D	D
3119	Other food manufacturing . . . . .	2	15	8	958	24 760	796	1 532	18 005	124 995	182 267	296 438	9 538
31191	Snack food manufacturing . . . . .	2	7	5	625	17 502	554	1 011	13 173	95 761	136 088	220 889	9 218
311911	Roasted nuts and peanut butter manufacturing . . . . .	1	5	3	e	D	D	D	D	D	D	D	D
311919	Other snack food manufacturing . . . . .	3	2	2	e	D	D	D	D	D	D	D	D
31199	All other food manufacturing . . . . .	1	8	3	333	7 258	242	521	4 832	29 234	46 179	75 549	320
311991	Perishable prepared food manufacturing . . . . .	1	3	3	308	6 422	223	482	4 206	25 694	42 494	68 338	D
313	Textile mills . . . . .	9	1	1	e	D	D	D	D	D	D	D	D
3131	Fiber, yarn, and thread mills . . . . .	9	1	1	e	D	D	D	D	D	D	D	D
31311	Fiber, yarn, and thread mills . . . . .	9	1	1	e	D	D	D	D	D	D	D	D
313112	Yarn texturizing, throwing, and twisting mills . . . . .	9	1	1	e	D	D	D	D	D	D	D	D
321	Wood product manufacturing . . . . .	-	18	10	767	22 390	543	1 016	13 169	47 195	54 856	103 009	902
3219	Other wood product manufacturing . . . . .	-	13	7	413	11 347	309	533	6 711	26 563	30 855	58 162	163
322	Paper manufacturing . . . . .	6	9	5	405	13 717	274	585	6 863	57 281	73 936	128 900	3 154
3222	Converted paper product manufacturing . . . . .	6	9	5	405	13 717	274	585	6 863	57 281	73 936	128 900	3 154
32221	Paperboard container manufacturing . . . . .	7	6	4	e	D	D	D	D	D	D	D	D
323	Printing and related support activities . . . . .	1	20	8	1 122	33 408	889	1 467	23 283	107 332	48 910	157 028	3 358
3231	Printing and related support activities . . . . .	1	20	8	1 122	33 408	889	1 467	23 283	107 332	48 910	157 028	3 358
32311	Printing . . . . .	1	19	8	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing . . . . .	4	7	3	304	11 172	227	423	7 302	29 800	31 335	61 114	D
323117	Books printing . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing . . . . .	1	9	5	736	20 168	588	1 284	14 346	62 215	89 178	147 092	5 486
3261	Plastics product manufacturing . . . . .	1	9	5	736	20 168	588	1 284	14 346	62 215	89 178	147 092	5 486
32619	Other plastics product manufacturing . . . . .	-	6	3	517	12 658	431	931	9 408	37 916	62 846	95 377	D
326199	All other plastics product manufacturing . . . . .	-	6	3	517	12 658	431	931	9 408	37 916	62 846	95 377	D
332	Fabricated metal product manufacturing . . . . .	2	46	10	1 169	42 367	825	1 395	24 623	81 668	86 993	169 635	2 905
3323	Architectural and structural metals manufacturing . . . . .	2	10	4	521	19 249	364	711	11 187	39 422	38 986	80 991	1 161
33232	Ornamental and architectural metal products manufacturing . . . . .	3	6	3	325	11 573	234	465	6 455	24 869	24 790	52 511	796
332321	Metal window and door manufacturing . . . . .	2	3	2	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing . . . . .	-	4	2	e	D	D	D	D	D	D	D	D
33291	Metal valve manufacturing . . . . .	-	2	2	e	D	D	D	D	D	D	D	D
333	Machinery manufacturing . . . . .	2	36	8	715	24 102	557	959	16 060	62 945	82 024	144 006	4 780
3339	Other general purpose machinery manufacturing . . . . .	1	10	4	528	17 230	434	708	12 182	49 010	68 073	116 033	4 202
33391	Pump and compressor manufacturing . . . . .	-	2	2	e	D	D	D	D	D	D	D	D
333911	Pump and pumping equipment manufacturing . . . . .	-	2	2	e	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing . . . . .	2	5	3	384	11 412	303	543	7 765	24 268	24 329	48 632	D
3344	Semiconductor and other electronic component manufacturing . . . . .	2	4	3	e	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing . . . . .	2	4	3	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>YUBA CITY-MARYSVILLE, CA METROPOLITAN STATISTICAL AREA</b>													
31-33	Manufacturing .....	-	122	32	3 147	97 944	2 456	4 859	62 981	521 248	442 298	839 120	24 873
311	Food manufacturing .....	-	25	9	1 364	45 452	1 016	2 018	26 480	379 894	266 297	525 758	19 868
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	13	7	950	34 394	699	1 372	18 481	356 027	188 885	426 318	17 405
31142	Fruit and vegetable canning, pickling, and drying .....	-	13	7	950	34 394	699	1 372	18 481	356 027	188 885	426 318	17 405
311423	Dried and dehydrated food manufacturing .....	-	10	5	816	30 543	582	1 161	15 506	340 295	179 704	401 505	D
321	Wood product manufacturing .....	-	17	10	883	24 710	771	1 508	19 379	63 841	104 909	166 819	1 856
3219	Other wood product manufacturing .....	-	13	7	643	17 705	571	1 075	14 515	51 091	88 028	136 764	1 338
32191	Millwork .....	-	8	5	407	10 337	361	606	8 283	33 685	60 353	92 017	1 146
321918	Other millwork (including flooring) .....	-	5	4	e	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	16	3	250	8 100	188	371	4 684	20 537	17 325	38 878	653

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

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

<sup>3</sup>Industries with 250 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 250 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: 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.

<sup>4</sup>Number 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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ALAMEDA</b>													
31-33	Manufacturing .....	1	2 355	765	'94 682	4 640 413	'53 838	103 998	1 965 399	14 628 752	14 963 770	29 632 054	716 220
311	Food manufacturing .....	2	204	84	10 177	368 250	6 190	11 654	176 726	1 292 453	1 050 840	2 349 766	95 875
3113	Sugar and confectionery product manufacturing .....	6	13	9	g	D	D	D	D	D	D	D	D
31133	Confectionery manufacturing from purchased chocolate ...	7	6	3	f	D	D	D	D	D	D	D	D
311330	Confectionery manufacturing from purchased chocolate ..	7	6	3	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery manufacturing .....	1	4	4	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing .....	1	4	4	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	2	10	4	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	4	7	3	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing ....	4	6	3	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	2	18	9	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	2	18	9	g	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	1	11	7	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	2	100	35	4 480	150 506	2 509	4 422	66 061	445 902	213 125	658 284	D
31181	Bread and bakery product manufacturing .....	2	86	29	3 660	111 431	2 009	3 770	53 362	307 363	155 950	462 971	D
311811	Retail bakeries .....	2	54	8	586	12 400	374	624	8 245	26 506	15 406	41 731	D
311812	Commercial bakeries .....	4	27	16	2 187	76 090	976	1 996	31 884	170 046	94 030	264 274	D
311813	Frozen cakes, pies, and other pastries manufacturing .....	-	5	5	887	22 941	659	1 150	13 233	110 811	46 514	156 966	D
31182	Cookie, cracker, and pasta manufacturing .....	-	11	3	f	D	D	D	D	D	D	D	D
311821	Cookie and cracker manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	1	43	18	g	D	D	D	D	D	D	D	D
31199	All other food manufacturing ...	1	21	9	f	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	1	29	9	1 133	53 815	558	1 137	23 364	90 209	406 024	490 797	25 559
3121	Beverage manufacturing .....	1	29	9	1 133	53 815	558	1 137	23 364	90 209	406 024	490 797	25 559
31211	Soft drink and ice manufacturing .....	-	9	7	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing ....	-	6	5	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	2	91	24	g	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing .....	2	81	20	g	D	D	D	D	D	D	D	D
31521	Cut and sew apparel contractors .....	5	58	10	f	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors .....	5	56	10	f	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing .....	-	7	3	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	2	44	13	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	2	40	12	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	1	34	24	1 903	75 295	1 396	2 924	44 254	152 864	243 010	396 234	D
3222	Converted paper product manufacturing .....	1	32	23	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	1	16	12	f	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	-	9	6	f	D	D	D	D	D	D	D	D
32222	Paper bag and coated and treated paper manufacturing ..	1	9	6	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	2	'250	'45	'3 817	'136 615	'2 712	'4 658	'79 905	'284 315	'199 055	'484 743	'31 279
3231	Printing and related support activities .....	2	'250	'45	'3 817	'136 615	'2 712	'4 658	'79 905	'284 315	'199 055	'484 743	'31 279
32311	Printing .....	1	'221	'41	'3 496	'122 795	'2 488	'4 228	'71 830	'251 473	'177 716	'430 604	D
323110	Commercial lithographic printing .....	2	95	16	1 585	53 592	1 237	1 877	35 833	110 627	84 338	195 606	8 423
323113	Commercial screen printing ..	'1	'31	'7	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 <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>ALAMEDA—Con.</b>													
325	Chemical manufacturing .....	3	93	35	6 006	387 221	2 500	4 514	120 556	1 069 929	508 200	1 555 644	D
3254	Pharmaceutical and medicine manufacturing .....	4	17	7	h	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	4	17	7	h	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	9	9	2	g	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) manufacturing ..	—	4	3	g	D	D	D	D	D	D	D	D
3259	Other chemical product and preparation manufacturing .....	2	22	6	f	D	D	D	D	D	D	D	12 580
32599	All other chemical product and preparation manufacturing ...	1	16	5	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	2	110	48	4 332	140 900	3 333	6 960	90 813	344 025	316 041	658 339	46 251
3261	Plastics product manufacturing ..	2	100	47	h	D	D	D	D	D	D	D	D
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	2	23	11	f	D	D	D	D	D	D	D	34 046
326111	Plastics bag manufacturing ..	2	13	6	515	17 303	377	850	10 503	56 692	53 218	109 156	D
32619	Other plastics product manufacturing .....	1	61	29	2 631	84 547	2 058	4 385	56 574	185 182	157 404	340 230	9 506
326199	All other plastics product manufacturing .....	1	57	27	2 446	78 826	1 918	4 092	53 139	171 403	154 390	323 495	D
327	Nonmetallic mineral product manufacturing .....	1	78	35	3 367	142 713	2 585	4 905	98 401	357 930	235 972	589 495	D
3271	Clay product and refractory manufacturing .....	6	11	6	f	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, and plumbing fixture manufacturing .....	6	9	5	f	D	D	D	D	D	D	D	D
327113	Porcelain electrical supply manufacturing .....	6	5	5	f	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing .....	1	24	8	g	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	1	24	8	g	D	D	D	D	D	D	D	D
327213	Glass container manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
327215	Glass product manufacturing made of purchased glass ..	4	14	6	f	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	—	29	17	1 135	46 860	881	1 461	32 402	120 546	84 044	204 802	D
32739	Other concrete product manufacturing .....	—	14	8	f	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing .....	—	14	8	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	—	29	15	g	D	D	D	D	D	D	D	D
3315	Foundries .....	—	21	11	g	D	D	D	D	D	D	D	3 260
33151	Ferrous metal foundries .....	—	10	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	416	121	9 815	417 229	6 716	13 390	242 830	800 182	524 601	1 334 896	59 694
3321	Forging and stamping.....	4	11	7	591	22 567	418	814	12 577	52 765	53 063	106 976	D
33211	Forging and stamping.....	4	11	7	591	22 567	418	814	12 577	52 765	53 063	106 976	D
3322	Cutlery and handtool manufacturing .....	—	6	2	f	D	D	D	D	D	D	D	D
33221	Cutlery and handtool manufacturing .....	—	6	2	f	D	D	D	D	D	D	D	D
332212	Hand and edge tool manufacturing .....	—	4	1	f	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	2	94	32	2 823	112 721	1 968	3 828	67 467	222 803	146 048	371 648	9 125
33231	Plate work and fabricated structural product manufacturing .....	4	26	11	796	35 340	557	1 134	20 649	74 589	63 904	138 971	2 969
332312	Fabricated structural metal manufacturing .....	4	18	7	f	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing .....	1	68	21	2 027	77 381	1 411	2 694	46 818	148 214	82 144	232 677	6 156
332322	Sheet metal work manufacturing .....	2	41	16	1 348	49 944	926	1 779	27 978	55 232	30 805	89 208	D
3327	Machine shops: turned product; and screw, nut, and bolt manufacturing .....	2	195	41	h	D	D	D	D	D	D	D	D
33271	Machine shops .....	2	168	31	2 668	116 558	1 986	3 967	78 680	193 630	136 843	334 971	D
332710	Machine shops .....	2	168	31	2 668	116 558	1 986	3 967	78 680	193 630	136 843	334 971	D
33272	Turned product and screw, nut, and bolt manufacturing .....	—	27	10	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ALAMEDA—Con.</b>													
332	Fabricated metal product manufacturing—Con.												
3328	Coating, engraving, heat treating, and allied activities .....	3	48	13	777	27 833	601	1 265	17 826	50 338	19 023	69 381	3 675
33281	Coating, engraving, heat treating, and allied activities ..	3	48	13	777	27 833	601	1 265	17 826	50 338	19 023	69 381	3 675
3329	Other fabricated metal product manufacturing .....	2	35	14	925	38 679	583	1 186	23 496	95 706	45 545	137 379	D
33299	All other fabricated metal product manufacturing .....	2	26	12	f	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product manufacturing .....	2	20	9	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	2	135	42	6 131	396 428	1 519	2 920	62 163	827 671	673 057	1 527 901	34 850
3332	Industrial machinery manufacturing .....	2	36	22	h	D	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing .....	2	34	20	h	D	D	D	D	D	D	D	D
333295	Semiconductor machinery manufacturing .....	2	21	14	h	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	7	35	10	841	39 242	379	708	11 920	65 639	104 814	170 929	D
33399	All other general purpose machinery manufacturing .....	8	22	8	696	31 560	321	596	9 959	48 477	93 121	141 717	D
334	Computer and electronic product manufacturing .....	—	298	139	22 816	1 375 549	7 974	15 593	279 780	5 590 913	5 120 280	10 781 192	155 697
3341	Computer and peripheral equipment manufacturing .....	—	43	16	8 609	589 597	1 221	2 184	51 327	3 897 730	3 385 475	7 313 641	D
33411	Computer and peripheral equipment manufacturing ....	—	43	16	8 609	589 597	1 221	2 184	51 327	3 897 730	3 385 475	7 313 641	D
334111	Electronic computer manufacturing .....	—	22	9	i	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	1	14	5	f	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	4	43	24	2 714	161 331	912	1 650	32 297	383 792	324 574	718 251	D
33421	Telephone apparatus manufacturing .....	2	15	10	g	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing .....	2	15	10	g	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	7	21	12	g	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	7	21	12	g	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	1	112	55	7 410	348 971	4 235	8 536	139 221	668 420	907 426	1 618 879	D
33441	Semiconductor and other electronic component manufacturing .....	1	112	55	7 410	348 971	4 235	8 536	139 221	668 420	907 426	1 618 879	D
334412	Bare printed circuit board manufacturing .....	2	15	6	f	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing .....	2	41	14	2 014	130 702	823	1 576	33 018	259 417	122 141	408 022	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	25	20	2 970	127 752	2 042	4 211	67 305	258 672	611 592	885 900	30 172
334419	Other electronic component manufacturing .....	2	22	10	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	74	34	3 434	249 987	1 196	2 388	45 495	545 805	444 083	976 076	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	74	34	3 434	249 987	1 196	2 388	45 495	545 805	444 083	976 076	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	—	18	8	f	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing ..	3	12	7	764	51 734	281	569	9 105	97 906	51 555	146 462	D
334519	Other measuring and controlling device manufacturing .....	—	8	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 <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>ALAMEDA—Con.</b>													
335	Electrical equipment, appliance, and component manufacturing.....	2	64	18	2 179	83 294	1 222	2 380	30 477	238 128	152 907	391 458	D
3351	Electric lighting equipment manufacturing .....	1	21	7	f	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing..	1	21	7	f	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	3	17	4	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	3	17	4	f	D	D	D	D	D	D	D	D
335314	Relay and industrial control manufacturing .....	1	9	3	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing.....	1	23	6	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	63	19	7 920	493 808	6 889	12 930	423 404	1 808 610	4 434 693	6 231 418	D
3361	Motor vehicle manufacturing .....	—	2	2	i	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	—	1	1	i	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	—	1	1	i	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 .....	1	31	9	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	—	8	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	8	2	f	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	2	134	27	2 387	88 812	1 747	3 525	53 670	219 939	124 370	343 447	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	97	13	f	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	2	51	9	531	16 600	396	701	11 032	39 329	27 996	66 762	D
3372	Office furniture (including fixtures) manufacturing .....	2	29	11	1 233	48 987	880	1 864	28 309	106 985	48 123	154 625	D
33721	Office furniture (including fixtures) manufacturing .....	2	29	11	1 233	48 987	880	1 864	28 309	106 985	48 123	154 625	D
337211	Wood office furniture manufacturing .....	2	10	5	614	19 007	476	1 044	10 176	44 604	20 177	65 165	D
339	Miscellaneous manufacturing .....	2	'215	'53	'7 608	'318 717	'4 476	'8 656	'129 144	'1 071 950	'586 672	'1 616 695	'39 660
3391	Medical equipment and supplies manufacturing .....	3	95	28	4 439	220 593	2 312	4 777	80 144	615 969	289 279	904 034	25 979
33911	Medical equipment and supplies manufacturing .....	3	95	28	4 439	220 593	2 312	4 777	80 144	615 969	289 279	904 034	25 979
339112	Surgical and medical instrument manufacturing ..	5	17	10	g	D	D	D	D	D	D	D	8 215
339113	Surgical appliance and supplies manufacturing .....	2	10	5	g	D	D	D	D	D	D	D	11 821
339116	Dental laboratories .....	2	45	5	795	29 887	505	983	19 332	55 930	11 106	66 614	765
3399	Other miscellaneous manufacturing .....	—	'120	'25	'3 169	'98 124	'2 164	'3 879	'49 000	'455 981	'297 393	'712 661	'13 681
33993	Doll, toy, and game manufacturing .....	—	8	3	g	D	D	D	D	D	D	D	D
339932	Game, toy, and children's vehicle manufacturing .....	—	7	3	g	D	D	D	D	D	D	D	D
33995	Sign manufacturing .....	2	'34	'8	'533	'22 559	'214	'424	'6 673	'43 066	'21 855	'65 403	D
339950	Sign manufacturing .....	2	'34	'8	'533	'22 559	'214	'424	'6 673	'43 066	'21 855	'65 403	D
33999	All other miscellaneous manufacturing .....	4	41	9	574	16 231	449	759	10 513	35 575	25 342	61 523	6 035
339999	All other miscellaneous manufacturing .....	4	34	8	f	D	D	D	D	D	D	D	D
<b>AMADOR</b>													
31-33	Manufacturing .....	2	52	9	557	17 653	376	718	10 874	47 394	43 294	90 089	4 141

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 <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>BUTTE</b>													
31-33	Manufacturing .....	3	235	53	4 427	140 548	3 153	6 286	86 193	425 336	382 362	800 607	90 281
311	Food manufacturing .....	5	27	12	1 123	40 785	761	1 597	26 446	131 835	165 869	295 340	8 267
3114	Fruit and vegetable preserving and specialty food manufacturing .....	7	7	4	639	26 584	529	1 114	19 834	74 945	117 364	192 428	4 591
31142	Fruit and vegetable canning, pickling, and drying .....	7	6	4	f	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning ..	6	4	3	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	3	26	8	687	24 219	432	900	12 777	57 466	42 708	96 468	2 687
<b>COLUSA</b>													
31-33	Manufacturing .....	—	28	10	828	27 822	651	1 194	18 915	87 646	143 026	228 592	5 776
<b>CONTRA COSTA</b>													
31-33	Manufacturing .....	—	'677	'155	'20 685	'1 040 789	'12 688	'24 781	'530 000	'3 971 347	'7 607 657	'11 515 876	445 998
311	Food manufacturing .....	6	55	14	2 282	71 973	1 470	3 108	46 143	249 050	310 319	557 132	10 218
3113	Sugar and confectionery product manufacturing .....	9	5	1	g	D	D	D	D	D	D	D	D
31131	Sugar manufacturing .....	9	1	1	g	D	D	D	D	D	D	D	D
311311	Sugarcane mills .....	9	1	1	g	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	5	29	5	691	19 449	384	673	9 826	50 301	27 762	78 070	D
31181	Bread and bakery product manufacturing .....	4	25	4	631	17 533	339	615	8 449	45 770	23 831	69 608	D
311812	Commercial bakeries .....	4	8	3	501	15 708	275	529	7 559	42 399	21 995	64 399	D
323	Printing and related support activities .....	1	80	7	981	33 989	751	1 263	23 954	72 904	40 205	117 629	11 421
3231	Printing and related support activities .....	1	80	7	981	33 989	751	1 263	23 954	72 904	40 205	117 629	11 421
32311	Printing .....	1	70	7	890	30 679	671	1 130	21 455	66 198	38 785	109 497	D
323110	Commercial lithographic printing .....	1	40	6	634	22 590	501	812	16 648	49 841	31 507	85 847	10 628
324	Petroleum and coal products manufacturing .....	—	13	7	3 234	236 387	2 013	4 378	145 311	1 650 415	5 481 318	7 066 783	200 338
3241	Petroleum and coal products manufacturing .....	—	13	7	3 234	236 387	2 013	4 378	145 311	1 650 415	5 481 318	7 066 783	200 338
32411	Petroleum refineries .....	—	4	4	h	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	—	4	4	h	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	—	36	15	1 488	86 870	960	1 951	52 225	473 989	290 749	771 438	D
3251	Basic chemical manufacturing ...	—	13	7	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	—	10	2	f	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	—	2	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	99	26	2 160	78 139	1 545	2 943	45 454	190 547	157 127	339 214	9 015
3323	Architectural and structural metals manufacturing .....	3	27	8	626	18 313	468	916	10 540	37 304	45 513	82 736	1 377
3329	Other fabricated metal product manufacturing .....	—	12	8	804	32 873	574	1 026	19 242	63 724	76 325	138 694	D
33291	Metal valve manufacturing ....	—	6	2	f	D	D	D	D	D	D	D	1 329
332911	Industrial valve manufacturing .....	—	6	2	f	D	D	D	D	D	D	D	1 329
333	Machinery manufacturing .....	4	29	7	691	30 944	446	846	18 185	57 446	39 700	98 431	3 005

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>CONTRA COSTA—Con.</b>													
334	Computer and electronic product manufacturing .....	-	69	21	4 836	285 557	1 989	3 618	67 524	684 712	435 624	1 119 264	24 950
3344	Semiconductor and other electronic component manufacturing .....	-	16	5	684	29 137	436	881	13 031	60 412	63 095	123 132	D
33441	Semiconductor and other electronic component manufacturing .....	-	16	5	684	29 137	436	881	13 031	60 412	63 095	123 132	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	31	13	3 859	242 467	1 371	2 405	48 985	600 622	343 307	943 227	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	31	13	3 859	242 467	1 371	2 405	48 985	600 622	343 307	943 227	D
334510	Electromedical and electrotherapeutic apparatus manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
334514	Totalizing fluid meter and counting device manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing .....	-	5	2	g	D	D	D	D	D	D	D	D
334517	Irradiation apparatus manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	8	40	8	664	23 239	527	773	17 071	62 179	43 292	105 238	D
339	Miscellaneous manufacturing .....	1	113	19	1 334	58 371	777	1 336	23 737	172 808	90 161	254 437	8 053
3391	Medical equipment and supplies manufacturing .....	-	68	12	919	46 331	502	845	17 847	148 054	73 338	212 815	5 717
33911	Medical equipment and supplies manufacturing .....	-	68	12	919	46 331	502	845	17 847	148 054	73 338	212 815	5 717
<b>EL DORADO</b>													
31-33	Manufacturing .....	-	181	28	4 224	149 569	2 928	5 147	88 681	627 790	339 140	967 122	D
323	Printing and related support activities .....	-	21	3	g	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	-	21	3	g	D	D	D	D	D	D	D	D
32311	Printing .....	-	20	3	g	D	D	D	D	D	D	D	D
323114	Quick printing .....	-	7	1	g	D	D	D	D	D	D	D	D
<b>FRESNO</b>													
31-33	Manufacturing .....	2	701	232	26 639	844 932	19 460	38 763	506 748	2 530 737	3 442 940	6 008 599	166 468
311	Food manufacturing .....	2	123	64	11 821	325 953	9 152	18 312	210 599	1 053 144	1 955 019	3 042 586	61 646
3114	Fruit and vegetable preserving and specialty food manufacturing .....	2	25	18	3 412	92 043	2 921	5 600	68 449	342 223	481 318	884 305	25 190
31141	Frozen food manufacturing ....	3	4	3	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	3	4	3	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	2	21	15	h	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning ..	1	8	8	1 066	30 401	908	1 851	25 335	153 625	246 597	407 234	12 154
311423	Dried and dehydrated food manufacturing .....	3	12	6	1 609	46 140	1 338	2 727	30 810	141 917	201 975	398 095	11 140
3115	Dairy product manufacturing .....	1	5	3	672	28 418	322	682	14 029	79 458	340 008	420 729	8 939
31151	Dairy product (except frozen) manufacturing .....	1	4	3	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing ....	4	2	2	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	4	15	12	4 616	98 007	3 852	8 127	74 145	186 303	484 721	665 643	9 214
31161	Animal slaughtering and processing .....	4	15	12	4 616	98 007	3 852	8 127	74 145	186 303	484 721	665 643	9 214
311611	Animal (except poultry) slaughtering .....	7	6	5	1 865	39 111	1 587	3 438	31 461	61 891	322 570	379 562	6 367
311615	Poultry processing .....	-	3	2	h	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	3	46	13	1 474	51 390	975	1 667	25 829	185 729	117 791	302 433	7 319
31181	Bread and bakery product manufacturing .....	-	39	7	f	D	D	D	D	D	D	D	1 848
311812	Commercial bakeries .....	-	7	6	543	24 605	260	500	8 562	50 466	28 479	78 948	1 360
3119	Other food manufacturing .....	2	17	12	1 077	34 902	702	1 453	17 863	162 550	100 158	263 541	8 133
312	Beverage and tobacco product manufacturing .....	-	20	9	1 180	48 325	690	1 462	26 419	282 841	255 249	542 427	41 790
3121	Beverage manufacturing .....	-	20	9	1 180	48 325	690	1 462	26 419	282 841	255 249	542 427	41 790
31211	Soft drink and ice manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing ....	-	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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>FRESNO—Con.</b>													
321	Wood product manufacturing .....	3	31	9	625	15 302	512	1 078	10 355	30 336	33 393	64 127	1 300
3219	Other wood product manufacturing .....	3	24	8	516	12 588	423	899	8 535	25 476	28 386	54 375	942
322	Paper manufacturing .....	2	11	8	662	24 909	511	1 093	16 693	64 486	115 207	179 039	3 573
3222	Converted paper product manufacturing .....	2	9	6	f	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	2	8	6	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	1	61	10	841	26 638	540	1 055	16 752	57 631	37 463	94 392	8 537
3231	Printing and related support activities .....	1	61	10	841	26 638	540	1 055	16 752	57 631	37 463	94 392	8 537
32311	Printing .....	1	58	10	836	26 429	538	1 052	16 710	57 136	37 361	93 795	D
323110	Commercial lithographic printing .....	1	31	8	605	19 488	401	808	12 724	40 853	26 427	67 201	8 107
325	Chemical manufacturing .....	3	22	5	512	21 814	317	632	10 104	71 179	65 714	137 336	3 484
326	Plastics and rubber products manufacturing .....	1	24	10	960	29 438	765	1 550	19 984	114 516	88 464	203 285	5 294
3261	Plastics product manufacturing ..	1	19	9	891	27 459	726	1 474	18 972	102 400	78 775	181 626	5 155
32619	Other plastics product manufacturing .....	—	12	5	630	18 348	522	1 030	12 958	50 753	38 204	89 532	2 710
326199	All other plastics product manufacturing .....	—	12	5	630	18 348	522	1 030	12 958	50 753	38 204	89 532	2 710
327	Nonmetallic mineral product manufacturing .....	—	39	12	996	39 202	768	1 700	27 420	110 893	143 634	256 418	5 999
3272	Glass and glass product manufacturing .....	—	5	4	594	24 684	461	1 075	17 002	65 547	92 957	160 183	D
32721	Glass and glass product manufacturing .....	—	5	4	594	24 684	461	1 075	17 002	65 547	92 957	160 183	D
332	Fabricated metal product manufacturing .....	2	'101	'36	'1 743	'61 413	'1 227	'2 226	'35 602	'152 152	'138 980	'278 995	'5 378
3323	Architectural and structural metals manufacturing .....	1	31	15	724	24 733	471	793	12 691	72 057	46 817	107 360	2 530
333	Machinery manufacturing .....	2	56	24	2 318	91 370	1 386	2 722	42 674	158 902	231 403	394 121	10 973
3331	Agriculture, construction, and mining machinery manufacturing .....	7	19	7	527	18 223	359	686	10 994	45 306	60 778	107 520	D
3339	Other general purpose machinery manufacturing .....	—	18	10	1 126	49 107	590	1 215	19 321	82 413	101 777	186 302	3 224
33399	All other general purpose machinery manufacturing ....	—	11	7	f	D	D	D	D	D	D	D	1 272
334	Computer and electronic product manufacturing .....	—	10	2	g	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	2	34	12	669	21 250	533	942	13 987	45 944	55 924	102 698	1 293
337	Furniture and related product manufacturing .....	3	44	8	669	16 927	554	1 077	12 375	32 753	23 891	56 709	939
339	Miscellaneous manufacturing .....	1	78	12	1 098	35 626	810	1 550	21 817	101 097	72 508	170 758	2 256
3391	Medical equipment and supplies manufacturing .....	1	42	6	736	24 903	554	1 101	16 244	81 388	58 067	137 119	1 421
33911	Medical equipment and supplies manufacturing .....	1	42	6	736	24 903	554	1 101	16 244	81 388	58 067	137 119	1 421
<b>GLENN</b>													
31-33	Manufacturing .....	—	30	11	847	29 964	727	1 550	24 127	114 752	165 674	289 383	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>HUMBOLDT</b>													
31-33	Manufacturing .....	1	166	35	3 636	121 018	2 955	5 808	89 486	266 054	443 360	761 336	22 983
321	Wood product manufacturing .....	-	32	15	2 163	77 153	1 823	3 684	59 415	128 777	334 788	508 561	17 000
3211	Sawmills and wood preservation .....	-	14	7	1 619	61 370	1 353	2 795	47 280	100 641	266 576	411 578	14 637
32111	Sawmills and wood preservation .....	-	14	7	1 619	61 370	1 353	2 795	47 280	100 641	266 576	411 578	14 637
321113	Sawmills .....	-	13	7	g	D	D	D	D	D	D	D	D
<b>IMPERIAL</b>													
31-33	Manufacturing .....	-	60	20	1 811	61 254	1 365	2 858	39 609	219 088	211 120	395 955	17 643
<b>KERN</b>													
31-33	Manufacturing .....	1	398	98	10 968	360 294	7 653	15 310	213 361	1 656 177	2 068 250	3 752 122	165 680
311	Food manufacturing .....	1	44	15	3 844	102 317	2 534	5 394	55 167	719 866	482 563	1 214 111	62 020
3119	Other food manufacturing .....	2	10	6	3 241	83 720	2 133	4 629	45 272	492 460	358 637	853 689	48 913
31191	Snack food manufacturing .....	2	4	3	f	D	D	D	D	D	D	D	D
311911	Roasted nuts and peanut butter manufacturing .....	9	3	2	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing .....	-	5	2	g	D	D	D	D	D	D	D	D
311991	Perishable prepared food manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	2	15	4	537	6 307	368	547	4 258	13 816	9 717	21 489	845
324	Petroleum and coal products manufacturing .....	-	12	6	665	41 356	415	809	23 119	138 785	986 187	1 138 695	D
3241	Petroleum and coal products manufacturing .....	-	12	6	665	41 356	415	809	23 119	138 785	986 187	1 138 695	D
32411	Petroleum refineries .....	-	5	4	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	-	5	4	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	1	24	5	513	20 737	357	716	12 627	84 964	70 725	163 634	38 557
326	Plastics and rubber products manufacturing .....	-	15	8	704	23 007	537	1 113	15 485	98 739	92 656	196 803	4 668
3261	Plastics product manufacturing .....	-	12	8	693	22 655	529	1 097	15 269	97 877	91 618	194 903	4 630
327	Nonmetallic mineral product manufacturing .....	-	32	14	1 097	49 890	774	1 717	33 174	305 041	234 081	540 946	26 743
3273	Cement and concrete product manufacturing .....	-	24	11	867	41 265	606	1 362	26 945	235 362	204 923	441 411	23 430
332	Fabricated metal product manufacturing .....	3	87	13	1 104	37 043	847	1 728	25 006	85 872	49 704	127 022	2 115
337	Furniture and related product manufacturing .....	3	32	7	739	16 412	552	1 001	10 133	33 291	21 516	52 381	559
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	31	7	f	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	4	12	6	613	13 881	452	845	8 307	29 052	16 376	42 966	364
339	Miscellaneous manufacturing .....	6	31	4	575	19 224	448	782	10 988	52 497	21 891	73 921	3 146
<b>KINGS</b>													
31-33	Manufacturing .....	1	79	31	3 857	122 962	3 312	7 001	96 805	689 495	595 002	1 269 196	27 258
311	Food manufacturing .....	1	27	13	2 488	78 985	2 134	4 703	63 110	600 866	473 853	1 057 686	23 091
3114	Fruit and vegetable preserving and specialty food manufacturing .....	2	4	3	1 133	37 569	1 046	2 314	33 069	196 622	133 635	316 035	8 859
31142	Fruit and vegetable canning, pickling, and drying .....	2	4	3	1 133	37 569	1 046	2 314	33 069	196 622	133 635	316 035	8 859
311421	Fruit and vegetable canning .....	2	3	2	g	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
311513	Cheese manufacturing .....	-	3	3	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LOS ANGELES—Con.</b>													
333	Machinery manufacturing—Con.												
3333	Commercial and service industry machinery manufacturing .....	1	124	46	3 511	160 169	2 324	4 444	86 398	433 434	293 355	727 198	27 352
33331	Commercial and service industry machinery manufacturing .....	1	124	46	3 511	160 169	2 324	4 444	86 398	433 434	293 355	727 198	27 352
333314	Optical instrument and lens manufacturing .....	—	21	10	f	D	D	D	D	D	D	D	D
333315	Photographic and photocopying equipment manufacturing .....	1	32	7	f	D	D	D	D	D	D	D	D
333319	Other commercial and service industry machinery manufacturing .....	2	61	26	1 924	74 496	1 314	2 433	36 066	227 738	189 591	420 167	6 314
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	51	25	1 842	66 948	1 445	2 850	43 504	161 586	117 946	279 703	5 221
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	51	25	1 842	66 948	1 445	2 850	43 504	161 586	117 946	279 703	5 221
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	1	30	14	962	32 599	796	1 489	23 643	85 152	71 961	157 131	2 658
3335	Metalworking machinery manufacturing .....	2	274	47	3 831	162 652	2 640	5 051	94 156	311 180	177 720	478 819	17 604
33351	Metalworking machinery manufacturing .....	2	274	47	3 831	162 652	2 640	5 051	94 156	311 180	177 720	478 819	17 604
333511	Industrial mold manufacturing .....	2	82	15	1 279	57 032	988	1 845	39 128	106 542	38 841	143 269	5 419
333514	Special die and tool, die set, jig, and fixture manufacturing .....	2	99	12	1 000	40 859	701	1 345	23 491	73 258	40 830	113 652	2 748
333515	Cutting tool and machine tool accessory manufacturing .....	2	66	10	764	27 769	575	1 038	17 554	62 938	24 735	87 895	7 443
3336	Engine, turbine, and power transmission equipment manufacturing .....	6	30	12	g	D	D	D	D	D	D	D	10 858
33361	Engine, turbine, and power transmission equipment manufacturing .....	6	30	12	g	D	D	D	D	D	D	D	10 858
333618	Other engine equipment manufacturing .....	5	16	6	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	2	'199	60	'6 013	'248 541	'3 653	'6 703	'115 913	'532 950	'448 933	'994 201	'16 583
33391	Pump and compressor manufacturing .....	3	33	9	965	34 885	627	984	14 527	97 950	102 206	201 011	D
333911	Pump and pumping equipment manufacturing ..	2	19	7	f	D	D	D	D	D	D	D	D
33392	Material handling equipment manufacturing .....	1	39	14	1 288	47 794	710	1 467	21 301	105 302	124 999	230 907	D
333922	Conveyor and conveying equipment manufacturing ..	—	13	5	f	D	D	D	D	D	D	D	1 136
33399	All other general purpose machinery manufacturing ....	1	'127	37	'3 760	'165 862	'2 316	'4 252	'80 085	'329 698	'221 728	'562 283	'10 794
333993	Packaging machinery manufacturing .....	—	22	6	792	40 379	453	965	19 548	72 512	32 728	108 468	2 593
333995	Fluid power cylinder and actuator manufacturing ....	2	17	5	f	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	2	'54	13	'1 104	'44 088	'690	'1 282	'21 974	'87 770	'75 523	'165 715	'3 339
334	Computer and electronic product manufacturing .....	1	771	316	53 027	2 876 679	23 191	45 188	799 025	7 468 878	3 877 454	11 385 013	477 500
3341	Computer and peripheral equipment manufacturing .....	4	73	18	1 670	78 856	821	1 669	21 767	196 098	158 646	357 786	11 138
33411	Computer and peripheral equipment manufacturing ....	4	73	18	1 670	78 856	821	1 669	21 767	196 098	158 646	357 786	11 138
334111	Electronic computer manufacturing .....	4	24	2	f	D	D	D	D	D	D	D	1 321
334119	Other computer peripheral equipment manufacturing ..	3	38	13	f	D	D	D	D	D	D	D	6 612
3342	Communications equipment manufacturing .....	—	103	49	11 653	688 026	2 408	4 721	73 881	1 894 909	1 095 512	2 819 898	D
33421	Telephone apparatus manufacturing .....	—	19	9	1 302	69 935	536	917	17 407	373 310	278 867	652 911	D
334210	Telephone apparatus manufacturing .....	—	19	9	1 302	69 935	536	917	17 407	373 310	278 867	652 911	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	62	31	i	D	D	D	D	D	D	D	70 490

See footnotes at end of table.

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

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NAICS code	Geographic area and industry	All establishments <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>LOS ANGELES—Con.</b>													
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 .....	—	62	31	i	D	D	D	D	D	D	70 490	
33429	Other communications equipment manufacturing ....	6	22	9	f	D	D	D	D	D	D	D	
334290	Other communications equipment manufacturing ..	6	22	9	f	D	D	D	D	D	D	D	
3343	Audio and video equipment manufacturing .....	1	49	15	1 715	63 728	1 047	2 121	25 945	141 264	203 081	323 462	D
33431	Audio and video equipment manufacturing .....	1	49	15	1 715	63 728	1 047	2 121	25 945	141 264	203 081	323 462	D
334310	Audio and video equipment manufacturing .....	1	49	15	1 715	63 728	1 047	2 121	25 945	141 264	203 081	323 462	D
3344	Semiconductor and other electronic component manufacturing .....	2	254	124	13 218	543 011	9 093	18 079	284 640	1 016 067	543 548	1 564 152	94 549
33441	Semiconductor and other electronic component manufacturing .....	2	254	124	13 218	543 011	9 093	18 079	284 640	1 016 067	543 548	1 564 152	94 549
334412	Bare printed circuit board manufacturing .....	1	45	17	1 730	64 857	1 510	2 995	50 186	98 359	74 145	183 505	3 055
334413	Semiconductor and related device manufacturing .....	2	52	22	4 196	225 184	2 383	4 657	97 233	384 411	162 534	532 400	66 120
334414	Electronic capacitor manufacturing .....	4	12	7	800	23 845	682	1 311	15 740	40 655	20 809	61 847	D
334417	Electronic connector manufacturing .....	—	23	18	2 396	94 635	1 705	3 625	54 035	231 435	106 292	343 345	8 639
334418	Printed circuit assembly (electronic assembly) manufacturing .....	4	23	15	1 165	37 425	777	1 632	18 517	78 007	93 955	170 556	5 057
334419	Other electronic component manufacturing .....	2	74	32	2 151	76 061	1 463	2 973	38 010	148 307	65 979	217 147	9 453
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	198	84	20 721	1 359 466	6 879	13 019	308 166	3 835 172	1 656 029	5 714 694	220 549
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	198	84	20 721	1 359 466	6 879	13 019	308 166	3 835 172	1 656 029	5 714 694	220 549
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	—	15	6	2 099	114 115	1 017	1 408	34 626	666 194	226 928	905 839	22 060
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	40	20	12 943	929 368	3 097	5 871	173 632	2 487 687	1 084 477	3 761 271	80 522
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	—	36	10	1 248	59 378	646	1 311	21 867	116 633	53 253	169 641	2 294
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	—	36	15	1 802	140 084	583	1 249	28 667	275 442	100 209	403 913	99 938
334519	Other measuring and controlling device manufacturing .....	2	30	13	1 138	51 143	642	1 359	21 055	99 853	46 143	143 960	6 334
3346	Manufacturing and reproducing magnetic and optical media.....	1	94	26	4 050	143 592	2 943	5 579	84 626	385 368	220 638	605 021	58 697
33461	Manufacturing and reproducing magnetic and optical media ...	1	94	26	4 050	143 592	2 943	5 579	84 626	385 368	220 638	605 021	58 697
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	—	70	22	3 293	112 825	2 421	4 683	65 792	306 329	181 300	487 123	55 015
335	Electrical equipment, appliance, and component manufacturing .....	1	324	143	13 751	485 127	9 422	18 770	253 949	1 125 898	930 843	2 069 069	61 700
3351	Electric lighting equipment manufacturing .....	1	122	53	h	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing ..	1	117	51	4 604	141 171	3 208	6 251	73 326	354 078	252 552	608 080	10 387
335121	Residential electric lighting fixture manufacturing .....	1	51	19	1 654	37 842	1 301	2 378	23 946	88 535	98 840	188 726	3 023
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing .....	1	34	16	1 035	38 819	635	1 178	14 698	88 566	53 659	140 799	2 610
335129	Other lighting equipment manufacturing .....	1	32	16	1 915	64 510	1 272	2 695	34 682	176 977	100 053	278 555	4 754

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 <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)				
<b>LOS ANGELES—Con.</b>												
339	Miscellaneous manufacturing—Con.											
3399	Other miscellaneous manufacturing—Con.											
33994	Office supplies (except paper) manufacturing .....	2	46	7	1 154	39 117	882	1 554	25 697	96 703	71 276	159 319
339941	Pen and mechanical pencil manufacturing .....	—	8	2	f	D	D	D	D	D	D	D
33995	Sign manufacturing .....	2	158	31	2 051	75 720	1 332	2 706	37 562	142 401	76 990	223 152
339950	Sign manufacturing .....	2	158	31	2 051	75 720	1 332	2 706	37 562	142 401	76 990	223 152
33999	All other miscellaneous manufacturing .....	1	'376	'111	'9 398	'249 796	'7 064	'12 434	'147 066	'555 514	'415 774	'974 515
339991	Gasket, packing, and sealing device manufacturing .....	2	31	14	1 327	40 917	1 029	1 607	26 120	82 984	48 705	132 035
339992	Musical instrument manufacturing .....	—	27	4	788	16 668	539	991	8 436	41 640	31 932	75 730
339994	Broom, brush, and mop manufacturing .....	2	16	9	f	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing .....	1	'289	'80	'6 328	'165 451	'4 755	'8 682	'95 992	'372 841	'299 228	'673 330
<b>MADERA</b>												
31-33	Manufacturing .....	—	103	41	4 414	151 121	3 469	6 249	104 369	589 761	528 315	1 104 524
312	Beverage and tobacco product manufacturing .....	—	7	2	f	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	—	7	2	f	D	D	D	D	D	D	D
31213	Wineries .....	—	7	2	f	D	D	D	D	D	D	D
312130	Wineries .....	—	7	2	f	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	6	6	537	17 438	463	795	13 189	46 935	47 557	93 767
3261	Plastics product manufacturing ..	1	6	6	537	17 438	463	795	13 189	46 935	47 557	93 767
327	Nonmetallic mineral product manufacturing .....	—	9	5	744	36 783	651	1 343	30 717	147 351	97 352	256 362
333	Machinery manufacturing .....	1	7	5	806	30 103	585	1 202	17 176	95 582	57 676	149 597
<b>MARIN</b>												
31-33	Manufacturing .....	3	290	38	3 428	131 597	2 208	4 399	66 388	328 477	182 512	509 564
323	Printing and related support activities .....	3	49	6	517	21 128	360	647	12 329	44 126	20 704	62 958
3231	Printing and related support activities .....	3	49	6	517	21 128	360	647	12 329	44 126	20 704	62 958
334	Computer and electronic product manufacturing .....	1	18	6	697	35 318	242	505	4 974	95 942	24 122	120 080
<b>MENDOCINO</b>												
31-33	Manufacturing .....	1	152	41	3 314	103 725	2 348	4 318	63 819	311 764	391 079	738 344
312	Beverage and tobacco product manufacturing .....	—	28	10	741	24 061	361	687	10 084	158 874	105 325	269 609
3121	Beverage manufacturing .....	—	28	10	741	24 061	361	687	10 084	158 874	105 325	269 609
31213	Wineries .....	—	22	7	625	20 824	292	579	8 897	149 370	98 109	252 445
312130	Wineries .....	—	22	7	625	20 824	292	579	8 897	149 370	98 109	252 445
321	Wood product manufacturing .....	—	26	15	1 225	37 144	1 058	1 965	28 335	71 242	203 128	302 803
3211	Sawmills and wood preservation .	—	11	8	675	23 000	580	1 283	18 026	36 402	146 992	211 695
32111	Sawmills and wood preservation .....	—	11	8	675	23 000	580	1 283	18 026	36 402	146 992	211 695
321113	Sawmills .....	1	8	6	f	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	1	14	6	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ORANGE—Con.</b>													
316	Leather and allied product manufacturing .....	7	23	6	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	4	113	31	2 383	62 030	1 586	3 142	36 072	119 327	139 413	258 616	4 477
3219	Other wood product manufacturing .....	5	101	27	2 114	54 257	1 367	2 701	30 839	102 073	102 623	204 649	3 775
32191	Millwork .....	5	62	15	1 555	40 910	919	1 804	21 892	75 458	78 701	154 177	2 866
321911	Wood window and door manufacturing .....	4	22	8	853	23 565	465	896	11 124	40 985	43 824	84 993	2 091
321918	Other millwork (including flooring) .....	6	31	5	567	13 263	352	681	7 965	28 778	29 701	58 253	629
322	Paper manufacturing .....	2	72	38	3 896	176 980	2 954	6 301	116 829	489 989	700 059	1 278 567	60 370
3222	Converted paper product manufacturing .....	—	71	37	h	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	—	31	22	2 478	114 669	1 868	4 140	73 709	211 168	486 092	778 866	D
322211	Corrugated and solid fiber box manufacturing .....	—	25	17	1 855	83 898	1 337	2 961	49 391	121 625	379 196	586 264	20 947
322212	Folding paperboard box manufacturing .....	—	4	4	f	D	D	D	D	D	D	D	D
32223	Stationery product manufacturing .....	—	15	6	f	D	D	D	D	D	D	D	407
323	Printing and related support activities .....	1	666	121	11 437	400 298	8 463	15 871	249 843	874 641	499 120	1 378 196	44 701
3231	Printing and related support activities .....	1	666	121	11 437	400 298	8 463	15 871	249 843	874 641	499 120	1 378 196	44 701
32311	Printing .....	1	600	113	10 335	355 953	7 608	14 185	220 169	810 134	484 312	1 299 204	42 366
323110	Commercial lithographic printing .....	—	246	59	4 975	200 509	3 440	6 652	118 775	463 438	299 184	765 224	27 496
323112	Commercial flexographic printing .....	1	25	7	649	24 467	417	922	14 005	61 860	35 749	97 962	2 739
323113	Commercial screen printing ..	1	'92	'29	'2 611	'62 972	'2 210	'4 008	'44 471	'120 567	'67 480	'189 265	'5 061
323114	Quick printing .....	3	'155	'3	'675	'18 708	'473	'843	'11 510	'47 431	'20 190	'67 605	'1 204
32312	Support activities for printing ..	4	66	8	1 102	44 345	855	1 686	29 674	64 507	14 808	78 992	2 335
323122	Prepress services .....	5	47	7	883	38 403	653	1 288	24 632	56 046	12 265	67 988	2 024
325	Chemical manufacturing .....	—	200	65	11 698	462 833	6 608	11 717	192 589	1 433 701	1 086 512	2 539 077	203 151
3254	Pharmaceutical and medicine manufacturing .....	—	54	25	8 589	329 576	4 851	8 190	133 435	888 904	542 128	1 448 220	164 219
32541	Pharmaceutical and medicine manufacturing .....	—	54	25	8 589	329 576	4 851	8 190	133 435	888 904	542 128	1 448 220	164 219
325411	Medicinal and botanical manufacturing .....	—	9	3	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	—	34	17	7 414	272 747	4 141	6 735	106 271	654 108	449 454	1 126 937	152 743
325413	In-vitro diagnostic substance manufacturing .....	—	10	5	613	32 458	358	659	14 667	144 427	29 521	170 537	D
3255	Paint, coating, and adhesive manufacturing .....	—	31	13	993	46 233	553	1 038	20 673	272 600	200 172	472 715	8 557
32551	Paint and coating manufacturing .....	—	20	10	817	37 486	455	838	17 416	245 256	179 027	424 409	8 100
325510	Paint and coating manufacturing .....	—	20	10	817	37 486	455	838	17 416	245 256	179 027	424 409	8 100
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	2	44	9	668	24 159	325	670	8 944	141 732	127 015	272 747	3 587
3259	Other chemical product and preparation manufacturing .....	3	36	10	903	39 239	523	1 026	17 782	72 479	148 060	218 402	24 105
32599	All other chemical product and preparation manufacturing ...	3	30	8	840	36 833	477	931	16 265	64 968	139 368	201 705	23 942
326	Plastics and rubber products manufacturing .....	1	'265	'137	'15 566	'500 250	'11 248	'23 131	'283 503	'1 382 505	'1 032 746	'2 413 859	73 835
3261	Plastics product manufacturing ..	1	'239	'125	'13 709	'444 518	'9 875	'20 418	'250 265	'1 262 689	'949 901	'2 212 823	66 978
32611	Plastics packaging materials and un laminated film and sheet manufacturing .....	2	17	7	697	28 962	470	970	14 157	73 885	78 172	151 848	4 376
32612	Plastics pipe, pipe fitting, and un laminated profile shape manufacturing .....	1	21	11	f	D	D	D	D	D	D	D	D
32615	Urethane and other foam product (except polystyrene) manufacturing .....	2	17	9	745	19 666	571	1 272	11 296	45 113	50 951	95 990	4 017
326150	Urethane and other foam product (except polystyrene) manufacturing .....	2	17	9	745	19 666	571	1 272	11 296	45 113	50 951	95 990	4 017
32616	Plastics bottle manufacturing ..	1	12	8	947	28 695	597	1 353	18 912	85 978	76 131	161 788	9 189
326160	Plastics bottle manufacturing .....	1	12	8	947	28 695	597	1 353	18 912	85 978	76 131	161 788	9 189
32619	Other plastics product manufacturing .....	1	'159	'85	'9 944	'318 557	'7 086	'14 389	'169 656	'927 154	'592 451	'1 515 282	40 295
326191	Plastics plumbing fixture manufacturing .....	1	'13	'7	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	—	'146	'78	i	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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NAICS code	Geographic area and industry	All establishments <sup>2</sup>			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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>ORANGE—Con.</b>												
326	Plastics and rubber products manufacturing—Con.												
3262	Rubber product manufacturing . . .	1	26	12	1 857	55 732	1 373	2 713	33 238	119 816	82 845	201 036	6 857
32629	Other rubber product manufacturing . . .	1	19	10	1 731	52 080	1 291	2 546	31 306	108 803	71 104	178 341	5 752
326291	Rubber product manufacturing for mechanical use . . .	1	9	7	1 213	38 570	839	1 640	21 877	82 161	41 861	123 053	4 790
326299	All other rubber product manufacturing . . .	2	10	3	518	13 510	452	906	9 429	26 642	29 243	55 288	962
327	Nonmetallic mineral product manufacturing . . .	3	138	50	3 258	127 835	2 427	4 950	81 006	292 961	280 293	573 337	14 885
3271	Clay product and refractory manufacturing . . .	7	16	6	512	19 211	351	671	8 831	43 154	13 078	55 432	D
3273	Cement and concrete product manufacturing . . .	4	39	20	1 347	54 072	1 049	2 285	39 968	105 783	143 507	249 400	7 819
32732	Ready-mix concrete manufacturing . . .	5	28	13	861	35 717	711	1 555	28 234	77 843	126 276	204 143	5 371
327320	Ready-mix concrete manufacturing . . .	5	28	13	861	35 717	711	1 555	28 234	77 843	126 276	204 143	5 371
3279	Other nonmetallic mineral product manufacturing . . .	2	40	12	629	25 856	412	810	12 645	86 427	48 740	134 474	3 095
331	Primary metal manufacturing . . .	1	50	14	1 437	50 368	1 148	2 333	30 522	143 661	97 987	240 155	4 415
3313	Alumina and aluminum production and processing . . .	1	5	4	501	17 626	387	805	9 634	47 283	38 646	86 102	1 074
33131	Alumina and aluminum production and processing . . .	1	5	4	501	17 626	387	805	9 634	47 283	38 646	86 102	1 074
3315	Foundries . . .	1	23	7	641	20 475	528	1 054	14 227	57 826	30 803	87 451	D
332	Fabricated metal product manufacturing . . .	2	1 057	268	22 887	866 930	17 100	34 357	538 176	1 854 644	945 608	2 812 689	91 387
3321	Forging and stamping . . .	2	54	28	2 218	84 221	1 703	3 749	55 046	179 689	132 361	309 699	6 621
33211	Forging and stamping . . .	2	54	28	2 218	84 221	1 703	3 749	55 046	179 689	132 361	309 699	6 621
332112	Nonferrous forging . . .	—	4	4	740	29 468	620	1 426	20 940	71 355	46 223	115 136	1 994
332116	Metal stamping . . .	2	40	16	851	32 447	605	1 293	17 738	60 764	37 177	97 964	2 671
3323	Architectural and structural metals manufacturing . . .	2	173	51	4 390	158 439	3 324	6 710	102 901	369 199	243 787	618 164	14 900
33231	Plate work and fabricated structural product manufacturing . . .	2	41	9	730	30 558	549	1 175	20 141	62 419	48 716	110 879	3 972
332312	Fabricated structural metal manufacturing . . .	2	29	7	608	26 147	466	1 003	17 380	52 546	41 739	93 731	3 724
33232	Ornamental and architectural metal products manufacturing . . .	2	132	42	3 660	127 881	2 775	5 535	82 760	306 780	195 071	507 285	10 928
332322	Sheet metal work manufacturing . . .	3	84	31	2 532	84 377	1 982	4 057	56 274	164 807	119 588	289 042	7 424
332323	Ornamental and architectural metal work manufacturing . . .	—	32	7	716	30 120	517	911	19 548	113 651	50 154	162 731	3 165
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing . . .	3	518	75	7 452	310 839	5 595	11 235	199 707	642 194	222 445	867 189	36 288
33271	Machine shops . . .	3	434	45	3 812	151 871	2 928	5 677	102 943	301 588	126 328	425 778	19 882
332710	Machine shops . . .	3	434	45	3 812	151 871	2 928	5 677	102 943	301 588	126 328	425 778	19 882
33272	Turned product and screw, nut, and bolt manufacturing . . .	3	84	30	3 640	158 968	2 667	5 558	96 764	340 606	96 117	441 411	16 406
332721	Precision turned product manufacturing . . .	1	61	17	901	31 820	691	1 379	21 982	71 212	21 737	92 741	6 931
332722	Bolt, nut, screw, rivet, and washer manufacturing . . .	4	23	13	2 739	127 148	1 976	4 179	74 782	269 394	74 380	348 670	9 475
3328	Coating, engraving, heat treating, and allied activities . . .	3	136	52	3 581	110 092	2 907	5 825	72 430	186 918	79 735	267 807	7 708
33281	Coating, engraving, heat treating, and allied activities . . .	3	136	52	3 581	110 092	2 907	5 825	72 430	186 918	79 735	267 807	7 708
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers . . .	4	46	13	757	25 278	604	1 147	17 189	41 102	23 110	64 203	1 154
332813	Electroplating, plating, polishing, anodizing, and coloring . . .	2	84	36	2 685	79 966	2 196	4 442	52 453	134 732	54 222	190 016	6 321

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

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		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
	<b>ORANGE—Con.</b>												
332	Fabricated metal product manufacturing—Con.												
3329	Other fabricated metal product manufacturing .....	1	100	30	3 542	141 342	2 383	4 381	75 666	322 572	169 045	494 602	19 751
33291	Metal valve manufacturing ....	—	22	9	1 967	84 465	1 250	2 239	41 371	191 585	88 062	282 615	11 140
332911	Industrial valve manufacturing .....	—	10	3	825	42 032	427	643	14 901	115 689	60 713	177 897	7 415
332912	Fluid power valve and hose fitting manufacturing .....	—	7	4	876	33 210	633	1 219	20 736	63 324	15 485	80 140	3 217
33299	All other fabricated metal product manufacturing .....	2	78	21	1 575	56 877	1 133	2 142	34 295	130 987	80 983	211 987	8 611
332999	All other miscellaneous fabricated metal product manufacturing .....	1	52	13	1 063	37 958	792	1 446	24 326	84 063	61 444	145 187	5 973
333	Machinery manufacturing .....	1	'384	'111	'13 008	'512 066	'8 028	'15 364	'248 902	'1 143 911	'1 015 478	'2 165 781	89 880
3332	Industrial machinery manufacturing .....	4	60	16	1 212	52 944	745	1 550	24 778	119 366	80 682	204 984	4 961
33329	Other industrial machinery manufacturing .....	4	48	15	1 152	50 245	707	1 477	23 599	114 229	77 080	196 245	4 733
3333	Commercial and service industry machinery manufacturing .....	—	78	26	3 777	140 577	2 161	4 119	61 363	282 211	432 931	722 259	39 374
33331	Commercial and service industry machinery manufacturing .....	—	78	26	3 777	140 577	2 161	4 119	61 363	282 211	432 931	722 259	39 374
333314	Optical instrument and lens manufacturing .....	—	23	10	f	D	D	D	D	D	D	D	D
333315	Photographic and photocopying equipment manufacturing .....	—	11	6	g	D	D	D	D	D	D	D	D
333319	Other commercial and service industry machinery manufacturing .....	1	37	10	828	31 954	462	1 006	14 330	86 445	66 288	151 325	3 082
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	28	13	1 554	56 064	1 165	2 056	32 740	117 943	91 430	212 122	4 386
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	28	13	1 554	56 064	1 165	2 056	32 740	117 943	91 430	212 122	4 386
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing .....	—	13	7	961	37 909	677	984	19 865	89 309	48 170	139 482	3 113
3335	Metalworking machinery manufacturing .....	1	'113	'23	'2 357	'87 238	'1 840	'3 409	'60 919	'220 305	'94 952	'311 960	22 818
33351	Metalworking machinery manufacturing .....	1	'113	'23	'2 357	'87 238	'1 840	'3 409	'60 919	'220 305	'94 952	'311 960	22 818
333514	Special die and tool, die set, jig, and fixture manufacturing .....	—	41	6	805	27 587	632	1 247	18 804	58 904	50 025	108 101	2 234
333515	Cutting tool and machine tool accessory manufacturing .....	1	36	10	1 023	34 664	820	1 474	24 443	105 672	25 529	128 335	3 395
3339	Other general purpose machinery manufacturing .....	1	83	27	3 450	147 496	1 825	3 673	57 501	352 436	264 686	612 204	15 638
33391	Pump and compressor manufacturing .....	—	12	6	948	31 396	558	1 254	11 504	118 599	82 591	199 832	D
333911	Pump and pumping equipment manufacturing ..	—	8	4	f	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	1	59	18	2 054	99 513	1 038	1 968	39 935	189 574	151 537	340 660	4 972
333995	Fluid power cylinder and actuator manufacturing ....	—	4	2	f	D	D	D	D	D	D	D	D
333999	All other miscellaneous general purpose machinery manufacturing .....	4	31	9	588	26 331	313	572	10 126	47 831	36 291	85 637	2 356
334	Computer and electronic product manufacturing .....	—	'620	265	'44 917	'2 359 272	'20 119	'38 087	'671 795	'7 124 249	'7 512 014	'13 803 995	'654 792
3341	Computer and peripheral equipment manufacturing .....	—	72	29	4 327	249 506	1 272	2 150	41 569	753 934	2 325 398	3 086 549	146 861
33411	Computer and peripheral equipment manufacturing ....	—	72	29	4 327	249 506	1 272	2 150	41 569	753 934	2 325 398	3 086 549	146 861
334111	Electronic computer manufacturing .....	—	19	7	g	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing .....	1	18	10	1 312	87 000	303	657	14 572	181 079	189 140	375 149	D
334119	Other computer peripheral equipment manufacturing ..	1	34	12	g	D	D	D	D	D	D	D	12 576

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ORANGE—Con.</b>													
334	Computer and electronic product manufacturing—Con.												
3342	Communications equipment manufacturing .....	—	58	21	12 553	835 809	2 624	4 982	111 369	2 416 041	2 536 356	4 121 688	D
33421	Telephone apparatus manufacturing .....	9	10	4	1 034	62 082	211	429	10 087	145 909	161 758	320 418	D
334210	Telephone apparatus manufacturing .....	9	10	4	1 034	62 082	211	429	10 087	145 909	161 758	320 418	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	32	9	j	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	32	9	j	D	D	D	D	D	D	D	D
33429	Other communications equipment manufacturing ....	2	16	8	f	D	D	D	D	D	D	D	D
334290	Other communications equipment manufacturing ..	2	16	8	f	D	D	D	D	D	D	D	D
3343	Audio and video equipment manufacturing .....	—	24	8	1 205	44 932	596	1 067	15 063	151 358	74 567	223 623	D
33431	Audio and video equipment manufacturing .....	—	24	8	1 205	44 932	596	1 067	15 063	151 358	74 567	223 623	D
334310	Audio and video equipment manufacturing .....	—	24	8	1 205	44 932	596	1 067	15 063	151 358	74 567	223 623	D
3344	Semiconductor and other electronic component manufacturing .....	1	275	134	16 741	683 452	11 368	21 938	339 896	2 212 430	1 710 207	3 914 071	142 220
33441	Semiconductor and other electronic component manufacturing .....	1	275	134	16 741	683 452	11 368	21 938	339 896	2 212 430	1 710 207	3 914 071	142 220
334412	Bare printed circuit board manufacturing .....	3	76	34	4 048	145 952	2 922	5 956	79 268	243 711	237 643	484 914	18 172
334413	Semiconductor and related device manufacturing .....	1	40	16	2 585	128 718	1 563	2 790	59 318	348 922	219 006	569 413	24 734
334417	Electronic connector manufacturing .....	1	21	14	2 323	94 457	1 566	3 086	41 965	140 290	132 196	272 585	13 861
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	38	25	3 453	138 476	2 615	5 046	85 710	1 083 997	869 662	1 925 865	69 221
334419	Other electronic component manufacturing .....	1	77	36	3 400	145 958	2 047	3 848	59 041	334 341	213 500	552 812	13 834
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	157	67	9 508	523 954	3 856	7 185	152 841	1 522 703	824 537	2 349 161	44 763
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	157	67	9 508	523 954	3 856	7 185	152 841	1 522 703	824 537	2 349 161	44 763
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	1	27	15	2 118	110 714	1 168	1 996	47 209	326 045	231 283	557 794	9 372
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	25	11	3 908	249 561	1 054	1 964	52 603	659 001	228 237	885 288	16 230
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	2	25	15	1 126	47 573	564	1 178	19 024	111 368	69 870	182 228	11 691
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	2	25	9	775	40 289	288	448	9 741	99 484	47 054	150 728	2 564
334516	Analytical laboratory instrument manufacturing ..	—	18	8	672	34 936	356	781	12 023	227 589	163 732	390 843	2 973
3346	Manufacturing and reproducing magnetic and optical media.....	1	34	6	583	21 619	403	765	11 057	67 783	40 949	108 903	3 211
33461	Manufacturing and reproducing magnetic and optical media...	1	34	6	583	21 619	403	765	11 057	67 783	40 949	108 903	3 211
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	1	22	6	516	17 894	360	678	8 799	57 606	33 549	91 324	2 884
335	Electrical equipment, appliance, and component manufacturing .....	1	143	63	5 979	238 502	3 678	7 907	108 982	483 160	561 993	1 049 641	31 907
3351	Electric lighting equipment manufacturing .....	2	32	15	f	D	D	D	D	D	D	D	D
33512	Lighting fixture manufacturing ..	2	30	14	796	23 489	475	994	10 246	62 588	44 853	105 409	1 777
3353	Electrical equipment manufacturing .....	1	48	17	1 667	66 404	995	2 091	29 980	92 833	79 368	179 870	1 998
33531	Electrical equipment manufacturing .....	1	48	17	1 667	66 404	995	2 091	29 980	92 833	79 368	179 870	1 998
335314	Relay and industrial control manufacturing .....	1	25	8	955	37 411	536	1 171	15 088	47 773	36 370	90 096	1 117

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ORANGE—Con.</b>													
335	Electrical equipment, appliance, and component manufacturing—Con.												
3359	Other electrical equipment and component manufacturing . . . . .	1	54	28	3 216	139 674	1 972	4 335	63 268	295 852	420 646	715 860	27 191
33591	Battery manufacturing . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
335911	Storage battery manufacturing . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
33593	Wiring device manufacturing . . . . .	—	15	7	621	24 030	391	851	10 611	67 224	35 590	101 669	D
335931	Current-carrying wiring device manufacturing . . . . .	—	15	7	621	24 030	391	851	10 611	67 224	35 590	101 669	D
33599	All other electrical equipment and component manufacturing . . . . .	2	25	10	1 678	77 158	838	1 842	24 216	101 450	204 601	306 690	23 241
335999	All other miscellaneous electrical equipment and component manufacturing . . . . .	3	24	9	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing . . . . .	3	225	80	9 063	354 045	6 539	14 277	214 466	829 882	906 268	1 729 414	47 843
3363	Motor vehicle parts manufacturing . . . . .	2	105	32	4 036	135 724	2 989	6 078	84 929	343 585	397 373	725 119	25 739
33631	Motor vehicle gasoline engine and engine parts manufacturing . . . . .	2	26	7	678	29 431	447	843	15 709	62 176	60 396	119 944	13 355
33635	Motor vehicle transmission and power train parts manufacturing . . . . .	2	10	2	905	27 304	575	1 195	15 054	62 564	68 215	121 179	1 908
336350	Motor vehicle transmission and power train parts manufacturing . . . . .	2	10	2	905	27 304	575	1 195	15 054	62 564	68 215	121 179	1 908
33639	Other motor vehicle parts manufacturing . . . . .	3	40	14	1 473	44 461	1 211	2 554	30 378	113 185	134 098	244 409	5 829
336399	All other motor vehicle parts manufacturing . . . . .	3	40	14	1 473	44 461	1 211	2 554	30 378	113 185	134 098	244 409	5 829
3364	Aerospace product and parts manufacturing . . . . .	1	38	20	2 637	129 485	1 725	4 599	69 839	254 995	120 844	387 960	8 200
33641	Aerospace product and parts manufacturing . . . . .	1	38	20	2 637	129 485	1 725	4 599	69 839	254 995	120 844	387 960	8 200
336413	Other aircraft parts and auxiliary equipment manufacturing . . . . .	2	29	16	2 214	102 779	1 474	4 056	60 234	205 549	101 090	319 777	D
3369	Other transportation equipment manufacturing . . . . .	2	37	13	1 386	46 727	1 015	2 008	28 671	108 827	77 031	183 875	5 403
33699	Other transportation equipment manufacturing . . . . .	2	37	13	1 386	46 727	1 015	2 008	28 671	108 827	77 031	183 875	5 403
336991	Motorcycle, bicycle, and parts manufacturing . . . . .	2	24	11	1 212	41 264	882	1 806	25 257	101 509	67 371	166 897	5 129
337	Furniture and related product manufacturing . . . . .	3	250	78	7 722	236 589	5 807	11 498	147 152	648 712	443 244	1 088 908	24 452
3371	Household and institutional furniture and kitchen cabinet manufacturing . . . . .	5	177	43	4 434	121 888	3 429	6 868	78 060	293 714	242 317	536 009	9 371
33711	Wood kitchen cabinet and countertop manufacturing . . . . .	8	84	11	1 099	32 844	754	1 505	19 294	95 578	90 048	185 386	2 953
337110	Wood kitchen cabinet and countertop manufacturing . . . . .	8	84	11	1 099	32 844	754	1 505	19 294	95 578	90 048	185 386	2 953
33712	Household and institutional furniture manufacturing . . . . .	4	93	32	3 335	89 044	2 675	5 363	58 766	198 136	152 269	350 623	6 418
337121	Upholstered household furniture manufacturing . . . . .	4	22	9	658	17 218	556	1 086	12 945	37 946	35 844	73 556	1 036
337122	Nonupholstered wood household furniture manufacturing . . . . .	5	48	11	1 453	32 624	1 249	2 538	23 921	72 268	56 194	127 723	2 789
337127	Institutional furniture manufacturing . . . . .	2	10	6	619	23 790	397	830	11 999	55 629	16 191	72 914	1 679
3372	Office furniture (including fixtures) manufacturing . . . . .	2	59	29	2 368	92 552	1 731	3 444	55 114	236 119	125 621	357 336	11 513
33721	Office furniture (including fixtures) manufacturing . . . . .	2	59	29	2 368	92 552	1 731	3 444	55 114	236 119	125 621	357 336	11 513
337211	Wood office furniture manufacturing . . . . .	5	12	7	f	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) manufacturing . . . . .	—	8	2	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, and locker manufacturing . . . . .	3	24	15	992	40 780	604	1 164	19 214	79 381	52 053	128 622	1 630
3379	Other furniture related product manufacturing . . . . .	2	14	6	920	22 149	647	1 186	13 978	118 879	75 306	195 563	3 568
33792	Blind and shade manufacturing . . . . .	1	8	4	729	16 605	490	870	10 241	103 913	53 998	159 244	D
337920	Blind and shade manufacturing . . . . .	1	8	4	729	16 605	490	870	10 241	103 913	53 998	159 244	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ORANGE—Con.</b>													
339	Miscellaneous manufacturing . . . . .	3	'611	'165	'20 957	'896 023	'12 712	'25 609	'375 716	'2 473 952	'1 398 677	'3 891 404	'99 973
3391	Medical equipment and supplies manufacturing . . . . .	4	'243	'75	'13 372	'648 791	'7 418	'15 244	'239 996	'1 847 096	'951 206	'2 815 018	'78 032
33911	Medical equipment and supplies manufacturing . . . . .	4	'243	'75	'13 372	'648 791	'7 418	'15 244	'239 996	'1 847 096	'951 206	'2 815 018	'78 032
339111	Laboratory apparatus and furniture manufacturing . . . . .	—	8	6	1 282	71 716	354	745	10 772	145 035	112 506	275 736	8 943
339112	Surgical and medical instrument manufacturing . . . . .	3	44	23	3 987	182 669	2 356	4 564	78 797	506 505	148 952	658 128	D
339113	Surgical appliance and supplies manufacturing . . . . .	7	36	27	3 759	206 141	1 881	4 378	54 664	518 705	304 434	826 008	22 462
339114	Dental equipment and supplies manufacturing . . . . .	—	19	5	1 298	64 671	589	919	18 778	405 786	172 211	574 500	13 120
339115	Ophthalmic goods manufacturing . . . . .	9	9	5	906	43 029	644	1 264	17 990	139 614	181 474	319 148	D
339116	Dental laboratories . . . . .	1	'127	'9	'2 140	'80 565	'1 594	'3 374	'58 995	'131 451	'31 629	'161 498	'2 788
3399	Other miscellaneous manufacturing . . . . .	1	'368	90	'7 585	'247 232	'5 294	'10 365	'135 720	'626 856	'447 471	'1 076 386	'21 941
33992	Sporting and athletic goods manufacturing . . . . .	1	86	20	1 666	57 832	974	1 811	19 910	175 552	161 050	335 711	4 305
339920	Sporting and athletic goods manufacturing . . . . .	1	86	20	1 666	57 832	974	1 811	19 910	175 552	161 050	335 711	4 305
33995	Sign manufacturing . . . . .	2	95	17	1 456	52 340	1 047	1 965	31 641	103 049	63 949	165 893	7 128
339950	Sign manufacturing . . . . .	2	95	17	1 456	52 340	1 047	1 965	31 641	103 049	63 949	165 893	7 128
33999	All other miscellaneous manufacturing . . . . .	2	'133	43	'3 570	'110 202	'2 621	'5 277	'67 984	'287 662	'164 553	'455 660	'8 847
339991	Gasket, packing, and sealing device manufacturing . . . . .	—	15	9	1 050	38 619	788	1 643	24 848	90 519	37 764	133 586	2 896
339999	All other miscellaneous manufacturing . . . . .	2	'108	29	'2 109	'58 994	'1 596	'3 121	'36 272	'142 318	'106 838	'249 549	'3 707
<b>PLACER</b>													
31-33	Manufacturing . . . . .	—	'299	55	'11 316	'351 003	'5 108	'10 150	'172 092	'1 497 416	'1 487 212	'2 999 601	D
321	Wood product manufacturing . . . . .	—	18	8	1 088	39 703	901	1 889	30 612	88 448	177 202	269 478	D
3219	Other wood product manufacturing . . . . .	—	14	4	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing . . . . .	—	20	5	586	19 813	445	889	15 844	57 614	40 626	96 967	2 212
332	Fabricated metal product manufacturing . . . . .	2	43	7	535	20 376	428	892	14 574	41 970	24 207	67 091	D
333	Machinery manufacturing . . . . .	2	24	9	757	32 903	492	901	17 127	53 225	35 133	92 890	8 272
334	Computer and electronic product manufacturing . . . . .	—	28	9	6 379	168 598	1 542	3 176	57 125	1 101 258	1 081 359	2 190 361	D
3341	Computer and peripheral equipment manufacturing . . . . .	—	5	2	i	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing . . . . .	—	5	2	i	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing . . . . .	—	1	1	i	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing . . . . .	—	8	3	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing . . . . .	—	8	3	f	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing . . . . .	—	2	1	f	D	D	D	D	D	D	D	D
<b>PLUMAS</b>													
31-33	Manufacturing . . . . .	—	31	3	529	20 174	431	907	15 503	40 194	67 177	114 323	D
<b>RIVERSIDE</b>													
31-33	Manufacturing . . . . .	1	1 627	491	54 425	1 873 018	40 208	80 841	1 147 624	5 989 543	4 885 002	10 841 798	357 218
311	Food manufacturing . . . . .	1	96	24	2 733	88 887	2 131	4 250	59 700	274 510	594 058	862 852	26 394
3114	Fruit and vegetable preserving and specialty food manufacturing . . . . .	4	8	5	926	26 028	806	1 536	20 375	30 212	19 418	49 666	1 805
31141	Frozen food manufacturing . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing . . . . .	—	7	4	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing . . . . .	—	7	4	f	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing . . . . .	—	13	5	733	27 386	327	691	9 914	102 582	79 934	183 852	D
3121	Beverage manufacturing . . . . .	—	13	5	733	27 386	327	691	9 914	102 582	79 934	183 852	D
31211	Soft drink and ice manufacturing . . . . .	—	5	4	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing . . . . .	—	3	3	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>RIVERSIDE—Con.</b>													
315	Apparel manufacturing .....	8	36	8	f	D	D	D	D	D	D	D	194
321	Wood product manufacturing .....	3	70	27	3 140	85 060	2 556	4 891	55 591	203 292	240 104	443 346	4 357
3212	Veneer, plywood, and engineered wood product manufacturing .....	—	8	5	520	14 533	412	927	8 319	27 136	19 836	47 387	873
32121	Veneer, plywood, and engineered wood product manufacturing .....	—	8	5	520	14 533	412	927	8 319	27 136	19 836	47 387	873
321214	Truss manufacturing .....	—	7	5	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	3	57	22	2 602	70 068	2 131	3 941	46 928	174 969	218 078	392 582	3 420
32199	All other wood product manufacturing .....	3	18	8	1 809	47 720	1 494	2 711	31 386	141 238	114 853	257 082	2 353
321991	Manufactured home (mobile home) manufacturing .....	3	7	6	g	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	—	18	9	699	27 290	550	1 214	18 004	65 445	98 464	163 461	3 298
3222	Converted paper product manufacturing .....	—	18	9	699	27 290	550	1 214	18 004	65 445	98 464	163 461	3 298
323	Printing and related support activities .....	1	125	23	2 191	69 977	1 695	2 806	48 050	255 951	152 277	408 776	17 831
3231	Printing and related support activities .....	1	125	23	2 191	69 977	1 695	2 806	48 050	255 951	152 277	408 776	17 831
32311	Printing .....	1	119	22	2 132	68 459	1 653	2 745	47 061	252 391	151 696	404 635	17 801
323110	Commercial lithographic printing .....	1	51	13	1 146	41 009	892	1 521	29 143	157 525	109 281	266 493	D
325	Chemical manufacturing .....	1	48	13	1 635	100 103	950	1 927	48 948	325 921	218 264	518 936	D
3254	Pharmaceutical and medicine manufacturing .....	—	6	3	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	—	6	3	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	95	50	6 577	205 698	4 822	9 616	130 951	513 441	482 327	993 591	29 920
3261	Plastics product manufacturing ..	1	82	44	6 021	190 991	4 431	8 855	123 357	450 062	457 047	906 129	28 627
32614	Polystyrene foam product manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
326140	Polystyrene foam product manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
32615	Urethane and other foam product (except polystyrene) manufacturing .....	—	6	6	575	17 822	484	1 052	13 108	73 127	76 924	150 632	4 764
326150	Urethane and other foam product (except polystyrene) manufacturing .....	—	6	6	575	17 822	484	1 052	13 108	73 127	76 924	150 632	4 764
32619	Other plastics product manufacturing .....	1	61	28	4 019	125 426	2 673	5 327	70 869	236 960	254 218	492 732	14 651
326199	All other plastics product manufacturing .....	1	60	27	h	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	2	13	6	556	14 707	391	761	7 594	63 379	25 280	87 462	1 293
32629	Other rubber product manufacturing .....	2	10	5	517	13 464	362	705	6 789	60 417	21 712	80 932	D
327	Nonmetallic mineral product manufacturing .....	1	90	46	2 987	102 311	2 315	4 909	68 142	298 508	246 996	537 054	23 503
3271	Clay product and refractory manufacturing .....	1	13	7	578	19 622	411	868	11 544	63 594	24 647	86 970	8 416
3273	Cement and concrete product manufacturing .....	2	44	26	1 624	58 833	1 253	2 701	39 897	171 359	169 483	333 859	10 149
32739	Other concrete product manufacturing .....	4	17	10	664	21 737	487	997	12 243	48 929	19 879	67 697	1 793
327390	Other concrete product manufacturing .....	4	17	10	664	21 737	487	997	12 243	48 929	19 879	67 697	1 793
3279	Other nonmetallic mineral product manufacturing .....	1	18	10	561	17 745	477	1 003	12 926	50 962	38 819	89 857	D
32799	All other nonmetallic mineral product manufacturing .....	1	18	10	561	17 745	477	1 003	12 926	50 962	38 819	89 857	D
331	Primary metal manufacturing .....	—	25	7	782	31 519	617	1 182	21 273	58 676	107 361	165 763	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>RIVERSIDE—Con.</b>													
332	Fabricated metal product manufacturing .....	1	330	79	7 338	248 526	5 642	11 182	158 601	695 337	707 180	1 420 747	46 352
3323	Architectural and structural metals manufacturing .....	3	65	23	2 429	74 913	1 906	3 949	50 517	182 497	198 564	380 989	8 075
33231	Plate work and fabricated structural product manufacturing .....	7	16	6	802	23 678	597	1 160	14 450	56 874	73 576	130 515	2 879
332311	Prefabricated metal building and component manufacturing .....	7	3	3	623	17 293	476	916	11 039	41 749	59 993	101 707	D
33232	Ornamental and architectural metal products manufacturing .....	—	49	17	1 627	51 235	1 309	2 789	36 067	125 623	124 988	250 474	5 196
332321	Metal window and door manufacturing .....	—	12	6	645	19 242	541	1 180	14 609	53 201	44 782	96 892	2 781
332322	Sheet metal work manufacturing .....	—	20	9	728	23 030	589	1 270	16 121	49 545	47 272	97 681	1 438
3324	Boiler, tank, and shipping container manufacturing .....	—	7	5	f	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	142	14	1 056	37 333	823	1 459	24 854	82 317	35 631	118 484	4 992
33271	Machine shops .....	4	121	9	784	27 672	624	1 057	18 361	62 433	25 373	88 163	3 330
332710	Machine shops .....	4	121	9	784	27 672	624	1 057	18 361	62 433	25 373	88 163	3 330
3329	Other fabricated metal product manufacturing .....	1	51	16	1 743	61 227	1 228	2 442	32 525	151 005	114 773	271 797	11 590
33291	Metal valve manufacturing ....	—	9	4	643	21 973	437	952	12 022	58 578	51 968	112 419	D
33299	All other fabricated metal product manufacturing .....	1	42	12	1 100	39 254	791	1 490	20 503	92 427	62 805	159 378	D
332999	All other miscellaneous fabricated metal product manufacturing .....	2	31	10	526	18 480	405	773	11 845	34 917	38 722	77 828	5 022
333	Machinery manufacturing .....	3	121	36	2 616	109 959	1 699	3 447	57 199	240 479	202 814	447 593	7 730
3333	Commercial and service industry machinery manufacturing .....	6	14	9	685	29 533	391	825	14 086	67 257	46 414	115 878	3 008
33331	Commercial and service industry machinery manufacturing .....	6	14	9	685	29 533	391	825	14 086	67 257	46 414	115 878	3 008
3339	Other general purpose machinery manufacturing .....	1	31	13	651	27 019	389	708	10 827	62 260	40 517	102 465	1 292
33399	All other general purpose machinery manufacturing ....	1	27	11	568	24 585	339	604	9 331	56 610	33 643	89 864	1 200
334	Computer and electronic product manufacturing .....	—	63	22	3 170	132 485	2 066	4 380	64 171	195 848	264 602	468 554	20 432
3344	Semiconductor and other electronic component manufacturing .....	—	26	11	2 075	77 798	1 617	3 467	51 227	53 482	188 859	251 402	D
33441	Semiconductor and other electronic component manufacturing .....	—	26	11	2 075	77 798	1 617	3 467	51 227	53 482	188 859	251 402	D
334413	Semiconductor and related device manufacturing .....	1	4	2	600	35 418	482	1 049	27 682	S	73 209	13 880	D
334417	Electronic connector manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	273
335	Electrical equipment, appliance, and component manufacturing .....	1	32	7	718	21 508	531	1 166	13 246	53 165	57 802	112 214	2 081
336	Transportation equipment manufacturing .....	—	100	46	7 135	248 910	5 652	11 779	177 007	655 056	719 368	1 346 175	30 586
3362	Motor vehicle body and trailer manufacturing .....	—	20	15	3 249	102 291	2 761	5 853	77 638	308 366	445 567	732 868	7 560
33621	Motor vehicle body and trailer manufacturing .....	—	20	15	3 249	102 291	2 761	5 853	77 638	308 366	445 567	732 868	7 560
336213	Motor home manufacturing ..	—	2	2	g	D	D	D	D	D	D	D	D
336214	Travel trailer and camper manufacturing .....	—	11	7	1 213	40 017	995	2 137	25 605	76 891	149 292	224 538	3 613
3363	Motor vehicle parts manufacturing .....	—	35	15	2 105	66 213	1 610	3 195	44 738	202 445	154 164	355 140	12 617
33639	Other motor vehicle parts manufacturing .....	1	16	7	1 228	37 546	942	1 914	24 738	111 533	82 591	191 950	5 712
336399	All other motor vehicle parts manufacturing .....	1	15	7	g	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	1	14	6	f	D	D	D	D	D	D	D	6 329
33641	Aerospace product and parts manufacturing .....	1	14	6	f	D	D	D	D	D	D	D	6 329
336413	Other aircraft parts and auxiliary equipment manufacturing .....	—	8	5	f	D	D	D	D	D	D	D	D

See footnotes at end of table.



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

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NAICS code	Geographic area and industry	All establishments <sup>2</sup>		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)	
		E1	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>RIVERSIDE—Con.</b>													
337	Furniture and related product manufacturing .....	3	129	39	3 363	91 854	2 741	5 464	63 669	250 871	187 211	431 848	7 139
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	96	25	2 341	58 996	1 985	4 025	43 626	178 046	124 904	299 441	4 589
33711	Wood kitchen cabinet and countertop manufacturing ....	5	52	10	715	19 426	563	1 128	14 279	95 373	21 709	117 027	2 627
337110	Wood kitchen cabinet and countertop manufacturing ..	5	52	10	715	19 426	563	1 128	14 279	95 373	21 709	117 027	2 627
33712	Household and institutional upholstery manufacturing .....	1	44	15	1 626	39 570	1 422	2 897	29 347	82 673	103 195	182 414	1 962
337121	Upholstered household furniture manufacturing ....	—	13	5	561	15 137	466	871	10 470	38 837	53 286	89 176	713
337122	Nonupholstered wood household furniture manufacturing .....	1	18	7	941	20 851	856	1 868	16 814	36 127	43 938	79 682	1 069
3372	Office furniture (including fixtures) manufacturing .....	3	25	12	731	25 361	549	1 032	15 817	55 140	41 577	93 990	D
33721	Office furniture (including fixtures) manufacturing .....	3	25	12	731	25 361	549	1 032	15 817	55 140	41 577	93 990	D
337215	Showcase, partition, shelving, and locker manufacturing .....	3	14	8	538	18 509	406	779	12 118	41 337	33 151	71 619	893
339	Miscellaneous manufacturing .....	—	180	40	7 198	246 340	4 732	9 831	129 365	1 708 254	428 239	2 147 404	38 419
3391	Medical equipment and supplies manufacturing .....	—	56	12	3 956	156 166	2 461	5 232	78 345	1 359 147	201 676	1 556 440	26 959
33911	Medical equipment and supplies manufacturing .....	—	56	12	3 956	156 166	2 461	5 232	78 345	1 359 147	201 676	1 556 440	26 959
339112	Surgical and medical instrument manufacturing ..	1	7	3	680	25 598	340	672	15 718	84 734	30 688	117 812	D
339113	Surgical appliance and supplies manufacturing ....	—	19	7	3 089	123 254	1 981	4 274	57 465	1 262 218	168 184	1 423 573	22 736
3399	Other miscellaneous manufacturing .....	1	124	28	3 242	90 174	2 271	4 599	51 020	349 107	226 563	590 964	11 460
33994	Office supplies (except paper) manufacturing .....	—	8	3	f	D	D	D	D	D	D	D	D
339942	Lead pencil and art good manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous manufacturing .....	1	48	13	1 791	47 751	1 335	2 688	27 008	239 298	136 140	388 774	5 658
339992	Musical instrument manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing .....	2	38	10	g	D	D	D	D	D	D	D	D
<b>SACRAMENTO</b>													
31-33	Manufacturing .....	1	975	268	28 979	1 178 052	19 179	37 825	598 210	3 443 846	2 997 804	6 459 839	196 388
311	Food manufacturing .....	—	98	31	5 831	236 061	3 579	6 873	118 964	992 705	741 874	1 741 967	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	—	1	1	f	D	D	D	D	D	D	D	D
311422	Specialty canning .....	—	1	1	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	—	6	3	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	—	60	21	3 106	119 662	1 466	2 632	40 737	286 203	80 554	366 714	5 021
31181	Bread and bakery product manufacturing .....	—	54	19	2 784	103 727	1 181	2 249	32 882	273 021	71 989	344 970	4 676
311811	Retail bakeries .....	1	47	12	571	8 683	277	370	4 099	17 499	9 870	27 427	D
311812	Commercial bakeries .....	—	5	5	g	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	—	10	2	g	D	D	D	D	D	D	D	D
31191	Snack food manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
311911	Roasted nuts and peanut butter manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	2	13	7	1 158	47 283	277	446	7 940	267 799	208 963	476 088	12 246
3121	Beverage manufacturing .....	2	13	7	1 158	47 283	277	446	7 940	267 799	208 963	476 088	12 246
31211	Soft drink and ice manufacturing .....	2	7	6	g	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing ....	2	4	4	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	1	47	23	1 642	44 664	1 372	2 834	32 297	85 408	106 721	192 374	D
3219	Other wood product manufacturing .....	1	43	20	1 398	38 013	1 183	2 447	28 103	71 995	94 618	167 017	D
32191	Millwork .....	1	21	12	936	26 224	809	1 721	20 106	47 445	72 752	120 573	D
321918	Other millwork (including flooring) .....	—	10	7	509	13 723	445	913	11 170	25 673	57 471	83 440	D

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SACRAMENTO—Con.</b>													
322	Paper manufacturing .....	-	14	10	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	-	13	9	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	1	153	25	2 059	74 461	1 460	2 634	44 084	154 683	79 364	226 456	D
3231	Printing and related support activities .....	1	153	25	2 059	74 461	1 460	2 634	44 084	154 683	79 364	226 456	D
32311	Printing .....	1	133	24	1 937	70 308	1 364	2 462	41 513	146 365	77 856	216 571	D
323110	Commercial lithographic printing .....	-	60	15	g	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	1	27	9	563	29 649	345	647	15 559	110 006	125 703	238 331	D
326	Plastics and rubber products manufacturing .....	1	48	14	1 463	45 588	1 161	2 594	31 475	152 057	122 838	275 470	D
3261	Plastics product manufacturing ..	2	45	12	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	28	7	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	-	26	6	1 039	32 691	852	1 914	23 500	115 835	92 296	208 543	D
327	Nonmetallic mineral product manufacturing .....	1	44	19	1 205	46 024	975	1 774	34 729	131 290	119 872	250 376	10 376
3273	Cement and concrete product manufacturing .....	1	24	15	875	34 842	722	1 301	27 318	94 232	90 992	185 947	D
32732	Ready-mix concrete manufacturing .....	-	18	10	576	24 896	489	821	20 399	68 495	70 497	139 004	5 332
327320	Ready-mix concrete manufacturing .....	-	18	10	576	24 896	489	821	20 399	68 495	70 497	139 004	5 332
332	Fabricated metal product manufacturing .....	3	141	30	1 868	64 220	1 424	2 801	43 419	151 207	113 589	264 295	D
3323	Architectural and structural metals manufacturing .....	3	53	17	922	30 822	689	1 330	19 436	65 293	56 381	121 595	D
33232	Ornamental and architectural metal products manufacturing .....	2	41	13	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	2	42	15	873	36 936	576	1 217	20 000	79 488	76 302	160 067	D
334	Computer and electronic product manufacturing .....	-	54	15	3 302	157 243	1 997	3 965	64 740	547 494	622 939	1 171 677	D
3344	Semiconductor and other electronic component manufacturing .....	-	15	6	g	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	15	6	g	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing .....	-	4	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	1	11	4	f	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	2	5	3	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	2	5	3	f	D	D	D	D	D	D	D	D
335314	Relay and industrial control manufacturing .....	2	4	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	36	12	2 862	182 195	1 643	3 359	66 619	303 457	247 847	563 309	16 381
3363	Motor vehicle parts manufacturing .....	5	19	5	654	18 930	549	1 055	13 553	44 965	27 185	65 640	D
3364	Aerospace product and parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing .....	-	1	1	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

See footnotes at end of table.

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

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NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SACRAMENTO—Con.</b>													
337	Furniture and related product manufacturing .....	2	85	28	2 066	57 809	1 522	3 144	33 618	115 150	105 966	220 786	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	2	65	19	1 296	33 366	998	2 065	21 350	63 893	50 022	113 754	D
33711	Wood kitchen cabinet and countertop manufacturing ....	3	41	10	610	16 939	440	920	10 361	31 986	18 963	50 620	D
337110	Wood kitchen cabinet and countertop manufacturing ..	3	41	10	610	16 939	440	920	10 361	31 986	18 963	50 620	D
33712	Household and institutional furniture manufacturing .....	1	24	9	686	16 427	558	1 145	10 989	31 907	31 059	63 134	D
337122	Nonupholstered wood household furniture manufacturing .....	1	17	7	525	12 445	434	904	8 625	22 588	17 392	40 003	D
339	Miscellaneous manufacturing .....	1	109	20	1 901	74 047	1 161	2 256	31 276	96 464	68 724	165 797	10 106
3391	Medical equipment and supplies manufacturing .....	1	57	8	1 102	47 665	665	1 331	19 782	49 747	41 288	90 875	D
33911	Medical equipment and supplies manufacturing .....	1	57	8	1 102	47 665	665	1 331	19 782	49 747	41 288	90 875	D
339112	Surgical and medical instrument manufacturing ..	-	3	2	571	29 467	363	731	10 340	21 323	24 326	45 632	D
3399	Other miscellaneous manufacturing .....	1	52	12	799	26 382	496	925	11 494	46 717	27 436	74 922	D
<b>SAN BENITO</b>													
31-33	Manufacturing .....	1	77	26	2 607	91 702	1 865	3 709	55 053	248 787	260 953	516 436	10 917
336	Transportation equipment manufacturing .....	4	6	4	f	D	D	D	D	D	D	D	D
<b>SAN BERNARDINO</b>													
31-33	Manufacturing .....	1	2 177	711	65 565	2 218 665	49 807	99 170	1 410 442	7 234 767	7 032 398	14 298 219	567 475
311	Food manufacturing .....	-	138	44	4 401	127 633	3 430	6 681	91 021	1 234 202	886 576	2 122 349	42 358
3113	Sugar and confectionery product manufacturing .....	4	12	4	565	10 901	374	758	7 253	29 654	21 202	50 206	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	13	9	906	27 127	732	1 459	18 928	104 607	233 116	338 179	17 746
31142	Fruit and vegetable canning, pickling, and drying .....	-	10	6	554	16 316	462	979	12 561	87 635	121 243	209 327	D
3118	Bakeries and tortilla manufacturing .....	-	47	8	1 504	40 025	1 302	2 331	32 900	149 146	106 324	256 931	4 100
31181	Bread and bakery product manufacturing .....	-	40	5	f	D	D	D	D	D	D	D	D
31183	Tortilla manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
311830	Tortilla manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	-	26	8	559	20 772	411	776	13 868	693 999	221 803	914 600	13 247
321	Wood product manufacturing .....	3	104	43	3 279	84 686	2 805	5 688	61 652	175 292	252 819	431 258	9 704
3212	Veneer, plywood, and engineered wood product manufacturing ....	3	19	12	926	26 640	754	1 582	17 783	65 264	74 600	142 021	1 694
32121	Veneer, plywood, and engineered wood product manufacturing .....	3	19	12	926	26 640	754	1 582	17 783	65 264	74 600	142 021	1 694
321214	Truss manufacturing .....	4	13	10	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	3	77	29	2 253	55 513	1 960	3 931	41 685	106 182	171 224	278 401	7 638
32191	Millwork .....	4	29	13	1 321	33 303	1 161	2 363	24 796	60 567	118 061	179 988	5 170
321912	Cut stock, resawing lumber, and planing .....	-	7	3	f	D	D	D	D	D	D	D	D
32199	All other wood product manufacturing .....	1	20	8	520	14 144	445	864	10 517	30 501	33 933	64 382	1 086
322	Paper manufacturing .....	-	37	21	1 465	62 433	1 140	2 494	42 896	261 071	406 163	649 039	15 850
3222	Converted paper product manufacturing .....	-	33	18	1 238	48 975	961	2 142	32 780	176 432	316 307	474 387	D
32221	Paperboard container manufacturing .....	-	17	10	698	26 880	539	1 155	18 533	68 133	122 500	191 110	8 799
322211	Corrugated and solid fiber box manufacturing .....	-	12	7	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	2	165	21	1 678	49 432	1 232	2 391	32 769	139 743	70 287	207 853	4 380
3231	Printing and related support activities .....	2	165	21	1 678	49 432	1 232	2 391	32 769	139 743	70 287	207 853	4 380
32311	Printing .....	2	149	16	1 189	35 428	817	1 598	22 533	109 470	63 319	170 958	3 372

See footnotes at end of table.



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

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		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>SAN BERNARDINO—Con.</b>													
332	Fabricated metal product manufacturing—Con.												
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	175	30	2 233	84 653	1 707	3 278	56 679	170 474	73 907	244 575	7 170
33271	Machine shops .....	3	145	18	1 426	52 485	1 110	2 012	35 882	110 451	38 904	150 419	4 859
332710	Machine shops .....	3	145	18	1 426	52 485	1 110	2 012	35 882	110 451	38 904	150 419	4 859
33272	Turned product and screw, nut, and bolt manufacturing .....	1	30	12	807	32 168	597	1 266	20 797	60 023	35 003	94 156	2 311
332721	Precision turned product manufacturing .....	—	21	10	690	27 814	522	1 101	18 423	48 946	28 421	76 241	1 933
3328	Coating, engraving, heat treating, and allied activities .....	—	42	14	831	33 449	648	1 369	23 146	84 240	186 098	285 593	D
33281	Coating, engraving, heat treating, and allied activities ..	—	42	14	831	33 449	648	1 369	23 146	84 240	186 098	285 593	D
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	—	26	11	664	28 487	523	1 134	20 054	74 715	182 105	272 187	D
3329	Other fabricated metal product manufacturing .....	2	51	14	1 516	54 969	981	2 020	28 537	113 160	83 380	196 985	7 767
33299	All other fabricated metal product manufacturing .....	1	47	11	1 134	40 396	726	1 486	21 423	75 723	61 136	136 927	D
332999	All other miscellaneous fabricated metal product manufacturing .....	2	30	6	680	24 521	463	909	12 335	49 327	33 769	83 550	3 688
333	Machinery manufacturing .....	2	167	46	3 722	150 704	2 406	4 733	76 512	326 385	288 198	616 275	14 405
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	16	8	1 002	37 894	788	1 577	25 182	84 266	81 255	171 845	2 208
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	1	16	8	1 002	37 894	788	1 577	25 182	84 266	81 255	171 845	2 208
3335	Metalworking machinery manufacturing .....	1	57	12	768	31 232	513	942	17 322	62 441	26 295	88 946	5 883
33351	Metalworking machinery manufacturing .....	1	57	12	768	31 232	513	942	17 322	62 441	26 295	88 946	5 883
3339	Other general purpose machinery manufacturing .....	3	41	14	1 200	48 553	699	1 410	20 847	119 952	113 868	230 034	3 483
33391	Pump and compressor manufacturing .....	3	5	3	f	D	D	D	D	D	D	D	D
333911	Pump and pumping equipment manufacturing ..	3	4	3	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	3	87	22	1 583	64 923	955	1 999	27 858	163 342	86 713	249 801	4 475
3344	Semiconductor and other electronic component manufacturing .....	2	38	8	612	22 323	397	822	10 209	53 743	32 221	84 363	1 119
33441	Semiconductor and other electronic component manufacturing .....	2	38	8	612	22 323	397	822	10 209	53 743	32 221	84 363	1 119
335	Electrical equipment, appliance, and component manufacturing .....	—	39	13	1 959	62 085	1 623	3 478	41 157	197 141	186 689	383 720	9 631
3351	Electric lighting equipment manufacturing .....	—	13	7	1 534	49 016	1 287	2 763	33 525	157 317	156 181	312 972	D
33512	Lighting fixture manufacturing ..	—	13	7	1 534	49 016	1 287	2 763	33 525	157 317	156 181	312 972	D
335129	Other lighting equipment manufacturing .....	—	5	3	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	1	126	50	5 647	185 952	4 445	9 239	122 466	442 086	668 145	1 102 885	22 736
3362	Motor vehicle body and trailer manufacturing .....	—	28	13	1 986	57 408	1 734	3 720	40 541	99 429	256 497	354 981	1 783
33621	Motor vehicle body and trailer manufacturing .....	—	28	13	1 986	57 408	1 734	3 720	40 541	99 429	256 497	354 981	1 783
336213	Motor home manufacturing ..	—	3	2	f	D	D	D	D	D	D	D	D
336214	Travel trailer and camper manufacturing .....	1	10	7	1 028	30 296	881	1 896	20 090	57 600	101 280	155 372	741
3363	Motor vehicle parts manufacturing .....	1	53	18	1 811	54 990	1 383	2 865	33 316	197 975	181 204	378 808	8 612
33639	Other motor vehicle parts manufacturing .....	—	19	9	948	23 704	747	1 568	14 586	121 058	109 608	229 696	5 731
336399	All other motor vehicle parts manufacturing .....	—	19	9	948	23 704	747	1 568	14 586	121 058	109 608	229 696	5 731
3364	Aerospace product and parts manufacturing .....	1	15	10	f	D	D	D	D	D	D	D	10 705
33641	Aerospace product and parts manufacturing .....	1	15	10	f	D	D	D	D	D	D	D	10 705

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN BERNARDINO—Con.</b>													
336	Transportation equipment manufacturing—Con.												
3366	Ship and boat building	1	9	3	f	D	D	D	D	D	D	D	D
33661	Ship and boat building	1	9	3	f	D	D	D	D	D	D	D	D
336612	Boat building	1	8	3	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing	1	167	66	6 662	195 409	5 343	10 239	133 350	473 798	378 504	846 819	15 886
3371	Household and institutional furniture and kitchen cabinet manufacturing	—	'122	'40	'4 550	'125 532	'3 824	'7 346	'94 971	'284 370	'191 244	'473 612	'10 348
33711	Wood kitchen cabinet and countertop manufacturing	—	'59	'11	'1 183	'41 530	'884	'1 640	'32 639	'80 785	'32 165	'112 543	'2 234
337110	Wood kitchen cabinet and countertop manufacturing	—	'59	'11	'1 183	'41 530	'884	'1 640	'32 639	'80 785	'32 165	'112 543	'2 234
33712	Household and institutional furniture manufacturing	—	63	29	3 367	84 002	2 940	5 706	62 332	203 585	159 079	361 069	8 114
337121	Upholstered household furniture manufacturing	—	18	10	1 372	32 606	1 232	2 238	25 552	92 907	89 647	183 104	5 446
337122	Nonupholstered wood household furniture manufacturing	1	29	9	1 183	27 418	1 029	2 204	19 669	66 309	40 910	106 567	1 415
3372	Office furniture (including fixtures) manufacturing	2	'32	'18	'1 595	'51 346	'1 188	'2 285	'29 655	'119 219	'133 360	'250 511	D
33721	Office furniture (including fixtures) manufacturing	2	'32	'18	'1 595	'51 346	'1 188	'2 285	'29 655	'119 219	'133 360	'250 511	D
337215	Showcase, partition, shelving, and locker manufacturing	2	16	11	827	28 263	622	1 167	15 689	66 717	92 120	157 570	2 355
3379	Other furniture related product manufacturing	2	13	8	517	18 531	331	608	8 724	70 209	53 900	122 696	D
339	Miscellaneous manufacturing	2	175	41	3 595	123 806	2 552	5 062	64 093	407 005	208 645	625 298	11 687
3391	Medical equipment and supplies manufacturing	3	71	13	1 605	57 859	1 140	2 320	27 932	191 091	71 678	271 883	6 336
33911	Medical equipment and supplies manufacturing	3	71	13	1 605	57 859	1 140	2 320	27 932	191 091	71 678	271 883	6 336
339113	Surgical appliance and supplies manufacturing	3	13	6	988	39 868	711	1 589	19 252	113 286	40 173	161 525	4 471
3399	Other miscellaneous manufacturing	1	104	28	1 990	65 947	1 412	2 742	36 161	215 914	136 967	353 415	5 351
33999	All other miscellaneous manufacturing	2	47	13	942	31 048	670	1 290	17 732	60 421	40 534	102 125	3 278
339999	All other miscellaneous manufacturing	2	35	10	f	D	D	D	D	D	D	D	D
<b>SAN DIEGO</b>													
31-33	Manufacturing	1	3 473	928	117 125	4 915 450	68 531	132 213	2 118 100	'14 187 111	11 615 926	25 798 424	1 116 270
311	Food manufacturing	2	216	52	5 871	168 691	4 182	7 844	108 091	657 050	368 377	1 009 670	30 977
3114	Fruit and vegetable preserving and specialty food manufacturing	—	9	6	971	26 335	721	1 421	18 715	147 090	60 084	209 489	9 073
31141	Frozen food manufacturing	1	4	3	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing	—	3	3	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing	2	138	30	3 323	87 407	2 397	4 575	56 639	252 106	124 861	376 201	8 706
31181	Bread and bakery product manufacturing	1	120	23	2 778	73 392	1 974	3 776	46 175	199 576	102 189	301 008	6 378
311811	Retail bakeries	5	79	6	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries	1	38	15	1 940	58 017	1 460	2 861	37 576	164 763	80 482	244 829	5 312
3119	Other food manufacturing	4	37	8	567	15 812	444	851	10 324	50 384	51 521	100 483	5 055
31199	All other food manufacturing	3	30	6	503	13 202	397	756	8 833	40 833	41 610	81 029	4 632
312	Beverage and tobacco product manufacturing	—	22	6	1 035	32 366	332	651	11 156	242 883	142 406	381 097	46 968
3121	Beverage manufacturing	—	22	6	1 035	32 366	332	651	11 156	242 883	142 406	381 097	46 968
31211	Soft drink and ice manufacturing	—	10	4	620	26 440	290	576	10 126	229 665	133 703	359 199	44 726
312111	Soft drink manufacturing	—	2	2	f	D	D	D	D	D	D	D	D
314	Textile product mills	3	89	12	804	20 528	605	1 139	11 740	41 604	30 175	71 317	2 930
3149	Other textile product mills	3	65	10	611	16 524	454	823	9 127	31 829	22 836	54 080	2 660

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN DIEGO—Con.</b>													
315	Apparel manufacturing .....	4	139	38	3 069	65 021	2 497	4 657	41 510	143 622	113 858	256 129	3 261
3152	Cut and sew apparel manufacturing .....	4	121	31	2 540	52 768	2 074	3 939	33 639	126 208	93 646	218 410	D
31521	Cut and sew apparel contractors .....	5	85	16	g	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors .....	8	64	10	f	D	D	D	D	D	D	D	D
31522	Men's and boys' cut and sew apparel manufacturing .....	2	10	8	f	D	D	D	D	D	D	D	D
316	Leather and allied product manufacturing .....	—	23	5	522	17 621	252	408	5 543	56 191	83 750	142 887	D
321	Wood product manufacturing .....	3	68	19	1 118	31 189	854	1 716	19 569	92 276	81 137	173 380	3 308
3219	Other wood product manufacturing .....	4	58	15	869	24 131	672	1 341	15 701	67 307	57 199	124 489	2 523
322	Paper manufacturing .....	1	29	10	855	29 608	652	1 391	17 773	74 702	82 668	157 239	3 621
3222	Converted paper product manufacturing .....	1	28	10	f	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	1	10	5	564	18 771	431	924	10 945	49 520	56 543	106 086	2 677
323	Printing and related support activities .....	2	'408	'62	'5 509	'178 405	'3 950	'6 408	'111 467	'423 785	'246 068	'667 814	'25 002
3231	Printing and related support activities .....	2	'408	'62	'5 509	'178 405	'3 950	'6 408	'111 467	'423 785	'246 068	'667 814	'25 002
32311	Printing .....	2	'372	'58	'5 234	'169 413	'3 768	'6 088	'106 417	'407 874	'242 097	'647 889	'24 654
323110	Commercial lithographic printing .....	1	167	38	3 461	115 435	2 519	3 885	72 000	289 722	177 438	466 818	19 077
323113	Commercial screen printing .....	3	60	13	905	22 070	635	1 052	12 599	42 637	29 381	71 733	2 072
325	Chemical manufacturing .....	1	154	44	6 453	314 871	3 014	5 655	110 671	1 154 698	568 064	1 689 804	103 369
3254	Pharmaceutical and medicine manufacturing .....	1	67	29	4 939	254 358	2 222	4 138	83 070	830 796	317 045	1 117 271	88 285
32541	Pharmaceutical and medicine manufacturing .....	1	67	29	4 939	254 358	2 222	4 138	83 070	830 796	317 045	1 117 271	88 285
325411	Medicinal and botanical manufacturing .....	—	14	3	1 144	62 450	496	1 039	15 320	254 256	80 396	315 934	D
325412	Pharmaceutical preparation manufacturing .....	3	21	8	682	31 872	393	627	13 944	148 225	62 882	208 645	11 511
325413	In-vitro diagnostic substance manufacturing .....	—	20	15	2 721	136 506	1 202	2 235	48 232	388 278	136 406	512 732	34 809
3256	Soap, cleaning compound, and toilet preparation manufacturing .....	7	21	7	517	14 609	259	517	7 817	60 781	31 317	92 078	1 845
326	Plastics and rubber products manufacturing .....	1	146	52	6 330	214 053	4 518	7 894	107 679	544 196	422 466	964 285	32 777
3261	Plastics product manufacturing .....	1	127	46	5 881	197 985	4 269	7 364	100 446	507 283	384 413	893 664	27 472
32612	Plastics pipe, pipe fitting, and unlined profile shape manufacturing .....	1	13	7	764	30 025	560	846	16 348	51 410	37 292	89 571	2 247
326122	Plastics pipe and pipe fitting manufacturing .....	1	6	6	577	24 015	409	543	12 105	40 522	30 674	72 389	2 101
32619	Other plastics product manufacturing .....	1	91	35	4 657	152 261	3 383	5 912	74 792	433 645	308 008	743 990	23 489
326191	Plastics plumbing fixture manufacturing .....	—	6	4	1 512	34 027	1 222	1 847	17 875	126 511	107 682	234 873	3 728
326199	All other plastics product manufacturing .....	2	85	31	3 145	118 234	2 161	4 065	56 917	307 134	200 326	509 117	19 761
327	Nonmetallic mineral product manufacturing .....	2	102	26	2 384	79 261	1 944	4 149	59 350	246 398	217 979	463 472	12 862
3273	Cement and concrete product manufacturing .....	2	42	13	1 226	45 436	1 082	2 468	37 769	177 357	184 610	360 968	9 882
32732	Ready-mix concrete manufacturing .....	2	28	7	534	24 410	465	1 022	20 362	116 740	143 249	260 054	4 754
327320	Ready-mix concrete manufacturing .....	2	28	7	534	24 410	465	1 022	20 362	116 740	143 249	260 054	4 754
32739	Other concrete product manufacturing .....	—	7	2	513	13 651	469	1 105	11 502	37 452	7 023	44 131	1 540
327390	Other concrete product manufacturing .....	—	7	2	513	13 651	469	1 105	11 502	37 452	7 023	44 131	1 540

See footnotes at end of table.

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

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NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN DIEGO—Con.</b>													
332	Fabricated metal product manufacturing .....	1	498	129	9 736	366 295	7 075	14 118	229 612	773 508	431 371	1 199 122	39 410
3321	Forging and stamping.....	—	14	7	584	30 157	304	658	10 644	53 232	43 043	93 703	1 938
33211	Forging and stamping.....	—	14	7	584	30 157	304	658	10 644	53 232	43 043	93 703	1 938
3322	Cutlery and handtool manufacturing .....	1	17	4	564	19 014	439	670	11 644	44 441	20 193	65 413	2 578
33221	Cutlery and handtool manufacturing .....	1	17	4	564	19 014	439	670	11 644	44 441	20 193	65 413	2 578
3323	Architectural and structural metals manufacturing .....	1	109	32	3 347	130 103	2 327	4 922	81 188	286 380	177 158	462 207	12 206
33231	Plate work and fabricated structural product manufacturing .....	—	30	12	1 258	59 807	912	2 065	39 490	125 084	74 391	198 441	5 278
332312	Fabricated structural metal manufacturing .....	—	24	9	944	44 310	706	1 580	31 098	87 368	62 443	148 414	4 200
33232	Ornamental and architectural metal products manufacturing .....	1	79	20	2 089	70 296	1 415	2 857	41 698	161 296	102 767	263 766	6 928
332322	Sheet metal work manufacturing .....	—	46	17	1 477	49 137	1 014	2 055	30 928	107 784	71 364	179 314	4 813
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	236	51	3 454	124 589	2 643	5 248	87 021	267 153	95 176	362 176	18 520
33271	Machine shops .....	2	199	34	2 401	88 857	1 798	3 528	61 831	189 619	73 812	263 621	11 796
332710	Machine shops .....	2	199	34	2 401	88 857	1 798	3 528	61 831	189 619	73 812	263 621	11 796
33272	Turned product and screw, nut, and bolt manufacturing .....	—	37	17	1 053	35 732	845	1 720	25 190	77 534	21 364	98 555	6 724
332721	Precision turned product manufacturing .....	—	35	17	g	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities .....	2	55	15	706	22 703	552	986	14 445	37 555	16 137	53 760	885
33281	Coating, engraving, heat treating, and allied activities ..	2	55	15	706	22 703	552	986	14 445	37 555	16 137	53 760	885
3329	Other fabricated metal product manufacturing .....	2	41	12	673	25 016	515	1 048	16 119	48 637	32 958	80 318	2 174
33299	All other fabricated metal product manufacturing .....	2	37	10	595	21 405	457	946	13 320	42 742	29 551	70 975	2 080
332999	All other miscellaneous fabricated metal product manufacturing .....	2	30	8	520	18 992	410	847	11 800	37 714	23 656	60 053	1 851
333	Machinery manufacturing .....	—	198	58	8 905	363 041	4 709	9 219	158 787	1 138 353	1 264 847	2 417 520	37 043
3332	Industrial machinery manufacturing .....	1	40	16	2 187	96 627	990	1 712	29 431	165 939	147 992	322 838	5 610
33329	Other industrial machinery manufacturing .....	—	32	15	2 127	94 040	953	1 637	28 396	160 521	143 210	312 667	5 445
333295	Semiconductor machinery manufacturing .....	1	7	6	1 261	61 665	453	652	14 146	86 723	92 925	187 383	4 080
3333	Commercial and service industry machinery manufacturing .....	—	38	10	892	38 669	464	937	11 413	152 767	218 892	367 295	19 085
33331	Commercial and service industry machinery manufacturing .....	—	38	10	892	38 669	464	937	11 413	152 767	218 892	367 295	19 085
333319	Other commercial and service industry machinery manufacturing .....	1	20	4	547	19 770	317	643	6 660	75 185	46 906	117 594	2 584
3335	Metalworking machinery manufacturing .....	1	49	9	f	D	D	D	D	D	D	D	2 084
33351	Metalworking machinery manufacturing .....	1	49	9	f	D	D	D	D	D	D	D	2 084
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	8	3	h	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	8	3	h	D	D	D	D	D	D	D	D
333611	Turbine and turbine generator set units manufacturing .....	—	2	2	h	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	2	39	14	1 304	50 432	855	1 760	21 751	110 398	96 533	206 681	5 369
33399	All other general purpose machinery manufacturing ....	3	29	10	1 062	40 342	712	1 511	18 103	85 161	70 402	154 322	4 585
333999	All other miscellaneous general purpose machinery manufacturing .....	3	19	8	944	34 156	639	1 359	14 897	75 701	59 676	133 749	4 394

See footnotes at end of table.



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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN DIEGO—Con.</b>													
334	Computer and electronic product manufacturing .....	—	406	175	27 306	1 414 622	11 712	22 902	397 650	3 903 202	4 551 276	8 487 737	408 387
3341	Computer and peripheral equipment manufacturing .....	—	50	22	6 728	408 731	1 871	3 497	77 954	1 356 382	2 141 090	3 545 672	201 601
33411	Computer and peripheral equipment manufacturing ....	—	50	22	6 728	408 731	1 871	3 497	77 954	1 356 382	2 141 090	3 545 672	201 601
334111	Electronic computer manufacturing .....	—	14	7	h	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	2	33	14	h	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	—	60	37	4 844	273 666	1 761	3 591	65 042	1 022 292	1 086 578	2 087 857	D
33421	Telephone apparatus manufacturing .....	1	12	6	758	47 088	174	392	11 129	62 578	56 186	121 875	4 794
334210	Telephone apparatus manufacturing .....	1	12	6	758	47 088	174	392	11 129	62 578	56 186	121 875	4 794
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	37	25	3 533	201 262	1 404	2 855	49 298	842 301	917 294	1 736 113	36 756
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	37	25	3 533	201 262	1 404	2 855	49 298	842 301	917 294	1 736 113	36 756
33429	Other communications equipment manufacturing ....	—	11	6	553	25 316	183	344	4 615	117 413	113 098	229 869	D
334290	Other communications equipment manufacturing ..	—	11	6	553	25 316	183	344	4 615	117 413	113 098	229 869	D
3344	Semiconductor and other electronic component manufacturing .....	—	144	67	8 855	367 697	5 569	10 886	171 009	670 980	682 861	1 367 021	130 314
33441	Semiconductor and other electronic component manufacturing .....	—	144	67	8 855	367 697	5 569	10 886	171 009	670 980	682 861	1 367 021	130 314
334412	Bare printed circuit board manufacturing .....	—	26	9	998	35 215	751	1 644	21 568	89 006	83 500	175 685	4 027
334413	Semiconductor and related device manufacturing .....	—	21	13	2 064	99 651	1 289	2 119	42 172	162 767	303 538	483 511	D
334414	Electronic capacitor manufacturing .....	1	5	3	f	D	D	D	D	D	D	D	D
334417	Electronic connector manufacturing .....	—	9	7	1 148	34 260	847	1 741	25 536	71 542	37 665	111 000	1 912
334418	Printed circuit assembly (electronic assembly) manufacturing .....	1	22	15	993	41 733	645	1 348	21 661	81 661	76 472	158 364	4 238
334419	Other electronic component manufacturing .....	—	53	18	2 870	128 126	1 567	3 086	47 257	211 030	148 005	350 231	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	2	121	43	6 229	335 328	2 073	3 912	68 623	764 681	505 297	1 262 853	27 796
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	2	121	43	6 229	335 328	2 073	3 912	68 623	764 681	505 297	1 262 853	27 796
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	5	18	12	1 410	73 186	597	1 189	17 712	128 394	92 476	221 332	3 725
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	17	7	2 640	147 976	619	954	20 169	246 024	158 325	404 797	12 705
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	4	19	6	522	25 505	191	377	6 625	61 447	49 735	110 674	1 878
334519	Other measuring and controlling device manufacturing .....	—	16	6	606	36 132	150	293	5 195	76 086	32 785	109 906	1 027
335	Electrical equipment, appliance, and component manufacturing .....	2	71	34	3 128	142 982	1 704	3 472	53 726	435 208	264 209	679 864	78 877
3353	Electrical equipment manufacturing .....	3	19	12	922	38 461	596	1 177	17 562	82 830	51 671	138 409	D
33531	Electrical equipment manufacturing .....	3	19	12	922	38 461	596	1 177	17 562	82 830	51 671	138 409	D
3359	Other electrical equipment and component manufacturing .....	1	36	17	1 934	92 519	967	2 005	31 957	326 213	192 809	495 263	D
33599	All other electrical equipment and component manufacturing .....	1	19	11	1 474	78 854	640	1 357	23 869	295 610	143 231	416 005	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	1	19	11	1 474	78 854	640	1 357	23 869	295 610	143 231	416 005	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN FRANCISCO—Con.</b>													
315	Apparel manufacturing .....	7	183	68	5 572	134 518	3 910	7 342	67 235	958 242	1 251 023	2 164 484	D
3152	Cut and sew apparel manufacturing .....	8	168	63	4 842	111 426	3 405	6 201	56 622	928 723	1 203 286	2 085 168	4 258
31521	Cut and sew apparel contractors .....	4	118	41	g	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors .....	3	112	40	g	D	D	D	D	D	D	D	D
31522	Men's and boys' cut and sew apparel manufacturing .....	9	15	7	f	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing .....	—	26	14	g	D	D	D	D	D	D	D	D
315232	Women's and girls' cut and sew blouse and shirt manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
315233	Women's and girls' cut and sew dress manufacturing .....	1	7	3	514	15 214	170	293	3 235	56 537	60 576	119 418	D
323	Printing and related support activities .....	2	207	26	2 090	86 155	1 451	2 653	52 542	168 555	81 175	250 531	7 744
3231	Printing and related support activities .....	2	207	26	2 090	86 155	1 451	2 653	52 542	168 555	81 175	250 531	7 744
32311	Printing .....	3	179	19	1 548	58 269	1 097	2 039	35 555	121 345	66 367	187 765	D
323110	Commercial lithographic printing .....	2	86	9	775	31 794	546	1 034	18 989	60 735	42 111	102 968	1 176
32312	Support activities for printing .....	—	28	7	542	27 886	354	614	16 987	47 210	14 808	62 766	D
332	Fabricated metal product manufacturing .....	6	67	5	718	25 967	530	1 042	16 043	46 409	32 654	78 541	1 354
334	Computer and electronic product manufacturing .....	4	29	8	1 113	43 601	456	909	11 251	90 569	83 600	171 396	3 216
3344	Semiconductor and other electronic component manufacturing .....	—	6	2	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	—	6	2	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	3	82	21	1 129	40 083	826	1 703	23 387	92 959	45 869	138 577	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	65	15	819	28 883	588	1 229	16 196	72 454	37 318	109 205	D
33712	Household and institutional furniture manufacturing .....	2	47	10	565	17 881	445	892	12 273	51 667	25 631	76 587	D
339	Miscellaneous manufacturing .....	6	95	10	1 003	29 427	755	1 428	19 309	107 396	80 781	188 770	2 686
3399	Other miscellaneous manufacturing .....	6	57	9	835	23 412	635	1 187	15 269	95 991	77 557	174 234	2 400
<b>SAN JOAQUIN</b>													
31-33	Manufacturing .....	1	609	222	23 274	844 306	17 704	35 571	579 578	3 515 538	3 003 287	6 481 720	220 366
311	Food manufacturing .....	1	83	41	7 377	263 096	5 846	11 720	193 664	1 455 110	1 066 208	2 516 834	92 613
3112	Grain and oilseed milling .....	—	4	3	629	37 349	501	1 012	29 293	660 542	227 001	887 524	D
31123	Breakfast cereal manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	5	18	15	h	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	5	16	13	3 031	105 384	2 583	5 234	81 393	174 433	403 169	583 280	35 024
311421	Fruit and vegetable canning .....	5	16	13	3 031	105 384	2 583	5 234	81 393	174 433	403 169	583 280	35 024
3116	Animal slaughtering and processing .....	1	9	6	571	16 739	474	1 083	12 829	118 411	50 284	168 554	5 997
31161	Animal slaughtering and processing .....	1	9	6	571	16 739	474	1 083	12 829	118 411	50 284	168 554	5 997
3118	Bakeries and tortilla manufacturing .....	4	22	6	712	19 553	607	837	15 023	38 914	38 589	77 923	2 386
31181	Bread and bakery product manufacturing .....	4	20	5	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	4	6	3	543	16 181	503	670	13 047	31 309	34 026	65 755	1 939
3119	Other food manufacturing .....	—	10	6	1 340	47 509	1 046	2 331	29 625	322 364	65 939	379 033	13 255
31191	Snack food manufacturing .....	—	4	3	729	26 114	511	1 100	13 417	239 319	21 412	251 488	D
311911	Roasted nuts and peanut butter manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing .....	—	4	3	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 <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>SAN JOAQUIN—Con.</b>													
312	Beverage and tobacco product manufacturing .....	-	19	8	1 158	45 028	776	1 440	33 094	461 011	384 301	819 631	38 920
3121	Beverage manufacturing .....	-	19	8	1 158	45 028	776	1 440	33 094	461 011	384 301	819 631	38 920
31213	Wineries .....	-	18	7	g	D	D	D	D	D	D	D	D
312130	Wineries .....	-	18	7	g	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	2	29	14	1 495	48 945	1 156	2 203	31 766	101 205	165 872	263 067	4 508
3219	Other wood product manufacturing .....	1	25	10	1 145	37 724	841	1 778	23 112	81 484	138 426	215 972	3 741
32191	Millwork .....	1	12	6	631	17 593	481	1 041	11 682	44 741	91 289	136 943	1 598
322	Paper manufacturing .....	-	14	13	1 140	49 178	902	1 983	33 588	154 966	233 701	384 345	11 201
3222	Converted paper product manufacturing .....	-	11	10	779	32 241	618	1 354	21 704	98 906	165 790	261 542	7 487
32221	Paperboard container manufacturing .....	-	11	10	779	32 241	618	1 354	21 704	98 906	165 790	261 542	7 487
322211	Corrugated and solid fiber box manufacturing .....	-	9	8	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	2	20	7	575	24 497	354	764	13 223	118 135	97 966	216 790	4 049
326	Plastics and rubber products manufacturing .....	-	44	22	1 921	62 856	1 546	3 022	45 911	231 943	221 601	457 018	13 844
3261	Plastics product manufacturing ..	-	34	19	1 674	55 166	1 361	2 707	40 905	215 766	210 872	430 357	12 837
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing .....	-	6	5	558	17 629	462	777	12 959	75 485	86 806	165 529	3 037
32619	Other plastics product manufacturing .....	-	21	8	597	19 579	437	969	12 489	54 522	41 901	98 202	4 989
326199	All other plastics product manufacturing .....	-	17	7	529	16 998	373	831	10 066	45 012	39 858	86 551	4 891
327	Nonmetallic mineral product manufacturing .....	-	32	16	1 474	60 373	1 134	2 367	44 111	270 212	179 422	448 417	8 054
3272	Glass and glass product manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	1	19	11	735	24 548	533	1 084	15 792	96 796	75 587	170 621	2 468
332	Fabricated metal product manufacturing .....	2	111	31	2 717	99 516	2 073	4 268	66 749	271 863	307 679	587 131	12 965
3323	Architectural and structural metals manufacturing .....	1	33	18	1 602	57 574	1 213	2 517	36 610	158 910	161 371	327 912	4 940
33231	Plate work and fabricated structural product manufacturing .....	1	19	12	1 287	46 916	970	2 001	29 873	134 945	147 395	288 469	4 166
332312	Fabricated structural metal manufacturing .....	1	14	8	1 049	38 402	777	1 608	23 611	113 851	115 810	235 710	3 662
333	Machinery manufacturing .....	1	39	15	758	30 831	474	866	16 617	65 099	36 375	96 835	4 305
336	Transportation equipment manufacturing .....	-	21	12	1 204	42 978	921	1 977	30 649	115 140	79 552	190 486	4 804
3363	Motor vehicle parts manufacturing .....	-	12	6	745	26 290	524	1 137	16 942	77 741	65 030	139 236	3 224
337	Furniture and related product manufacturing .....	1	47	18	1 636	54 168	1 292	2 588	36 297	135 692	101 779	232 933	11 482
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	29	9	1 071	33 279	876	1 786	22 782	76 947	50 371	123 169	9 525
33711	Wood kitchen cabinet and countertop manufacturing ....	1	22	6	597	20 061	489	1 040	14 190	41 705	19 561	57 280	D
337110	Wood kitchen cabinet and countertop manufacturing ..	1	22	6	597	20 061	489	1 040	14 190	41 705	19 561	57 280	D
339	Miscellaneous manufacturing .....	5	51	8	676	22 359	470	885	11 964	38 998	35 692	74 784	1 631
3399	Other miscellaneous manufacturing .....	5	32	5	503	16 798	337	620	8 708	25 641	31 155	56 890	1 162

See footnotes at end of table.

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

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NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN LUIS OBISPO</b>													
31-33	Manufacturing .....	3	383	80	6 867	245 294	4 379	8 305	121 875	'614 992	'573 215	1 174 650	59 166
312	Beverage and tobacco product manufacturing .....	2	46	13	778	22 761	392	814	12 420	107 150	102 950	202 466	29 363
3121	Beverage manufacturing .....	2	46	13	778	22 761	392	814	12 420	107 150	102 950	202 466	29 363
31213	Wineries .....	2	41	11	724	20 619	342	706	10 480	101 093	95 439	189 540	D
312130	Wineries .....	2	41	11	724	20 619	342	706	10 480	101 093	95 439	189 540	D
323	Printing and related support activities .....	—	41	9	727	26 892	499	883	16 113	'53 859	'57 394	106 875	6 833
3231	Printing and related support activities .....	—	41	9	727	26 892	499	883	16 113	'53 859	'57 394	106 875	6 833
32311	Printing .....	—	41	9	727	26 892	499	883	16 113	'53 859	'57 394	106 875	6 833
332	Fabricated metal product manufacturing .....	1	57	10	858	24 508	645	1 193	16 179	92 431	59 952	152 550	1 680
333	Machinery manufacturing .....	6	18	5	631	29 027	265	539	7 579	60 370	59 213	122 004	1 949
334	Computer and electronic product manufacturing .....	4	24	7	977	41 081	527	1 020	14 331	56 113	63 683	118 980	D
339	Miscellaneous manufacturing .....	5	39	7	753	24 453	530	982	13 088	70 556	30 209	100 611	1 642
<b>SAN MATEO</b>													
31-33	Manufacturing .....	2	'858	'221	'29 309	'1 476 115	14 444	27 538	'499 533	'5 814 332	'2 487 176	'8 304 922	'392 478
311	Food manufacturing .....	3	103	34	3 845	121 586	2 520	4 701	68 229	538 907	370 151	910 599	D
3113	Sugar and confectionery product manufacturing .....	—	6	4	g	D	D	D	D	D	D	D	D
31133	Confectionery manufacturing from purchased chocolate .....	—	4	2	f	D	D	D	D	D	D	D	D
311330	Confectionery manufacturing from purchased chocolate .....	—	4	2	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	6	54	16	g	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	6	50	14	1 752	43 508	952	1 603	21 782	251 687	69 114	321 044	D
311811	Retail bakeries .....	1	36	7	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	6	12	6	769	23 675	439	767	11 448	205 941	43 397	249 585	3 708
323	Printing and related support activities .....	2	137	36	2 577	106 625	1 702	3 250	60 401	199 922	126 294	326 941	6 110
3231	Printing and related support activities .....	2	137	36	2 577	106 625	1 702	3 250	60 401	199 922	126 294	326 941	6 110
32311	Printing .....	2	121	31	2 026	85 618	1 336	2 510	48 946	168 092	112 852	281 062	D
323110	Commercial lithographic printing .....	1	56	20	1 279	56 803	827	1 567	31 761	110 326	79 479	189 357	2 549
32312	Support activities for printing .....	—	16	5	551	21 007	366	740	11 455	31 830	13 442	45 879	D
325	Chemical manufacturing .....	—	41	16	i	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	—	18	10	i	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	—	18	10	i	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	—	4	3	i	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	8	26	7	1 698	78 842	1 083	1 978	44 336	187 931	151 883	338 323	5 075
3261	Plastics product manufacturing .....	9	23	7	g	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing .....	9	2	1	g	D	D	D	D	D	D	D	D
326121	Unlaminated plastics profile shape manufacturing .....	9	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	3	161	27	2 163	94 519	1 617	3 194	61 295	216 881	124 079	340 045	5 920
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	82	10	1 008	46 575	777	1 560	32 758	104 151	55 767	159 007	D
33271	Machine shops .....	4	70	6	f	D	D	D	D	D	D	D	D
332710	Machine shops .....	4	70	6	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	6	43	8	708	34 496	383	792	13 812	81 484	46 368	125 691	D

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN MATEO—Con.</b>													
334	Computer and electronic product manufacturing .....	1	65	26	5 361	320 761	1 930	3 842	72 398	909 528	812 760	1 705 459	87 243
3342	Communications equipment manufacturing .....	4	15	6	g	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	4	11	5	g	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	4	11	5	g	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	—	17	9	g	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	—	17	9	g	D	D	D	D	D	D	D	D
334411	Electron tube manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	25	9	3 045	213 206	578	1 188	27 871	749 186	644 779	1 383 218	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	25	9	3 045	213 206	578	1 188	27 871	749 186	644 779	1 383 218	D
334510	Electromedical and electrotherapeutic apparatus manufacturing .....	3	4	3	f	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing .....	—	5	2	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	12	5	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	—	7	4	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	4	69	13	757	25 861	574	1 142	16 119	50 255	28 625	77 918	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	53	8	511	16 774	390	794	11 093	30 748	15 099	44 949	D
339	Miscellaneous manufacturing .....	1	'91	'19	'2 218	'122 672	809	1 551	26 128	'289 693	'70 482	'358 196	'12 511
3391	Medical equipment and supplies manufacturing .....	—	53	8	1 600	104 957	363	776	16 275	257 634	44 924	298 721	11 444
33911	Medical equipment and supplies manufacturing .....	—	53	8	1 600	104 957	363	776	16 275	257 634	44 924	298 721	11 444
339112	Surgical and medical instrument manufacturing .....	—	7	5	877	60 854	203	449	10 325	111 162	33 581	139 717	7 923
3399	Other miscellaneous manufacturing .....	'5	'38	'11	'618	'17 715	446	775	9 853	'32 059	'25 558	'59 475	'1 067
<b>SANTA BARBARA</b>													
31-33	Manufacturing .....	2	532	130	15 275	692 286	8 026	15 547	263 562	1 773 463	908 529	2 677 224	121 593
311	Food manufacturing .....	—	39	10	886	20 939	676	1 260	14 530	89 151	81 249	170 342	2 258
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing .....	—	3	3	525	12 236	463	906	9 769	64 074	63 657	127 731	1 127
311411	Frozen fruit, juice, and vegetable manufacturing .....	—	3	3	525	12 236	463	906	9 769	64 074	63 657	127 731	1 127
325	Chemical manufacturing .....	—	13	5	1 441	51 026	599	775	17 687	157 000	51 827	214 859	58 972
3256	Soap, cleaning compound, and toilet preparation manufacturing .....	1	6	2	660	22 120	345	266	7 510	96 980	23 002	123 675	D
32561	Soap and cleaning compound manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
325611	Soap and other detergent manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	20	8	876	27 593	654	1 285	15 042	71 600	51 189	124 009	3 294
3261	Plastics product manufacturing .....	1	14	6	670	19 721	530	999	12 056	53 676	41 252	96 966	2 704
32619	Other plastics product manufacturing .....	1	9	4	572	16 327	448	820	9 414	46 114	33 542	81 173	2 576
326199	All other plastics product manufacturing .....	1	8	4	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>SANTA BARBARA—Con.</b>													
332	Fabricated metal product manufacturing .....	2	62	8	625	27 350	493	984	19 508	57 134	20 480	77 667	3 326
333	Machinery manufacturing .....	2	39	11	806	37 550	442	900	16 198	71 691	48 875	118 882	2 819
334	Computer and electronic product manufacturing .....	1	67	29	4 408	277 617	1 505	3 153	68 552	636 951	295 538	927 672	15 753
3344	Semiconductor and other electronic component manufacturing .....	3	23	9	645	33 590	422	801	17 536	67 347	25 230	93 807	D
33441	Semiconductor and other electronic component manufacturing .....	3	23	9	645	33 590	422	801	17 536	67 347	25 230	93 807	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	27	12	3 179	210 038	825	1 812	40 063	508 727	222 906	725 596	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	27	12	3 179	210 038	825	1 812	40 063	508 727	222 906	725 596	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	5	4	g	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing ..	—	6	3	733	47 233	90	169	6 400	67 905	28 944	96 721	1 659
335	Electrical equipment, appliance, and component manufacturing .....	2	17	9	877	25 853	411	841	12 430	72 856	68 038	141 971	2 464
3353	Electrical equipment manufacturing .....	4	8	4	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	4	8	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	3	22	5	530	29 405	303	617	13 501	60 561	47 518	106 922	5 521
339	Miscellaneous manufacturing .....	6	79	15	2 811	132 577	1 678	3 348	52 743	408 864	108 577	513 299	17 855
3391	Medical equipment and supplies manufacturing .....	6	38	11	2 300	118 316	1 367	2 727	45 355	373 235	92 203	462 151	14 490
33911	Medical equipment and supplies manufacturing .....	6	38	11	2 300	118 316	1 367	2 727	45 355	373 235	92 203	462 151	14 490
339112	Surgical and medical instrument manufacturing ..	5	8	4	1 372	63 185	868	1 717	27 305	219 485	67 886	284 726	9 250
339113	Surgical appliance and supplies manufacturing .....	8	11	5	773	47 065	430	895	15 673	139 009	20 109	158 082	4 571
3399	Other miscellaneous manufacturing .....	3	41	4	511	14 261	311	621	7 388	35 629	16 374	51 148	3 365
<b>SANTA CLARA</b>													
31-33	Manufacturing .....	1	'2 981	'963	'170 990	'10 056 588	72 974	135 639	2 883 944	'26 640 059	'19 783 178	'47 110 263	'2 549 187
311	Food manufacturing .....	1	157	33	2 980	92 750	2 257	4 030	67 266	371 079	353 555	762 728	13 383
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	15	7	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	—	11	4	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	2	91	11	f	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	2	84	10	f	D	D	D	D	D	D	D	D
311811	Retail bakeries .....	3	69	7	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	—	24	12	g	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	—	21	10	907	37 449	679	1 391	24 832	86 653	160 466	248 927	D
32221	Paperboard container manufacturing .....	—	11	10	828	34 468	626	1 289	23 088	79 006	154 132	234 863	D
322211	Corrugated and solid fiber box manufacturing .....	—	7	7	f	D	D	D	D	D	D	D	7 001
323	Printing and related support activities .....	3	236	21	h	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	3	236	21	h	D	D	D	D	D	D	D	D
32311	Printing .....	3	210	19	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	2	98	7	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]

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SANTA CLARA—Con.</b>													
325	Chemical manufacturing .....	1	58	21	h	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	1	20	13	3 539	171 496	2 019	3 289	73 875	361 756	146 375	518 190	77 009
32541	Pharmaceutical and medicine manufacturing .....	1	20	13	3 539	171 496	2 019	3 289	73 875	361 756	146 375	518 190	77 009
325412	Pharmaceutical preparation manufacturing .....	—	8	6	3 085	143 117	1 797	2 818	62 312	235 613	105 255	341 352	D
326	Plastics and rubber products manufacturing .....	4	50	14	g	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	4	44	13	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	6	36	10	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	6	33	9	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	'3	'65	'30	'2 127	'93 424	'1 660	'3 477	'66 086	'319 494	'193 974	'511 563	'14 799
3273	Cement and concrete product manufacturing .....	4	26	17	g	D	D	D	D	D	D	D	9 008
3279	Other nonmetallic mineral product manufacturing .....	1	15	6	656	27 655	548	1 192	21 412	86 388	35 610	120 806	D
32799	All other nonmetallic mineral product manufacturing .....	1	13	4	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	6	25	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	3	648	150	10 614	424 847	7 900	15 585	272 093	817 657	419 120	1 248 552	D
3323	Architectural and structural metals manufacturing .....	2	99	34	h	D	D	D	D	D	D	D	D
33232	Ornamental and architectural metal products manufacturing .....	2	81	30	h	D	D	D	D	D	D	D	D
332322	Sheet metal work manufacturing .....	3	65	25	g	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	381	68	h	D	D	D	D	D	D	D	22 335
33271	Machine shops .....	4	338	52	h	D	D	D	D	D	D	D	18 777
332710	Machine shops .....	4	338	52	h	D	D	D	D	D	D	D	18 777
33272	Turned product and screw, nut, and bolt manufacturing .....	1	43	16	f	D	D	D	D	D	D	D	3 558
332721	Precision turned product manufacturing .....	1	40	16	f	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, and allied activities .....	3	91	29	1 395	47 754	1 134	1 998	33 295	83 704	29 787	115 347	5 412
33281	Coating, engraving, heat treating, and allied activities ..	3	91	29	1 395	47 754	1 134	1 998	33 295	83 704	29 787	115 347	5 412
332813	Electroplating, plating, polishing, anodizing, and coloring .....	2	57	22	994	34 247	827	1 459	23 889	60 009	18 722	80 602	3 954
333	Machinery manufacturing .....	1	199	67	j	D	D	D	D	D	D	D	D
3332	Industrial machinery manufacturing .....	1	91	43	j	D	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing .....	1	88	43	j	D	D	D	D	D	D	D	D
333295	Semiconductor machinery manufacturing .....	1	54	32	12 910	853 933	3 857	4 152	180 269	1 296 060	1 632 545	2 902 692	173 407
333298	All other industrial machinery manufacturing .....	'2	'21	'8	f	D	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing .....	4	36	10	1 008	62 533	418	758	16 730	79 486	50 312	126 004	7 839
33331	Commercial and service industry machinery manufacturing .....	4	36	10	1 008	62 533	418	758	16 730	79 486	50 312	126 004	7 839
333314	Optical instrument and lens manufacturing .....	1	22	7	635	47 930	191	323	10 100	39 906	31 929	68 659	6 682
3335	Metalworking machinery manufacturing .....	4	47	7	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery manufacturing .....	4	47	7	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, and power transmission equipment manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
333611	Turbine and turbine generator set units manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D

See footnotes at end of table.



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		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)				
<b>SANTA CLARA—Con.</b>												
333	Machinery manufacturing—Con.											
3339	Other general purpose machinery manufacturing .....	7	20	5	f	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	7	15	4	672	30 067	159	241	5 336	27 317	35 560	63 039
333999	All other miscellaneous general purpose machinery manufacturing .....	9	6	2	520	23 636	65	96	2 179	14 658	24 605	39 898
334	Computer and electronic product manufacturing .....	1	883	455	96 510	6 076 156	36 616	68 603	1 550 899	18 076 671	12 585 422	31 292 288
3341	Computer and peripheral equipment manufacturing .....	—	115	40	11 886	856 487	3 085	5 600	132 626	2 392 255	2 132 582	4 588 951
33411	Computer and peripheral equipment manufacturing ....	—	115	40	11 886	856 487	3 085	5 600	132 626	2 392 255	2 132 582	4 588 951
334111	Electronic computer manufacturing .....	1	38	17	2 120	131 833	401	678	15 224	432 262	417 550	863 581
334112	Computer storage device manufacturing .....	—	21	9	8 562	660 355	2 229	3 821	101 587	1 833 617	1 596 029	3 478 866
334119	Other computer peripheral equipment manufacturing ..	6	53	13	g	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	1	132	89	j	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing .....	—	57	45	10 142	693 607	2 384	3 838	95 999	5 173 507	3 591 755	9 140 897
334210	Telephone apparatus manufacturing .....	—	57	45	10 142	693 607	2 384	3 838	95 999	5 173 507	3 591 755	9 140 897
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	2	67	40	7 242	470 356	3 454	5 506	199 662	722 922	1 088 916	1 917 858
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	2	67	40	7 242	470 356	3 454	5 506	199 662	722 922	1 088 916	1 917 858
3344	Semiconductor and other electronic component manufacturing .....	1	411	208	37 152	2 094 430	18 551	35 853	714 441	5 924 037	3 330 692	9 259 865
33441	Semiconductor and other electronic component manufacturing .....	—	411	208	37 152	2 094 430	18 551	35 853	714 441	5 924 037	3 330 692	9 259 865
334411	Electron tube manufacturing .....	1	4	1	f	D	D	D	D	D	D	D
334412	Bare printed circuit board manufacturing .....	2	62	29	h	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing .....	—	174	90	23 612	1 535 810	10 198	19 533	432 658	4 807 771	1 768 645	6 486 912
334417	Electronic connector manufacturing .....	4	17	7	628	23 662	390	715	13 462	26 943	11 091	38 348
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	63	48	6 110	238 175	3 448	6 522	94 934	515 505	1 161 902	1 753 845
334419	Other electronic component manufacturing .....	1	77	28	h	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	1	182	104	k	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	1	182	104	k	D	D	D	D	D	D	D
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	3	21	15	4 877	283 837	2 451	4 837	96 112	615 234	342 535	980 378
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	4	11	6	g	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	5	24	11	936	49 051	439	823	15 917	84 789	58 198	152 855
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	—	76	45	11 168	766 075	1 993	4 134	103 476	1 140 975	652 225	1 830 950
334516	Analytical laboratory instrument manufacturing ..	—	23	12	4 500	339 636	1 550	2 987	78 176	820 043	444 285	1 269 572
334517	Irradiation apparatus manufacturing .....	—	8	5	3 257	207 544	722	1 105	42 349	517 279	515 419	1 033 587
334519	Other measuring and controlling device manufacturing .....	—	15	8	g	D	D	D	D	D	D	D
3346	Manufacturing and reproducing magnetic and optical media.....	—	35	11	1 730	74 365	1 151	2 303	33 340	229 146	146 733	385 704
33461	Manufacturing and reproducing magnetic and optical media...	—	35	11	1 730	74 365	1 151	2 303	33 340	229 146	146 733	385 704
334613	Magnetic and optical recording media manufacturing .....	—	14	5	1 398	60 746	938	1 886	27 330	200 653	131 977	342 463

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SANTA CLARA—Con.</b>													
335	Electrical equipment, appliance, and component manufacturing .....	1	78	24	h	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	1	20	7	f	D	D	D	D	D	D	D	622
33531	Electrical equipment manufacturing .....	1	20	7	f	D	D	D	D	D	D	D	622
3359	Other electrical equipment and component manufacturing .....	1	52	15	3 174	136 349	1 906	3 561	54 126	326 360	151 672	485 296	27 506
33599	All other electrical equipment and component manufacturing .....	1	36	11	2 635	122 043	1 516	3 131	47 205	296 781	129 223	434 485	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	1	33	11	h	D	D	D	D	D	D	D	20 508
336	Transportation equipment manufacturing .....	—	41	10	j	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	—	7	2	i	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	7	2	i	D	D	D	D	D	D	D	D
336414	Guided missile and space vehicle manufacturing .....	—	1	1	i	D	D	D	D	D	D	D	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	—	7	3	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing .....	—	7	3	g	D	D	D	D	D	D	D	D
336992	Military armored vehicle, tank, and tank component manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	2	123	17	1 507	54 872	1 045	2 007	30 568	95 486	70 930	166 378	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	97	12	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet and countertop manufacturing .....	2	55	5	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing ..	2	55	5	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	1	273	72	j	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing .....	1	163	48	i	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	1	163	48	i	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	—	44	28	7 356	392 740	1 874	3 824	61 093	1 373 493	777 678	2 165 436	93 410
339113	Surgical appliance and supplies manufacturing .....	1	14	7	555	26 660	258	493	8 688	32 287	21 893	53 260	1 310
339116	Dental laboratories .....	8	87	6	1 426	42 942	1 039	1 967	30 753	73 080	15 910	88 876	2 557
3399	Other miscellaneous manufacturing .....	3	110	24	g	D	D	D	D	D	D	D	D
33995	Sign manufacturing .....	5	28	6	556	17 753	353	562	9 562	31 678	16 592	48 450	1 163
339950	Sign manufacturing .....	5	28	6	556	17 753	353	562	9 562	31 678	16 592	48 450	1 163
33999	All other miscellaneous manufacturing .....	2	59	16	1 792	67 939	956	2 346	25 679	124 072	64 626	193 311	9 330
339999	All other miscellaneous manufacturing .....	2	51	14	1 669	63 592	858	2 153	22 942	115 170	58 997	178 906	8 644
<b>SANTA CRUZ</b>													
31-33	Manufacturing .....	2	377	71	6 694	250 300	4 554	8 287	129 718	617 269	426 156	1 053 584	31 289
311	Food manufacturing .....	2	39	15	1 866	51 484	1 573	2 916	39 316	202 502	87 822	289 810	7 704
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	8	6	1 066	24 731	986	1 694	22 152	101 601	46 929	148 530	3 325
31141	Frozen food manufacturing .....	1	5	4	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing .....	1	5	4	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	2	46	19	1 155	62 720	497	976	15 415	107 062	78 829	188 560	3 431
3344	Semiconductor and other electronic component manufacturing .....	3	17	9	582	24 645	326	632	10 336	43 375	23 657	68 436	D
33441	Semiconductor and other electronic component manufacturing .....	3	17	9	582	24 645	326	632	10 336	43 375	23 657	68 436	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SHASTA</b>													
31-33	Manufacturing .....	3	178	38	3 342	115 835	2 512	5 227	76 951	262 551	338 184	597 203	D
321	Wood product manufacturing .....	1	16	8	830	31 288	684	1 440	24 052	47 893	150 151	198 638	5 167
3211	Sawmills and wood preservation .....	1	8	6	736	28 246	607	1 280	22 019	42 071	145 289	187 911	D
32111	Sawmills and wood preservation .....	1	8	6	736	28 246	607	1 280	22 019	42 071	145 289	187 911	D
321113	Sawmills .....	1	8	6	736	28 246	607	1 280	22 019	42 071	145 289	187 911	D
<b>SISKIYOU</b>													
31-33	Manufacturing .....	—	40	9	760	24 916	608	1 314	17 648	80 566	120 154	199 777	7 809
<b>SOLANO</b>													
31-33	Manufacturing .....	—	303	94	10 169	428 643	7 189	13 401	252 450	1 779 527	2 589 491	4 347 543	164 579
311	Food manufacturing .....	1	28	13	1 697	61 203	1 076	2 361	31 979	237 027	352 839	583 750	13 544
3113	Sugar and confectionery product manufacturing .....	—	4	3	652	25 439	346	777	11 875	116 241	64 478	178 765	3 741
31134	Nonchocolate confectionery manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	—	10	5	501	15 419	375	706	8 828	32 511	53 572	86 515	945
325	Chemical manufacturing .....	1	21	8	1 791	99 932	1 365	2 240	66 184	269 987	179 288	459 407	34 114
3254	Pharmaceutical and medicine manufacturing .....	—	9	5	1 556	88 012	1 234	2 073	60 286	166 803	137 219	316 281	29 749
32541	Pharmaceutical and medicine manufacturing .....	—	9	5	1 556	88 012	1 234	2 073	60 286	166 803	137 219	316 281	29 749
325412	Pharmaceutical preparation manufacturing .....	—	5	5	1 522	86 079	1 217	2 039	59 635	160 199	132 846	305 304	29 138
326	Plastics and rubber products manufacturing .....	—	11	8	728	28 402	496	1 044	15 480	69 997	93 172	166 900	8 800
3261	Plastics product manufacturing .....	—	10	8	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	—	28	9	759	31 628	598	1 283	23 250	116 633	103 155	218 283	4 049
3273	Cement and concrete product manufacturing .....	—	15	8	589	24 881	461	999	18 096	100 195	88 045	186 726	3 225
332	Fabricated metal product manufacturing .....	—	48	18	1 958	75 399	1 559	2 402	49 852	218 629	188 932	405 204	13 964
3323	Architectural and structural metals manufacturing .....	—	15	6	990	29 346	829	946	18 501	64 210	34 229	98 535	4 316
33232	Ornamental and architectural metal products manufacturing .....	—	9	3	753	21 383	642	586	12 965	49 540	21 982	72 323	D
333	Machinery manufacturing .....	1	29	10	596	25 280	343	705	10 278	72 348	43 044	112 589	2 825
<b>SONOMA</b>													
31-33	Manufacturing .....	1	874	229	26 678	1 183 304	15 357	30 355	559 399	3 437 229	2 394 431	5 973 013	190 348
311	Food manufacturing .....	2	84	27	3 131	91 023	2 082	4 199	51 654	278 433	313 139	587 976	19 182
3114	Fruit and vegetable preserving and specialty food manufacturing .....	3	8	4	978	25 184	652	1 248	14 237	77 882	63 556	141 482	6 981
31141	Frozen food manufacturing ....	3	3	2	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	4	10	5	671	15 964	553	1 224	12 024	60 367	56 265	113 293	4 005
31161	Animal slaughtering and processing .....	4	10	5	671	15 964	553	1 224	12 024	60 367	56 265	113 293	4 005
311615	Poultry processing .....	4	6	4	618	14 583	505	1 116	10 858	59 438	49 883	105 982	3 868
3118	Bakeries and tortilla manufacturing .....	2	30	8	612	17 565	353	626	8 776	39 172	14 998	54 079	1 865
312	Beverage and tobacco product manufacturing .....	1	150	45	3 786	141 985	1 694	3 289	58 471	681 568	531 204	1 250 463	77 048
3121	Beverage manufacturing .....	1	150	45	3 786	141 985	1 694	3 289	58 471	681 568	531 204	1 250 463	77 048
31213	Wineries .....	1	148	44	h	D	D	D	D	D	D	D	D
312130	Wineries .....	1	148	44	h	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	2	48	13	969	32 134	714	1 455	20 425	69 700	90 548	159 782	3 549

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SONOMA—Con.</b>													
323	Printing and related support activities .....	3	79	11	933	33 652	619	1 142	18 644	73 361	32 565	109 008	5 799
3231	Printing and related support activities .....	3	79	11	933	33 652	619	1 142	18 644	73 361	32 565	109 008	5 799
32311	Printing .....	3	69	11	900	32 541	591	1 098	17 945	71 303	32 201	106 586	5 741
326	Plastics and rubber products manufacturing .....	1	30	12	916	36 091	611	1 186	17 434	88 887	43 457	131 844	8 539
3261	Plastics product manufacturing ..	2	29	12	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	1	24	11	843	33 650	556	1 069	15 707	82 927	35 314	118 164	7 262
326199	All other plastics product manufacturing .....	1	24	11	843	33 650	556	1 069	15 707	82 927	35 314	118 164	7 262
327	Nonmetallic mineral product manufacturing .....	—	40	10	694	28 608	506	1 037	18 321	60 529	50 639	111 694	2 207
332	Fabricated metal product manufacturing .....	2	82	13	905	34 814	632	1 221	21 686	70 711	38 941	109 995	3 735
333	Machinery manufacturing .....	—	48	25	2 592	125 005	1 537	2 913	57 785	286 977	173 287	469 508	17 392
3332	Industrial machinery manufacturing .....	3	14	8	575	29 299	350	505	13 649	48 663	35 725	85 098	11 537
3333	Commercial and service industry machinery manufacturing .....	—	6	5	1 240	64 557	766	1 561	30 262	139 149	82 957	230 920	D
33331	Commercial and service industry machinery manufacturing .....	—	6	5	1 240	64 557	766	1 561	30 262	139 149	82 957	230 920	D
333314	Optical instrument and lens manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	47	22	7 289	446 775	3 582	7 205	192 649	1 362 373	892 946	2 342 953	26 928
3342	Communications equipment manufacturing .....	—	12	8	1 764	125 715	665	1 261	32 237	795 585	563 612	1 393 647	D
33421	Telephone apparatus manufacturing .....	—	6	5	1 457	110 933	526	1 006	28 093	771 096	538 659	1 344 238	20 497
334210	Telephone apparatus manufacturing .....	—	6	5	1 457	110 933	526	1 006	28 093	771 096	538 659	1 344 238	20 497
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	20	7	4 997	297 374	2 581	5 339	150 944	504 719	295 600	852 340	2 831
33451	Navigational, measuring, electromedical, and control instruments manufacturing ..	—	20	7	4 997	297 374	2 581	5 339	150 944	504 719	295 600	852 340	2 831
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	—	2	2	h	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	1	19	8	560	22 436	323	687	8 581	47 060	31 021	78 013	1 538
337	Furniture and related product manufacturing .....	1	69	12	881	23 850	711	1 311	17 540	66 214	42 065	108 130	1 870
339	Miscellaneous manufacturing .....	1	91	15	2 707	117 538	1 383	2 829	46 677	183 972	60 019	243 417	9 303
3391	Medical equipment and supplies manufacturing .....	—	33	6	2 073	98 802	964	2 132	36 650	140 102	28 644	168 595	8 364
33911	Medical equipment and supplies manufacturing .....	—	33	6	2 073	98 802	964	2 132	36 650	140 102	28 644	168 595	8 364
339113	Surgical appliance and supplies manufacturing .....	—	5	2	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing .....	3	58	9	634	18 736	419	697	10 027	43 870	31 375	74 822	939
<b>STANISLAUS</b>													
31-33	Manufacturing .....	1	488	170	24 469	913 022	18 729	36 558	540 781	3 284 159	3 960 297	7 232 823	153 161
311	Food manufacturing .....	1	92	57	11 332	344 192	9 431	18 588	253 769	1 537 920	2 157 618	3 654 421	68 700
3111	Animal food manufacturing .....	—	13	9	539	20 485	296	627	9 603	23 852	307 661	331 516	D
31111	Animal food manufacturing ....	—	13	9	539	20 485	296	627	9 603	23 852	307 661	331 516	D
311119	Other animal food manufacturing .....	—	12	9	f	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
31132	Chocolate and confectionery manufacturing from cacao beans .....	—	1	1	f	D	D	D	D	D	D	D	D
311320	Chocolate and confectionery manufacturing from cacao beans .....	—	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>STANISLAUS—Con.</b>													
311	Food manufacturing—Con.												
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	17	16	i	D	D	D	D	D	D	D	20 927
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
31142	Fruit and vegetable canning, pickling, and drying .....	—	16	15	i	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning ..	—	8	8	4 411	138 947	3 838	7 279	107 843	462 574	507 659	972 340	18 353
311423	Dried and dehydrated food manufacturing .....	1	6	6	664	19 678	558	860	12 931	60 687	58 682	105 365	D
3115	Dairy product manufacturing .....	4	16	11	1 202	44 626	1 026	2 177	35 078	192 364	762 355	948 606	14 364
31151	Dairy product (except frozen) manufacturing .....	3	13	10	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	15	9	2 215	52 434	1 839	4 110	36 504	241 187	111 559	353 458	6 781
31161	Animal slaughtering and processing .....	—	15	9	2 215	52 434	1 839	4 110	36 504	241 187	111 559	353 458	6 781
311615	Poultry processing .....	—	5	4	1 886	42 513	1 623	3 627	30 724	216 078	44 618	261 371	5 629
3119	Other food manufacturing .....	1	17	8	727	17 598	567	992	11 910	312 341	179 028	479 239	12 701
312	Beverage and tobacco product manufacturing .....	—	7	4	h	D	D	D	D	D	D	D	21 465
3121	Beverage manufacturing .....	—	7	4	h	D	D	D	D	D	D	D	21 465
31213	Wineries .....	—	3	2	h	D	D	D	D	D	D	D	D
312130	Wineries .....	—	3	2	h	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	2	27	14	983	28 880	806	1 595	18 385	68 480	96 082	169 170	5 579
3219	Other wood product manufacturing .....	2	20	8	630	18 262	524	1 014	11 752	47 055	62 828	114 278	5 105
322	Paper manufacturing .....	2	7	6	908	44 188	696	1 543	29 364	107 690	183 395	291 249	4 899
3222	Converted paper product manufacturing .....	2	7	6	908	44 188	696	1 543	29 364	107 690	183 395	291 249	4 899
32221	Paperboard container manufacturing .....	2	6	6	f	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	2	5	5	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	—	17	6	1 120	43 935	929	1 826	34 676	94 972	110 825	197 238	D
3272	Glass and glass product manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
327213	Glass container manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	'98	'27	'2 303	'94 038	'1 715	'3 592	'63 829	'224 569	'280 191	'510 762	'16 890
3323	Architectural and structural metals manufacturing .....	1	28	11	935	35 112	626	1 324	19 352	76 214	67 835	144 157	4 865
3324	Boiler, tank, and shipping container manufacturing .....	—	8	5	699	35 834	587	1 288	29 876	93 095	191 222	289 658	D
33243	Metal can, box, and other metal container (light gauge) manufacturing .....	—	7	5	f	D	D	D	D	D	D	D	D
332431	Metal can manufacturing ....	—	6	5	f	D	D	D	D	D	D	D	10 353
333	Machinery manufacturing .....	3	47	10	843	32 088	548	1 111	16 767	76 672	46 496	123 356	2 202
336	Transportation equipment manufacturing .....	—	15	8	1 127	40 422	868	1 571	25 813	85 105	89 328	178 189	3 556
3363	Motor vehicle parts manufacturing .....	—	6	4	888	32 651	675	1 182	20 138	75 094	64 971	142 985	3 164
33639	Other motor vehicle parts manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	6	37	7	646	16 424	519	1 050	11 414	33 184	22 036	55 312	1 389
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	6	32	6	613	15 156	496	1 011	10 794	30 260	20 884	51 280	1 285

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SUTTER</b>													
31-33	Manufacturing .....	-	76	18	1 815	59 620	1 390	2 606	34 961	394 495	301 684	575 283	21 694
311	Food manufacturing .....	-	14	5	953	34 603	705	1 327	18 699	324 028	222 898	428 563	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	8	4	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	-	8	4	f	D	D	D	D	D	D	D	D
311423	Dried and dehydrated food manufacturing .....	-	6	3	f	D	D	D	D	D	D	D	D
<b>TEHAMA</b>													
31-33	Manufacturing .....	-	56	14	2 462	79 259	2 113	4 373	60 761	180 467	306 711	483 533	7 118
321	Wood product manufacturing .....	-	10	7	1 514	52 259	1 296	2 815	40 084	101 074	198 590	297 793	D
3219	Other wood product manufacturing .....	-	9	6	g	D	D	D	D	D	D	D	D
32191	Millwork .....	-	8	6	g	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring) .....	-	6	4	f	D	D	D	D	D	D	D	D
<b>TULARE</b>													
31-33	Manufacturing .....	2	293	91	11 340	371 658	8 765	16 938	246 744	1 262 113	2 524 807	3 763 077	74 981
311	Food manufacturing .....	1	59	26	4 718	168 449	3 684	7 697	115 499	729 113	1 950 027	2 661 214	46 893
3114	Fruit and vegetable preserving and specialty food manufacturing .....	9	9	6	1 517	50 321	1 263	2 774	36 224	215 015	126 393	341 409	11 193
31141	Frozen food manufacturing ....	9	5	4	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	9	1	1	g	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	-	8	7	1 732	73 991	1 319	2 753	51 401	336 813	1 361 468	1 690 257	24 145
31151	Dairy product (except frozen) manufacturing .....	-	7	6	g	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing ....	-	3	3	f	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	2	15	8	958	24 760	796	1 532	18 005	124 995	182 267	296 438	9 538
31191	Snack food manufacturing .....	2	7	5	625	17 502	554	1 011	13 173	95 761	136 088	220 889	9 218
321	Wood product manufacturing .....	-	18	10	767	22 390	543	1 016	13 169	47 195	54 856	103 009	902
323	Printing and related support activities .....	1	20	8	1 122	33 408	889	1 467	23 283	107 332	48 910	157 028	3 358
3231	Printing and related support activities .....	1	20	8	1 122	33 408	889	1 467	23 283	107 332	48 910	157 028	3 358
32311	Printing .....	1	19	8	g	D	D	D	D	D	D	D	D
323117	Books printing .....	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	9	5	736	20 168	588	1 284	14 346	62 215	89 178	147 092	5 486
3261	Plastics product manufacturing ..	1	9	5	736	20 168	588	1 284	14 346	62 215	89 178	147 092	5 486
32619	Other plastics product manufacturing .....	-	6	3	517	12 658	431	931	9 408	37 916	62 846	95 377	D
326199	All other plastics product manufacturing .....	-	6	3	517	12 658	431	931	9 408	37 916	62 846	95 377	D
332	Fabricated metal product manufacturing .....	2	46	10	1 169	42 367	825	1 395	24 623	81 668	86 993	169 635	2 905
3323	Architectural and structural metals manufacturing .....	2	10	4	521	19 249	364	711	11 187	39 422	38 986	80 991	1 161
333	Machinery manufacturing .....	2	36	8	715	24 102	557	959	16 060	62 945	82 024	144 006	4 780
3339	Other general purpose machinery manufacturing .....	1	10	4	528	17 230	434	708	12 182	49 010	68 073	116 033	4 202
<b>TUOLUMNE</b>													
31-33	Manufacturing .....	1	81	12	1 161	39 340	926	1 662	26 892	105 025	106 604	210 631	5 397

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 <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>VENTURA</b>													
31-33	Manufacturing .....	1	1 051	304	33 124	1 314 903	22 483	45 432	674 581	4 525 268	2 591 176	7 140 438	259 332
311	Food manufacturing .....	1	73	17	1 524	40 506	1 240	2 413	30 474	187 141	163 365	350 497	22 113
3114	Fruit and vegetable preserving and specialty food manufacturing .....	1	11	8	658	17 444	539	1 005	13 152	114 506	101 254	216 165	19 236
315	Apparel manufacturing .....	9	25	5	524	10 350	435	758	7 949	27 572	26 149	53 820	D
3152	Cut and sew apparel manufacturing .....	9	24	5	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	—	14	8	1 042	49 639	830	1 663	36 081	601 580	201 880	793 255	D
3221	Pulp, paper, and paperboard mills .....	—	2	2	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 .....	1	86	17	1 092	36 174	691	1 365	20 119	102 736	41 553	144 001	3 088
3231	Printing and related support activities .....	1	86	17	1 092	36 174	691	1 365	20 119	102 736	41 553	144 001	3 088
32311	Printing .....	1	85	17	g	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	4	39	15	1 173	53 807	738	1 448	25 866	168 509	132 540	297 656	9 922
326	Plastics and rubber products manufacturing .....	—	47	24	2 993	93 230	2 396	4 489	57 978	215 997	173 085	385 860	17 388
3261	Plastics product manufacturing ..	—	45	23	h	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	34	16	2 298	71 114	1 816	3 582	41 306	172 426	143 664	313 249	13 788
326199	All other plastics product manufacturing .....	—	31	14	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	—	31	13	1 048	40 178	792	1 690	24 738	106 095	94 105	199 590	5 692
3279	Other nonmetallic mineral product manufacturing .....	—	9	5	558	20 299	411	836	10 721	57 391	39 715	96 705	D
331	Primary metal manufacturing .....	1	14	8	634	23 614	469	866	15 097	47 245	22 025	74 556	D
332	Fabricated metal product manufacturing .....	2	191	38	2 585	96 561	1 853	3 747	56 745	216 935	112 932	333 365	19 796
3323	Architectural and structural metals manufacturing .....	2	30	9	526	19 516	340	734	10 084	43 995	27 396	70 249	1 927
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	99	13	961	36 226	715	1 381	22 926	77 935	24 250	102 428	6 103
33271	Machine shops .....	4	86	9	650	25 993	491	931	17 196	50 644	17 815	68 618	5 463
332710	Machine shops .....	4	86	9	650	25 993	491	931	17 196	50 644	17 815	68 618	5 463
333	Machinery manufacturing .....	1	99	30	4 747	231 719	2 908	6 293	99 535	522 007	411 196	940 387	19 582
3332	Industrial machinery manufacturing .....	5	18	7	1 098	46 378	632	1 304	20 456	103 331	70 712	176 894	9 229
33329	Other industrial machinery manufacturing .....	7	15	6	f	D	D	D	D	D	D	D	D
3333	Commercial and service industry machinery manufacturing .....	—	14	5	616	22 650	427	852	13 505	82 372	97 614	175 334	2 056
33331	Commercial and service industry machinery manufacturing .....	—	14	5	616	22 650	427	852	13 505	82 372	97 614	175 334	2 056
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	8	3	1 161	33 910	518	1 212	13 707	129 507	85 221	216 649	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	—	8	3	1 161	33 910	518	1 212	13 707	129 507	85 221	216 649	D
333414	Heating equipment (except warm air furnaces) manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
3335	Metalworking machinery manufacturing .....	—	28	3	1 041	94 272	821	1 904	35 879	124 279	104 271	235 063	1 015
33351	Metalworking machinery manufacturing .....	—	28	3	1 041	94 272	821	1 904	35 879	124 279	104 271	235 063	1 015
333512	Machine tool (metal cutting types) manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	1	27	11	f	D	D	D	D	D	D	D	3 137

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>VENTURA—Con.</b>													
334	Computer and electronic product manufacturing .....	1	'142	'63	'9 052	'389 105	'5 652	'11 822	'176 075	'1 713 493	'742 604	'2 477 008	'75 652
3342	Communications equipment manufacturing .....	5	'18	'10	f	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	5	'13	'8	'755	'34 464	'479	'878	'13 572	'51 416	'50 842	'102 852	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	5	'13	'8	'755	'34 464	'479	'878	'13 572	'51 416	'50 842	'102 852	D
3343	Audio and video equipment manufacturing .....	4	11	5	707	25 464	485	990	13 393	56 621	37 616	98 553	1 607
33431	Audio and video equipment manufacturing .....	4	11	5	707	25 464	485	990	13 393	56 621	37 616	98 553	1 607
334310	Audio and video equipment manufacturing .....	4	11	5	707	25 464	485	990	13 393	56 621	37 616	98 553	1 607
3344	Semiconductor and other electronic component manufacturing .....	—	55	25	4 340	187 609	2 640	5 554	81 825	909 031	268 601	1 180 961	48 865
33441	Semiconductor and other electronic component manufacturing .....	—	55	25	4 340	187 609	2 640	5 554	81 825	909 031	268 601	1 180 961	48 865
334413	Semiconductor and related device manufacturing .....	—	18	9	1 782	99 073	1 012	2 083	39 851	730 065	143 301	872 918	40 339
334419	Other electronic component manufacturing .....	—	16	6	1 562	53 444	862	1 966	20 210	104 600	75 731	184 239	5 128
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	31	13	1 129	56 753	572	1 152	18 435	257 536	154 898	416 314	7 880
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	31	13	1 129	56 753	572	1 152	18 435	257 536	154 898	416 314	7 880
3346	Manufacturing and reproducing magnetic and optical media .....	—	5	4	g	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media .....	—	5	4	g	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	—	3	3	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	22	14	1 161	41 049	804	1 607	20 506	84 025	55 467	140 226	2 980
3351	Electric lighting equipment manufacturing .....	—	8	6	507	14 793	408	824	9 749	32 834	29 306	62 245	816
33512	Lighting fixture manufacturing .....	—	8	6	507	14 793	408	824	9 749	32 834	29 306	62 245	816
336	Transportation equipment manufacturing .....	5	'44	'13	'2 179	'100 180	'1 358	'2 821	'51 862	'271 344	'236 067	'510 061	'16 859
3363	Motor vehicle parts manufacturing .....	1	'23	'8	'1 169	'46 349	'857	'1 897	'29 369	'113 034	'66 299	'181 836	'7 641
33639	Other motor vehicle parts manufacturing .....	—	'6	'4	'807	'30 898	'659	'1 504	'23 877	'73 882	'30 613	'107 174	'6 085
336399	All other motor vehicle parts manufacturing .....	—	'6	'4	'807	'30 898	'659	'1 504	'23 877	'73 882	'30 613	'107 174	'6 085
3364	Aerospace product and parts manufacturing .....	7	11	5	946	51 224	450	826	20 835	152 064	161 722	313 933	9 046
33641	Aerospace product and parts manufacturing .....	7	11	5	946	51 224	450	826	20 835	152 064	161 722	313 933	9 046
336411	Aircraft manufacturing .....	9	2	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	3	41	6	583	15 445	451	854	9 909	33 553	17 267	50 640	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	31	6	518	13 406	406	779	8 848	30 010	15 391	45 192	D
339	Miscellaneous manufacturing .....	3	'135	'31	'2 515	'84 241	'1 661	'3 199	'35 709	'205 129	'125 632	'332 333	'7 955
3391	Medical equipment and supplies manufacturing .....	3	60	15	1 204	44 641	785	1 545	17 656	113 294	45 546	159 534	3 465
33911	Medical equipment and supplies manufacturing .....	3	60	15	1 204	44 641	785	1 545	17 656	113 294	45 546	159 534	3 465
339113	Surgical appliance and supplies manufacturing .....	5	13	6	655	21 410	490	967	9 242	57 406	25 204	82 573	1 992
3399	Other miscellaneous manufacturing .....	2	'75	'16	'1 311	'39 600	'876	'1 654	'18 053	'91 835	'80 086	'172 799	'4 490
33999	All other miscellaneous manufacturing .....	—	'36	'10	'784	'24 610	'524	'959	'10 990	'50 921	'47 846	'99 032	'3 553
339999	All other miscellaneous manufacturing .....	'1	'30	'8	'636	'18 517	'408	'731	'7 475	'37 427	'34 658	'72 862	'3 280

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>YOLO</b>													
31-33	Manufacturing .....	1	176	53	6 005	226 326	4 149	8 018	130 093	627 400	662 511	1 282 919	28 453
311	Food manufacturing .....	2	21	11	1 371	51 434	1 055	2 239	36 680	139 915	261 290	392 582	D
321	Wood product manufacturing .....	1	19	6	856	26 860	726	1 457	19 520	52 977	60 242	113 085	D
3219	Other wood product manufacturing .....	-	14	4	f	D	D	D	D	D	D	D	D
32199	All other wood product manufacturing .....	-	6	3	673	21 149	569	1 150	15 008	43 192	43 878	86 889	D
321991	Manufactured home (mobile home) manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	1	27	3	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	1	27	3	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	-	6	3	f	D	D	D	D	D	D	D	D
<b>YUBA</b>													
31-33	Manufacturing .....	-	46	14	1 332	38 324	1 066	2 253	28 020	126 753	140 614	263 837	3 179
321	Wood product manufacturing .....	-	11	6	f	D	D	D	D	D	D	D	D

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

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

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

<sup>4</sup>Number 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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ADELANTO</b>													
31-33	Manufacturing .....	1	40	17	1 853	55 565	1 322	2 505	35 052	119 230	113 913	234 986	2 888
336	Transportation equipment manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3366	Ship and boat building .....	-	2	2	f	D	D	D	D	D	D	D	D
33661	Ship and boat building .....	-	2	2	f	D	D	D	D	D	D	D	D
336612	Boat building .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>AGOURA HILLS</b>													
31-33	Manufacturing .....	5	27	4	f	D	D	D	D	D	D	D	D
<b>ALAMEDA</b>													
31-33	Manufacturing .....	1	59	13	944	42 682	466	929	17 138	108 361	57 868	164 971	D
<b>ALHAMBRA</b>													
31-33	Manufacturing .....	1	106	23	2 582	79 741	2 047	3 548	48 729	136 779	149 989	286 262	39 722
315	Apparel manufacturing .....	1	27	8	928	17 132	883	1 352	14 949	19 399	21 398	39 855	280
3152	Cut and sew apparel manufacturing .....	1	25	8	f	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing .....	1	5	3	662	13 617	633	917	11 719	13 897	20 512	33 398	220
334	Computer and electronic product manufacturing .....	2	13	4	595	25 510	374	624	10 888	44 769	26 410	70 788	D
3344	Semiconductor and other electronic component manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	5	2	f	D	D	D	D	D	D	D	D
<b>ALISO VIEJO</b>													
31-33	Manufacturing .....	5	32	13	842	37 466	462	908	13 094	92 347	57 820	149 507	3 139
<b>ANAHEIM</b>													
31-33	Manufacturing .....	1	871	291	33 036	1 196 548	22 791	44 324	650 282	2 913 475	2 185 040	5 182 046	152 316
311	Food manufacturing .....	3	33	10	1 456	40 485	1 145	2 377	29 645	136 600	119 137	254 920	31 280
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
313	Textile mills .....	2	5	3	f	D	D	D	D	D	D	D	519
3133	Textile and fabric finishing and fabric coating mills .....	2	4	3	f	D	D	D	D	D	D	D	D
31331	Textile and fabric finishing mills .....	2	3	3	f	D	D	D	D	D	D	D	D
313312	Textile and fabric finishing (except broadwoven fabric) mills .....	-	2	2	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	-	19	6	1 027	22 802	951	814	15 188	60 393	133 581	195 311	376
3152	Cut and sew apparel manufacturing .....	-	17	5	f	D	D	D	D	D	D	D	D
31522	Men's and boys' cut and sew apparel manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
315223	Men's and boys' cut and sew shirt (except work shirt) manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	4	25	7	569	10 556	329	581	6 523	17 273	20 390	37 684	1 315
3219	Other wood product manufacturing .....	5	22	6	516	9 185	284	510	5 665	12 805	12 640	25 473	1 208
322	Paper manufacturing .....	-	12	4	588	23 581	470	1 075	16 706	S	114 210	175 890	1 253
3222	Converted paper product manufacturing .....	-	12	4	588	23 581	470	1 075	16 706	S	114 210	175 890	1 253
323	Printing and related support activities .....	2	86	20	1 940	71 634	1 432	2 630	45 733	133 042	67 102	199 114	8 378
3231	Printing and related support activities .....	2	86	20	1 940	71 634	1 432	2 630	45 733	133 042	67 102	199 114	8 378
32311	Printing .....	-	74	16	1 303	46 726	936	1 621	29 060	97 524	61 901	158 836	7 418
323110	Commercial lithographic printing .....	-	33	10	791	31 399	569	978	19 920	65 546	43 487	108 572	3 353
32312	Support activities for printing .....	7	12	4	637	24 908	496	1 009	16 673	35 518	5 201	40 278	960
323122	Prepress services .....	7	9	4	611	24 147	472	965	16 053	34 293	4 668	38 520	D
325	Chemical manufacturing .....	1	23	9	649	26 427	305	566	12 050	90 702	78 366	169 555	12 897

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ANAHEIM—Con.</b>													
326	Plastics and rubber products manufacturing .....	1	'56	'33	'4 023	'124 818	'3 009	'6 217	'79 198	'344 125	'226 190	'573 235	16 183
3261	Plastics product manufacturing ..	1	'53	'32	h	D	D	D	D	D	D	D	D
32616	Plastics bottle manufacturing ..	—	3	3	644	16 820	378	879	11 796	54 556	34 475	88 908	3 673
326160	Plastics bottle manufacturing .....	—	3	3	644	16 820	378	879	11 796	54 556	34 475	88 908	3 673
32619	Other plastics product manufacturing .....	1	'40	'23	'2 641	'84 757	'2 003	'4 167	'50 215	'237 583	'151 273	'390 703	9 656
326199	All other plastics product manufacturing .....	1	'35	'21	g	D	D	D	D	D	D	D	8 573
331	Primary metal manufacturing .....	1	8	3	512	18 302	399	829	10 184	48 217	39 257	87 854	1 158
332	Fabricated metal product manufacturing .....	1	212	63	4 968	184 148	3 703	7 369	114 248	374 390	194 509	572 297	10 305
3323	Architectural and structural metals manufacturing .....	1	34	14	1 075	38 817	762	1 568	24 842	83 812	71 809	158 978	2 482
33232	Ornamental and architectural metal products manufacturing .....	1	30	14	1 044	37 749	740	1 525	24 217	81 341	69 013	153 711	2 387
332322	Sheet metal work manufacturing .....	1	19	11	818	30 249	601	1 267	20 436	64 339	57 474	125 237	2 003
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	96	17	1 936	85 737	1 383	2 723	50 627	176 777	46 798	221 707	4 066
33271	Machine shops .....	4	80	9	690	28 227	555	1 045	21 042	59 979	19 487	78 277	1 667
332710	Machine shops .....	4	80	9	690	28 227	555	1 045	21 042	59 979	19 487	78 277	1 667
33272	Turned product and screw, nut, and bolt manufacturing .....	—	16	8	1 246	57 510	828	1 678	29 585	116 798	27 311	143 430	2 399
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	—	6	5	1 077	51 990	693	1 387	25 426	106 142	23 841	128 997	928
3328	Coating, engraving, heat treating, and allied activities .....	3	43	17	1 149	32 876	947	1 797	21 713	53 164	24 944	78 864	1 981
33281	Coating, engraving, heat treating, and allied activities ..	3	43	17	1 149	32 876	947	1 797	21 713	53 164	24 944	78 864	1 981
332813	Electroplating, plating, polishing, anodizing, and coloring .....	2	26	10	731	19 594	603	1 147	12 583	32 510	13 108	46 403	1 441
333	Machinery manufacturing .....	1	'59	'15	'1 271	'50 218	'799	'1 469	'25 174	'113 589	'63 857	'175 983	3 787
334	Computer and electronic product manufacturing .....	—	94	41	7 371	351 917	3 851	7 455	129 186	831 489	431 198	1 272 923	32 358
3343	Audio and video equipment manufacturing .....	—	4	4	737	24 460	359	725	9 885	107 416	27 096	134 172	D
33431	Audio and video equipment manufacturing .....	—	4	4	737	24 460	359	725	9 885	107 416	27 096	134 172	D
334310	Audio and video equipment manufacturing .....	—	4	4	737	24 460	359	725	9 885	107 416	27 096	134 172	D
3344	Semiconductor and other electronic component manufacturing .....	2	42	19	2 842	101 453	2 250	4 240	66 205	177 323	148 514	339 184	11 408
33441	Semiconductor and other electronic component manufacturing .....	2	42	19	2 842	101 453	2 250	4 240	66 205	177 323	148 514	339 184	11 408
334412	Bare printed circuit board manufacturing .....	7	13	5	1 010	33 903	808	1 523	22 715	56 383	36 402	93 097	3 280
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	6	5	738	22 170	545	1 022	10 105	45 225	79 223	124 384	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	27	11	3 005	183 666	882	1 738	39 242	447 654	171 629	616 717	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	27	11	3 005	183 666	882	1 738	39 242	447 654	171 629	616 717	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	5	2	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	2	26	18	1 902	73 816	1 386	3 046	42 299	149 495	205 554	353 087	3 787
3359	Other electrical equipment and component manufacturing .....	2	13	9	1 427	57 219	1 036	2 295	32 534	102 591	172 021	273 073	2 811
33599	All other electrical equipment and component manufacturing .....	8	5	4	731	30 463	440	982	10 960	15 481	71 106	86 914	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	8	5	4	731	30 463	440	982	10 960	15 481	71 106	86 914	D

See footnotes at end of table.

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

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<b>ANAHEIM—Con.</b>													
336	Transportation equipment manufacturing .....	1	50	15	1 856	57 557	1 294	2 478	32 695	126 545	139 702	253 338	5 893
3363	Motor vehicle parts manufacturing .....	—	27	8	1 313	39 085	876	1 727	21 065	83 234	107 649	180 099	3 919
33635	Motor vehicle transmission and power train parts manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission and power train parts manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	5	44	15	2 266	57 008	1 673	3 246	35 505	217 979	153 062	369 927	5 325
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	8	37	11	1 651	40 566	1 270	2 576	26 200	122 216	115 554	237 252	D
33711	Wood kitchen cabinet and countertop manufacturing ....	9	20	4	543	16 440	316	604	7 507	64 398	72 219	136 536	2 071
337110	Wood kitchen cabinet and countertop manufacturing ..	9	20	4	543	16 440	316	604	7 507	64 398	72 219	136 536	2 071
33712	Household and institutional furniture manufacturing .....	7	17	7	1 108	24 126	954	1 972	18 693	57 818	43 335	100 716	D
337122	Nonupholstered wood household furniture manufacturing .....	8	9	3	801	16 378	705	1 438	12 541	36 899	26 990	63 708	D
339	Miscellaneous manufacturing .....	4	71	17	1 142	35 354	786	1 527	19 779	90 356	56 384	144 351	4 621
3399	Other miscellaneous manufacturing .....	4	46	14	788	24 608	540	1 043	13 876	51 611	32 821	82 620	2 836
<b>ARCADIA</b>													
31-33	Manufacturing .....	1	72	17	1 203	40 274	829	1 676	20 752	122 286	63 939	185 637	3 952
<b>ARCATA</b>													
31-33	Manufacturing .....	1	58	13	873	24 058	696	1 368	16 581	55 669	58 351	114 760	3 222
<b>ARTESIA</b>													
31-33	Manufacturing .....	2	29	6	620	22 990	462	849	14 907	42 631	153 173	196 381	2 776
<b>ATWATER</b>													
31-33	Manufacturing .....	—	14	7	615	18 109	538	1 071	14 481	35 640	79 023	113 720	D
<b>AUBURN</b>													
31-33	Manufacturing .....	1	34	5	813	34 323	482	922	14 925	64 159	35 135	104 154	6 096
<b>AZUSA</b>													
31-33	Manufacturing .....	1	121	43	5 326	228 306	3 230	6 220	86 957	532 179	485 939	1 015 612	23 384
325	Chemical manufacturing .....	'3	'8	'7	'689	'26 271	'358	'800	'8 310	'60 738	'89 818	'150 327	'3 997
332	Fabricated metal product manufacturing .....	4	33	7	614	21 604	467	838	15 349	44 288	36 228	80 983	1 433
334	Computer and electronic product manufacturing .....	—	6	2	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	3	2	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
<b>BAKERSFIELD</b>													
31-33	Manufacturing .....	—	152	32	3 084	90 903	2 179	3 958	54 452	691 392	891 289	1 590 673	31 855
<b>BALDWIN PARK</b>													
31-33	Manufacturing .....	4	138	24	2 171	70 397	1 572	3 043	41 482	164 331	113 161	272 892	6 385
332	Fabricated metal product manufacturing .....	2	39	7	624	19 515	499	956	13 042	45 054	20 565	62 814	1 033
<b>BANNING</b>													
31-33	Manufacturing .....	—	25	9	1 016	24 232	936	1 928	20 081	82 913	79 818	167 417	1 322
<b>BELL</b>													
31-33	Manufacturing .....	1	29	12	906	32 835	654	1 254	18 252	92 335	115 944	206 784	2 002
<b>BELL GARDENS</b>													
31-33	Manufacturing .....	1	'66	'20	'1 256	'41 814	'957	'1 722	'26 669	'102 156	'101 347	'204 102	'3 513

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<b>BENICIA</b>													
31-33	Manufacturing .....	-	86	26	2 123	86 283	1 396	2 259	39 323	666 363	1 449 919	2 092 412	D
332	Fabricated metal product manufacturing .....	-	16	5	825	26 404	671	802	16 124	60 774	21 385	82 084	D
<b>BERKELEY</b>													
31-33	Manufacturing .....	1	160	36	4 248	198 830	2 719	5 070	114 321	708 557	196 204	886 921	48 104
311	Food manufacturing .....	-	22	8	566	21 806	274	522	6 754	125 602	12 461	137 933	2 069
325	Chemical manufacturing .....	-	5	2	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) manufacturing ..	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	4	10	7	f	D	D	D	D	D	D	D	2 496
<b>BREA</b>													
31-33	Manufacturing .....	1	187	60	7 327	259 327	5 139	9 919	148 586	770 322	504 969	1 284 414	24 774
323	Printing and related support activities .....	-	25	5	775	24 170	590	986	14 971	73 259	32 807	107 264	1 034
3231	Printing and related support activities .....	-	25	5	775	24 170	590	986	14 971	73 259	32 807	107 264	1 034
32311	Printing .....	-	20	5	761	23 695	578	973	14 671	72 358	32 508	106 064	1 018
326	Plastics and rubber products manufacturing .....	-	15	8	1 607	46 231	1 093	2 304	23 846	117 093	73 944	190 237	5 717
3261	Plastics product manufacturing ..	-	14	7	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	-	7	5	659	19 889	465	1 037	11 323	68 690	30 164	99 121	1 803
326199	All other plastics product manufacturing .....	-	6	5	f	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	-	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326291	Rubber product manufacturing for mechanical use .....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	35	10	940	36 899	686	1 232	25 079	119 144	43 855	167 741	7 409
333	Machinery manufacturing .....	-	21	6	1 191	39 700	890	1 465	23 973	98 329	83 944	182 994	3 443
334	Computer and electronic product manufacturing .....	-	13	6	622	29 379	331	716	11 575	167 512	116 433	285 815	1 687
336	Transportation equipment manufacturing .....	2	8	4	536	25 909	401	871	18 257	83 783	50 231	134 273	1 933
337	Furniture and related product manufacturing .....	7	14	5	547	16 602	430	842	10 889	31 378	23 413	55 443	703
<b>BRISBANE</b>													
31-33	Manufacturing .....	1	'29	'16	'1 696	'64 199	1 171	2 521	'31 271	'244 593	'176 834	'424 655	D
335	Electrical equipment, appliance, and component manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment and component manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	-	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

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<b>BUENA PARK</b>													
31-33	Manufacturing .....	-	127	49	8 024	260 556	5 373	9 513	148 142	678 480	770 365	1 442 601	35 888
311	Food manufacturing .....	-	10	5	764	25 419	620	1 201	20 643	196 284	121 969	317 802	4 311
322	Paper manufacturing .....	-	11	8	832	39 682	639	1 379	27 888	119 198	213 883	330 421	7 173
3222	Converted paper product manufacturing .....	-	11	8	832	39 682	639	1 379	27 888	119 198	213 883	330 421	7 173
32221	Paperboard container manufacturing .....	-	7	6	686	33 881	521	1 158	23 609	106 336	189 861	293 654	7 041
322211	Corrugated and solid fiber box manufacturing .....	-	6	5	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
<b>BURBANK</b>													
31-33	Manufacturing .....	2	263	76	6 441	246 930	4 469	8 186	136 014	552 382	311 511	863 168	23 497
323	Printing and related support activities .....	4	42	12	932	39 807	634	1 242	22 198	69 267	32 629	100 492	3 403
3231	Printing and related support activities .....	4	42	12	932	39 807	634	1 242	22 198	69 267	32 629	100 492	3 403
32311	Printing .....	5	36	8	516	18 366	318	587	10 575	36 651	21 698	57 310	1 665
332	Fabricated metal product manufacturing .....	1	65	18	1 913	85 238	1 357	2 524	51 422	175 138	76 240	253 618	5 203
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	31	7	592	20 841	438	871	13 809	35 765	12 791	49 016	1 416
3329	Other fabricated metal product manufacturing .....	-	4	3	808	47 472	520	839	25 971	105 853	47 891	155 189	D
33291	Metal valve manufacturing ....	-	3	3	f	D	D	D	D	D	D	D	2 834
332912	Fluid power valve and hose fitting manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	2 834
333	Machinery manufacturing .....	-	13	7	664	28 024	413	727	13 351	66 420	41 803	106 933	4 449
335	Electrical equipment, appliance, and component manufacturing .....	5	12	6	591	17 645	426	701	9 160	44 336	23 807	66 357	D
339	Miscellaneous manufacturing .....	2	30	10	675	20 447	435	713	9 141	60 697	43 778	104 782	1 023
3399	Other miscellaneous manufacturing .....	1	24	9	579	17 490	362	569	7 000	55 242	42 599	98 148	822
<b>BURLINGAME</b>													
31-33	Manufacturing .....	2	74	23	1 949	81 797	1 214	2 309	41 894	194 046	144 677	339 166	19 526
311	Food manufacturing .....	-	14	4	557	21 376	373	637	12 486	54 410	66 567	119 674	D
323	Printing and related support activities .....	2	18	6	555	22 552	314	643	10 909	38 103	20 765	59 621	1 207
3231	Printing and related support activities .....	2	18	6	555	22 552	314	643	10 909	38 103	20 765	59 621	1 207
<b>CALABASAS</b>													
31-33	Manufacturing .....	-	15	7	1 093	44 325	659	1 298	15 465	283 491	190 147	471 464	D
311	Food manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
311813	Frozen cakes, pies, and other pastries manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D

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<b>CAMARILLO</b>													
31-33	Manufacturing .....	2	166	65	6 933	281 626	4 763	9 749	147 718	930 055	513 901	1 450 301	63 653
325	Chemical manufacturing .....	4	7	5	547	28 322	333	619	12 650	94 489	71 624	163 507	D
333	Machinery manufacturing .....	4	18	8	601	23 886	333	674	9 811	98 152	41 302	136 152	8 469
334	Computer and electronic product manufacturing .....	—	'33	'21	'3 384	'141 135	'2 341	'5 039	'77 046	'545 558	'270 274	'825 526	'41 796
3344	Semiconductor and other electronic component manufacturing .....	—	14	8	1 077	55 265	654	1 419	24 340	122 249	46 068	168 622	D
33441	Semiconductor and other electronic component manufacturing .....	—	14	8	1 077	55 265	654	1 419	24 340	122 249	46 068	168 622	D
334413	Semiconductor and related device manufacturing .....	—	6	4	f	D	D	D	D	D	D	D	D
3346	Manufacturing and reproducing magnetic and optical media .....	—	4	4	g	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media .....	—	4	4	g	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	—	3	3	g	D	D	D	D	D	D	D	D
<b>CAMPBELL</b>													
31-33	Manufacturing .....	4	131	29	3 065	126 170	1 925	3 580	60 027	260 416	145 896	405 807	12 579
334	Computer and electronic product manufacturing .....	3	20	8	f	D	D	D	D	D	D	D	5 958
339	Miscellaneous manufacturing .....	7	12	2	684	22 420	515	1 032	15 511	41 087	11 204	52 178	1 786
3391	Medical equipment and supplies manufacturing .....	8	9	2	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	8	9	2	f	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing .....	9	2	1	f	D	D	D	D	D	D	D	D
<b>CARLSBAD</b>													
31-33	Manufacturing .....	1	188	76	11 405	561 816	4 856	9 778	168 351	'1 697 337	960 041	2 709 807	153 004
323	Printing and related support activities .....	—	'21	'8	'762	'32 802	'549	'1 083	'20 949	'99 630	'51 839	'151 589	'4 015
3231	Printing and related support activities .....	—	'21	'8	'762	'32 802	'549	'1 083	'20 949	'99 630	'51 839	'151 589	'4 015
32311	Printing .....	—	'21	'8	'762	'32 802	'549	'1 083	'20 949	'99 630	'51 839	'151 589	'4 015
323110	Commercial lithographic printing .....	—	13	7	673	27 688	464	918	16 039	92 317	50 500	142 937	3 948
325	Chemical manufacturing .....	1	23	10	2 064	93 934	840	1 761	25 650	341 775	165 797	487 494	42 534
3254	Pharmaceutical and medicine manufacturing .....	1	16	7	1 570	77 520	671	1 387	20 426	281 487	131 700	393 166	D
32541	Pharmaceutical and medicine manufacturing .....	1	16	7	1 570	77 520	671	1 387	20 426	281 487	131 700	393 166	D
325411	Medicinal and botanical manufacturing .....	—	4	1	g	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	7	6	513	28 477	175	316	5 138	43 439	37 497	88 054	2 841
334	Computer and electronic product manufacturing .....	2	36	19	1 834	96 570	755	1 409	30 208	174 420	125 176	308 496	14 350
3342	Communications equipment manufacturing .....	2	5	4	727	42 694	164	337	7 666	74 973	45 507	122 273	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	1	'36	'14	'4 470	'249 937	'1 471	'3 148	'58 526	'908 812	'477 723	'1 447 735	'81 748
3391	Medical equipment and supplies manufacturing .....	—	11	6	857	38 405	209	385	5 756	101 209	100 995	229 985	3 256
33911	Medical equipment and supplies manufacturing .....	—	11	6	857	38 405	209	385	5 756	101 209	100 995	229 985	3 256
339113	Surgical appliance and supplies manufacturing .....	—	5	3	537	15 993	166	293	3 799	44 774	68 738	139 627	684
3399	Other miscellaneous manufacturing .....	1	'25	'8	'3 613	'211 532	'1 262	'2 763	'52 770	'807 603	'376 728	'1 217 750	'78 492
33992	Sporting and athletic goods manufacturing .....	1	11	3	3 344	202 853	1 117	2 584	49 268	791 271	371 291	1 195 008	D
339920	Sporting and athletic goods manufacturing .....	1	11	3	3 344	202 853	1 117	2 584	49 268	791 271	371 291	1 195 008	D

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>CARPINTERIA</b>													
31-33	Manufacturing .....	2	39	16	1 920	81 464	875	1 843	31 137	169 933	85 631	256 891	34 582
325	Chemical manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
<b>CARSON</b>													
31-33	Manufacturing .....	-	305	121	14 775	567 052	10 373	21 863	327 475	2 766 330	3 718 226	6 594 153	D
311	Food manufacturing .....	1	16	7	1 104	43 180	787	1 656	25 124	342 824	153 458	494 919	D
313	Textile mills .....	3	15	9	1 219	35 168	990	2 070	22 601	85 955	80 226	163 658	3 186
3132	Fabric mills .....	2	9	6	789	21 674	636	1 351	14 265	48 992	55 077	101 944	2 855
31324	Knit fabric mills .....	1	6	3	512	13 339	426	906	9 537	25 332	42 933	67 744	D
315	Apparel manufacturing .....	6	19	9	512	13 133	359	649	7 346	39 645	36 897	76 533	838
324	Petroleum and coal products manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing .....	-	3	2	g	D	D	D	D	D	D	D	D
32411	Petroleum refineries .....	-	2	2	g	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	-	2	2	g	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	1	23	13	1 476	42 916	839	1 382	20 744	329 516	156 640	500 140	D
3254	Pharmaceutical and medicine manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	63	20	1 704	71 221	1 116	2 384	35 825	189 946	106 553	291 243	2 796
3323	Architectural and structural metals manufacturing .....	2	10	5	582	23 930	360	791	11 752	43 351	22 982	66 670	521
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	29	8	603	26 758	438	957	15 373	79 521	34 415	108 385	888
334	Computer and electronic product manufacturing .....	1	19	10	796	35 029	470	1 045	17 322	91 950	68 552	159 754	D
335	Electrical equipment, appliance, and component manufacturing .....	-	9	6	886	35 689	627	1 218	21 178	101 529	167 493	268 207	6 912
3359	Other electrical equipment and component manufacturing .....	-	5	3	608	27 895	433	875	17 416	85 926	159 898	244 759	D
336	Transportation equipment manufacturing .....	1	13	9	2 291	75 638	1 838	4 141	50 917	171 831	175 390	352 297	D
3363	Motor vehicle parts manufacturing .....	1	7	4	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	1	6	3	g	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	1	6	3	g	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	6	5	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	6	5	f	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	-	5	5	764	34 425	431	1 002	16 207	73 007	35 694	110 627	D
337	Furniture and related product manufacturing .....	7	19	8	908	25 761	726	1 403	15 880	52 449	46 524	100 811	1 448
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	9	14	4	627	17 432	501	971	10 715	34 010	27 831	63 889	1 016
<b>CERES</b>													
31-33	Manufacturing .....	-	32	10	1 466	35 915	1 264	1 971	22 725	116 201	151 199	278 370	5 659
312	Beverage and tobacco product manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
31213	Wineries .....	-	1	1	f	D	D	D	D	D	D	D	D
312130	Wineries .....	-	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]

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>CERRITOS</b>													
31-33	Manufacturing .....	2	103	46	4 403	155 568	3 080	6 034	86 668	365 669	363 493	721 459	15 239
323	Printing and related support activities .....	-	16	10	791	32 146	560	1 168	19 525	60 769	111 821	174 416	5 161
3231	Printing and related support activities .....	-	16	10	791	32 146	560	1 168	19 525	60 769	111 821	174 416	5 161
32311	Printing .....	-	13	7	625	28 229	423	891	16 776	51 265	107 596	160 751	4 697
332	Fabricated metal product manufacturing .....	2	15	4	587	25 223	250	459	8 729	42 245	12 676	55 045	893
333	Machinery manufacturing .....	8	12	2	507	17 825	358	726	8 716	57 364	33 210	80 688	D
337	Furniture and related product manufacturing .....	1	11	7	627	15 456	512	1 014	10 412	54 266	55 749	107 102	2 091
<b>CHICO</b>													
31-33	Manufacturing .....	1	91	28	1 994	61 886	1 346	2 741	33 314	241 489	149 193	385 443	75 829
<b>CHINO</b>													
31-33	Manufacturing .....	1	257	104	9 682	313 469	7 336	14 896	195 747	798 369	814 009	1 629 399	36 185
321	Wood product manufacturing .....	3	15	8	510	14 650	399	843	9 565	37 863	37 041	78 649	630
326	Plastics and rubber products manufacturing .....	-	28	15	2 132	58 851	1 594	3 186	36 514	164 589	241 503	406 038	6 826
3261	Plastics product manufacturing ..	-	23	12	1 921	52 796	1 431	2 887	32 727	151 603	229 994	381 554	6 435
32619	Other plastics product manufacturing .....	-	17	7	1 461	36 001	1 060	2 105	19 735	124 774	105 509	227 590	4 923
326191	Plastics plumbing fixture manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	59	18	1 520	54 930	1 101	2 227	33 275	110 063	71 192	184 922	7 040
3323	Architectural and structural metals manufacturing .....	-	12	3	576	20 562	418	851	12 346	38 949	33 903	76 899	1 297
33232	Ornamental and architectural metal products manufacturing .....	-	7	3	516	17 932	375	762	11 063	32 723	26 304	63 130	1 117
333	Machinery manufacturing .....	1	21	9	919	36 747	682	1 384	23 425	73 192	84 348	160 998	1 711
336	Transportation equipment manufacturing .....	-	10	8	1 043	31 641	797	1 793	17 278	120 021	91 449	214 504	4 887
3363	Motor vehicle parts manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	4 545
33639	Other motor vehicle parts manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	1	31	15	1 697	55 965	1 361	2 640	39 569	131 113	134 215	263 555	7 708
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	25	11	1 234	39 195	1 026	2 043	31 374	92 366	63 455	154 451	6 811
33712	Household and institutional furniture manufacturing .....	-	13	9	f	D	D	D	D	D	D	D	D
<b>CHULA VISTA</b>													
31-33	Manufacturing .....	1	162	42	5 602	251 329	3 381	6 776	123 539	790 746	511 689	1 288 558	87 188
315	Apparel manufacturing .....	6	29	11	860	17 141	727	1 218	11 344	28 824	21 562	48 027	D
3152	Cut and sew apparel manufacturing .....	8	25	9	656	12 614	569	1 060	9 108	25 274	13 014	35 752	D
336	Transportation equipment manufacturing .....	-	12	6	2 714	167 734	1 122	2 552	72 821	535 814	240 000	766 274	D
3364	Aerospace product and parts manufacturing .....	-	3	1	g	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	3	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
<b>CLAREMONT</b>													
31-33	Manufacturing .....	-	29	12	748	23 636	553	1 132	14 424	56 795	43 400	102 339	8 234

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>CLOVIS</b>												
31-33	Manufacturing .....	-	55	13	2 539	83 257	1 706	3 317	39 914	248 281	189 699	444 818	13 953
334	Computer and electronic product manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
	<b>COACHELLA</b>												
31-33	Manufacturing .....	5	14	4	610	21 014	447	829	10 146	53 180	59 496	112 887	5 012
	<b>COLTON</b>												
31-33	Manufacturing .....	-	64	24	2 296	73 733	1 871	3 772	48 688	232 681	234 290	469 674	9 993
311	Food manufacturing .....	-	8	4	651	21 603	562	1 163	15 702	70 480	110 492	182 806	3 868
327	Nonmetallic mineral product manufacturing .....	-	3	3	610	18 541	531	1 111	13 087	83 862	40 458	124 611	3 093
3273	Cement and concrete product manufacturing .....	-	3	3	610	18 541	531	1 111	13 087	83 862	40 458	124 611	3 093
	<b>COMMERCE</b>												
31-33	Manufacturing .....	1	322	190	19 882	697 435	14 194	27 986	419 375	2 288 785	2 225 276	4 508 879	156 209
311	Food manufacturing .....	3	31	20	2 527	84 231	1 745	3 131	53 103	473 183	496 036	973 729	31 532
3118	Bakeries and tortilla manufacturing .....	4	10	7	1 307	41 013	927	1 560	26 470	152 884	111 565	265 119	D
31181	Bread and bakery product manufacturing .....	9	7	4	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	9	4	4	f	D	D	D	D	D	D	D	D
31183	Tortilla manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
311830	Tortilla manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
314	Textile product mills .....	-	11	9	793	25 708	574	1 306	13 965	52 089	68 996	123 056	4 751
3141	Textile furnishings mills .....	-	7	7	706	22 884	515	1 176	12 622	47 006	63 942	112 729	D
315	Apparel manufacturing .....	-	42	24	2 797	81 246	1 601	3 040	32 366	189 878	204 487	385 182	3 165
3152	Cut and sew apparel manufacturing .....	-	36	21	g	D	D	D	D	D	D	D	D
31521	Cut and sew apparel contractors .....	6	18	6	561	8 973	533	1 018	8 024	13 924	2 141	16 064	D
31523	Women's and girls' cut and sew apparel manufacturing .....	-	16	13	1 520	57 036	483	971	14 729	134 905	160 119	288 714	1 885
315239	Women's and girls' cut and sew other outerwear manufacturing .....	-	7	6	1 153	43 492	289	662	9 702	107 908	116 754	218 007	1 562
3159	Apparel accessories and other apparel manufacturing .....	1	5	3	f	D	D	D	D	D	D	D	D
31599	Apparel accessories and other apparel manufacturing .....	1	5	3	f	D	D	D	D	D	D	D	D
315999	Other apparel accessories and other apparel manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	19	14	1 527	52 252	1 044	2 117	32 263	122 830	191 725	313 047	6 269
3222	Converted paper product manufacturing .....	-	17	12	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	-	6	5	543	22 423	428	925	14 319	53 009	77 528	130 214	D
323	Printing and related support activities .....	-	37	17	2 851	132 845	2 192	4 055	86 972	266 605	273 316	535 894	32 524
3231	Printing and related support activities .....	-	37	17	2 851	132 845	2 192	4 055	86 972	266 605	273 316	535 894	32 524
32311	Printing .....	-	31	15	2 553	115 929	1 971	3 543	75 289	244 964	269 082	510 044	D
323110	Commercial lithographic printing .....	-	14	9	945	66 065	720	1 422	46 038	97 636	147 191	240 670	D
323113	Commercial screen printing .....	-	5	3	g	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	-	23	16	1 334	57 141	810	1 780	29 474	467 705	372 426	842 814	20 733
326	Plastics and rubber products manufacturing .....	-	18	12	1 172	35 057	1 007	1 990	25 499	127 307	116 265	248 130	18 639
3261	Plastics product manufacturing .....	-	17	12	g	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	-	6	5	668	25 458	549	1 231	18 910	50 513	90 416	138 501	1 494
332	Fabricated metal product manufacturing .....	-	42	24	1 836	68 235	1 350	2 830	41 548	199 085	117 758	315 915	24 697

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]

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>COMMERCE—Con.</b>													
336	Transportation equipment manufacturing .....	2	8	5	725	24 440	508	1 117	15 515	43 147	49 964	93 176	2 486
3363	Motor vehicle parts manufacturing .....	—	5	3	576	16 241	390	923	10 849	25 297	41 487	66 812	D
337	Furniture and related product manufacturing .....	4	24	15	1 194	31 752	1 017	1 971	22 594	97 321	83 197	180 142	1 854
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	4	16	9	912	22 128	800	1 532	17 290	74 178	63 819	138 301	1 127
33712	Household and institutional furniture manufacturing .....	4	14	9	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	3	16	9	590	16 207	426	780	8 687	40 987	29 708	68 709	889
3399	Other miscellaneous manufacturing .....	4	13	8	f	D	D	D	D	D	D	D	D
<b>COMPTON</b>													
31-33	Manufacturing .....	3	174	81	7 514	250 922	5 648	11 588	142 876	771 181	926 866	1 707 519	41 028
311	Food manufacturing .....	5	17	7	741	23 068	516	1 106	11 812	75 071	84 355	159 670	5 498
326	Plastics and rubber products manufacturing .....	1	14	11	997	31 214	803	1 711	19 498	100 575	113 347	214 772	4 457
3262	Rubber product manufacturing ...	1	5	4	600	17 613	498	1 029	11 405	54 125	52 024	106 421	982
332	Fabricated metal product manufacturing .....	1	42	13	1 142	36 207	911	1 984	23 755	69 347	37 351	111 430	2 717
339	Miscellaneous manufacturing .....	—	10	7	833	24 686	648	1 271	12 529	62 778	61 418	123 630	1 885
3399	Other miscellaneous manufacturing .....	—	7	5	771	22 255	605	1 184	11 150	55 700	58 692	113 825	1 566
33999	All other miscellaneous manufacturing .....	—	5	4	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
<b>CONCORD</b>													
31-33	Manufacturing .....	1	136	32	3 872	180 577	2 200	3 757	74 027	427 041	339 681	755 568	19 635
334	Computer and electronic product manufacturing .....	1	20	8	1 876	96 332	911	1 463	31 354	199 445	196 588	393 390	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	9	4	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	9	4	g	D	D	D	D	D	D	D	D
334514	Totalizing fluid meter and counting device manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
334517	Irradiation apparatus manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	—	22	7	639	36 261	289	481	11 754	129 453	68 342	188 974	5 058
3391	Medical equipment and supplies manufacturing .....	—	14	5	567	34 140	246	399	10 778	123 430	65 900	180 504	4 917
33911	Medical equipment and supplies manufacturing .....	—	14	5	567	34 140	246	399	10 778	123 430	65 900	180 504	4 917
<b>CORONA</b>													
31-33	Manufacturing .....	1	379	154	14 178	505 402	10 744	21 455	313 705	1 410 801	1 319 935	2 697 657	129 337
311	Food manufacturing .....	—	16	8	948	32 210	763	1 511	22 635	106 356	282 527	385 394	18 046
321	Wood product manufacturing .....	1	9	4	602	19 426	497	1 077	13 400	39 937	31 208	71 460	627
3219	Other wood product manufacturing .....	—	8	4	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	—	16	8	1 203	78 907	695	1 461	37 887	271 052	140 288	386 096	D
3254	Pharmaceutical and medicine manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>CORONA—Con.</b>													
326	Plastics and rubber products manufacturing .....	—	36	24	2 823	82 538	2 372	4 712	59 541	239 877	187 110	425 691	12 579
3261	Plastics product manufacturing ..	—	33	22	g	D	D	D	D	D	D	D	D
32614	Polystyrene foam product manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
326140	Polystyrene foam product manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	1	24	13	1 181	32 103	965	1 944	21 153	70 354	67 716	137 765	3 949
326199	All other plastics product manufacturing .....	1	23	12	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	3	13	10	756	27 187	573	1 235	18 502	79 392	53 055	132 279	9 812
332	Fabricated metal product manufacturing .....	—	85	34	2 760	92 549	2 072	4 225	57 170	238 356	198 285	441 554	16 435
3329	Other fabricated metal product manufacturing .....	—	17	10	1 062	35 741	746	1 578	19 528	76 811	70 342	153 747	5 784
33291	Metal valve manufacturing .....	—	6	4	618	21 110	419	914	11 434	56 103	50 052	108 028	D
333	Machinery manufacturing .....	1	32	11	666	30 365	387	703	13 868	59 470	55 281	116 858	1 523
336	Transportation equipment manufacturing .....	2	25	13	975	30 026	712	1 422	19 118	102 829	66 444	166 432	3 137
3363	Motor vehicle parts manufacturing .....	—	9	5	542	15 611	356	693	8 653	72 269	39 163	109 422	2 377
337	Furniture and related product manufacturing .....	—	26	10	867	24 053	700	1 329	16 828	57 380	69 388	120 806	1 851
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	—	14	5	510	13 241	448	886	10 971	29 862	42 638	69 277	978
339	Miscellaneous manufacturing .....	2	42	10	756	23 473	554	1 103	12 319	53 634	41 059	94 441	2 335
3399	Other miscellaneous manufacturing .....	2	37	9	692	20 850	507	998	10 574	47 771	40 064	87 583	2 232
<b>COSTA MESA</b>													
31-33	Manufacturing .....	1	300	90	7 806	286 660	5 113	8 509	126 756	713 556	564 737	1 277 176	35 407
315	Apparel manufacturing .....	2	19	6	772	13 842	727	532	12 078	28 586	11 067	38 375	D
3152	Cut and sew apparel manufacturing .....	2	19	6	772	13 842	727	532	12 078	28 586	11 067	38 375	D
332	Fabricated metal product manufacturing .....	1	43	11	866	27 528	595	868	12 712	74 386	33 804	109 622	1 239
334	Computer and electronic product manufacturing .....	1	33	19	2 064	99 519	956	1 697	32 290	223 667	223 828	450 082	18 244
3344	Semiconductor and other electronic component manufacturing .....	1	19	13	1 524	71 897	767	1 456	25 245	161 861	113 593	280 023	D
33441	Semiconductor and other electronic component manufacturing .....	1	19	13	1 524	71 897	767	1 456	25 245	161 861	113 593	280 023	D
334419	Other electronic component manufacturing .....	—	6	6	1 009	52 447	459	845	16 422	112 005	85 704	201 190	D
339	Miscellaneous manufacturing .....	2	43	12	723	23 256	508	1 053	12 116	74 193	58 550	132 635	2 070
3399	Other miscellaneous manufacturing .....	2	32	8	527	14 341	412	841	9 242	48 992	36 620	85 475	1 466
<b>COTATI</b>													
31-33	Manufacturing .....	4	30	6	520	16 069	360	673	9 538	35 067	36 570	73 855	1 001
<b>COVINA</b>													
31-33	Manufacturing .....	1	123	27	2 785	99 039	1 993	4 203	55 323	196 136	171 269	369 412	20 400
339	Miscellaneous manufacturing .....	—	8	2	f	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing .....	—	5	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	—	5	1	f	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	—	1	1	f	D	D	D	D	D	D	D	D
<b>CUDAHY</b>													
31-33	Manufacturing .....	2	35	15	918	28 033	739	1 490	18 252	66 027	42 543	109 987	1 802
<b>CULVER CITY</b>													
31-33	Manufacturing .....	2	80	19	1 847	71 293	1 308	2 615	37 868	173 629	88 154	262 657	8 805

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 <sup>2</sup>			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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>CUPERTINO</b>													
31-33	Manufacturing .....	6	44	13	1 556	89 739	623	1 182	24 170	243 302	144 131	407 959	21 104
334	Computer and electronic product manufacturing .....	6	19	8	872	52 791	249	434	7 557	97 124	81 894	188 727	11 833
3342	Communications equipment manufacturing .....	9	5	4	f	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing .....	9	4	4	534	33 509	101	198	3 720	69 168	47 276	116 444	1 776
334210	Telephone apparatus manufacturing .....	9	4	4	534	33 509	101	198	3 720	69 168	47 276	116 444	1 776
<b>CYPRESS</b>													
31-33	Manufacturing .....	—	50	18	2 046	73 852	1 114	2 281	26 482	251 428	183 195	428 692	10 457
339	Miscellaneous manufacturing .....	—	6	4	691	24 518	350	654	8 007	87 654	65 664	152 013	1 866
3399	Other miscellaneous manufacturing .....	—	5	4	f	D	D	D	D	D	D	D	D
<b>DIAMOND BAR</b>													
31-33	Manufacturing .....	2	29	7	1 379	47 134	988	2 049	24 170	60 189	134 924	194 917	4 866
332	Fabricated metal product manufacturing .....	—	6	2	609	26 449	359	822	10 334	12 655	89 915	103 037	D
3321	Forging and stamping.....	—	1	1	f	D	D	D	D	D	D	D	D
33211	Forging and stamping.....	—	1	1	f	D	D	D	D	D	D	D	D
332116	Metal stamping .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>DINUBA</b>													
31-33	Manufacturing .....	9	12	3	1 410	46 231	1 170	2 611	33 140	202 198	108 788	311 095	D
311	Food manufacturing .....	9	4	3	g	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	9	2	2	g	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	9	1	1	g	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	9	1	1	g	D	D	D	D	D	D	D	D
<b>DIXON</b>													
31-33	Manufacturing .....	—	24	9	656	25 607	475	997	16 070	100 738	112 048	212 983	4 859
<b>DOWNEY</b>													
31-33	Manufacturing .....	—	106	30	2 946	98 099	2 171	3 959	68 694	409 511	474 555	883 672	14 913
333	Machinery manufacturing .....	—	17	6	592	21 902	469	1 017	15 457	47 045	31 945	79 865	717
339	Miscellaneous manufacturing .....	—	14	3	564	17 107	445	351	11 796	18 968	16 991	36 475	1 385
<b>DUARTE</b>													
31-33	Manufacturing .....	1	38	11	1 334	46 986	879	1 416	20 651	110 570	78 453	190 717	3 306
333	Machinery manufacturing .....	—	3	3	592	20 608	402	647	10 479	57 724	40 168	98 125	D
<b>DUBLIN</b>													
31-33	Manufacturing .....	1	35	10	1 523	72 125	784	1 471	30 357	197 336	109 013	310 591	9 256
339	Miscellaneous manufacturing .....	—	6	3	963	48 604	489	1 001	21 213	125 043	81 023	208 467	1 642
3391	Medical equipment and supplies manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>EL CAJON</b>													
31-33	Manufacturing .....	1	192	56	6 363	223 393	4 684	8 265	136 965	534 122	287 678	819 572	18 444
332	Fabricated metal product manufacturing .....	-	49	15	1 614	63 503	1 199	2 198	38 308	144 097	68 877	209 263	4 983
3323	Architectural and structural metals manufacturing .....	-	14	4	570	19 742	399	765	10 952	42 753	29 048	71 777	1 341
334	Computer and electronic product manufacturing .....	2	13	5	624	19 572	326	687	10 070	29 475	19 078	48 814	1 276
3344	Semiconductor and other electronic component manufacturing .....	-	6	3	509	13 239	294	627	8 972	20 350	13 682	33 360	422
33441	Semiconductor and other electronic component manufacturing .....	-	6	3	509	13 239	294	627	8 972	20 350	13 682	33 360	422
336	Transportation equipment manufacturing .....	-	14	6	1 439	56 574	1 095	1 853	35 792	166 592	77 835	241 117	5 932
3364	Aerospace product and parts manufacturing .....	-	4	3	1 307	52 071	996	1 646	32 804	155 780	66 531	218 886	5 555
33641	Aerospace product and parts manufacturing .....	-	4	3	1 307	52 071	996	1 646	32 804	155 780	66 531	218 886	5 555
336412	Aircraft engine and engine parts manufacturing .....	-	4	3	1 307	52 071	996	1 646	32 804	155 780	66 531	218 886	5 555
339	Miscellaneous manufacturing .....	-	21	6	818	27 505	618	1 056	16 010	75 047	34 926	112 015	2 446
3399	Other miscellaneous manufacturing .....	-	18	5	707	26 633	511	909	15 193	73 816	34 672	110 500	2 350
<b>EL CENTRO</b>													
31-33	Manufacturing .....	-	21	6	f	D	D	D	D	D	D	D	D
<b>ELK GROVE</b>													
31-33	Manufacturing .....	1	37	13	1 140	41 869	970	1 760	27 779	89 789	87 191	176 228	4 451
<b>EL MONTE</b>													
31-33	Manufacturing .....	1	223	55	6 539	208 827	4 875	8 945	126 092	426 035	323 204	746 778	19 423
315	Apparel manufacturing .....	3	62	9	920	16 978	848	1 480	13 596	28 754	27 567	56 774	2 538
3152	Cut and sew apparel manufacturing .....	2	54	6	645	11 361	599	1 103	9 441	20 544	18 615	39 025	D
326	Plastics and rubber products manufacturing .....	-	5	4	567	19 635	377	585	9 370	34 384	40 741	75 822	2 998
3261	Plastics product manufacturing ..	-	5	4	567	19 635	377	585	9 370	34 384	40 741	75 822	2 998
32619	Other plastics product manufacturing .....	-	4	3	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
331	Primary metal manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3315	Foundries .....	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	46	12	1 337	46 402	944	1 965	27 828	87 525	58 641	146 366	2 692
334	Computer and electronic product manufacturing .....	1	10	7	577	24 944	371	669	9 706	43 726	18 163	60 912	3 143
337	Furniture and related product manufacturing .....	2	14	6	972	28 881	681	845	17 671	74 081	26 462	102 155	357
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	2	11	6	956	28 475	669	829	17 440	73 638	26 080	101 305	D
<b>EL PASO DE ROBLES (PASO ROBLES)</b>													
31-33	Manufacturing .....	3	75	26	2 229	76 138	1 510	2 964	39 893	194 772	188 140	376 168	10 184
334	Computer and electronic product manufacturing .....	-	7	4	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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>EL SEGUNDO</b>													
31-33	Manufacturing .....	-	82	30	21 392	1 624 925	5 162	10 697	294 932	3 932 381	4 213 509	8 187 483	262 366
324	Petroleum and coal products manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
32411	Petroleum refineries .....	-	1	1	g	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	18	10	13 921	1 011 052	2 399	4 722	149 115	2 692 428	1 151 211	3 858 580	D
3342	Communications equipment manufacturing .....	-	3	2	i	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	-	2	2	i	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	-	2	2	i	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	-	6	5	g	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	6	5	g	D	D	D	D	D	D	D	D
334412	Bare printed circuit board manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	5	3	i	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	5	3	i	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	-	2	2	i	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	6	3	i	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	3	2	i	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	3	2	i	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	-	3	2	i	D	D	D	D	D	D	D	D
<b>EMERYVILLE</b>													
31-33	Manufacturing .....	3	74	26	5 493	296 236	2 474	4 532	66 782	825 027	483 572	1 265 816	48 855
325	Chemical manufacturing .....	6	6	2	2 560	193 434	514	953	16 914	362 067	164 619	524 682	D
3254	Pharmaceutical and medicine manufacturing .....	9	2	1	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	9	2	1	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	9	2	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	-	6	4	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous manufacturing .....	-	5	3	g	D	D	D	D	D	D	D	D
33993	Doll, toy, and game manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
339932	Game, toy, and children's vehicle manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>ESCALON</b>													
31-33	Manufacturing .....	-	6	3	616	22 274	503	1 112	15 365	44 974	92 574	136 772	D

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ESCONDIDO</b>													
31-33	Manufacturing .....	2	216	43	3 963	131 943	2 943	5 781	80 659	334 528	247 795	581 718	16 368
311	Food manufacturing .....	—	14	4	1 350	39 425	1 080	1 996	27 318	134 758	84 786	218 641	5 702
3118	Bakeries and tortilla manufacturing .....	—	10	3	g	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	—	10	3	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	—	3	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	3	43	14	820	27 591	633	1 343	18 158	56 112	27 674	83 808	3 302
<b>EUREKA</b>													
31-33	Manufacturing .....	—	35	6	627	16 553	509	912	12 208	37 956	46 984	84 382	D
<b>FAIRFIELD</b>													
31-33	Manufacturing .....	—	51	20	2 784	124 530	1 889	3 707	75 584	539 613	500 957	1 038 404	44 904
311	Food manufacturing .....	—	5	3	656	25 470	349	781	11 926	116 345	64 514	178 905	D
3113	Sugar and confectionery product manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>FONTANA</b>													
31-33	Manufacturing .....	—	107	55	5 335	191 786	4 032	8 414	119 042	601 519	834 069	1 446 215	22 732
326	Plastics and rubber products manufacturing .....	1	14	10	686	23 502	436	935	13 127	65 028	90 785	160 290	3 820
3261	Plastics product manufacturing ..	1	10	8	532	18 659	359	774	11 150	58 748	66 071	129 019	D
327	Nonmetallic mineral product manufacturing .....	2	11	8	838	33 610	585	1 092	19 195	96 253	78 994	175 066	3 044
3273	Cement and concrete product manufacturing .....	2	9	7	f	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing .....	3	6	5	750	29 980	528	969	17 066	84 843	60 584	146 716	2 409
327390	Other concrete product manufacturing .....	3	6	5	750	29 980	528	969	17 066	84 843	60 584	146 716	2 409
332	Fabricated metal product manufacturing .....	—	26	15	1 634	57 070	1 285	2 638	35 168	117 616	219 937	343 964	6 732
3329	Other fabricated metal product manufacturing .....	—	7	3	553	19 960	408	816	10 878	28 108	34 349	63 529	3 517
33299	All other fabricated metal product manufacturing .....	—	7	3	553	19 960	408	816	10 878	28 108	34 349	63 529	3 517
<b>FOSTER CITY</b>													
31-33	Manufacturing .....	—	17	3	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ..	—	3	2	g	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing ..	—	1	1	g	D	D	D	D	D	D	D	D
<b>FOUNTAIN VALLEY</b>													
31-33	Manufacturing .....	1	103	26	3 003	122 428	2 387	4 454	93 432	1 095 584	888 094	1 943 466	74 295
334	Computer and electronic product manufacturing .....	—	12	5	g	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	—	5	4	g	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	—	5	4	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>FOWLER</b>													
31-33	Manufacturing .....	6	17	9	606	19 585	453	948	11 451	52 442	69 865	121 345	2 829

See footnotes at end of table.



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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>FREMONT</b>													
31-33	Manufacturing .....	—	407	182	28 230	1 629 583	15 785	30 609	737 032	4 502 600	6 217 581	10 783 966	207 257
327	Nonmetallic mineral product manufacturing .....	1	12	12	1 315	55 245	920	1 645	33 048	103 723	69 728	175 751	D
3272	Glass and glass product manufacturing .....	3	5	5	654	26 895	475	987	18 602	49 643	33 380	84 254	D
32721	Glass and glass product manufacturing .....	3	5	5	654	26 895	475	987	18 602	49 643	33 380	84 254	D
327215	Glass product manufacturing made of purchased glass ..	3	5	5	654	26 895	475	987	18 602	49 643	33 380	84 254	D
332	Fabricated metal product manufacturing .....	2	75	28	2 887	145 772	1 712	3 409	67 130	183 274	124 702	315 051	14 211
3322	Cutlery and handtool manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
33221	Cutlery and handtool manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
332212	Hand and edge tool manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	1	14	8	905	35 031	592	1 138	18 824	26 671	15 826	44 902	280
33232	Ornamental and architectural metal products manufacturing .....	—	11	6	815	31 912	524	994	16 794	19 623	13 381	35 446	D
332322	Sheet metal work manufacturing .....	—	8	5	f	D	D	D	D	D	D	D	D
3327	Machine shops: turned product; and screw, nut, and bolt manufacturing .....	1	47	12	f	D	D	D	D	D	D	D	D
33271	Machine shops .....	1	46	12	934	49 869	707	1 415	34 176	78 316	67 475	145 423	6 788
332710	Machine shops .....	1	46	12	934	49 869	707	1 415	34 176	78 316	67 475	145 423	6 788
333	Machinery manufacturing .....	1	30	15	3 768	275 079	464	905	22 755	694 108	418 856	1 126 157	18 285
3332	Industrial machinery manufacturing .....	2	15	9	3 431	253 076	317	631	18 092	570 544	339 473	923 182	15 876
33329	Other industrial machinery manufacturing .....	2	14	8	h	D	D	D	D	D	D	D	D
333295	Semiconductor machinery manufacturing .....	2	13	8	h	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	1	148	80	10 217	565 202	4 925	9 897	172 502	1 418 816	1 332 947	2 801 424	94 369
3341	Computer and peripheral equipment manufacturing .....	—	24	9	g	D	D	D	D	D	D	D	23 377
33411	Computer and peripheral equipment manufacturing ....	—	24	9	g	D	D	D	D	D	D	D	23 377
334111	Electronic computer manufacturing .....	—	13	6	f	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	3	22	14	g	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing .....	—	9	6	911	61 912	204	329	8 451	144 802	160 650	317 409	D
334210	Telephone apparatus manufacturing .....	—	9	6	911	61 912	204	329	8 451	144 802	160 650	317 409	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	9	12	7	f	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	9	12	7	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	1	70	39	5 750	269 796	3 351	6 809	112 099	432 912	700 723	1 173 914	42 575
33441	Semiconductor and other electronic component manufacturing .....	1	70	39	5 750	269 796	3 351	6 809	112 099	432 912	700 723	1 173 914	42 575
334412	Bare printed circuit board manufacturing .....	2	10	5	562	18 724	364	757	10 397	41 105	47 943	86 266	D
334413	Semiconductor and related device manufacturing .....	2	21	8	1 327	85 782	615	1 156	24 100	131 888	67 797	227 972	13 563
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	18	15	2 359	105 401	1 594	3 340	54 268	173 378	501 865	686 089	24 751
334419	Other electronic component manufacturing .....	2	12	6	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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>FREMONT—Con.</b>													
334	Computer and electronic product manufacturing—Con.												
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	23	14	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	23	14	g	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	-	8	6	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	1	21	7	1 014	39 143	519	1 047	12 206	130 497	67 568	199 781	D
3353	Electrical equipment manufacturing .....	3	6	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment manufacturing .....	3	6	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	8	5	i	D	D	D	D	D	D	D	D
3361	Motor vehicle manufacturing .....	-	1	1	i	D	D	D	D	D	D	D	D
33611	Automobile and light duty motor vehicle manufacturing .....	-	1	1	i	D	D	D	D	D	D	D	D
336112	Light truck and utility vehicle manufacturing .....	-	1	1	i	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	2	34	12	1 701	94 646	853	1 906	33 831	277 002	122 360	398 301	15 525
3391	Medical equipment and supplies manufacturing .....	2	21	8	1 450	84 218	679	1 527	27 909	256 402	112 650	367 079	13 019
33911	Medical equipment and supplies manufacturing .....	2	21	8	1 450	84 218	679	1 527	27 909	256 402	112 650	367 079	13 019
339113	Surgical appliance and supplies manufacturing ....	2	5	4	1 163	68 677	564	1 309	24 233	224 654	101 112	323 723	11 614
<b>FRESNO</b>													
31-33	Manufacturing .....	2	'401	'125	'14 190	'457 979	'9 884	'19 492	'262 646	'1 349 490	'1 882 875	'3 208 674	'97 012
311	Food manufacturing .....	2	59	29	6 021	174 517	4 368	8 823	102 203	516 039	1 067 364	1 568 461	27 506
3115	Dairy product manufacturing ....	1	5	3	672	28 418	322	682	14 029	79 458	340 008	420 729	8 939
31151	Dairy product (except frozen) manufacturing .....	1	4	3	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing ....	4	2	2	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	3	7	5	3 078	65 896	2 582	5 423	49 942	119 187	255 073	373 878	4 987
31161	Animal slaughtering and processing .....	3	7	5	3 078	65 896	2 582	5 423	49 942	119 187	255 073	373 878	4 987
311615	Poultry processing .....	-	3	2	h	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	4	28	10	1 235	43 009	819	1 373	20 877	154 133	80 555	234 497	6 995
31181	Bread and bakery product manufacturing .....	-	24	6	554	22 911	282	474	8 288	47 420	26 202	73 617	D
3119	Other food manufacturing .....	2	10	8	832	28 412	527	1 070	14 490	129 598	81 757	212 243	3 522
312	Beverage and tobacco product manufacturing .....	-	5	4	f	D	D	D	D	D	D	D	38 482
3121	Beverage manufacturing .....	-	5	4	f	D	D	D	D	D	D	D	38 482
31211	Soft drink and ice manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
312111	Soft drink manufacturing ....	-	2	2	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	1	48	8	670	21 160	415	816	13 235	46 784	27 989	74 073	8 239
3231	Printing and related support activities .....	1	48	8	670	21 160	415	816	13 235	46 784	27 989	74 073	8 239
32311	Printing .....	1	45	8	665	20 951	413	813	13 193	46 289	27 887	73 476	D
332	Fabricated metal product manufacturing .....	2	'54	'23	'1 034	'37 889	'681	'1 141	'20 887	'93 151	'72 541	'165 217	'3 025
333	Machinery manufacturing .....	2	34	15	1 708	64 711	1 035	2 049	31 646	116 247	196 999	317 899	9 489
3339	Other general purpose machinery manufacturing .....	-	10	5	666	28 029	325	696	10 571	49 206	81 121	133 023	1 959
339	Miscellaneous manufacturing .....	1	58	9	915	30 556	678	1 314	19 244	91 182	66 443	155 007	2 101
3391	Medical equipment and supplies manufacturing .....	1	35	4	643	22 071	491	986	14 760	75 788	54 283	127 804	D
33911	Medical equipment and supplies manufacturing .....	1	35	4	643	22 071	491	986	14 760	75 788	54 283	127 804	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]

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>FULLERTON</b>													
31-33	Manufacturing .....	2	247	96	8 758	294 415	6 720	13 684	191 467	1 087 314	855 286	1 949 247	80 498
311	Food manufacturing .....	—	20	10	1 098	34 776	891	1 799	25 026	189 364	227 735	416 599	7 771
3119	Other food manufacturing .....	—	5	4	651	20 090	551	1 157	14 551	101 180	60 212	161 265	D
31199	All other food manufacturing ...	—	3	3	f	D	D	D	D	D	D	D	D
311991	Perishable prepared food manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	6	8	7	896	46 794	667	1 292	32 857	238 460	175 907	415 104	D
3222	Converted paper product manufacturing .....	—	7	6	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	16	10	1 076	27 400	862	1 764	16 713	129 623	55 506	183 035	4 003
3261	Plastics product manufacturing ..	1	14	9	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	10	6	799	19 240	657	1 372	11 610	108 583	32 853	139 366	2 658
326199	All other plastics product manufacturing .....	—	10	6	799	19 240	657	1 372	11 610	108 583	32 853	139 366	2 658
332	Fabricated metal product manufacturing .....	2	68	11	751	27 605	572	1 139	18 404	55 694	30 346	85 317	3 866
334	Computer and electronic product manufacturing .....	—	11	8	812	30 462	514	933	15 809	135 739	85 322	229 898	D
337	Furniture and related product manufacturing .....	3	11	6	661	21 956	497	1 024	12 239	54 471	15 629	71 246	1 777
339	Miscellaneous manufacturing .....	—	20	5	691	18 179	621	1 282	15 243	48 347	30 744	78 957	716
3399	Other miscellaneous manufacturing .....	—	11	4	660	16 989	597	1 238	14 668	45 662	29 250	74 781	590
<b>GARDENA</b>													
31-33	Manufacturing .....	2	316	86	7 934	255 212	5 901	11 023	158 390	'589 386	'490 398	'1 081 071	71 232
311	Food manufacturing .....	—	14	6	798	26 770	555	1 041	18 507	74 747	86 155	166 461	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	4	3	599	22 458	420	809	16 012	66 326	77 385	149 265	D
31142	Fruit and vegetable canning, pickling, and drying .....	—	3	2	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	8	29	6	571	15 485	332	545	5 333	34 794	68 568	103 548	1 266
3152	Cut and sew apparel manufacturing .....	8	27	6	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	6	27	6	584	20 932	436	796	13 509	43 361	24 923	68 278	2 186
3231	Printing and related support activities .....	6	27	6	584	20 932	436	796	13 509	43 361	24 923	68 278	2 186
32311	Printing .....	6	22	6	551	19 997	406	736	12 680	42 164	24 654	66 810	1 888
332	Fabricated metal product manufacturing .....	2	85	19	1 382	54 497	1 086	2 175	38 117	154 275	74 311	225 795	4 534
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	45	6	659	26 403	516	1 117	18 670	50 881	19 275	69 184	3 079
336	Transportation equipment manufacturing .....	—	13	8	832	32 668	579	1 209	16 565	66 898	55 867	120 514	3 513
3364	Aerospace product and parts manufacturing .....	—	6	3	504	25 386	298	685	11 077	56 557	36 001	90 658	D
33641	Aerospace product and parts manufacturing .....	—	6	3	504	25 386	298	685	11 077	56 557	36 001	90 658	D
337	Furniture and related product manufacturing .....	—	19	9	1 395	28 087	1 213	1 898	21 488	'52 894	'62 159	'115 333	561
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	—	14	7	1 259	25 245	1 093	1 635	19 095	'45 406	'58 241	'103 895	445
33712	Household and institutional furniture manufacturing .....	—	8	6	1 190	23 329	1 038	1 530	17 787	'42 045	'55 470	'97 754	364
337121	Upholstered household furniture manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	289

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GARDEN GROVE</b>													
31-33	Manufacturing .....	1	306	77	8 486	287 525	5 980	12 943	153 604	713 294	539 595	1 262 385	37 428
315	Apparel manufacturing .....	4	82	7	955	20 497	732	1 283	10 877	37 527	12 301	48 925	1 144
3152	Cut and sew apparel manufacturing .....	3	79	7	f	D	D	D	D	D	D	D	D
31521	Cut and sew apparel contractors .....	5	66	4	623	10 259	568	981	8 122	15 812	1 911	16 882	D
323	Printing and related support activities .....	—	25	4	686	24 517	496	1 050	14 254	82 256	38 259	120 571	3 482
3231	Printing and related support activities .....	—	25	4	686	24 517	496	1 050	14 254	82 256	38 259	120 571	3 482
32311	Printing .....	—	22	4	681	24 332	492	1 044	14 144	81 912	38 200	120 167	3 473
325	Chemical manufacturing .....	—	12	8	1 062	36 594	611	1 179	15 059	76 869	139 465	216 452	1 631
3254	Pharmaceutical and medicine manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	5	62	19	1 811	59 907	1 439	2 878	37 991	145 306	84 425	231 351	9 725
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	7	26	4	729	22 673	624	1 270	16 164	74 347	25 569	100 951	5 671
33272	Turned product and screw, nut, and bolt manufacturing .....	9	3	1	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	23	10	863	36 716	480	923	11 310	84 544	64 623	149 036	D
336	Transportation equipment manufacturing .....	—	8	2	661	28 037	426	1 890	13 807	46 552	23 385	77 517	2 001
3364	Aerospace product and parts manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>GILROY</b>													
31-33	Manufacturing .....	1	76	21	2 005	76 690	1 566	2 731	52 718	236 459	195 906	471 086	5 857
<b>GLENDALE</b>													
31-33	Manufacturing .....	3	274	62	4 795	172 938	3 540	7 053	109 815	391 784	233 055	628 423	13 713
311	Food manufacturing .....	1	27	6	884	29 168	619	1 157	21 691	92 195	56 703	148 961	1 875
3118	Bakeries and tortilla manufacturing .....	—	23	5	850	27 934	598	1 114	21 034	88 218	48 244	136 525	1 608
31181	Bread and bakery product manufacturing .....	—	21	5	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	—	4	3	f	D	D	D	D	D	D	D	1 226
315	Apparel manufacturing .....	5	27	8	527	8 726	442	806	6 290	14 310	8 549	22 932	443
3152	Cut and sew apparel manufacturing .....	5	27	8	527	8 726	442	806	6 290	14 310	8 549	22 932	443
323	Printing and related support activities .....	2	40	9	659	22 052	457	989	13 834	47 494	23 858	70 921	3 727
3231	Printing and related support activities .....	2	40	9	659	22 052	457	989	13 834	47 494	23 858	70 921	3 727
32311	Printing .....	3	37	8	595	19 300	422	930	12 661	42 949	22 527	65 032	D
332	Fabricated metal product manufacturing .....	4	49	14	775	28 020	618	1 299	19 239	49 957	19 561	69 570	868
<b>GLENDORA</b>													
31-33	Manufacturing .....	4	42	12	1 285	40 068	898	1 704	27 423	167 363	99 869	264 646	5 790
339	Miscellaneous manufacturing .....	—	10	4	575	19 575	387	773	14 339	97 566	38 430	133 353	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>GOLETA</b>													
31-33	Manufacturing .....	2	136	45	6 784	385 189	2 801	5 768	112 225	947 638	389 151	1 328 537	31 724
334	Computer and electronic product manufacturing .....	1	42	23	4 003	260 164	1 246	2 614	60 173	598 619	269 171	862 024	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	24	12	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	24	12	h	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	5	4	g	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing .....	—	6	3	733	47 233	90	169	6 400	67 905	28 944	96 721	1 659
339	Miscellaneous manufacturing .....	4	21	8	1 474	78 331	835	1 739	28 233	255 771	51 270	303 030	11 986
3391	Medical equipment and supplies manufacturing .....	4	14	6	1 223	72 520	702	1 430	24 997	236 837	44 873	278 423	D
33911	Medical equipment and supplies manufacturing .....	4	14	6	1 223	72 520	702	1 430	24 997	236 837	44 873	278 423	D
339113	Surgical appliance and supplies manufacturing .....	9	6	3	f	D	D	D	D	D	D	D	D
<b>HANFORD</b>													
31-33	Manufacturing .....	3	29	8	1 190	41 770	1 002	2 102	31 151	134 288	149 603	272 128	5 547
<b>HAWTHORNE</b>													
31-33	Manufacturing .....	1	99	34	3 454	143 231	2 444	4 639	85 185	333 537	256 457	607 129	32 674
336	Transportation equipment manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>HAYWARD</b>													
31-33	Manufacturing .....	2	387	133	13 476	546 443	8 539	16 885	256 385	1 262 692	1 471 916	2 728 500	111 705
311	Food manufacturing .....	1	43	24	2 485	90 041	1 565	3 009	40 252	216 118	227 707	444 608	17 812
3115	Dairy product manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	3	2	525	11 196	479	823	8 305	20 193	31 850	54 354	429
31161	Animal slaughtering and processing .....	—	3	2	525	11 196	479	823	8 305	20 193	31 850	54 354	429
3118	Bakeries and tortilla manufacturing .....	5	18	10	722	19 698	438	874	11 085	41 267	24 973	66 060	1 517
31181	Bread and bakery product manufacturing .....	6	15	9	f	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	—	5	3	524	26 897	145	241	5 723	45 483	169 421	211 982	8 335
3121	Beverage manufacturing .....	—	5	3	524	26 897	145	241	5 723	45 483	169 421	211 982	8 335
323	Printing and related support activities .....	2	36	9	894	27 106	677	890	16 377	41 253	36 706	77 801	13 483
3231	Printing and related support activities .....	2	36	9	894	27 106	677	890	16 377	41 253	36 706	77 801	13 483
32311	Printing .....	2	34	9	f	D	D	D	D	D	D	D	13 483
323110	Commercial lithographic printing .....	2	12	5	592	15 902	481	499	10 311	18 218	23 134	41 147	D
325	Chemical manufacturing .....	1	21	8	532	27 244	253	513	9 410	91 428	154 884	245 754	9 955
326	Plastics and rubber products manufacturing .....	1	32	17	1 784	55 270	1 299	2 802	31 728	136 021	113 554	249 303	5 020
3261	Plastics product manufacturing .....	1	30	16	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	18	9	1 139	35 858	858	1 911	22 502	83 007	71 110	152 974	3 172
326199	All other plastics product manufacturing .....	—	18	9	1 139	35 858	858	1 911	22 502	83 007	71 110	152 974	3 172
327	Nonmetallic mineral product manufacturing .....	3	10	4	529	26 037	400	821	17 764	62 128	37 451	93 165	10 987

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>HAYWARD—Con.</b>													
332	Fabricated metal product manufacturing .....	3	87	24	1 795	61 978	1 386	2 882	42 131	124 608	60 604	181 569	8 890
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	38	7	650	21 045	536	1 106	14 558	37 912	22 329	60 564	4 732
333	Machinery manufacturing .....	5	27	7	984	57 156	359	681	14 384	27 040	158 956	196 363	13 944
334	Computer and electronic product manufacturing .....	4	31	13	1 203	63 614	545	1 046	18 214	182 428	91 991	269 988	3 927
336	Transportation equipment manufacturing .....	—	9	2	f	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
339	Miscellaneous manufacturing .....	7	32	7	820	32 774	519	969	14 626	92 437	43 626	136 739	8 072
3391	Medical equipment and supplies manufacturing .....	8	10	4	540	24 771	318	626	10 040	72 103	27 106	99 892	5 230
33911	Medical equipment and supplies manufacturing .....	8	10	4	540	24 771	318	626	10 040	72 103	27 106	99 892	5 230
<b>HEALDSBURG</b>													
31-33	Manufacturing .....	1	47	11	814	35 393	491	1 005	18 375	103 309	75 514	172 941	8 952
<b>HEMET</b>													
31-33	Manufacturing .....	—	29	11	1 128	33 787	938	1 942	23 376	65 987	61 725	132 896	1 095
334	Computer and electronic product manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
<b>HERCULES</b>													
31-33	Manufacturing .....	—	11	4	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
334510	Electromedical and electrotherapeutic apparatus manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>HESPERIA</b>													
31-33	Manufacturing .....	2	76	16	1 154	33 358	987	1 886	24 116	70 351	57 730	127 333	4 115
<b>HOLLISTER</b>													
31-33	Manufacturing .....	1	47	17	1 540	52 173	1 133	2 405	33 542	132 651	166 199	299 470	4 992
<b>HUNTINGTON BEACH</b>													
31-33	Manufacturing .....	—	418	97	17 662	974 275	6 823	13 528	236 403	2 739 519	2 631 796	4 549 116	332 494
315	Apparel manufacturing .....	—	17	6	g	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing .....	—	17	6	g	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing .....	—	6	4	g	D	D	D	D	D	D	D	D
315239	Women's and girls' cut and sew other outerwear manufacturing .....	—	4	4	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	30	15	2 718	98 960	1 604	3 103	44 835	186 725	152 344	341 480	D
3261	Plastics product manufacturing .....	—	26	14	h	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	23	13	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	—	22	13	2 447	89 575	1 386	2 692	38 250	163 321	122 387	287 471	D
332	Fabricated metal product manufacturing .....	2	83	19	1 230	49 134	873	1 819	30 374	97 722	42 873	137 848	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	46	10	672	29 053	500	1 080	19 787	54 908	19 076	72 135	D
33271	Machine shops .....	—	40	8	590	25 356	434	934	17 217	45 915	17 238	61 290	D
332710	Machine shops .....	—	40	8	590	25 356	434	934	17 217	45 915	17 238	61 290	D
333	Machinery manufacturing .....	4	45	7	504	21 470	348	665	11 741	45 422	25 847	71 818	1 576

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>HUNTINGTON BEACH—Con.</b>													
334	Computer and electronic product manufacturing .....	—	31	12	i	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	—	4	2	i	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	4	2	i	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	4	2	i	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	2	30	11	880	35 643	607	1 236	23 321	79 507	86 964	164 808	12 751
3363	Motor vehicle parts manufacturing .....	1	15	5	590	21 245	402	917	14 379	53 524	68 749	120 636	11 688
339	Miscellaneous manufacturing .....	1	48	9	768	26 815	545	1 111	14 367	67 028	50 631	123 053	D
<b>HUNTINGTON PARK</b>													
31-33	Manufacturing .....	2	135	54	4 115	109 358	3 434	6 729	75 105	280 015	254 202	520 898	20 405
311	Food manufacturing .....	5	12	3	562	14 124	487	986	10 901	59 309	47 578	106 687	2 482
315	Apparel manufacturing .....	2	47	23	1 686	31 443	1 473	2 843	23 362	93 864	95 685	167 950	2 037
3152	Cut and sew apparel manufacturing .....	2	46	23	g	D	D	D	D	D	D	D	2 037
31521	Cut and sew apparel contractors .....	4	31	13	863	12 797	779	1 349	10 418	20 123	2 465	22 653	1 636
315212	Women's, girls', and infants' cut and sew apparel contractors .....	5	30	12	f	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing .....	1	11	9	750	17 298	629	1 385	11 884	71 091	90 207	139 690	364
332	Fabricated metal product manufacturing .....	—	27	8	538	21 127	438	925	14 760	39 736	37 383	77 650	3 715
<b>INDUSTRY</b>													
31-33	Manufacturing .....	1	314	183	24 059	842 804	17 253	34 633	497 822	2 578 203	2 797 597	5 352 792	179 582
311	Food manufacturing .....	1	49	31	3 696	138 949	2 455	4 643	73 666	598 608	842 226	1 439 090	108 206
3115	Dairy product manufacturing .....	—	8	6	1 547	65 973	823	1 575	25 629	151 608	510 217	664 057	D
31151	Dairy product (except frozen) manufacturing .....	—	8	6	1 547	65 973	823	1 575	25 629	151 608	510 217	664 057	D
311511	Fluid milk manufacturing .....	—	3	3	f	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	4	17	10	658	19 944	432	779	10 268	96 076	103 105	199 046	5 227
314	Textile product mills .....	—	3	2	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills .....	—	2	1	f	D	D	D	D	D	D	D	D
31411	Carpet and rug mills .....	—	1	1	f	D	D	D	D	D	D	D	D
314110	Carpet and rug mills .....	—	1	1	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	1	23	10	2 429	77 373	1 650	3 047	34 396	198 969	365 054	548 414	1 393
3152	Cut and sew apparel manufacturing .....	2	22	9	g	D	D	D	D	D	D	D	D
31521	Cut and sew apparel contractors .....	—	17	4	f	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors .....	—	16	4	f	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing .....	2	5	5	1 129	43 501	636	1 204	16 758	154 364	221 112	368 496	D
315239	Women's and girls' cut and sew other outerwear manufacturing .....	9	2	2	f	D	D	D	D	D	D	D	D
3159	Apparel accessories and other apparel manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
31599	Apparel accessories and other apparel manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
315999	Other apparel accessories and other apparel manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	2	8	6	1 027	15 720	434	853	7 582	44 399	47 866	91 819	2 334
3219	Other wood product manufacturing .....	—	5	5	f	D	D	D	D	D	D	D	2 303
32199	All other wood product manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
321999	All other miscellaneous wood product 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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>INDUSTRY—Con.</b>													
322	Paper manufacturing .....	—	16	15	1 623	65 945	1 260	2 757	47 784	140 602	260 652	403 494	10 197
3222	Converted paper product manufacturing .....	—	15	14	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	—	7	7	949	41 764	725	1 630	30 750	86 877	152 014	239 059	7 913
322211	Corrugated and solid fiber box manufacturing .....	—	5	5	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	—	22	10	837	30 589	689	1 403	21 113	64 192	45 754	109 947	4 813
3231	Printing and related support activities .....	—	22	10	837	30 589	689	1 403	21 113	64 192	45 754	109 947	4 813
32311	Printing .....	—	20	10	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	—	12	8	738	26 773	615	1 258	18 733	56 349	40 441	96 790	4 637
325	Chemical manufacturing .....	—	19	16	1 855	70 525	1 195	2 362	35 522	403 142	329 062	737 761	14 473
3256	Soap, cleaning compound, and toilet preparation manufacturing .....	—	7	6	825	31 224	503	908	14 889	253 373	199 358	450 405	9 510
32562	Toilet preparation manufacturing .....	—	3	3	620	20 721	410	729	12 136	219 685	165 193	382 516	8 241
325620	Toilet preparation manufacturing .....	—	3	3	620	20 721	410	729	12 136	219 685	165 193	382 516	8 241
326	Plastics and rubber products manufacturing .....	—	20	15	2 089	63 891	1 688	3 509	38 308	190 767	145 483	336 400	8 782
3261	Plastics product manufacturing .....	—	14	11	1 721	52 936	1 388	2 925	30 729	166 485	118 904	285 070	7 982
32611	Plastics packaging materials and unlaminated film and sheet manufacturing .....	—	4	4	f	D	D	D	D	D	D	D	D
326111	Plastics bag manufacturing .....	—	3	3	566	13 356	435	842	4 712	47 921	33 012	80 080	D
32619	Other plastics product manufacturing .....	—	6	4	711	24 520	569	1 204	14 301	79 276	32 687	111 060	5 004
326199	All other plastics product manufacturing .....	—	6	4	711	24 520	569	1 204	14 301	79 276	32 687	111 060	5 004
331	Primary metal manufacturing .....	—	15	9	1 214	44 828	894	1 941	28 545	81 464	144 893	228 534	4 513
3315	Foundries .....	—	8	5	602	20 551	478	995	12 837	37 274	32 882	70 803	877
332	Fabricated metal product manufacturing .....	—	38	18	2 720	111 219	2 053	4 351	71 017	268 039	149 719	406 061	8 229
3325	Hardware manufacturing .....	—	3	3	559	20 876	452	1 046	15 479	74 811	26 982	102 180	1 152
33251	Hardware manufacturing .....	—	3	3	559	20 876	452	1 046	15 479	74 811	26 982	102 180	1 152
332510	Hardware manufacturing .....	—	3	3	559	20 876	452	1 046	15 479	74 811	26 982	102 180	1 152
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	—	17	7	957	45 692	714	1 437	29 576	80 270	60 766	132 844	4 053
33272	Turned product and screw, nut, and bolt manufacturing .....	—	5	2	541	26 230	385	809	15 828	32 053	42 535	71 802	1 341
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product manufacturing .....	—	3	3	772	28 249	606	1 271	18 142	79 032	41 941	116 821	1 576
33299	All other fabricated metal product manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
332998	Enameled iron and metal sanitary ware manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	3	15	5	1 179	47 836	870	1 717	30 213	85 200	52 836	139 407	D
335	Electrical equipment, appliance, and component manufacturing .....	2	11	8	1 331	45 741	921	1 939	26 899	121 193	119 051	238 863	3 632
3351	Electric lighting equipment manufacturing .....	—	6	5	838	28 815	550	1 177	15 656	83 178	88 975	172 931	2 671
33512	Lighting fixture manufacturing .....	—	6	5	838	28 815	550	1 177	15 656	83 178	88 975	172 931	2 671
335129	Other lighting equipment manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	3	30	16	1 427	42 809	1 119	2 069	27 551	122 841	101 522	225 309	2 465
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	4	18	11	1 037	28 718	826	1 479	18 986	60 028	66 250	127 427	1 266
33712	Household and institutional furniture manufacturing .....	4	16	10	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	1	18	8	579	16 825	438	787	10 624	65 536	23 075	82 931	712
3399	Other miscellaneous manufacturing .....	—	15	7	f	D	D	D	D	D	D	D	D

See footnotes at end of table.



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

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NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>INGLEWOOD</b>													
31-33	Manufacturing .....	3	88	25	2 802	105 875	2 025	4 152	48 629	242 197	179 580	409 768	10 561
311	Food manufacturing .....	7	10	4	806	20 975	663	1 403	12 136	61 696	73 729	135 786	3 411
3116	Animal slaughtering and processing .....	5	4	3	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	5	4	3	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	5	3	3	505	11 532	453	965	8 498	32 951	54 089	87 374	D
<b>IRVINE</b>													
31-33	Manufacturing .....	1	454	231	33 821	1 522 278	19 502	39 540	611 424	4 498 172	4 892 714	9 475 290	457 624
311	Food manufacturing .....	—	21	8	702	25 612	556	1 160	16 979	318 961	326 143	646 749	2 248
314	Textile product mills .....	2	10	10	1 136	34 746	888	2 022	23 950	59 579	115 600	175 126	3 869
3141	Textile furnishings mills .....	1	3	3	f	D	D	D	D	D	D	D	D
31411	Carpet and rug mills .....	1	2	2	f	D	D	D	D	D	D	D	D
314110	Carpet and rug mills .....	1	2	2	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	1	17	9	2 331	61 787	1 905	4 067	43 798	114 359	176 210	293 218	3 847
3152	Cut and sew apparel manufacturing .....	1	16	9	g	D	D	D	D	D	D	D	3 847
31523	Women's and girls' cut and sew apparel manufacturing .....	—	6	4	g	D	D	D	D	D	D	D	D
315233	Women's and girls' cut and sew dress manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	1	75	25	1 547	62 866	1 133	2 163	40 447	133 677	80 651	215 209	10 048
3231	Printing and related support activities .....	1	75	25	1 547	62 866	1 133	2 163	40 447	133 677	80 651	215 209	10 048
32311	Printing .....	1	67	23	1 412	54 318	1 044	1 976	35 374	120 548	76 356	197 688	9 696
323110	Commercial lithographic printing .....	1	28	13	649	28 892	444	858	17 205	67 605	42 904	110 385	7 039
325	Chemical manufacturing .....	—	21	10	3 742	187 379	1 984	3 848	71 133	674 206	103 771	802 940	D
3254	Pharmaceutical and medicine manufacturing .....	—	10	6	3 385	171 724	1 797	3 498	65 204	637 319	63 953	726 108	D
32541	Pharmaceutical and medicine manufacturing .....	—	10	6	3 385	171 724	1 797	3 498	65 204	637 319	63 953	726 108	D
325412	Pharmaceutical preparation manufacturing .....	—	7	5	h	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	1	12	9	820	22 103	662	1 400	14 359	92 706	53 769	145 541	7 123
3261	Plastics product manufacturing ..	—	11	8	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	1	7	5	570	15 672	484	975	11 042	75 009	41 616	115 656	D
332	Fabricated metal product manufacturing .....	1	36	17	1 848	76 731	1 263	2 511	41 949	174 007	91 137	268 012	9 411
3329	Other fabricated metal product manufacturing .....	—	6	4	974	37 857	666	1 320	21 462	71 988	35 103	108 186	3 581
33291	Metal valve manufacturing ....	—	3	2	f	D	D	D	D	D	D	D	D
332912	Fluid power valve and hose fitting manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	26	15	3 423	142 103	1 957	3 764	64 649	241 104	220 460	475 718	52 806
3333	Commercial and service industry machinery manufacturing .....	—	8	4	1 748	59 400	975	1 695	25 434	63 856	90 334	166 861	D
33331	Commercial and service industry machinery manufacturing .....	—	8	4	1 748	59 400	975	1 695	25 434	63 856	90 334	166 861	D
333315	Photographic and photocopying equipment manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
3339	Other general purpose machinery manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
33399	All other general purpose machinery manufacturing ....	—	4	2	f	D	D	D	D	D	D	D	D
333995	Fluid power cylinder and actuator 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.**

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>IRVINE—Con.</b>													
334	Computer and electronic product manufacturing .....	-	110	60	8 414	438 781	3 602	7 015	117 441	1 335 252	2 719 611	4 059 138	163 040
3341	Computer and peripheral equipment manufacturing .....	-	27	13	2 954	173 944	836	1 385	26 103	616 600	2 135 645	2 751 455	D
33411	Computer and peripheral equipment manufacturing ....	-	27	13	2 954	173 944	836	1 385	26 103	616 600	2 135 645	2 751 455	D
334111	Electronic computer manufacturing .....	-	4	2	g	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing .....	-	8	4	773	50 629	211	464	10 408	134 059	113 571	245 788	D
334119	Other computer peripheral equipment manufacturing ..	1	15	7	f	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	2	8	4	521	27 313	155	310	4 122	70 181	76 075	149 335	D
3344	Semiconductor and other electronic component manufacturing .....	2	39	26	2 740	121 872	1 460	3 118	40 092	267 468	279 316	549 464	9 414
33441	Semiconductor and other electronic component manufacturing .....	2	39	26	2 740	121 872	1 460	3 118	40 092	267 468	279 316	549 464	9 414
334412	Bare printed circuit board manufacturing .....	1	7	4	784	24 963	499	1 148	9 089	14 437	60 206	75 728	806
334417	Electronic connector manufacturing .....	-	3	3	634	26 255	315	668	10 732	55 509	23 805	77 735	2 408
334418	Printed circuit assembly (electronic assembly) manufacturing .....	-	7	6	566	33 542	209	419	6 193	68 156	68 462	137 277	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	1	29	15	2 048	109 448	1 050	2 015	44 654	364 712	222 147	586 122	18 456
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	1	29	15	2 048	109 448	1 050	2 015	44 654	364 712	222 147	586 122	18 456
334510	Electromedical and electrotherapeutic apparatus manufacturing ...	-	7	4	780	42 717	547	1 108	26 229	194 241	155 876	349 996	5 830
335	Electrical equipment, appliance, and component manufacturing .....	-	16	12	1 288	61 409	635	1 317	21 207	55 799	133 893	200 243	2 646
3353	Electrical equipment manufacturing .....	-	5	4	551	24 112	275	536	8 331	S	18 195	22 701	D
33531	Electrical equipment manufacturing .....	-	5	4	551	24 112	275	536	8 331	S	18 195	22 701	D
3359	Other electrical equipment and component manufacturing .....	-	6	5	631	34 015	280	622	11 165	55 218	111 854	167 491	2 233
33599	All other electrical equipment and component manufacturing .....	-	5	4	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	-	4	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	4	13	6	755	29 072	572	1 109	17 692	95 747	111 350	203 591	4 632
3363	Motor vehicle parts manufacturing .....	4	8	5	665	25 548	498	1 012	15 318	85 879	104 132	186 505	4 339
337	Furniture and related product manufacturing .....	-	15	10	1 229	47 404	914	1 845	30 948	154 593	81 165	233 733	9 068
3372	Office furniture (including fixtures) manufacturing .....	-	5	4	759	36 078	557	1 126	23 131	126 714	53 570	178 328	D
33721	Office furniture (including fixtures) manufacturing .....	-	5	4	759	36 078	557	1 126	23 131	126 714	53 570	178 328	D
337214	Office furniture (except wood) manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	4	55	29	5 663	296 442	2 705	5 755	80 441	947 583	508 687	1 484 664	38 777
3391	Medical equipment and supplies manufacturing .....	4	30	21	4 907	266 403	2 251	4 800	69 507	874 545	440 400	1 343 700	36 374
33911	Medical equipment and supplies manufacturing .....	4	30	21	4 907	266 403	2 251	4 800	69 507	874 545	440 400	1 343 700	36 374
339111	Laboratory apparatus and furniture manufacturing ....	-	3	3	g	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	4	10	8	1 133	44 978	733	1 485	24 470	141 741	43 955	187 586	4 886
339113	Surgical appliance and supplies manufacturing ....	9	7	6	2 039	129 375	828	2 161	23 165	325 100	197 226	527 920	D
3399	Other miscellaneous manufacturing .....	1	25	8	756	30 039	454	955	10 934	73 038	68 287	140 964	2 403

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>KING CITY</b>													
31-33	Manufacturing .....	7	10	3	1 329	41 034	1 114	1 777	29 745	129 486	149 024	278 158	D
311	Food manufacturing .....	7	3	2	g	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	7	2	2	g	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	7	2	2	g	D	D	D	D	D	D	D	D
311423	Dried and dehydrated food manufacturing .....	7	2	2	g	D	D	D	D	D	D	D	D
<b>LAGUNA HILLS</b>													
31-33	Manufacturing .....	3	84	10	828	26 983	669	1 126	18 747	54 518	32 692	87 703	2 458
<b>LA HABRA</b>													
31-33	Manufacturing .....	5	70	16	1 003	37 046	613	1 267	18 072	109 011	54 084	164 254	2 824
<b>LAKE ELSINORE</b>													
31-33	Manufacturing .....	4	59	14	932	26 033	755	1 427	16 388	67 405	42 971	108 971	2 197
<b>LAKE FOREST</b>													
31-33	Manufacturing .....	4	115	50	4 455	189 693	2 741	5 615	80 322	543 016	430 932	971 941	25 536
334	Computer and electronic product manufacturing .....	3	22	12	674	32 062	355	708	11 660	83 416	48 068	131 314	4 445
339	Miscellaneous manufacturing .....	7	13	9	1 671	76 807	1 033	2 119	30 427	224 030	213 165	438 928	13 181
3391	Medical equipment and supplies manufacturing .....	8	6	6	1 292	63 655	764	1 533	23 633	193 215	201 656	395 179	12 462
33911	Medical equipment and supplies manufacturing .....	8	6	6	1 292	63 655	764	1 533	23 633	193 215	201 656	395 179	12 462
339112	Surgical and medical instrument manufacturing ..	7	3	3	f	D	D	D	D	D	D	D	D
339115	Ophthalmic goods manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
<b>LA MIRADA</b>													
31-33	Manufacturing .....	—	82	48	4 013	160 373	2 898	6 055	101 730	486 622	519 137	1 009 177	17 960
326	Plastics and rubber products manufacturing .....	—	10	8	926	33 754	715	1 498	22 838	118 902	186 774	307 794	7 500
3261	Plastics product manufacturing ..	—	8	7	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	3	5	3	579	21 358	469	958	16 672	55 207	64 965	121 596	D
3363	Motor vehicle parts manufacturing .....	3	4	2	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	3	2	2	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	3	2	2	f	D	D	D	D	D	D	D	D
<b>LANCASTER</b>													
31-33	Manufacturing .....	—	57	11	1 974	56 560	1 359	2 436	27 835	113 933	113 605	228 021	2 039
336	Transportation equipment manufacturing .....	—	9	4	872	21 072	746	1 179	13 338	43 126	81 680	125 125	736
3362	Motor vehicle body and trailer manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>LA PALMA</b>													
31-33	Manufacturing .....	—	13	6	880	33 705	619	1 215	17 793	103 023	122 179	224 056	2 300
<b>LATHROP</b>													
31-33	Manufacturing .....	—	18	12	1 509	59 377	1 229	2 664	45 481	263 965	181 433	442 082	13 929
<b>LA VERNE</b>													
31-33	Manufacturing .....	5	52	17	1 358	49 937	1 077	2 138	34 027	121 762	83 416	204 473	5 147
<b>LEMOORE</b>													
31-33	Manufacturing .....	3	9	4	f	D	D	D	D	D	D	D	4 843
311	Food manufacturing .....	2	4	2	f	D	D	D	D	D	D	D	D
<b>LINCOLN</b>													
31-33	Manufacturing .....	—	15	8	881	34 766	755	1 491	29 282	76 191	111 471	189 230	D
<b>LINDSAY</b>													
31-33	Manufacturing .....	1	8	5	f	D	D	D	D	D	D	D	3 963

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]

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LIVERMORE</b>													
31-33	Manufacturing .....	1	144	53	4 604	199 170	2 765	5 545	91 084	446 911	403 841	860 068	58 433
323	Printing and related support activities .....	2	16	7	513	19 498	364	710	10 673	33 107	32 973	66 541	2 689
3231	Printing and related support activities .....	2	16	7	513	19 498	364	710	10 673	33 107	32 973	66 541	2 689
332	Fabricated metal product manufacturing .....	1	43	12	1 122	40 611	790	1 590	26 302	78 145	43 450	127 470	9 341
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	22	6	578	22 146	365	707	14 229	38 737	22 281	66 287	D
33271	Machine shops .....	—	19	5	525	20 161	320	620	12 824	34 890	20 832	61 008	4 852
332710	Machine shops .....	—	19	5	525	20 161	320	620	12 824	34 890	20 832	61 008	4 852
334	Computer and electronic product manufacturing .....	3	18	8	891	57 789	206	402	7 362	121 015	98 641	219 665	11 752
3344	Semiconductor and other electronic component manufacturing .....	1	8	5	567	37 430	157	314	5 757	98 213	68 746	166 444	D
33441	Semiconductor and other electronic component manufacturing .....	1	8	5	567	37 430	157	314	5 757	98 213	68 746	166 444	D
<b>LIVINGSTON</b>													
31-33	Manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	D
311	Food manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	—	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	—	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing .....	—	1	1	g	D	D	D	D	D	D	D	D
<b>LODI</b>													
31-33	Manufacturing .....	5	96	32	3 213	109 859	2 579	5 055	78 385	271 627	393 095	671 161	17 984
311	Food manufacturing .....	7	11	6	1 246	43 733	1 117	2 186	37 141	108 599	229 521	338 239	8 927
3114	Fruit and vegetable preserving and specialty food manufacturing .....	8	3	2	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	8	3	2	f	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning .....	8	3	2	f	D	D	D	D	D	D	D	D
<b>LONG BEACH</b>													
31-33	Manufacturing .....	—	318	85	19 889	1 159 349	10 209	20 207	542 820	2 689 795	2 630 657	5 117 885	83 535
332	Fabricated metal product manufacturing .....	3	60	19	1 137	40 105	881	1 690	25 624	82 728	53 563	135 155	2 284
334	Computer and electronic product manufacturing .....	2	14	5	863	37 034	548	1 116	18 187	109 031	83 693	192 560	6 051
336	Transportation equipment manufacturing .....	—	28	15	14 516	977 409	6 263	12 880	434 237	2 240 046	2 139 261	4 183 448	64 735
3363	Motor vehicle parts manufacturing .....	—	8	4	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	—	7	6	j	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	7	6	j	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing .....	—	4	4	j	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	3	3	2	573	34 328	207	395	11 091	10 491	15 293	25 500	D
33699	Other transportation equipment manufacturing .....	3	3	2	573	34 328	207	395	11 091	10 491	15 293	25 500	D
336992	Military armored vehicle, tank, and tank component manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	3	33	9	564	20 252	393	818	10 612	42 830	26 158	66 044	1 398

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LOS ALAMITOS</b>													
31-33	Manufacturing .....	1	60	12	2 108	83 710	1 376	3 041	45 144	174 640	143 803	325 918	6 871
323	Printing and related support activities .....	-	8	1	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	-	8	1	f	D	D	D	D	D	D	D	D
32311	Printing .....	-	8	1	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	4	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>LOS ANGELES</b>													
31-33	Manufacturing .....	2	'7 185	'1 602	'162 210	'5 478 365	'113 916	'215 279	'2 837 338	'14 750 787	'13 537 304	'28 490 781	'971 254
311	Food manufacturing .....	'3	'433	'113	'13 381	'410 585	'8 998	'17 658	'239 313	'1 579 639	'1 785 260	'3 353 615	'74 992
3113	Sugar and confectionery product manufacturing .....	5	20	5	1 512	49 486	1 103	2 376	34 994	182 806	234 697	414 902	D
31131	Sugar manufacturing .....	9	2	1	f	D	D	D	D	D	D	D	D
311312	Cane sugar refining .....	9	2	1	f	D	D	D	D	D	D	D	D
31133	Confectionery manufacturing from purchased chocolate ...	-	10	1	f	D	D	D	D	D	D	D	D
311330	Confectionery manufacturing from purchased chocolate ..	-	10	1	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	2	16	9	1 706	43 661	1 489	2 787	32 051	379 386	366 355	745 641	7 606
31141	Frozen food manufacturing ....	1	6	5	1 233	25 831	1 091	1 944	19 601	306 849	300 971	607 716	D
311412	Frozen specialty food manufacturing .....	1	5	4	g	D	D	D	D	D	D	D	D
3116	Animal slaughtering and processing .....	2	28	12	1 001	26 261	673	1 189	13 519	76 835	109 539	187 525	4 855
31161	Animal slaughtering and processing .....	2	28	12	1 001	26 261	673	1 189	13 519	76 835	109 539	187 525	4 855
3117	Seafood product preparation and packaging .....	1	18	10	1 376	42 162	1 103	2 224	25 705	91 507	260 566	351 638	2 244
31171	Seafood product preparation and packaging .....	1	18	10	1 376	42 162	1 103	2 224	25 705	91 507	260 566	351 638	2 244
311712	Fresh and frozen seafood processing .....	2	11	7	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	1	248	44	4 754	146 970	2 514	4 838	70 395	386 325	199 241	585 186	20 544
31181	Bread and bakery product manufacturing .....	1	223	33	4 105	130 732	2 020	3 782	59 188	333 733	169 363	503 357	19 356
311811	Retail bakeries .....	4	163	17	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	1	57	15	2 611	103 089	1 207	2 470	44 833	269 299	101 910	370 967	16 732
3119	Other food manufacturing .....	'5	'73	'25	'2 386	'76 128	'1 727	'3 486	'49 022	'327 792	'308 643	'636 813	'19 076
31199	All other food manufacturing ...	2	'53	'18	'1 818	'50 380	'1 408	'2 852	'34 964	'155 690	'187 004	'342 498	'12 840
311991	Perishable prepared food manufacturing .....	1	11	8	1 046	31 013	830	1 746	23 044	87 549	121 247	208 587	8 769
311999	All other miscellaneous food manufacturing .....	'4	'42	'10	'772	'19 367	'578	'1 106	'11 920	'68 141	'65 757	'133 911	'4 071
312	Beverage and tobacco product manufacturing .....	-	13	5	g	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	-	12	4	g	D	D	D	D	D	D	D	D
31212	Breweries .....	-	1	1	g	D	D	D	D	D	D	D	D
312120	Breweries .....	-	1	1	g	D	D	D	D	D	D	D	D
313	Textile mills .....	4	164	30	2 666	79 622	2 184	4 435	58 819	187 794	170 289	353 047	7 076
3132	Fabric mills .....	6	68	7	674	16 668	588	1 158	13 392	43 832	38 813	82 120	D
3133	Textile and fabric finishing and fabric coating mills .....	3	85	21	1 896	60 608	1 507	3 100	43 384	139 910	123 585	258 984	5 433
31331	Textile and fabric finishing mills .....	3	81	20	1 866	58 498	1 488	3 057	42 234	135 664	118 760	249 982	5 334
313311	Broadwoven fabric finishing mills .....	4	60	12	680	18 022	510	1 000	11 728	47 576	73 340	119 571	915
313312	Textile and fabric finishing (except broadwoven fabric) mills .....	2	21	8	1 186	40 476	978	2 057	30 506	88 088	45 420	130 411	4 419

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		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
	<b>LOS ANGELES—Con.</b>												
314	Textile product mills .....	3	'154	'40	'2 989	'69 328	'2 358	'4 559	'45 262	'153 341	'162 179	'316 095	'3 651
3141	Textile furnishings mills .....	'1	'62	'14	'1 180	'25 184	'923	'1 845	'16 537	'67 699	'77 526	'143 753	'1 196
31412 314129	Curtain and linen mills .....	'1	'61	'14	g	D	D	D	D	D	D	D	D
	Other household textile product mills.....	1	'28	'12	'1 012	'21 312	'775	'1 578	'14 025	'58 938	'69 177	'126 727	'1 082
3149	Other textile product mills .....	4	92	26	1 809	44 144	1 435	2 714	28 725	85 642	84 653	172 342	2 455
31491 31499	Textile bag and canvas mills... All other textile product mills... All other miscellaneous textile product mills.....	7 3 3	25 67	10 16	602 1 207	17 030 27 114	448 987	864 1 850	9 894 18 831	23 854 61 788	29 043 55 610	53 668 118 674	569 1 886
315	Apparel manufacturing.....	3	2 549	469	38 288	784 124	31 599	55 327	497 700	'1 852 185	1 950 485	'3 794 982	32 303
3151	Apparel knitting mills.....	1	22	5	559	16 085	400	743	9 056	45 294	54 182	96 739	953
3152	Cut and sew apparel manufacturing .....	3	2 442	446	35 922	720 912	29 689	51 830	459 133	'1 714 496	1 811 783	'3 524 317	30 464
31521	Cut and sew apparel contractors .....	5	'1 909	289	'22 951	'337 500	'20 999	'35 185	'278 316	'563 843	'188 848	'751 300	6 651
315211	Men's and boys' cut and sew apparel contractors .....	4	163	52	3 383	51 922	3 056	4 931	42 827	94 148	28 985	123 220	1 060
315212	Women's, girls', and infants' cut and sew apparel contractors .....	5	'1 746	237	'19 568	'285 578	'17 943	'30 254	'235 489	'469 695	'159 863	'628 080	5 591
31522	Men's and boys' cut and sew apparel manufacturing .....	4	67	22	1 443	30 840	1 141	2 036	19 631	78 020	82 575	158 879	1 300
31523	Women's and girls' cut and sew apparel manufacturing .....	2	'412	120	'10 357	'324 668	'6 816	'13 212	'147 753	'1 017 012	'1 503 996	'2 521 911	20 888
315231	Women's and girls' cut and sew lingerie, loungewear, and nightwear manufacturing .....	6	14	8	662	11 521	577	1 288	8 822	23 607	36 141	59 980	D
315232	Women's and girls' cut and sew blouse and shirt manufacturing .....	2	99	34	4 127	148 579	2 404	4 686	53 829	484 950	835 747	1 325 114	13 589
315233	Women's and girls' cut and sew dress manufacturing...	3	'99	33	'2 176	'76 112	'1 480	'2 889	'38 083	'214 847	'308 576	'524 205	2 824
315239	Women's and girls' cut and sew other outerwear manufacturing .....	3	174	42	3 160	80 723	2 187	4 080	44 565	274 716	306 569	576 513	3 950
31529	Other cut and sew apparel manufacturing .....	2	54	15	1 171	27 904	733	1 397	13 433	55 621	36 364	92 227	1 625
315299	All other cut and sew apparel manufacturing .....	3	39	10	820	17 945	499	955	9 020	27 295	19 136	47 129	D
3159	Apparel accessories and other apparel manufacturing .....	3	85	18	1 807	47 127	1 510	2 754	29 511	92 395	84 520	173 926	886
31599	Apparel accessories and other apparel manufacturing .....	3	85	18	1 807	47 127	1 510	2 754	29 511	92 395	84 520	173 926	886
315993	Men's and boys' neckwear manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
315999	Other apparel accessories and other apparel manufacturing .....	6	72	13	868	21 656	694	1 337	14 702	41 642	41 023	80 694	D
316	Leather and allied product manufacturing .....	'4	'53	'17	g	D	D	D	D	D	D	D	'3 573
3162	Footwear manufacturing .....	4	26	7	f	D	D	D	D	D	D	D	D
31621 316214	Footwear manufacturing .....	4	26	7	f	D	D	D	D	D	D	D	D
	Women's footwear (except athletic) manufacturing.....	2	16	5	f	D	D	D	D	D	D	D	D
3169	Other leather and allied product manufacturing .....	'3	'22	'10	f	D	D	D	D	D	D	D	D
31699	Other leather and allied product manufacturing .....	'3	'22	'10	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	4	121	27	1 955	47 188	1 633	3 000	31 781	92 874	82 206	172 049	5 091
3219	Other wood product manufacturing .....	4	110	25	1 868	44 735	1 565	2 904	30 411	87 617	75 008	160 016	3 994
32191 321918	Millwork .....	5	48	9	928	23 064	773	1 513	15 271	42 775	41 329	84 529	2 535
	Other millwork (including flooring).....	4	26	5	612	13 469	520	983	9 125	25 394	22 957	48 664	1 876
32192	Wood container and pallet manufacturing .....	2	24	9	530	10 170	459	793	7 629	21 113	17 731	35 718	649
321920	Wood container and pallet manufacturing .....	2	24	9	530	10 170	459	793	7 629	21 113	17 731	35 718	649
322	Paper manufacturing .....	3	39	14	1 211	46 900	873	1 815	29 506	128 528	141 773	269 118	3 903
3222	Converted paper product manufacturing .....	3	38	13	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	4	12	5	508	18 737	344	760	11 159	55 298	56 445	111 122	2 137

See footnotes at end of table.

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		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LOS ANGELES—Con.</b>													
323	Printing and related support activities .....	3	606	103	9 882	382 742	7 166	13 783	235 636	733 781	521 623	1 275 747	57 807
3231	Printing and related support activities .....	3	606	103	9 882	382 742	7 166	13 783	235 636	733 781	521 623	1 275 747	57 807
32311	Printing .....	3	538	99	9 320	359 577	6 738	13 185	220 728	693 505	508 647	1 222 925	56 079
323110	Commercial lithographic printing .....	2	250	48	4 912	234 825	3 509	7 100	143 684	464 707	359 179	829 815	44 308
323113	Commercial screen printing ..	4	87	27	2 414	61 590	1 850	3 469	38 299	94 130	75 211	183 925	4 868
323114	Quick printing .....	5	118	7	510	14 574	349	612	8 628	34 589	13 869	48 446	1 011
323119	Other commercial printing ..	3	38	3	666	21 812	500	980	14 436	50 338	28 008	78 648	2 797
32312	Support activities for printing ..	3	68	4	562	23 165	428	598	14 908	40 276	12 976	52 822	1 728
324	Petroleum and coal products manufacturing .....	-	11	6	1 419	96 294	989	2 172	64 727	368 826	2 464 811	3 055 047	D
3241	Petroleum and coal products manufacturing .....	-	11	6	1 419	96 294	989	2 172	64 727	368 826	2 464 811	3 055 047	D
32411	Petroleum refineries .....	-	2	2	g	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	-	2	2	g	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	2	162	61	10 944	528 202	5 671	11 364	185 803	2 069 172	1 260 548	3 345 869	114 023
3254	Pharmaceutical and medicine manufacturing .....	2	20	12	3 974	224 701	1 910	3 898	73 744	900 470	533 125	1 436 934	66 204
32541	Pharmaceutical and medicine manufacturing .....	2	20	12	3 974	224 701	1 910	3 898	73 744	900 470	533 125	1 436 934	66 204
325412	Pharmaceutical preparation manufacturing .....	-	9	4	f	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance manufacturing .....	-	4	4	1 136	63 782	392	965	15 242	201 233	38 804	236 519	8 542
325414	Biological product (except diagnostic) manufacturing ..	4	3	3	g	D	D	D	D	D	D	D	D
3255	Paint, coating, and adhesive manufacturing .....	4	32	13	731	32 126	377	773	12 055	115 754	130 779	246 268	2 143
32551	Paint and coating manufacturing .....	4	25	11	654	28 933	334	689	10 568	104 405	123 305	227 464	1 857
325510	Paint and coating manufacturing .....	4	25	11	654	28 933	334	689	10 568	104 405	123 305	227 464	1 857
3256	Soap, cleaning compound, and toilet preparation manufacturing ..	1	53	16	3 602	179 501	1 457	3 137	47 927	792 509	369 602	1 172 757	25 278
32562	Toilet preparation manufacturing .....	1	39	12	3 420	172 570	1 331	2 878	43 617	758 066	344 131	1 112 885	23 948
325620	Toilet preparation manufacturing .....	1	39	12	3 420	172 570	1 331	2 878	43 617	758 066	344 131	1 112 885	23 948
3259	Other chemical product and preparation manufacturing .....	2	32	12	2 075	67 951	1 556	2 788	37 709	170 268	159 347	328 830	3 847
32599	All other chemical product and preparation manufacturing ...	2	26	9	1 912	59 801	1 456	2 574	33 845	157 157	144 791	302 056	3 457
325992	Photographic film, paper, plate, and chemical manufacturing .....	-	13	7	1 475	40 430	1 147	1 950	21 314	120 396	113 458	233 974	1 785
326	Plastics and rubber products manufacturing .....	3	137	45	5 067	166 920	3 760	7 197	98 188	362 215	258 989	621 988	17 585
3261	Plastics product manufacturing ..	3	114	39	4 759	154 905	3 561	6 804	92 380	341 068	237 228	579 093	16 788
32619	Other plastics product manufacturing .....	3	72	25	3 690	115 526	2 736	5 098	68 031	240 240	146 340	387 282	12 280
326199	All other plastics product manufacturing .....	4	69	23	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	3	129	36	2 741	87 518	2 204	4 473	65 523	219 463	240 216	456 682	9 727
3272	Glass and glass product manufacturing .....	7	30	8	634	14 098	503	966	9 166	47 197	34 434	79 010	1 984
32721	Glass and glass product manufacturing .....	7	30	8	634	14 098	503	966	9 166	47 197	34 434	79 010	1 984
3273	Cement and concrete product manufacturing .....	2	27	13	1 077	39 884	929	1 960	32 522	95 151	144 491	239 546	D
32732	Ready-mix concrete manufacturing .....	1	18	9	833	30 510	769	1 622	27 354	78 961	131 860	210 770	2 541
327320	Ready-mix concrete manufacturing .....	1	18	9	833	30 510	769	1 622	27 354	78 961	131 860	210 770	2 541
3279	Other nonmetallic mineral product manufacturing .....	4	38	7	f	D	D	D	D	D	D	D	2 040
331	Primary metal manufacturing .....	1	44	19	1 747	52 208	1 392	2 765	34 248	124 574	176 862	302 433	7 895
3313	Alumina and aluminum production and processing .....	-	4	2	f	D	D	D	D	D	D	D	D
33131	Alumina and aluminum production and processing ...	-	4	2	f	D	D	D	D	D	D	D	D
331319	Other aluminum rolling and drawing .....	-	1	1	f	D	D	D	D	D	D	D	D
3315	Foundries .....	4	26	11	532	17 033	439	958	12 433	33 649	21 078	56 146	882
33152	Nonferrous metal foundries .....	4	23	11	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

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		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
	<b>LOS ANGELES—Con.</b>												
332	Fabricated metal product manufacturing .....	2	'761	192	'15 809	'564 942	'11 484	'22 781	'344 760	'1 329 842	'841 926	'2 175 050	'58 336
3322	Cutlery and handtool manufacturing .....	1	22	5	591	16 166	354	674	7 780	53 821	48 896	102 151	1 663
33221	Cutlery and handtool manufacturing .....	1	22	5	591	16 166	354	674	7 780	53 821	48 896	102 151	1 663
3323	Architectural and structural metals manufacturing .....	2	143	34	3 334	108 002	2 363	4 908	64 166	253 990	197 363	452 759	7 573
33232	Ornamental and architectural metal products manufacturing .....	2	115	28	3 035	97 108	2 167	4 532	58 392	229 778	179 415	410 745	7 034
332321	Metal window and door manufacturing .....	1	20	9	1 365	39 846	974	2 227	21 135	121 979	97 835	220 427	4 072
332322	Sheet metal work manufacturing .....	4	66	16	1 467	50 043	1 040	2 021	32 362	88 194	71 365	160 567	2 262
3324	Boiler, tank, and shipping container manufacturing .....	4	12	7	606	29 107	471	987	21 257	121 665	145 609	255 643	3 041
3325	Hardware manufacturing .....	2	14	6	565	18 394	389	825	9 253	41 266	23 558	65 054	2 255
33251	Hardware manufacturing .....	2	14	6	565	18 394	389	825	9 253	41 266	23 558	65 054	2 255
332510	Hardware manufacturing .....	2	14	6	565	18 394	389	825	9 253	41 266	23 558	65 054	2 255
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	3	297	46	3 909	148 288	2 952	5 783	100 003	317 371	131 141	443 334	16 136
33271	Machine shops .....	3	237	25	2 140	85 777	1 658	3 224	60 129	160 119	74 810	234 804	11 832
332710	Machine shops .....	3	237	25	2 140	85 777	1 658	3 224	60 129	160 119	74 810	234 804	11 832
33272	Turned product and screw, nut, and bolt manufacturing .....	3	60	21	1 769	62 511	1 294	2 559	39 874	157 252	56 331	208 530	4 304
332721	Precision turned product manufacturing .....	1	41	11	1 082	35 558	749	1 379	21 323	91 548	20 915	108 233	1 905
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	6	19	10	687	26 953	545	1 180	18 551	65 704	35 416	100 297	2 399
3328	Coating, engraving, heat treating, and allied activities .....	2	132	52	2 830	83 249	2 239	4 226	55 722	162 732	61 762	224 794	14 867
33281	Coating, engraving, heat treating, and allied activities ..	2	132	52	2 830	83 249	2 239	4 226	55 722	162 732	61 762	224 794	14 867
332812	Metal coating, engraving (except jewelry and silverware), and allied services to manufacturers ..	2	33	13	584	18 607	459	823	11 648	38 350	17 493	56 154	3 691
332813	Electroplating, plating, polishing, anodizing, and coloring .....	2	88	33	1 975	54 361	1 579	2 954	37 800	103 339	38 830	142 168	10 488
3329	Other fabricated metal product manufacturing .....	1	'92	31	'3 162	'134 815	'2 097	'4 156	'70 068	'324 842	'190 224	'530 833	'9 548
33291	Metal valve manufacturing .....	1	25	13	1 863	89 017	1 159	2 306	42 419	225 435	120 915	361 122	7 082
332912	Fluid power valve and hose fitting manufacturing .....	-	12	5	815	38 817	527	1 110	19 702	100 996	61 431	167 579	3 254
332913	Plumbing fixture fitting and trim manufacturing .....	3	7	6	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product manufacturing .....	3	'67	18	'1 299	'45 798	'938	'1 850	'27 649	'99 407	'69 309	'169 711	'2 466
332999	All other miscellaneous fabricated metal product manufacturing .....	3	'48	15	'800	'27 827	'537	'1 036	'15 307	'58 321	'51 170	'109 804	'1 506
333	Machinery manufacturing .....	2	'210	44	'4 903	'215 308	'2 966	'5 567	'102 582	'480 991	'340 477	'820 229	'32 108
3332	Industrial machinery manufacturing .....	3	37	4	552	21 000	331	619	9 058	27 273	28 174	54 458	1 727
3333	Commercial and service industry machinery manufacturing .....	2	40	11	872	50 250	524	1 053	29 100	121 270	58 849	180 066	15 288
33331	Commercial and service industry machinery manufacturing .....	2	40	11	872	50 250	524	1 053	29 100	121 270	58 849	180 066	15 288
3335	Metalworking machinery manufacturing .....	-	58	7	806	36 380	525	1 151	19 240	74 481	63 632	130 528	4 778
33351	Metalworking machinery manufacturing .....	-	58	7	806	36 380	525	1 151	19 240	74 481	63 632	130 528	4 778
3339	Other general purpose machinery manufacturing .....	2	'55	17	'1 995	'71 174	'1 227	'2 142	'30 606	'164 117	'146 013	'312 226	'5 774
33392	Material handling equipment manufacturing .....	-	11	4	746	24 657	352	741	7 854	56 792	84 354	140 790	1 468
33399	All other general purpose machinery manufacturing .....	3	'36	10	'883	'39 343	'579	'1 092	'18 993	'93 892	'46 800	'142 389	'3 191

See footnotes at end of table.



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<b>LOS ANGELES—Con.</b>													
334	Computer and electronic product manufacturing .....	1	279	107	15 808	766 833	7 777	14 620	246 256	1 842 611	994 726	2 831 260	75 992
3342	Communications equipment manufacturing .....	3	30	15	1 643	77 746	860	1 864	27 636	180 119	113 776	290 635	7 961
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	3	23	12	1 422	68 267	747	1 601	25 008	154 023	94 213	247 237	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	3	23	12	1 422	68 267	747	1 601	25 008	154 023	94 213	247 237	D
3343	Audio and video equipment manufacturing .....	—	19	5	976	37 366	578	1 152	14 509	79 256	60 959	119 657	D
33431	Audio and video equipment manufacturing .....	—	19	5	976	37 366	578	1 152	14 509	79 256	60 959	119 657	D
334310	Audio and video equipment manufacturing .....	—	19	5	976	37 366	578	1 152	14 509	79 256	60 959	119 657	D
3344	Semiconductor and other electronic component manufacturing .....	2	93	43	4 347	154 292	3 082	5 810	84 857	295 109	215 198	517 685	13 850
33441	Semiconductor and other electronic component manufacturing .....	2	93	43	4 347	154 292	3 082	5 810	84 857	295 109	215 198	517 685	13 850
334412	Bare printed circuit board manufacturing .....	2	27	8	619	22 846	511	878	15 419	49 697	27 572	77 997	D
334413	Semiconductor and related device manufacturing .....	—	9	4	993	42 659	681	1 299	26 067	73 621	55 637	135 882	5 163
334418	Printed circuit assembly (electronic assembly) manufacturing .....	4	15	10	939	30 033	605	1 287	13 757	64 624	80 789	144 250	4 388
334419	Other electronic component manufacturing .....	3	28	11	668	21 246	463	936	11 223	46 166	20 097	66 801	1 325
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	1	58	25	7 253	430 837	2 361	4 068	88 964	1 132 141	518 347	1 661 373	42 211
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	1	58	25	7 253	430 837	2 361	4 068	88 964	1 132 141	518 347	1 661 373	42 211
334510	Electromedical and electrotherapeutic apparatus manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	1	18	10	4 756	304 082	1 206	2 204	53 455	519 059	303 579	820 774	23 752
3346	Manufacturing and reproducing magnetic and optical media .....	2	58	15	1 270	50 176	762	1 448	26 631	114 907	49 263	163 373	D
33461	Manufacturing and reproducing magnetic and optical media .....	2	58	15	1 270	50 176	762	1 448	26 631	114 907	49 263	163 373	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	2	45	12	785	29 677	458	891	14 923	69 305	29 751	98 738	D
335	Electrical equipment, appliance, and component manufacturing .....	2	90	33	3 022	108 334	1 997	3 935	47 776	233 577	147 653	379 957	7 233
3351	Electric lighting equipment manufacturing .....	1	41	15	1 535	48 439	1 076	2 023	21 746	108 682	71 639	178 670	3 094
33512	Lighting fixture manufacturing ..	1	38	13	g	D	D	D	D	D	D	D	D
335121	Residential electric lighting fixture manufacturing .....	1	18	5	658	13 545	549	1 073	9 162	30 724	21 218	51 489	1 699
335122	Commercial, industrial, and institutional electric lighting fixture manufacturing .....	—	10	5	503	23 213	256	406	6 863	42 636	25 172	67 057	750
3353	Electrical equipment manufacturing .....	3	24	8	819	32 892	454	969	12 405	59 325	38 734	97 269	D
33531	Electrical equipment manufacturing .....	3	24	8	819	32 892	454	969	12 405	59 325	38 734	97 269	D
3359	Other electrical equipment and component manufacturing .....	4	22	9	f	D	D	D	D	D	D	D	2 865
336	Transportation equipment manufacturing .....	2	135	50	8 587	453 321	4 603	9 199	142 416	886 372	433 417	1 292 979	42 322
3363	Motor vehicle parts manufacturing .....	4	62	23	2 971	99 594	2 328	4 929	63 197	199 454	179 023	379 961	D
33637	Motor vehicle metal stamping ..	9	4	1	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	9	4	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	2	19	10	1 604	66 239	1 205	2 648	39 928	124 924	104 718	230 723	D
336399	All other motor vehicle parts manufacturing .....	2	17	10	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>LOS ANGELES—Con.</b>													
336	Transportation equipment manufacturing—Con.												
3364	Aerospace product and parts manufacturing .....	—	39	17	4 805	330 281	1 604	2 959	61 816	633 347	164 754	769 978	30 069
33641	Aerospace product and parts manufacturing .....	—	39	17	4 805	330 281	1 604	2 959	61 816	633 347	164 754	769 978	30 069
336413	Other aircraft parts and auxiliary equipment manufacturing .....	2	27	12	1 073	46 535	743	1 673	28 416	82 156	77 859	161 538	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing .....	—	2	2	h	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	4	400	77	7 464	189 140	5 559	10 855	117 781	384 896	288 159	671 202	11 417
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	4	311	50	4 311	101 520	3 595	6 881	73 962	200 260	150 958	350 333	6 266
33711	Wood kitchen cabinet and countertop manufacturing ....	5	108	11	804	20 305	596	1 057	13 203	36 774	21 498	58 167	1 309
337110	Wood kitchen cabinet and countertop manufacturing ..	5	108	11	804	20 305	596	1 057	13 203	36 774	21 498	58 167	1 309
33712	Household and institutional furniture manufacturing .....	4	203	39	3 507	81 215	2 999	5 824	60 759	163 486	129 460	292 166	4 957
337121	Upholstered household furniture manufacturing ....	3	58	10	931	24 551	768	1 495	17 564	47 184	42 221	89 459	2 021
337122	Nonupholstered wood household furniture manufacturing .....	6	108	19	1 827	38 237	1 631	3 156	30 996	77 099	59 644	135 994	1 817
337124	Metal household furniture manufacturing .....	3	12	5	500	10 898	399	750	7 163	23 028	15 673	38 829	804
3372	Office furniture (including fixtures) manufacturing .....	2	64	21	1 701	50 314	1 207	2 456	29 499	114 211	70 411	183 588	3 751
33721	Office furniture (including fixtures) manufacturing .....	2	64	21	1 701	50 314	1 207	2 456	29 499	114 211	70 411	183 588	3 751
337212	Custom architectural woodwork and millwork manufacturing .....	2	20	7	573	16 364	331	710	10 770	32 349	21 255	54 091	1 960
337215	Showcase, partition, shelving, and locker manufacturing .....	4	29	9	699	19 341	534	1 023	9 495	48 845	31 657	78 798	1 216
3379	Other furniture related product manufacturing .....	5	25	6	1 452	37 306	757	1 518	14 320	70 425	66 790	137 281	1 400
33792	Blind and shade manufacturing .....	5	15	5	1 359	35 175	684	1 388	12 966	63 646	61 033	124 754	1 187
337920	Blind and shade manufacturing .....	5	15	5	1 359	35 175	684	1 388	12 966	63 646	61 033	124 754	1 187
339	Miscellaneous manufacturing .....	2	695	114	11 497	316 224	8 572	15 588	176 245	747 352	627 228	1 373 703	82 566
3391	Medical equipment and supplies manufacturing .....	1	150	19	3 132	89 271	2 476	4 432	51 361	219 359	109 486	320 907	67 327
33911	Medical equipment and supplies manufacturing .....	1	150	19	3 132	89 271	2 476	4 432	51 361	219 359	109 486	320 907	67 327
339112	Surgical and medical instrument manufacturing ..	—	15	4	1 936	41 718	1 683	2 879	25 678	126 335	73 194	192 259	D
339116	Dental laboratories .....	3	94	5	618	24 440	428	827	15 527	32 949	7 167	39 659	700
3399	Other miscellaneous manufacturing .....	3	545	95	8 365	226 953	6 096	11 156	124 884	527 993	517 742	1 052 796	15 239
33991	Jewelry and silverware manufacturing .....	3	250	36	2 836	77 159	2 098	3 621	42 068	203 584	295 025	500 924	5 068
339911	Jewelry (except costume) manufacturing .....	3	193	30	2 421	67 196	1 823	3 122	37 145	181 714	279 853	464 129	4 296
33992	Sporting and athletic goods manufacturing .....	1	23	3	698	26 990	472	1 013	11 514	42 454	27 668	71 146	1 986
339920	Sporting and athletic goods manufacturing .....	1	23	3	698	26 990	472	1 013	11 514	42 454	27 668	71 146	1 986
33995	Sign manufacturing .....	2	74	16	842	27 332	558	1 124	13 826	64 715	31 499	96 311	2 070
339950	Sign manufacturing .....	2	74	16	842	27 332	558	1 124	13 826	64 715	31 499	96 311	2 070
33999	All other miscellaneous manufacturing .....	2	166	37	3 460	77 692	2 590	4 659	48 073	164 104	120 485	286 956	4 287
339999	All other miscellaneous manufacturing .....	1	130	30	2 634	58 128	2 020	3 638	37 367	121 140	97 485	219 533	3 192
<b>LOS GATOS</b>													
31-33	Manufacturing .....	3	41	8	547	28 056	263	484	9 155	55 707	49 449	105 894	D
<b>LYNWOOD</b>													
31-33	Manufacturing .....	1	70	24	2 024	60 840	1 646	3 257	39 755	149 250	113 609	263 231	4 272
332	Fabricated metal product manufacturing .....	1	20	9	649	17 383	547	1 029	11 884	34 615	22 371	57 094	477
337	Furniture and related product manufacturing .....	1	16	6	644	15 286	545	1 029	10 512	38 043	22 569	59 515	509
<b>MADERA</b>													
31-33	Manufacturing .....	1	34	19	g	D	D	D	D	D	D	D	23 842

See footnotes at end of table.

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

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<b>MANTECA</b>													
31-33	Manufacturing .....	5	36	11	991	30 914	484	904	18 311	70 869	63 254	134 040	5 270
<b>MARTINEZ</b>													
31-33	Manufacturing .....	-	23	3	f	D	D	D	D	D	D	D	D
<b>MARYSVILLE</b>													
31-33	Manufacturing .....	-	16	6	721	21 758	581	1 221	16 540	78 681	88 169	163 564	D
<b>MAYWOOD</b>													
31-33	Manufacturing .....	2	33	10	604	15 886	522	951	12 198	44 508	35 296	78 956	1 605
<b>MENLO PARK</b>													
31-33	Manufacturing .....	7	51	22	3 425	183 114	1 666	3 121	70 497	753 905	446 144	1 195 745	15 418
326	Plastics and rubber products manufacturing .....	9	5	2	g	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	9	5	2	g	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, and unlaminated profile shape manufacturing .....	9	1	1	g	D	D	D	D	D	D	D	D
326121	Unlaminated plastics profile shape manufacturing .....	9	1	1	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	4	8	6	539	33 760	162	328	6 518	64 715	70 994	132 863	D
<b>MERCED</b>													
31-33	Manufacturing .....	-	37	16	2 046	72 658	1 665	3 632	54 097	299 325	268 549	563 505	10 822
323	Printing and related support activities .....	-	7	2	f	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	-	7	2	f	D	D	D	D	D	D	D	D
32311	Printing .....	-	7	2	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	5	1	f	D	D	D	D	D	D	D	D
<b>MILPITAS</b>													
31-33	Manufacturing .....	1	211	103	20 002	1 142 043	7 575	14 523	273 296	2 707 886	2 252 579	5 046 156	197 133
332	Fabricated metal product manufacturing .....	5	26	11	664	25 140	521	974	17 135	50 783	33 805	93 909	2 803
333	Machinery manufacturing .....	5	14	8	753	43 732	357	692	17 249	63 331	81 943	142 568	4 410
334	Computer and electronic product manufacturing .....	1	93	61	14 556	861 036	5 086	9 743	177 869	1 696 298	1 418 156	3 169 102	145 120
3341	Computer and peripheral equipment manufacturing .....	1	12	8	g	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing .....	1	12	8	g	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing .....	9	3	2	f	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	1	55	39	7 475	399 412	3 659	6 667	113 605	1 083 250	742 587	1 863 254	33 417
33441	Semiconductor and other electronic component manufacturing .....	1	55	39	7 475	399 412	3 659	6 667	113 605	1 083 250	742 587	1 863 254	33 417
334412	Bare printed circuit board manufacturing .....	3	10	8	871	33 311	711	1 457	25 145	55 462	27 027	81 919	D
334413	Semiconductor and related device manufacturing .....	1	20	16	3 940	250 003	1 618	2 762	47 906	766 671	84 235	845 304	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	-	7	7	1 972	90 793	888	1 719	29 608	219 895	606 581	867 166	D
334419	Other electronic component manufacturing .....	5	12	5	526	18 410	349	583	8 172	30 986	20 654	54 738	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	14	8	4 005	260 148	410	813	20 474	337 902	352 181	702 816	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ..	-	14	8	4 005	260 148	410	813	20 474	337 902	352 181	702 816	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	-	8	3	h	D	D	D	D	D	D	D	598
334517	Irradiation apparatus manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D

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<b>MILPITAS—Con.</b>													
339	Miscellaneous manufacturing .....	—	16	4	g	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing .....	—	11	2	g	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	—	11	2	g	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	—	4	2	g	D	D	D	D	D	D	D	D
<b>MODESTO</b>													
31-33	Manufacturing .....	1	129	33	7 241	348 461	5 017	9 660	157 091	1 305 037	1 401 009	2 703 170	56 274
311	Food manufacturing .....	3	20	10	2 759	84 616	2 326	4 430	64 739	325 395	501 641	816 637	15 093
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	4	3	2 112	64 552	1 900	3 582	52 195	253 302	244 508	486 837	7 108
31142	Fruit and vegetable canning, pickling, and drying .....	—	4	3	2 112	64 552	1 900	3 582	52 195	253 302	244 508	486 837	7 108
311421	Fruit and vegetable canning ..	—	2	2	g	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
31213	Wineries .....	—	1	1	g	D	D	D	D	D	D	D	D
312130	Wineries .....	—	1	1	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	—	3	2	f	D	D	D	D	D	D	D	D
3272	Glass and glass product manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
327213	Glass container manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>MONROVIA</b>													
31-33	Manufacturing .....	1	132	44	3 692	149 886	2 208	4 163	62 724	329 578	209 484	545 154	16 154
334	Computer and electronic product manufacturing .....	1	17	8	827	39 813	443	805	15 134	67 349	52 857	120 092	2 182
336	Transportation equipment manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>MONTCLAIR</b>													
31-33	Manufacturing .....	2	70	18	1 271	32 561	976	1 704	18 716	68 648	58 509	126 943	2 035
<b>MONTEBELLO</b>													
31-33	Manufacturing .....	4	97	46	5 431	167 018	3 646	7 114	95 003	563 364	397 144	956 765	26 211
311	Food manufacturing .....	9	15	11	1 911	63 425	1 016	1 966	30 581	288 218	153 377	442 351	8 373
3118	Bakeries and tortilla manufacturing .....	9	9	6	1 576	52 068	766	1 438	23 257	259 015	87 875	347 590	D
31181	Bread and bakery product manufacturing .....	9	8	5	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	9	4	3	g	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	—	11	5	667	16 887	459	920	8 226	64 025	86 818	150 741	D
3152	Cut and sew apparel manufacturing .....	—	10	4	f	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing .....	—	4	3	524	13 722	329	663	5 532	60 273	86 435	146 618	D
337	Furniture and related product manufacturing .....	1	5	4	649	14 853	520	1 096	11 194	30 364	24 360	54 635	323
<b>MONTEREY</b>													
31-33	Manufacturing .....	4	55	13	959	32 336	594	1 086	15 335	69 777	50 424	119 011	1 795
<b>MONTEREY PARK</b>													
31-33	Manufacturing .....	3	58	20	1 388	47 527	1 041	1 932	29 138	107 991	49 680	155 618	8 895

See footnotes at end of table.

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

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<b>MOORPARK</b>													
31-33	Manufacturing .....	-	61	18	3 673	129 804	2 081	4 597	57 622	300 911	237 927	547 019	14 600
333	Machinery manufacturing .....	-	9	4	925	24 459	370	825	10 441	81 735	62 506	147 580	D
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
333414	Heating equipment (except warm air furnaces) manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	9	3	1 545	50 600	901	2 016	19 732	104 656	75 971	183 850	5 130
3344	Semiconductor and other electronic component manufacturing .....	-	5	3	g	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	5	3	g	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>MORENO VALLEY</b>													
31-33	Manufacturing .....	-	24	6	1 047	37 439	808	1 723	21 689	66 873	109 919	175 331	6 323
336	Transportation equipment manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body and trailer manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336214	Travel trailer and camper manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>MORGAN HILL</b>													
31-33	Manufacturing .....	1	86	29	3 673	179 069	1 927	4 542	77 734	253 495	186 284	477 323	15 185
334	Computer and electronic product manufacturing .....	1	21	9	1 923	109 075	874	1 774	43 047	140 449	92 701	265 169	7 142
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	5	4	1 676	97 389	759	1 526	37 688	113 885	76 704	221 959	6 013
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	5	4	1 676	97 389	759	1 526	37 688	113 885	76 704	221 959	6 013
334510	Electromedical and electrotherapeutic apparatus manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	-	3	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	-	8	4	775	30 168	329	1 295	8 759	41 245	42 124	88 909	1 998
3399	Other miscellaneous manufacturing .....	-	5	3	715	26 923	293	1 214	7 190	34 611	30 417	70 728	D
33999	All other miscellaneous manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	1 667
339999	All other miscellaneous manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	1 667
<b>MOUNTAIN VIEW</b>													
31-33	Manufacturing .....	2	176	45	8 003	461 308	3 866	7 242	159 347	1 194 198	925 001	2 172 471	61 057
325	Chemical manufacturing .....	-	5	1	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	-	3	1	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	-	3	1	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D

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		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>MOUNTAIN VIEW—Con.</b>													
334	Computer and electronic product manufacturing .....	2	59	27	4 404	294 035	1 708	3 331	86 781	875 380	740 658	1 661 794	41 773
3341	Computer and peripheral equipment manufacturing .....	—	10	4	f	D	D	D	D	D	D	D	9 715
33411	Computer and peripheral equipment manufacturing .....	—	10	4	f	D	D	D	D	D	D	D	9 715
3342	Communications equipment manufacturing .....	5	9	8	g	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing .....	9	2	2	f	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing .....	9	2	2	f	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	7	6	824	58 865	220	425	8 541	79 601	111 763	212 503	7 912
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	7	6	824	58 865	220	425	8 541	79 601	111 763	212 503	7 912
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	1	19	9	1 847	135 794	787	1 531	50 257	279 066	186 213	478 115	16 337
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	1	19	9	1 847	135 794	787	1 531	50 257	279 066	186 213	478 115	16 337
334510	Electromedical and electrotherapeutic apparatus manufacturing .....	—	5	2	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	7	3	861	40 442	521	1 086	15 383	76 323	66 141	146 318	D
3359	Other electrical equipment and component manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
33599	All other electrical equipment and component manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing .....	—	4	3	f	D	D	D	D	D	D	D	D
<b>MURRIETA</b>													
31-33	Manufacturing .....	3	49	14	1 238	41 100	880	1 824	24 027	94 239	95 100	189 874	2 783
<b>NAPA</b>													
31-33	Manufacturing .....	2	109	16	2 917	124 706	1 690	3 279	49 299	381 129	165 308	546 861	D
325	Chemical manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	9	7	3	f	D	D	D	D	D	D	D	D
3273	Cement and concrete product manufacturing .....	9	3	3	f	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing .....	9	2	2	f	D	D	D	D	D	D	D	D
327390	Other concrete product manufacturing .....	9	2	2	f	D	D	D	D	D	D	D	D
<b>NATIONAL CITY</b>													
31-33	Manufacturing .....	2	93	22	1 954	69 239	1 560	3 105	46 256	143 635	110 095	249 805	5 700
<b>NEVADA CITY</b>													
31-33	Manufacturing .....	—	25	5	531	33 514	237	481	12 776	159 600	94 443	220 973	6 066
<b>NEWARK</b>													
31-33	Manufacturing .....	—	94	39	10 480	659 553	2 830	5 238	102 953	3 804 860	3 513 304	7 332 066	84 166
334	Computer and electronic product manufacturing .....	—	15	7	i	D	D	D	D	D	D	D	31 338
3341	Computer and peripheral equipment manufacturing .....	—	2	1	i	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing .....	—	2	1	i	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing .....	—	1	1	i	D	D	D	D	D	D	D	D

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<b>NEWPORT BEACH</b>													
31-33	Manufacturing .....	2	99	13	2 803	112 242	1 988	3 905	69 418	255 743	114 066	359 082	12 272
334	Computer and electronic product manufacturing .....	2	'11	4	'814	'37 443	'514	'760	'16 275	'123 936	'63 649	'176 522	'9 190
3344	Semiconductor and other electronic component manufacturing .....	1	4	2	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	1	4	2	f	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing .....	1	2	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	—	'22	2	'1 418	'57 116	'1 050	'2 348	'42 037	'95 214	'23 280	'119 033	'1 948
3391	Medical equipment and supplies manufacturing .....	—	10	2	g	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	—	10	2	g	D	D	D	D	D	D	D	D
339116	Dental laboratories .....	—	6	1	g	D	D	D	D	D	D	D	D
<b>NORCO</b>													
31-33	Manufacturing .....	2	29	3	559	13 912	412	834	9 356	23 782	23 617	47 272	1 149
<b>NORWALK</b>													
31-33	Manufacturing .....	5	73	20	1 409	38 791	1 037	2 109	23 934	99 256	106 005	206 482	6 301
<b>NOVATO</b>													
31-33	Manufacturing .....	2	78	12	1 229	52 186	668	1 320	17 593	144 664	56 947	201 911	5 165
334	Computer and electronic product manufacturing .....	1	7	4	f	D	D	D	D	D	D	D	D
<b>OAKDALE</b>													
31-33	Manufacturing .....	—	36	10	2 116	87 924	1 750	3 651	68 708	284 694	446 715	726 842	24 373
311	Food manufacturing .....	—	4	3	1 340	56 810	1 144	2 420	46 731	218 779	346 624	555 922	D
3113	Sugar and confectionery product manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
31132	Chocolate and confectionery manufacturing from cacao beans .....	—	1	1	f	D	D	D	D	D	D	D	D
311320	Chocolate and confectionery manufacturing from cacao beans .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>OAKLAND</b>													
31-33	Manufacturing .....	2	513	122	11 065	419 554	7 231	13 789	225 448	1 057 269	832 505	1 881 547	40 335
311	Food manufacturing .....	2	68	25	3 337	125 711	1 683	2 987	52 605	372 046	264 794	636 089	11 714
3118	Bakeries and tortilla manufacturing .....	2	35	12	2 395	96 264	1 097	1 784	34 267	266 406	134 554	400 266	7 237
31181	Bread and bakery product manufacturing .....	4	29	9	g	D	D	D	D	D	D	D	5 470
311812	Commercial bakeries .....	4	11	6	1 383	55 224	470	939	20 215	129 503	73 106	202 872	4 114
31182	Cookie, cracker, and pasta manufacturing .....	—	5	2	f	D	D	D	D	D	D	D	D
311821	Cookie and cracker manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	2	70	18	g	D	D	D	D	D	D	D	D
3152	Cut and sew apparel manufacturing .....	3	64	15	f	D	D	D	D	D	D	D	D
31521	Cut and sew apparel contractors .....	4	49	9	f	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors .....	4	47	9	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	3	74	19	1 304	52 982	862	1 654	29 809	117 755	68 966	186 649	3 652
336	Transportation equipment manufacturing .....	—	17	5	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	3	1	f	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	2	41	10	819	30 393	577	1 152	16 488	71 489	41 471	111 618	D
339	Miscellaneous manufacturing .....	5	45	8	678	25 206	428	768	10 973	49 405	19 827	69 131	1 606

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>OCEANSIDE</b>													
31-33	Manufacturing .....	1	170	46	3 743	115 713	2 859	5 664	69 125	286 081	215 209	502 209	14 730
332	Fabricated metal product manufacturing .....	-	23	9	550	17 857	444	856	11 916	37 314	17 216	54 577	3 144
334	Computer and electronic product manufacturing .....	-	19	4	739	22 451	587	1 147	14 735	49 623	40 166	92 318	1 412
3344	Semiconductor and other electronic component manufacturing .....	-	9	2	611	16 704	532	1 038	12 760	40 361	33 311	76 394	1 116
33441	Semiconductor and other electronic component manufacturing .....	-	9	2	611	16 704	532	1 038	12 760	40 361	33 311	76 394	1 116
339	Miscellaneous manufacturing .....	1	34	11	815	28 513	589	1 098	15 778	76 308	53 614	127 925	3 506
<b>ONTARIO</b>													
31-33	Manufacturing .....	1	474	189	16 868	554 917	13 039	25 656	351 520	2 021 111	1 663 039	3 661 802	115 866
311	Food manufacturing .....	-	24	9	719	22 860	478	972	14 124	499 664	215 751	715 647	24 531
322	Paper manufacturing .....	-	18	13	957	40 679	728	1 578	26 793	191 672	298 721	471 983	7 784
3222	Converted paper product manufacturing .....	-	17	12	f	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	-	12	9	644	24 823	494	1 053	16 912	62 984	111 620	174 975	D
322211	Corrugated and solid fiber box manufacturing .....	-	8	6	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	2	30	9	535	16 444	421	812	12 052	54 051	22 434	73 982	1 660
3231	Printing and related support activities .....	2	30	9	535	16 444	421	812	12 052	54 051	22 434	73 982	1 660
325	Chemical manufacturing .....	-	24	8	728	25 725	426	924	12 833	89 285	72 349	157 195	D
326	Plastics and rubber products manufacturing .....	2	56	34	2 839	75 953	2 346	3 847	47 792	211 589	156 855	372 593	14 756
3261	Plastics product manufacturing ..	2	52	32	2 792	74 548	2 306	3 759	46 675	209 426	155 123	368 698	D
32616	Plastics bottle manufacturing ..	3	4	4	740	12 921	671	642	9 066	25 301	25 234	50 389	1 237
326160	Plastics bottle manufacturing ..	3	4	4	740	12 921	671	642	9 066	25 301	25 234	50 389	1 237
32619	Other plastics product manufacturing .....	1	31	16	1 311	39 531	1 019	1 828	21 374	116 105	73 087	190 912	6 420
326199	All other plastics product manufacturing .....	2	30	15	g	D	D	D	D	D	D	D	6 420
332	Fabricated metal product manufacturing .....	2	92	20	1 421	53 155	1 065	2 141	33 994	125 433	79 046	201 871	7 421
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	46	8	651	26 018	516	1 002	18 328	57 276	26 598	82 779	3 052
333	Machinery manufacturing .....	1	35	10	631	23 566	374	759	9 929	51 979	26 210	78 659	4 366
335	Electrical equipment, appliance, and component manufacturing .....	-	10	3	955	33 100	806	1 660	23 004	94 410	126 262	220 029	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
335129	Other lighting equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	1	37	19	2 072	77 102	1 655	3 347	52 657	166 475	373 169	536 033	13 616
3362	Motor vehicle body and trailer manufacturing .....	-	7	3	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	-	7	3	f	D	D	D	D	D	D	D	D
336213	Motor home manufacturing ..	-	3	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	19	9	871	30 697	647	1 259	18 026	84 903	121 294	206 538	2 337
337	Furniture and related product manufacturing .....	2	37	21	2 146	61 872	1 767	3 578	40 936	154 220	106 603	259 110	3 079
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	1	22	10	1 252	32 244	1 084	2 267	22 891	77 769	42 741	119 582	1 666
33712	Household and institutional furniture manufacturing .....	-	16	8	1 157	28 931	1 016	2 112	21 152	71 879	39 617	110 594	1 272
337122	Nonupholstered wood household furniture manufacturing .....	1	9	4	680	15 208	599	1 294	10 881	41 567	23 300	64 271	405
3372	Office furniture (including fixtures) manufacturing .....	4	10	7	629	20 598	493	986	12 965	41 534	36 055	76 796	797
33721	Office furniture (including fixtures) manufacturing .....	4	10	7	629	20 598	493	986	12 965	41 534	36 055	76 796	797

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]

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>ONTARIO—Con.</b>													
339	Miscellaneous manufacturing . . . . .	2	38	14	1 717	62 919	1 326	2 775	36 613	235 424	100 159	346 213	6 259
3391	Medical equipment and supplies manufacturing . . . . .	3	8	6	992	37 356	758	1 570	19 995	133 983	47 405	189 233	3 884
33911	Medical equipment and supplies manufacturing . . . . .	3	8	6	992	37 356	758	1 570	19 995	133 983	47 405	189 233	3 884
339113	Surgical appliance and supplies manufacturing . . . . .	4	3	3	739	28 134	596	1 331	16 228	83 450	28 471	120 581	2 761
3399	Other miscellaneous manufacturing . . . . .	—	30	8	725	25 563	568	1 205	16 618	101 441	52 754	156 980	2 375
<b>ORANGE</b>													
31-33	Manufacturing . . . . .	2	317	79	7 134	248 917	5 077	10 057	140 862	562 058	504 505	1 071 096	34 234
323	Printing and related support activities . . . . .	—	37	7	662	21 872	426	810	13 353	47 646	24 845	72 892	3 443
3231	Printing and related support activities . . . . .	—	37	7	662	21 872	426	810	13 353	47 646	24 845	72 892	3 443
32311	Printing . . . . .	—	32	7	615	20 473	387	722	12 308	45 950	24 114	70 465	3 367
326	Plastics and rubber products manufacturing . . . . .	—	15	8	1 073	31 588	902	1 874	22 264	100 864	121 616	225 017	6 041
3261	Plastics product manufacturing . . . . .	—	14	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing . . . . .	4	64	18	1 366	51 679	1 032	2 074	33 354	97 134	75 076	173 416	5 753
333	Machinery manufacturing . . . . .	1	20	7	691	27 655	325	660	11 668	43 605	44 005	87 607	3 501
334	Computer and electronic product manufacturing . . . . .	2	29	8	793	28 786	547	1 062	12 454	54 170	30 994	84 491	D
3344	Semiconductor and other electronic component manufacturing . . . . .	—	13	6	650	21 778	469	910	10 046	40 366	19 514	59 862	4 057
33441	Semiconductor and other electronic component manufacturing . . . . .	—	13	6	650	21 778	469	910	10 046	40 366	19 514	59 862	4 057
<b>OROVILLE</b>													
31-33	Manufacturing . . . . .	5	35	7	927	34 402	784	1 645	26 692	76 901	118 613	196 246	7 032
<b>OXNARD</b>													
31-33	Manufacturing . . . . .	—	207	70	7 914	332 960	5 950	12 085	180 389	1 228 414	652 141	1 878 201	87 856
311	Food manufacturing . . . . .	1	34	9	907	22 764	784	1 511	18 396	75 050	82 251	156 994	D
322	Paper manufacturing . . . . .	—	6	3	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
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
326	Plastics and rubber products manufacturing . . . . .	—	11	6	1 393	39 011	1 214	2 364	27 531	85 464	59 835	144 073	10 423
3261	Plastics product manufacturing . . . . .	—	11	6	1 393	39 011	1 214	2 364	27 531	85 464	59 835	144 073	10 423
32619	Other plastics product manufacturing . . . . .	—	9	5	g	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing . . . . .	—	9	5	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing . . . . .	1	37	11	647	22 235	469	927	13 146	48 059	30 719	78 798	5 035
333	Machinery manufacturing . . . . .	—	15	4	1 415	111 599	983	2 311	39 578	197 110	152 387	355 641	2 146
3335	Metalworking machinery manufacturing . . . . .	—	5	1	f	D	D	D	D	D	D	D	190
33351	Metalworking machinery manufacturing . . . . .	—	5	1	f	D	D	D	D	D	D	D	190
333512	Machine tool (metal cutting types) manufacturing . . . . .	—	2	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing . . . . .	2	26	12	931	33 388	552	1 114	13 041	76 168	53 153	130 892	4 280
3399	Other miscellaneous manufacturing . . . . .	3	15	6	550	18 197	349	709	7 807	43 246	40 225	84 387	3 567

See footnotes at end of table.

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<b>PALMDALE</b>													
31-33	Manufacturing .....	-	40	7	4 838	310 737	2 041	3 993	106 182	556 065	239 821	815 576	D
336	Transportation equipment manufacturing .....	-	4	2	h	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	3	2	h	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	3	2	h	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	-	1	1	h	D	D	D	D	D	D	D	D
<b>PALM DESERT</b>													
31-33	Manufacturing .....	8	63	11	714	21 754	526	1 010	12 195	47 108	30 929	78 004	1 730
<b>PALM SPRINGS</b>													
31-33	Manufacturing .....	2	47	9	1 142	42 526	809	1 575	22 627	89 124	40 937	123 851	3 157
339	Miscellaneous manufacturing .....	-	6	2	f	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing .....	-	4	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	-	4	1	f	D	D	D	D	D	D	D	D
339113	Surgical appliance and supplies manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
<b>PALO ALTO</b>													
31-33	Manufacturing .....	-	98	31	8 649	553 885	4 607	7 631	285 840	1 296 784	1 153 485	2 463 248	44 699
334	Computer and electronic product manufacturing .....	-	29	16	6 841	464 655	3 573	5 609	245 260	1 105 923	1 030 975	2 144 832	35 399
3342	Communications equipment manufacturing .....	-	4	3	h	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	-	3	2	h	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	-	3	2	h	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	-	9	6	f	D	D	D	D	D	D	D	6 636
33441	Semiconductor and other electronic component manufacturing .....	-	9	6	f	D	D	D	D	D	D	D	6 636
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	9	5	3 143	220 486	1 147	1 971	75 554	603 451	482 948	1 091 886	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	9	5	3 143	220 486	1 147	1 971	75 554	603 451	482 948	1 091 886	D
334516	Analytical laboratory instrument manufacturing .....	-	2	2	g	D	D	D	D	D	D	D	D
334517	Irradiation apparatus manufacturing .....	-	2	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	4	17	7	620	32 149	347	697	13 727	49 688	45 272	94 859	2 883
<b>PARAMOUNT</b>													
31-33	Manufacturing .....	1	247	67	5 372	199 753	3 909	7 540	118 626	492 063	1 023 015	1 529 426	36 161
332	Fabricated metal product manufacturing .....	1	78	26	1 879	87 981	1 205	2 505	46 153	167 876	176 544	359 311	D
3321	Forging and stamping.....	-	6	4	512	33 886	306	641	16 133	74 552	120 707	204 834	D
33211	Forging and stamping.....	-	6	4	512	33 886	306	641	16 133	74 552	120 707	204 834	D
336	Transportation equipment manufacturing .....	-	13	6	536	17 908	430	699	12 914	36 836	35 579	72 158	D
<b>PASADENA</b>													
31-33	Manufacturing .....	2	121	27	1 750	72 922	1 072	2 060	33 333	184 143	113 375	292 552	6 192
<b>PATTERSON</b>													
31-33	Manufacturing .....	1	7	3	695	18 349	585	1 082	13 097	50 040	64 021	113 994	611
311	Food manufacturing .....	-	1	1	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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>PERRIS</b>													
31-33	Manufacturing .....	2	37	14	2 911	74 884	2 367	4 313	49 672	294 800	204 607	483 670	7 628
321	Wood product manufacturing .....	6	3	2	f	D	D	D	D	D	D	D	D
3219	Other wood product manufacturing .....	6	3	2	f	D	D	D	D	D	D	D	D
32199	All other wood product manufacturing .....	6	2	2	f	D	D	D	D	D	D	D	D
321991	Manufactured home (mobile home) manufacturing .....	6	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	5	4	g	D	D	D	D	D	D	D	4 941
3362	Motor vehicle body and trailer manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
33621	Motor vehicle body and trailer manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
336213	Motor home manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>PETALUMA</b>													
31-33	Manufacturing .....	—	136	48	5 461	269 029	3 157	6 273	108 944	1 179 517	877 883	2 088 144	39 244
311	Food manufacturing .....	1	18	10	1 085	33 338	747	1 628	20 028	123 675	168 993	288 288	7 864
3116	Animal slaughtering and processing .....	4	5	4	524	12 386	415	926	8 814	53 620	37 172	87 458	3 392
31161	Animal slaughtering and processing .....	4	5	4	524	12 386	415	926	8 814	53 620	37 172	87 458	3 392
333	Machinery manufacturing .....	2	11	8	574	31 170	338	678	14 443	65 104	40 408	105 159	D
334	Computer and electronic product manufacturing .....	—	14	10	g	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	—	4	4	g	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing .....	—	4	4	g	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing .....	—	4	4	g	D	D	D	D	D	D	D	D
<b>PICO RIVERA</b>													
31-33	Manufacturing .....	2	79	34	2 580	84 490	1 811	3 462	46 851	201 369	343 828	544 871	10 688
311	Food manufacturing .....	1	14	6	580	19 767	313	519	8 096	30 185	162 078	192 373	3 408
<b>PITTSBURG</b>													
31-33	Manufacturing .....	—	45	14	2 274	112 736	1 677	3 465	78 081	426 886	683 550	1 122 593	124 718
325	Chemical manufacturing .....	—	6	3	f	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>PLACENTIA</b>													
31-33	Manufacturing .....	5	131	39	3 242	112 143	2 384	4 638	68 605	274 923	227 119	501 446	10 579
323	Printing and related support activities .....	—	20	5	605	16 885	496	832	10 963	24 526	14 588	39 103	616
3231	Printing and related support activities .....	—	20	5	605	16 885	496	832	10 963	24 526	14 588	39 103	616
32311	Printing .....	—	19	5	f	D	D	D	D	D	D	D	D
<b>PLEASANT HILL</b>													
31-33	Manufacturing .....	9	27	4	1 222	43 065	826	2 008	31 633	126 324	197 300	323 804	4 796
311	Food manufacturing .....	9	2	2	g	D	D	D	D	D	D	D	D
3113	Sugar and confectionery product manufacturing .....	9	1	1	g	D	D	D	D	D	D	D	D
31131	Sugar manufacturing .....	9	1	1	g	D	D	D	D	D	D	D	D
311311	Sugarcane mills .....	9	1	1	g	D	D	D	D	D	D	D	D
<b>PLEASANTON</b>													
31-33	Manufacturing .....	5	83	19	1 772	76 142	1 024	1 973	30 362	211 002	136 412	350 862	6 819
334	Computer and electronic product manufacturing .....	4	15	4	539	30 546	207	364	7 167	77 887	60 446	143 338	2 960

See footnotes at end of table.

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<b>POMONA</b>													
31-33	Manufacturing .....	2	259	86	9 224	310 117	6 551	12 852	187 198	750 779	780 706	1 531 683	43 026
311	Food manufacturing .....	-	15	5	1 494	59 562	778	1 220	26 090	128 477	60 311	188 892	3 702
3118	Bakeries and tortilla manufacturing .....	-	11	3	g	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	-	8	2	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	-	1	1	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	5	18	9	1 735	38 955	1 373	2 818	30 083	64 691	109 433	173 657	8 399
3261	Plastics product manufacturing ..	5	16	9	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	6	10	6	1 469	32 245	1 192	2 411	25 585	52 909	81 994	134 829	7 758
326191	Plastics plumbing fixture manufacturing .....	7	2	2	f	D	D	D	D	D	D	D	D
326199	All other plastics product manufacturing .....	5	8	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	52	16	1 219	39 625	889	1 757	23 432	97 016	54 750	151 675	4 781
334	Computer and electronic product manufacturing .....	2	16	9	764	33 810	444	957	15 503	94 966	114 964	211 723	5 023
337	Furniture and related product manufacturing .....	4	25	7	645	16 192	501	1 066	10 901	41 972	29 500	71 690	1 203
<b>PORTERVILLE</b>													
31-33	Manufacturing .....	3	32	6	962	24 843	801	1 535	18 779	56 349	89 738	146 273	2 177
<b>POWAY</b>													
31-33	Manufacturing .....	1	97	39	4 278	146 769	2 567	5 204	71 165	402 635	320 433	724 047	12 114
332	Fabricated metal product manufacturing .....	-	19	12	837	24 820	568	1 157	16 675	57 671	53 973	112 832	2 336
333	Machinery manufacturing .....	-	8	3	771	27 873	286	429	6 309	58 472	51 340	111 059	1 154
3332	Industrial machinery manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
333295	Semiconductor machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	12	6	723	30 062	432	964	15 680	63 866	82 697	144 814	2 381
3344	Semiconductor and other electronic component manufacturing .....	-	4	3	563	21 896	374	844	13 107	46 345	53 844	99 995	D
33441	Semiconductor and other electronic component manufacturing .....	-	4	3	563	21 896	374	844	13 107	46 345	53 844	99 995	D
339	Miscellaneous manufacturing .....	1	15	7	592	21 730	451	918	13 117	117 460	28 299	147 383	2 660
3399	Other miscellaneous manufacturing .....	1	11	6	f	D	D	D	D	D	D	D	D
<b>RANCHO CUCAMONGA</b>													
31-33	Manufacturing .....	1	253	86	8 346	312 207	6 092	11 908	190 626	1 125 058	1 074 996	2 210 104	78 667
311	Food manufacturing .....	-	10	4	815	23 079	736	1 175	19 743	303 247	152 349	452 162	6 790
3118	Bakeries and tortilla manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
31183	Tortilla manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
311830	Tortilla manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	30	18	1 468	50 051	1 176	2 439	34 257	179 972	182 710	364 410	10 603
3261	Plastics product manufacturing ..	-	25	16	1 266	44 485	1 008	2 042	29 752	161 211	175 510	338 617	9 331
331	Primary metal manufacturing .....	-	4	3	820	35 880	574	1 002	23 435	104 313	118 161	219 150	D
332	Fabricated metal product manufacturing .....	1	62	25	2 130	82 991	1 570	3 210	50 472	196 924	311 937	527 481	12 780
334	Computer and electronic product manufacturing .....	1	20	6	545	23 785	290	568	8 525	79 652	33 507	113 442	861
<b>RANCHO SANTA MARGARITA</b>													
31-33	Manufacturing .....	1	46	18	1 665	81 693	892	1 813	34 189	215 474	162 375	371 616	12 305
<b>REDDING</b>													
31-33	Manufacturing .....	3	100	18	1 253	40 648	859	1 726	22 966	114 780	87 404	202 672	D

See footnotes at end of table.

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<b>REDLANDS</b>													
31-33	Manufacturing .....	2	56	13	1 141	34 441	898	1 815	24 139	89 690	65 857	156 164	2 591
337	Furniture and related product manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
<b>REDONDO BEACH</b>													
31-33	Manufacturing .....	-	41	5	i	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	4	1	i	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	1	1	i	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	1	1	i	D	D	D	D	D	D	D	D
336414	Guided missile and space vehicle manufacturing .....	-	1	1	i	D	D	D	D	D	D	D	D
<b>REDWOOD CITY</b>													
31-33	Manufacturing .....	2	94	23	2 917	142 340	1 375	2 705	46 441	352 669	180 791	522 537	13 793
334	Computer and electronic product manufacturing .....	3	13	6	g	D	D	D	D	D	D	D	2 980
3342	Communications equipment manufacturing .....	-	4	2	747	33 506	360	737	9 951	8 095	53 906	61 751	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	-	17	4	852	59 393	188	426	9 966	104 950	31 996	131 845	D
3391	Medical equipment and supplies manufacturing .....	-	14	4	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	-	14	4	f	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	-	4	3	f	D	D	D	D	D	D	D	D
<b>RIALTO</b>													
31-33	Manufacturing .....	1	78	30	3 240	111 582	2 398	4 870	73 506	311 074	316 556	616 619	11 556
311	Food manufacturing .....	-	8	3	501	10 199	315	739	7 041	53 809	67 778	121 020	D
327	Nonmetallic mineral product manufacturing .....	-	9	4	729	29 371	538	1 090	19 714	103 727	72 959	171 564	5 406
3273	Cement and concrete product manufacturing .....	-	8	4	f	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing .....	-	5	2	556	22 228	390	776	14 339	76 056	51 012	122 391	D
327390	Other concrete product manufacturing .....	-	5	2	556	22 228	390	776	14 339	76 056	51 012	122 391	D
332	Fabricated metal product manufacturing .....	4	21	10	929	35 693	665	1 200	22 627	76 800	79 722	155 856	3 293
336	Transportation equipment manufacturing .....	-	8	4	638	20 737	549	1 188	14 424	37 860	55 332	88 256	685
3362	Motor vehicle body and trailer manufacturing .....	-	4	3	581	17 610	512	1 113	12 439	33 948	50 088	80 182	417
33621	Motor vehicle body and trailer manufacturing .....	-	4	3	581	17 610	512	1 113	12 439	33 948	50 088	80 182	417
336214	Travel trailer and camper manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
<b>RICHMOND</b>													
31-33	Manufacturing .....	-	124	39	4 854	241 346	3 224	6 079	146 262	1 298 753	2 364 074	3 609 739	152 385
324	Petroleum and coal products manufacturing .....	-	4	2	g	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing .....	-	4	2	g	D	D	D	D	D	D	D	D
32411	Petroleum refineries .....	-	1	1	g	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	28	11	1 016	42 418	712	1 302	23 438	97 785	52 856	142 856	4 964
3329	Other fabricated metal product manufacturing .....	-	4	4	620	25 614	436	742	14 932	37 228	26 417	63 045	D
33291	Metal valve manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
332911	Industrial valve manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>RIVERBANK</b>													
31-33	Manufacturing .....	1	13	5	955	31 718	794	1 600	24 928	120 493	73 077	193 516	4 490

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<b>RIVERSIDE</b>													
31-33	Manufacturing .....	1	315	80	9 824	367 223	6 969	14 041	216 905	888 720	915 728	1 806 286	81 201
311	Food manufacturing .....	-	19	4	823	28 596	662	1 315	19 611	71 482	168 814	239 013	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	2	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
311412	Frozen specialty food manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	-	32	8	836	30 462	626	1 206	21 478	115 671	88 303	203 609	2 942
3231	Printing and related support activities .....	-	32	8	836	30 462	626	1 206	21 478	115 671	88 303	203 609	2 942
32311	Printing .....	-	29	8	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing .....	-	17	6	713	26 890	542	1 060	19 312	108 315	85 770	193 721	2 708
326	Plastics and rubber products manufacturing .....	1	23	12	1 860	71 581	1 203	2 458	39 713	109 494	151 526	258 091	9 349
3261	Plastics product manufacturing ..	1	20	10	1 730	68 252	1 106	2 313	37 729	100 148	146 241	244 272	D
32619	Other plastics product manufacturing .....	2	15	6	1 277	53 218	725	1 486	26 230	33 728	78 723	109 924	5 921
326199	All other plastics product manufacturing .....	2	15	6	1 277	53 218	725	1 486	26 230	33 728	78 723	109 924	5 921
332	Fabricated metal product manufacturing .....	-	70	13	1 065	38 602	833	1 595	26 641	107 820	145 359	261 805	6 022
334	Computer and electronic product manufacturing .....	-	16	7	500	22 937	221	402	4 802	74 068	75 149	148 703	D
336	Transportation equipment manufacturing .....	-	18	4	1 344	67 932	944	2 043	45 169	144 417	80 255	220 665	9 063
3363	Motor vehicle parts manufacturing .....	-	7	2	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	-	17	5	978	24 391	860	1 902	17 624	45 300	54 679	99 840	720
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	-	13	3	907	22 276	804	1 798	16 321	41 270	51 653	92 784	630
33712	Household and institutional furniture manufacturing .....	-	5	2	852	20 399	761	1 700	14 980	37 855	48 061	85 781	600
337122	Nonupholstered wood household furniture manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	3	33	7	633	21 804	470	992	12 574	51 121	31 548	84 172	2 561
<b>ROCKLIN</b>													
31-33	Manufacturing .....	1	26	5	556	20 012	447	867	13 742	46 797	49 146	97 623	D
<b>ROHNERT PARK</b>													
31-33	Manufacturing .....	2	41	11	956	39 601	561	1 102	16 630	84 563	70 480	155 431	3 003
<b>ROSEMEAD</b>													
31-33	Manufacturing .....	2	71	10	939	23 248	773	1 294	15 677	66 051	39 566	105 384	2 091
<b>ROSEVILLE</b>													
31-33	Manufacturing .....	-	64	15	1 601	76 547	1 096	2 265	47 755	137 748	106 617	254 879	D
334	Computer and electronic product manufacturing .....	-	7	3	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SACRAMENTO</b>													
31-33	Manufacturing .....	1	426	122	13 489	511 036	9 021	18 121	288 703	1 835 715	1 458 007	3 249 150	70 066
311	Food manufacturing .....	—	57	19	5 048	209 353	3 061	6 100	105 827	946 333	704 050	1 657 762	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	—	1	1	f	D	D	D	D	D	D	D	D
311422	Specialty canning .....	—	1	1	f	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	—	6	3	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	—	37	13	2 565	100 754	1 090	2 156	31 875	268 121	69 142	337 221	4 522
31181	Bread and bakery product manufacturing .....	—	34	12	h	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	—	5	5	g	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	—	5	1	g	D	D	D	D	D	D	D	D
31191	Snack food manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
311911	Roasted nuts and peanut butter manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	4	7	4	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	4	7	4	f	D	D	D	D	D	D	D	D
31211	Soft drink and ice manufacturing .....	3	4	4	720	28 905	126	233	4 729	169 452	110 812	281 246	D
312111	Soft drink manufacturing .....	4	3	3	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	2	22	9	610	15 679	516	1 021	12 110	30 066	52 250	82 300	D
3219	Other wood product manufacturing .....	2	21	8	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	1	84	17	1 237	47 670	908	1 630	29 685	100 895	53 142	146 460	4 891
3231	Printing and related support activities .....	1	84	17	1 237	47 670	908	1 630	29 685	100 895	53 142	146 460	4 891
32311	Printing .....	1	69	16	1 120	43 710	817	1 466	27 241	92 931	51 739	137 034	4 642
323110	Commercial lithographic printing .....	—	38	12	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	22	7	f	D	D	D	D	D	D	D	3 735
3261	Plastics product manufacturing ..	—	21	6	525	15 766	443	967	11 979	65 804	56 017	122 270	D
332	Fabricated metal product manufacturing .....	3	63	15	940	31 056	693	1 386	20 259	61 947	45 762	107 230	D
3323	Architectural and structural metals manufacturing .....	2	26	9	558	18 643	410	822	11 685	39 160	32 094	70 973	D
336	Transportation equipment manufacturing .....	1	12	5	926	43 675	788	1 692	34 590	189 385	121 208	260 641	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
337	Furniture and related product manufacturing .....	2	36	12	1 172	33 543	826	1 703	17 925	62 740	63 289	125 927	4 743
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	2	23	6	f	D	D	D	D	D	D	D	892
<b>ST. HELENA</b>													
31-33	Manufacturing .....	1	37	13	1 501	71 281	715	1 425	33 363	403 798	323 600	741 068	20 748
312	Beverage and tobacco product manufacturing .....	—	21	6	1 207	60 510	505	1 033	25 623	381 955	311 361	707 399	20 516
3121	Beverage manufacturing .....	—	21	6	1 207	60 510	505	1 033	25 623	381 955	311 361	707 399	20 516
31213	Wineries .....	—	21	6	1 207	60 510	505	1 033	25 623	381 955	311 361	707 399	20 516
312130	Wineries .....	—	21	6	1 207	60 510	505	1 033	25 623	381 955	311 361	707 399	20 516
<b>SALINAS</b>													
31-33	Manufacturing .....	—	108	24	3 575	112 080	2 677	4 561	69 442	531 071	426 829	953 786	21 380
311	Food manufacturing .....	—	31	11	2 382	68 356	1 788	3 006	42 329	424 506	312 209	731 537	17 089
3119	Other food manufacturing .....	—	8	6	g	D	D	D	D	D	D	D	D
31199	All other food manufacturing ...	—	6	4	g	D	D	D	D	D	D	D	11 670
311991	Perishable prepared food manufacturing .....	—	6	4	g	D	D	D	D	D	D	D	11 670

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 <sup>2</sup>			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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN BERNARDINO</b>													
31-33	Manufacturing .....	2	152	52	3 735	119 846	2 814	5 498	76 006	335 905	367 716	711 837	26 470
336	Transportation equipment manufacturing .....	3	9	6	509	14 919	409	853	9 017	26 483	56 647	82 972	490
<b>SAN BUENAVENTURA (VENTURA)</b>													
31-33	Manufacturing .....	2	186	40	3 117	111 672	2 190	4 347	61 486	290 209	156 782	452 669	13 227
<b>SAN CARLOS</b>													
31-33	Manufacturing .....	1	139	34	3 041	128 560	2 101	3 789	73 085	358 871	241 120	600 809	8 816
332	Fabricated metal product manufacturing .....	1	48	6	620	26 556	430	832	15 293	65 732	33 286	99 598	1 898
334	Computer and electronic product manufacturing .....	-	10	4	867	39 564	663	1 259	23 976	82 275	48 077	126 415	D
3344	Semiconductor and other electronic component manufacturing .....	-	6	3	817	37 014	640	1 212	23 292	77 369	44 481	117 893	D
33441	Semiconductor and other electronic component manufacturing .....	-	6	3	817	37 014	640	1 212	23 292	77 369	44 481	117 893	D
334411	Electron tube manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>SAN CLEMENTE</b>													
31-33	Manufacturing .....	3	87	18	2 682	136 231	1 467	2 876	55 465	302 522	144 620	444 222	16 366
339	Miscellaneous manufacturing .....	2	26	7	1 252	73 101	559	1 040	24 716	155 304	38 423	190 950	6 626
3391	Medical equipment and supplies manufacturing .....	2	16	6	1 155	69 813	483	902	22 480	146 927	32 987	177 209	6 456
33911	Medical equipment and supplies manufacturing .....	2	16	6	1 155	69 813	483	902	22 480	146 927	32 987	177 209	6 456
339112	Surgical and medical instrument manufacturing .....	3	5	2	846	55 716	334	596	18 645	115 328	19 232	132 697	D
<b>SAN DIEGO</b>													
31-33	Manufacturing .....	1	1 363	381	56 758	2 578 042	30 698	60 107	1 027 053	7 704 570	7 325 521	15 026 617	603 165
311	Food manufacturing .....	1	106	28	3 018	85 255	2 054	3 831	54 671	390 365	193 051	568 791	20 846
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	5	3	f	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	1	3	2	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	1	71	15	1 412	29 272	956	1 712	18 011	70 516	34 197	104 685	3 417
31181	Bread and bakery product manufacturing .....	1	60	11	1 086	22 501	715	1 297	13 042	55 019	24 971	79 971	2 162
311812	Commercial bakeries .....	-	24	8	810	18 194	588	1 107	10 994	46 592	20 186	66 756	1 924
312	Beverage and tobacco product manufacturing .....	-	11	4	919	28 187	279	552	9 798	229 754	132 986	358 570	45 944
3121	Beverage manufacturing .....	-	11	4	919	28 187	279	552	9 798	229 754	132 986	358 570	45 944
31211	Soft drink and ice manufacturing .....	-	6	3	572	24 626	268	532	9 532	223 621	130 127	349 579	D
312111	Soft drink manufacturing ....	-	2	2	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	2	50	8	714	14 006	663	1 272	11 952	19 935	17 504	37 484	D
3152	Cut and sew apparel manufacturing .....	3	45	7	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	2	209	29	2 454	83 377	1 722	2 989	51 959	187 303	109 430	295 307	9 664
3231	Printing and related support activities .....	2	209	29	2 454	83 377	1 722	2 989	51 959	187 303	109 430	295 307	9 664
32311	Printing .....	2	184	26	2 258	76 669	1 589	2 758	48 352	175 581	106 756	280 862	9 438
323110	Commercial lithographic printing .....	2	83	17	1 387	47 545	963	1 597	30 339	104 183	70 859	174 763	5 105
325	Chemical manufacturing .....	1	62	24	3 073	165 251	1 363	2 567	55 176	593 938	281 177	864 466	47 443
3254	Pharmaceutical and medicine manufacturing .....	1	29	15	2 529	141 465	1 059	2 008	43 846	410 196	123 219	523 094	37 726
32541	Pharmaceutical and medicine manufacturing .....	1	29	15	2 529	141 465	1 059	2 008	43 846	410 196	123 219	523 094	37 726
325413	In-vitro diagnostic substance manufacturing .....	-	10	8	1 907	108 645	777	1 565	33 548	316 211	70 963	375 660	31 601

See footnotes at end of table.



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

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NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN DIEGO—Con.</b>													
326	Plastics and rubber products manufacturing .....	3	43	13	1 504	53 783	1 006	1 949	26 559	134 870	129 585	264 617	6 377
3261	Plastics product manufacturing ..	3	37	11	1 366	49 282	940	1 812	24 829	129 452	116 748	246 262	D
32619	Other plastics product manufacturing .....	4	24	7	878	29 675	645	1 245	16 556	98 564	78 332	177 992	3 985
326199	All other plastics product manufacturing .....	4	24	7	878	29 675	645	1 245	16 556	98 564	78 332	177 992	3 985
327	Nonmetallic mineral product manufacturing .....	3	32	7	641	25 725	518	1 121	19 829	94 703	103 859	199 150	4 531
332	Fabricated metal product manufacturing .....	1	138	28	2 391	96 844	1 755	3 598	66 031	191 977	111 400	301 072	13 319
3323	Architectural and structural metals manufacturing .....	1	25	6	959	44 520	716	1 559	31 511	75 825	42 024	116 653	4 991
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	68	11	860	31 961	615	1 228	22 198	74 746	29 210	103 862	6 022
33271	Machine shops .....	1	63	10	792	29 248	564	1 119	20 354	68 347	28 080	96 683	4 602
332710	Machine shops .....	1	63	10	792	29 248	564	1 119	20 354	68 347	28 080	96 683	4 602
333	Machinery manufacturing .....	-	63	20	4 693	190 653	2 367	4 708	96 038	722 748	814 894	1 545 767	6 814
3336	Engine, turbine, and power transmission equipment manufacturing .....	-	4	3	h	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	-	4	3	h	D	D	D	D	D	D	D	D
333611	Turbine and turbine generator set units manufacturing .....	-	2	2	h	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	221	114	20 113	1 099 104	7 985	15 511	279 393	3 224 092	3 997 254	7 260 495	275 158
3341	Computer and peripheral equipment manufacturing .....	-	29	14	6 096	378 005	1 561	2 972	64 689	1 307 785	2 063 276	3 413 319	198 949
33411	Computer and peripheral equipment manufacturing ....	-	29	14	6 096	378 005	1 561	2 972	64 689	1 307 785	2 063 276	3 413 319	198 949
334111	Electronic computer manufacturing .....	-	9	6	h	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment manufacturing ..	1	19	7	h	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	-	33	23	3 431	196 819	1 354	2 798	50 334	819 706	913 797	1 713 202	29 534
33421	Telephone apparatus manufacturing .....	-	6	3	512	38 192	107	258	7 780	45 014	46 578	94 722	D
334210	Telephone apparatus manufacturing .....	-	6	3	512	38 192	107	258	7 780	45 014	46 578	94 722	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	-	24	17	2 769	152 821	1 200	2 449	41 879	762 327	861 898	1 600 806	25 518
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	-	24	17	2 769	152 821	1 200	2 449	41 879	762 327	861 898	1 600 806	25 518
3344	Semiconductor and other electronic component manufacturing .....	1	73	41	4 784	212 115	3 040	5 795	97 792	353 827	438 979	818 256	D
33441	Semiconductor and other electronic component manufacturing .....	1	73	41	4 784	212 115	3 040	5 795	97 792	353 827	438 979	818 256	D
334413	Semiconductor and related device manufacturing .....	-	16	12	2 012	96 797	1 261	2 067	41 148	154 869	301 175	473 062	D
334414	Electronic capacitor manufacturing .....	1	5	3	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	2	12	8	602	24 550	425	915	13 307	45 190	51 459	97 269	D
334419	Other electronic component manufacturing .....	1	23	11	1 056	48 060	593	1 155	18 646	70 634	46 850	122 829	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	1	70	32	5 337	290 903	1 702	3 165	55 372	665 664	465 281	1 122 327	23 704
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	1	70	32	5 337	290 903	1 702	3 165	55 372	665 664	465 281	1 122 327	23 704
334510	Electromedical and electrotherapeutic apparatus manufacturing...	5	13	10	1 240	64 137	524	1 048	15 663	106 232	83 305	189 999	3 074
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	-	7	4	2 474	139 384	574	859	18 293	231 155	151 398	383 077	12 270

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN DIEGO—Con.</b>													
334	Computer and electronic product manufacturing—Con.												
3345	Navigational, measuring, electromedical, and control instruments manufacturing—Con.												
33451	Navigational, measuring, electromedical, and control instruments manufacturing—Con.												
334519	Other measuring and controlling device manufacturing .....	-	10	5	553	32 897	139	272	4 808	67 343	29 074	97 452	981
335	Electrical equipment, appliance, and component manufacturing .....	1	22	16	1 764	90 026	865	1 789	28 899	337 762	151 417	467 301	D
3359	Other electrical equipment and component manufacturing .....	-	12	8	1 237	65 701	612	1 267	22 368	280 341	113 145	370 831	D
33599	All other electrical equipment and component manufacturing .....	-	7	5	g	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment and component manufacturing ..	-	7	5	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	42	16	7 503	336 222	5 516	11 184	205 859	674 491	661 439	1 336 938	D
3364	Aerospace product and parts manufacturing .....	-	11	8	1 730	101 445	970	2 023	48 760	215 003	211 183	426 837	D
33641	Aerospace product and parts manufacturing .....	-	11	8	1 730	101 445	970	2 023	48 760	215 003	211 183	426 837	D
336411	Aircraft manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	-	6	3	f	D	D	D	D	D	D	D	D
3366	Ship and boat building .....	-	10	6	5 628	230 833	4 450	9 012	154 775	449 944	441 651	891 595	38 516
33661	Ship and boat building .....	-	10	6	5 628	230 833	4 450	9 012	154 775	449 944	441 651	891 595	38 516
336611	Ship building and repairing ..	-	7	6	i	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	2	76	13	1 608	43 180	1 295	2 499	28 657	106 361	66 560	172 221	2 960
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	2	59	5	916	21 463	792	1 646	15 810	42 478	33 565	75 158	1 975
33712	Household and institutional furniture manufacturing .....	2	37	4	767	17 514	684	1 428	13 341	35 720	29 451	64 223	769
337122	Nonupholstered wood household furniture manufacturing .....	2	22	4	726	16 200	655	1 373	12 582	32 807	26 731	58 592	678
339	Miscellaneous manufacturing .....	4	199	45	5 314	235 124	2 499	4 981	72 081	700 988	462 172	1 166 866	39 949
3391	Medical equipment and supplies manufacturing .....	5	86	16	3 185	159 299	1 127	2 277	37 286	473 983	337 468	815 431	31 885
33911	Medical equipment and supplies manufacturing .....	5	86	16	3 185	159 299	1 127	2 277	37 286	473 983	337 468	815 431	31 885
339111	Laboratory apparatus and furniture manufacturing .....	9	5	1	g	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	2	16	9	985	41 697	413	912	17 114	149 024	46 896	199 509	18 705
3399	Other miscellaneous manufacturing .....	1	113	29	2 129	75 825	1 372	2 704	34 795	227 005	124 704	351 435	8 064
33992	Sporting and athletic goods manufacturing .....	1	32	11	950	29 001	706	1 402	16 074	74 127	61 076	133 331	5 538
339920	Sporting and athletic goods manufacturing .....	1	32	11	950	29 001	706	1 402	16 074	74 127	61 076	133 331	5 538
33999	All other miscellaneous manufacturing .....	1	40	10	723	28 910	368	708	9 616	114 222	41 295	156 457	1 939
339999	All other miscellaneous manufacturing .....	2	36	9	f	D	D	D	D	D	D	D	D
<b>SAN DIMAS</b>													
31-33	Manufacturing .....	1	89	24	2 311	78 949	1 761	3 279	46 628	540 495	184 812	741 072	D
<b>SAN FERNANDO</b>													
31-33	Manufacturing .....	1	89	31	3 812	112 455	2 995	6 302	73 959	427 954	302 066	720 416	21 642
315	Apparel manufacturing .....	7	10	4	1 125	23 781	1 023	2 155	19 257	48 153	41 449	89 645	545
3152	Cut and sew apparel manufacturing .....	7	10	4	1 125	23 781	1 023	2 155	19 257	48 153	41 449	89 645	545
31521	Cut and sew apparel contractors .....	-	7	2	f	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors .....	-	6	1	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D

See footnotes at end of table.

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

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NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN FRANCISCO</b>													
31-33	Manufacturing .....	6	932	191	15 566	488 713	10 512	19 970	265 543	1 818 070	1 821 825	3 589 122	38 402
311	Food manufacturing .....	5	137	30	2 488	70 549	1 503	2 739	39 374	221 800	140 864	362 995	D
3118	Bakeries and tortilla manufacturing .....	6	83	16	1 567	38 981	825	1 342	19 189	126 158	41 648	167 820	D
31181	Bread and bakery product manufacturing .....	5	74	14	1 415	35 318	712	1 149	16 838	117 621	36 717	154 334	D
311811	Retail bakeries .....	4	57	7	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	6	16	6	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	7	183	68	5 572	134 518	3 910	7 342	67 235	958 242	1 251 023	2 164 484	D
3152	Cut and sew apparel manufacturing .....	8	168	63	4 842	111 426	3 405	6 201	56 622	928 723	1 203 286	2 085 168	4 258
31521	Cut and sew apparel contractors .....	4	118	41	g	D	D	D	D	D	D	D	D
315212	Women's, girls', and infants' cut and sew apparel contractors .....	3	112	40	g	D	D	D	D	D	D	D	D
31522	Men's and boys' cut and sew apparel manufacturing .....	9	15	7	f	D	D	D	D	D	D	D	D
31523	Women's and girls' cut and sew apparel manufacturing .....	-	26	14	g	D	D	D	D	D	D	D	D
315232	Women's and girls' cut and sew blouse and shirt manufacturing .....	-	5	3	f	D	D	D	D	D	D	D	D
315233	Women's and girls' cut and sew dress manufacturing .....	1	7	3	514	15 214	170	293	3 235	56 537	60 576	119 418	D
323	Printing and related support activities .....	2	207	26	2 090	86 155	1 451	2 653	52 542	168 555	81 175	250 531	7 744
3231	Printing and related support activities .....	2	207	26	2 090	86 155	1 451	2 653	52 542	168 555	81 175	250 531	7 744
32311	Printing .....	3	179	19	1 548	58 269	1 097	2 039	35 555	121 345	66 367	187 765	D
323110	Commercial lithographic printing .....	2	86	9	775	31 794	546	1 034	18 989	60 735	42 111	102 968	1 176
32312	Support activities for printing .....	-	28	7	542	27 886	354	614	16 987	47 210	14 808	62 766	D
332	Fabricated metal product manufacturing .....	6	67	5	718	25 967	530	1 042	16 043	46 409	32 654	78 541	1 354
334	Computer and electronic product manufacturing .....	4	29	8	1 113	43 601	456	909	11 251	90 569	83 600	171 396	3 216
3344	Semiconductor and other electronic component manufacturing .....	-	6	2	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	6	2	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	3	82	21	1 129	40 083	826	1 703	23 387	92 959	45 869	138 577	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	3	65	15	819	28 883	588	1 229	16 196	72 454	37 318	109 205	D
33712	Household and institutional furniture manufacturing .....	2	47	10	565	17 881	445	892	12 273	51 667	25 631	76 587	D
339	Miscellaneous manufacturing .....	6	95	10	1 003	29 427	755	1 428	19 309	107 396	80 781	188 770	2 686
3399	Other miscellaneous manufacturing .....	6	57	9	835	23 412	635	1 187	15 269	95 991	77 557	174 234	2 400
<b>SAN GABRIEL</b>													
31-33	Manufacturing .....	3	61	8	566	14 849	443	829	9 891	39 537	24 353	63 777	1 799
<b>SANGER</b>													
31-33	Manufacturing .....	1	22	12	1 188	34 351	1 018	1 928	24 651	87 321	117 306	209 414	3 388
<b>SAN JACINTO</b>													
31-33	Manufacturing .....	1	25	6	553	16 027	461	865	11 254	40 065	27 581	67 352	1 784

See footnotes at end of table.

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

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NAICS code	Geographic area and industry	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN JOSE</b>													
31-33	Manufacturing .....	-	1 086	341	61 187	3 473 302	25 680	45 518	926 213	10 934 862	8 208 282	19 663 937	701 472
311	Food manufacturing .....	1	82	17	1 374	44 728	1 026	1 867	33 469	180 035	183 285	365 810	7 826
3118	Bakeries and tortilla manufacturing .....	3	51	6	500	12 766	278	459	7 754	24 677	11 970	36 672	1 540
323	Printing and related support activities .....	6	79	8	962	35 346	629	1 137	19 783	69 172	31 209	100 581	1 960
3231	Printing and related support activities .....	6	79	8	962	35 346	629	1 137	19 783	69 172	31 209	100 581	1 960
32311	Printing .....	7	73	7	875	31 276	574	1 038	17 474	61 983	29 028	91 210	1 826
326	Plastics and rubber products manufacturing .....	5	25	11	1 381	44 363	1 017	2 090	29 500	113 202	91 625	204 785	6 532
3261	Plastics product manufacturing ..	6	22	10	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	6	18	8	1 068	33 292	841	1 715	24 781	98 180	74 254	172 045	5 034
326199	All other plastics product manufacturing .....	6	16	8	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	1	21	12	664	26 924	528	1 059	20 720	77 367	63 459	141 306	3 301
332	Fabricated metal product manufacturing .....	2	233	51	3 853	144 805	2 932	5 804	98 249	285 509	143 859	433 408	29 223
3323	Architectural and structural metals manufacturing .....	1	46	17	1 555	56 823	1 214	2 558	39 117	100 460	69 030	176 622	16 871
33232	Ornamental and architectural metal products manufacturing .....	1	35	16	1 443	52 512	1 135	2 314	36 385	90 961	64 968	162 965	16 720
332322	Sheet metal work manufacturing .....	-	29	13	g	D	D	D	D	D	D	D	16 212
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	2	129	17	1 388	57 047	1 033	2 008	37 487	131 549	47 405	176 523	6 961
33271	Machine shops .....	2	115	11	1 083	45 446	781	1 534	28 150	99 949	36 463	133 275	5 939
332710	Machine shops .....	2	115	11	1 083	45 446	781	1 534	28 150	99 949	36 463	133 275	5 939
333	Machinery manufacturing .....	2	66	28	7 120	415 935	3 190	3 187	138 010	711 457	611 956	1 344 820	77 672
3332	Industrial machinery manufacturing .....	2	35	18	5 836	347 709	2 747	2 412	121 042	637 401	562 606	1 222 924	71 213
33329	Other industrial machinery manufacturing .....	2	34	18	i	D	D	D	D	D	D	D	D
333295	Semiconductor machinery manufacturing .....	1	24	13	5 601	338 235	2 590	2 174	116 343	611 338	550 931	1 184 525	70 669
3333	Commercial and service industry machinery manufacturing .....	4	11	5	564	35 724	246	446	9 046	43 745	18 366	60 449	4 386
33331	Commercial and service industry machinery manufacturing .....	4	11	5	564	35 724	246	446	9 046	43 745	18 366	60 449	4 386
3339	Other general purpose machinery manufacturing .....	8	5	3	530	24 492	79	91	2 947	16 266	26 009	42 394	D
33399	All other general purpose machinery manufacturing .....	8	4	3	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	311	160	39 572	2 458 178	13 230	24 363	489 422	8 689 843	6 633 612	15 803 627	503 725
3341	Computer and peripheral equipment manufacturing .....	-	38	14	i	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing .....	-	38	14	i	D	D	D	D	D	D	D	D
334112	Computer storage device manufacturing .....	-	9	4	i	D	D	D	D	D	D	D	D
3342	Communications equipment manufacturing .....	-	50	35	8 755	600 064	2 095	3 449	88 599	4 060 774	2 996 769	7 429 575	142 722
33421	Telephone apparatus manufacturing .....	-	29	23	7 079	496 975	1 560	2 303	63 771	3 988 301	2 721 808	7 010 564	130 125
334210	Telephone apparatus manufacturing .....	-	29	23	7 079	496 975	1 560	2 303	63 771	3 988 301	2 721 808	7 010 564	130 125
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	3	18	11	1 598	98 868	518	1 114	24 288	60 587	262 319	393 929	12 264
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	3	18	11	1 598	98 868	518	1 114	24 288	60 587	262 319	393 929	12 264

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN JOSE—Con.</b>													
334	Computer and electronic product manufacturing—Con.												
3344	Semiconductor and other electronic component manufacturing .....	—	148	70	13 577	660 060	6 608	12 567	214 764	1 702 507	1 448 231	3 209 822	138 876
33441	Semiconductor and other electronic component manufacturing .....	—	148	70	13 577	660 060	6 608	12 567	214 764	1 702 507	1 448 231	3 209 822	138 876
334412	Bare printed circuit board manufacturing .....	1	18	6	677	27 343	477	933	15 920	48 294	68 059	119 110	3 560
334413	Semiconductor and related device manufacturing .....	—	58	24	8 533	477 186	3 488	6 701	127 060	1 320 471	853 074	2 191 555	113 669
334418	Printed circuit assembly (electronic assembly) manufacturing .....	1	34	27	3 133	103 643	1 952	3 618	45 784	227 821	480 658	743 141	17 776
334419	Other electronic component manufacturing .....	1	24	7	718	32 619	350	717	15 742	89 272	35 290	126 286	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	1	59	37	8 352	570 604	1 759	3 590	82 149	1 012 798	637 471	1 637 550	32 101
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	1	59	37	8 352	570 604	1 759	3 590	82 149	1 012 798	637 471	1 637 550	32 101
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables .....	7	9	4	520	23 763	289	563	10 370	60 006	27 505	84 264	1 784
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	—	30	22	5 320	352 824	931	1 871	43 171	634 832	399 269	1 031 353	18 685
334516	Analytical laboratory instrument manufacturing ..	—	6	2	g	D	D	D	D	D	D	D	D
3346	Manufacturing and reproducing magnetic and optical media.....	—	11	2	g	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media.....	—	11	2	g	D	D	D	D	D	D	D	D
334613	Magnetic and optical recording media manufacturing .....	—	3	2	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	1	14	3	f	D	D	D	D	D	D	D	D
3369	Other transportation equipment manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
33699	Other transportation equipment manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
336992	Military armored vehicle, tank, and tank component manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	2	65	9	807	26 938	575	1 105	15 238	51 038	45 346	96 410	1 661
339	Miscellaneous manufacturing .....	1	91	17	2 430	124 944	1 031	1 865	29 473	349 165	164 933	515 718	19 448
3391	Medical equipment and supplies manufacturing .....	—	49	9	1 720	100 182	561	1 122	16 860	293 956	145 426	440 533	17 726
33911	Medical equipment and supplies manufacturing .....	—	49	9	1 720	100 182	561	1 122	16 860	293 956	145 426	440 533	17 726
339112	Surgical and medical instrument manufacturing ..	—	9	6	1 417	88 647	366	764	11 669	261 070	126 314	388 510	16 983
3399	Other miscellaneous manufacturing .....	5	42	8	710	24 762	470	743	12 613	55 209	19 507	75 185	1 722
33999	All other miscellaneous manufacturing .....	5	22	6	592	21 041	390	602	10 448	47 978	15 910	64 171	1 532
339999	All other miscellaneous manufacturing .....	5	19	5	f	D	D	D	D	D	D	D	D
<b>SAN JUAN CAPISTRANO</b>													
31-33	Manufacturing .....	1	37	9	980	44 764	527	1 140	16 246	108 534	70 930	182 325	3 713
334	Computer and electronic product manufacturing .....	1	5	3	501	29 947	249	557	10 048	51 679	31 619	86 844	2 312

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SAN LEANDRO</b>													
31-33	Manufacturing .....	2	240	81	7 829	297 316	5 611	10 853	180 017	848 521	1 010 250	1 866 229	45 629
311	Food manufacturing .....	4	19	11	1 650	55 542	1 062	1 992	30 144	253 373	307 385	563 720	11 020
3113	Sugar and confectionery product manufacturing .....	8	2	2	f	D	D	D	D	D	D	D	D
31133	Confectionery manufacturing from purchased chocolate ....	8	2	2	f	D	D	D	D	D	D	D	D
311330	Confectionery manufacturing from purchased chocolate ..	8	2	2	f	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	—	4	4	558	17 119	339	759	11 473	75 849	76 944	153 658	D
326	Plastics and rubber products manufacturing .....	—	17	9	872	28 478	691	1 409	18 956	65 311	71 720	138 048	3 666
3261	Plastics product manufacturing ..	—	15	9	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	8	6	501	15 017	399	833	9 849	28 983	26 482	55 532	1 000
332	Fabricated metal product manufacturing .....	1	45	14	1 255	54 933	926	1 800	36 427	173 861	144 990	318 956	3 063
3323	Architectural and structural metals manufacturing .....	1	12	5	748	30 303	550	1 067	20 462	98 827	68 200	167 257	1 816
<b>SAN LUIS OBISPO</b>													
31-33	Manufacturing .....	4	86	20	1 658	66 883	997	1 847	29 615	144 910	134 343	274 454	12 071
<b>SAN MARCOS</b>													
31-33	Manufacturing .....	1	226	65	5 975	217 305	4 014	8 003	110 284	554 446	353 883	911 297	33 346
326	Plastics and rubber products manufacturing .....	1	19	10	1 217	58 559	690	1 232	21 468	143 271	71 553	215 745	10 466
3261	Plastics product manufacturing ..	—	15	8	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	11	6	925	47 766	468	779	14 798	111 854	49 441	162 035	D
326199	All other plastics product manufacturing .....	—	11	6	925	47 766	468	779	14 798	111 854	49 441	162 035	D
332	Fabricated metal product manufacturing .....	2	44	10	663	21 330	507	1 002	14 019	40 719	23 550	64 935	1 000
333	Machinery manufacturing .....	—	18	5	527	18 883	317	623	9 270	39 615	35 669	76 592	1 229
339	Miscellaneous manufacturing .....	—	22	3	581	14 282	506	1 035	11 171	52 286	33 903	85 885	1 722
<b>SAN RAFAEL</b>													
31-33	Manufacturing .....	3	110	15	1 148	44 008	753	1 495	26 545	98 572	58 941	154 873	3 479
<b>SAN RAMON</b>													
31-33	Manufacturing .....	2	36	7	615	31 357	362	709	13 042	68 456	37 510	105 166	3 013
<b>SANTA ANA</b>													
31-33	Manufacturing .....	2	919	278	27 657	969 903	20 310	40 664	549 311	2 266 565	1 910 630	4 163 334	135 744
311	Food manufacturing .....	2	50	13	1 617	46 700	1 170	2 440	25 722	127 106	143 256	269 912	5 789
3118	Bakeries and tortilla manufacturing .....	3	34	9	1 177	28 798	853	1 840	15 708	87 689	56 708	144 176	4 657
31181	Bread and bakery product manufacturing .....	4	28	8	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	3	9	4	837	20 574	593	1 322	10 064	57 557	29 993	87 514	1 071
314	Textile product mills .....	5	20	10	1 090	30 601	776	1 504	17 778	67 804	127 775	197 057	1 450
3141	Textile furnishings mills .....	6	9	4	786	23 971	560	1 117	13 618	56 493	118 735	176 686	D
31411	Carpet and rug mills .....	6	3	2	f	D	D	D	D	D	D	D	D
314110	Carpet and rug mills .....	6	3	2	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	6	77	12	1 043	19 490	932	1 695	14 884	33 191	19 693	53 208	339
3152	Cut and sew apparel manufacturing .....	5	74	12	g	D	D	D	D	D	D	D	D
31521	Cut and sew apparel contractors .....	5	58	7	628	9 638	589	1 061	8 246	15 564	2 349	17 906	D
323	Printing and related support activities .....	2	100	20	1 659	46 101	1 349	2 283	29 445	102 960	38 162	141 185	5 873
3231	Printing and related support activities .....	2	100	20	1 659	46 101	1 349	2 283	29 445	102 960	38 162	141 185	5 873
32311	Printing .....	2	91	19	1 504	41 539	1 208	2 034	25 633	96 580	36 438	133 081	5 193
323110	Commercial lithographic printing .....	2	39	10	520	17 429	400	696	10 753	43 476	15 505	58 992	3 424
323113	Commercial screen printing ..	—	15	7	703	13 799	629	1 004	9 579	30 853	6 916	37 695	1 157

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SANTA ANA—Con.</b>													
325	Chemical manufacturing .....	1	36	11	1 178	55 014	645	1 251	25 206	262 864	247 916	507 491	25 772
3259	Other chemical product and preparation manufacturing .....	3	10	4	543	25 543	283	567	11 025	27 590	96 785	122 373	D
32599	All other chemical product and preparation manufacturing .....	3	10	4	543	25 543	283	567	11 025	27 590	96 785	122 373	D
326	Plastics and rubber products manufacturing .....	3	40	20	1 483	53 994	1 147	2 435	34 457	124 746	125 361	251 750	8 193
3261	Plastics product manufacturing ..	3	38	18	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	6	20	8	555	14 784	450	882	10 525	32 252	22 025	54 235	1 535
332	Fabricated metal product manufacturing .....	3	208	54	5 295	202 321	4 181	9 085	136 588	391 925	187 865	579 659	16 907
3321	Forging and stamping.....	—	8	4	756	29 975	637	1 508	21 275	65 454	33 743	96 867	1 757
33211	Forging and stamping.....	—	8	4	756	29 975	637	1 508	21 275	65 454	33 743	96 867	1 757
332112	Nonferrous forging .....	—	1	1	f	D	D	D	D	D	D	D	D
3323	Architectural and structural metals manufacturing .....	2	36	13	1 212	43 258	972	2 096	30 102	81 795	57 427	140 773	3 622
33232	Ornamental and architectural metal products manufacturing .....	3	28	9	844	27 645	683	1 430	19 175	50 144	39 172	91 354	1 549
332322	Sheet metal work manufacturing .....	5	18	5	513	15 699	441	973	11 884	29 212	19 665	49 019	1 258
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	5	112	15	1 681	75 122	1 270	2 635	49 146	145 481	47 963	193 425	6 646
33271	Machine shops .....	4	92	8	743	28 156	585	1 151	19 188	53 434	21 893	75 336	1 552
332710	Machine shops .....	4	92	8	743	28 156	585	1 151	19 188	53 434	21 893	75 336	1 552
33272	Turned product and screw, nut, and bolt manufacturing .....	6	20	7	938	46 966	685	1 484	29 958	92 047	26 070	118 089	5 094
332722	Bolt, nut, screw, rivet, and washer manufacturing .....	7	5	2	705	38 842	499	1 099	24 238	73 360	20 572	93 967	D
3328	Coating, engraving, heat treating, and allied activities .....	—	21	10	830	26 111	703	1 634	18 961	45 117	12 480	57 571	1 898
33281	Coating, engraving, heat treating, and allied activities ..	—	21	10	830	26 111	703	1 634	18 961	45 117	12 480	57 571	1 898
332813	Electroplating, plating, polishing, anodizing, and coloring .....	—	16	9	785	24 444	672	1 565	18 155	41 357	11 621	52 970	1 878
3329	Other fabricated metal product manufacturing .....	4	18	8	595	20 074	435	849	12 294	38 974	25 672	64 943	2 425
333	Machinery manufacturing .....	1	62	20	1 881	66 453	1 352	2 629	41 592	192 901	166 234	345 392	6 498
3333	Commercial and service industry machinery manufacturing .....	—	21	9	708	23 594	438	901	12 701	93 153	98 976	184 234	2 324
33331	Commercial and service industry machinery manufacturing .....	—	21	9	708	23 594	438	901	12 701	93 153	98 976	184 234	2 324
334	Computer and electronic product manufacturing .....	—	98	33	5 945	221 744	4 181	8 191	101 904	403 388	502 125	908 692	27 779
3342	Communications equipment manufacturing .....	—	5	2	g	D	D	D	D	D	D	D	D
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	4	1	g	D	D	D	D	D	D	D	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	—	4	1	g	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	—	59	21	3 615	124 864	2 716	5 446	65 894	219 123	170 855	390 104	20 935
33441	Semiconductor and other electronic component manufacturing .....	—	59	21	3 615	124 864	2 716	5 446	65 894	219 123	170 855	390 104	20 935
334412	Bare printed circuit board manufacturing .....	—	20	6	759	28 802	578	1 276	19 727	64 088	24 938	88 848	8 947
334417	Electronic connector manufacturing .....	—	4	3	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) manufacturing .....	—	13	6	976	23 804	820	1 630	16 722	46 935	44 612	90 950	756
335	Electrical equipment, appliance, and component manufacturing .....	—	28	11	638	23 218	348	708	9 013	64 188	27 934	90 528	D
336	Transportation equipment manufacturing .....	2	27	10	759	28 067	558	1 171	16 600	61 567	47 325	108 713	2 433
337	Furniture and related product manufacturing .....	5	27	10	671	19 927	551	1 115	14 254	41 272	41 723	82 953	3 740

See footnotes at end of table.

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<b>SANTA ANA—Con.</b>													
339	Miscellaneous manufacturing . . . . .	2	75	25	2 721	97 008	1 951	3 796	52 434	257 356	125 753	379 940	8 665
3391	Medical equipment and supplies manufacturing . . . . .	2	24	11	1 667	64 923	1 208	2 324	33 854	198 010	76 813	269 295	6 900
33911	Medical equipment and supplies manufacturing . . . . .	2	24	11	1 667	64 923	1 208	2 324	33 854	198 010	76 813	269 295	6 900
339112	Surgical and medical instrument manufacturing . . . . .	—	5	4	929	33 230	733	1 379	19 468	136 875	37 328	170 316	4 592
339113	Surgical appliance and supplies manufacturing . . . . .	7	5	5	562	25 159	355	685	10 029	51 283	32 711	82 380	2 096
3399	Other miscellaneous manufacturing . . . . .	1	51	14	1 054	32 085	743	1 472	18 580	59 346	48 940	110 645	1 765
33999	All other miscellaneous manufacturing . . . . .	1	19	7	502	13 917	384	761	8 398	25 661	17 018	45 341	918
<b>SANTA BARBARA</b>													
31-33	Manufacturing . . . . .	4	142	24	1 523	57 040	1 052	2 031	34 439	121 398	79 479	200 682	5 102
<b>SANTA CLARA</b>													
31-33	Manufacturing . . . . .	1	601	182	28 753	1 618 511	13 638	27 128	527 163	3 946 124	2 276 722	6 182 368	388 020
322	Paper manufacturing . . . . .	—	9	5	541	25 694	420	852	17 548	68 140	103 954	171 683	D
327	Nonmetallic mineral product manufacturing . . . . .	—	10	4	523	24 194	443	1 009	19 093	73 927	38 842	111 649	D
332	Fabricated metal product manufacturing . . . . .	4	204	49	3 370	134 401	2 581	5 040	89 927	265 791	135 118	397 340	14 203
3323	Architectural and structural metals manufacturing . . . . .	6	25	9	780	32 838	567	1 185	20 621	64 219	46 170	110 890	3 737
33232	Ornamental and architectural metal products manufacturing . . . . .	7	22	7	f	D	D	D	D	D	D	D	D
332322	Sheet metal work manufacturing . . . . .	7	19	7	f	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing . . . . .	3	118	21	1 591	64 847	1 228	2 364	45 009	127 842	61 161	189 218	5 840
33271	Machine shops . . . . .	3	107	20	1 453	58 763	1 131	2 199	41 139	116 457	56 759	173 414	5 620
332710	Machine shops . . . . .	3	107	20	1 453	58 763	1 131	2 199	41 139	116 457	56 759	173 414	5 620
3328	Coating, engraving, heat treating, and allied activities . . . . .	3	38	14	651	22 437	530	970	15 015	40 685	13 454	54 330	752
33281	Coating, engraving, heat treating, and allied activities . . . . .	3	38	14	651	22 437	530	970	15 015	40 685	13 454	54 330	752
333	Machinery manufacturing . . . . .	—	52	14	6 964	483 856	1 156	1 743	55 693	608 741	1 000 061	1 564 037	D
3332	Industrial machinery manufacturing . . . . .	—	16	8	i	D	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing . . . . .	—	16	8	i	D	D	D	D	D	D	D	D
333295	Semiconductor machinery manufacturing . . . . .	—	10	6	i	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing . . . . .	1	163	77	13 165	788 620	6 354	13 274	261 893	2 535 992	863 164	3 410 726	200 207
3342	Communications equipment manufacturing . . . . .	6	19	12	1 111	72 252	372	768	15 724	136 837	120 028	266 701	6 124
3344	Semiconductor and other electronic component manufacturing . . . . .	—	89	47	7 950	474 345	4 377	9 019	191 000	2 006 001	513 322	2 503 652	182 708
33441	Semiconductor and other electronic component manufacturing . . . . .	—	89	47	7 950	474 345	4 377	9 019	191 000	2 006 001	513 322	2 503 652	182 708
334412	Bare printed circuit board manufacturing . . . . .	2	24	10	1 209	52 435	789	1 606	27 772	84 849	46 033	133 116	8 379
334413	Semiconductor and related device manufacturing . . . . .	—	36	24	5 345	366 325	2 679	5 661	133 106	1 830 942	360 406	2 173 344	161 448
334418	Printed circuit assembly (electronic assembly) manufacturing . . . . .	5	10	7	541	21 255	350	667	10 899	36 156	38 056	73 891	D
334419	Other electronic component manufacturing . . . . .	—	15	6	834	33 542	544	1 058	18 795	52 282	68 017	120 648	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing . . . . .	—	32	12	3 447	198 167	1 469	3 240	51 667	353 149	179 604	549 729	7 542
33451	Navigational, measuring, electromedical, and control instruments manufacturing . . . . .	—	32	12	3 447	198 167	1 469	3 240	51 667	353 149	179 604	549 729	7 542
334510	Electromedical and electrotherapeutic apparatus manufacturing . . . . .	—	3	2	g	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals . . . . .	—	16	7	1 622	113 471	301	553	17 316	166 248	35 842	196 946	3 808

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SANTA CLARA—Con.</b>													
335	Electrical equipment, appliance, and component manufacturing .....	—	'19	5	'1 326	'61 396	714	1 410	24 541	'167 264	'21 210	'188 886	'14 313
3359	Other electrical equipment and component manufacturing .....	—	'13	3	'1 215	'55 478	655	1 290	21 905	'156 804	'15 484	'172 720	D
33599	All other electrical equipment and component manufacturing .....	—	'8	2	'1 109	'52 144	595	1 228	20 340	'150 826	'10 510	'161 514	'13 904
335999	All other miscellaneous electrical equipment and component manufacturing ..	—	'8	2	'1 109	'52 144	595	1 228	20 340	'150 826	'10 510	'161 514	'13 904
339	Miscellaneous manufacturing .....	7	27	8	1 554	54 042	1 034	1 966	29 825	77 531	22 754	98 695	4 009
3391	Medical equipment and supplies manufacturing .....	8	11	6	1 385	48 678	913	1 749	26 431	68 201	18 378	85 101	3 460
33911	Medical equipment and supplies manufacturing .....	8	11	6	1 385	48 678	913	1 749	26 431	68 201	18 378	85 101	3 460
339116	Dental laboratories .....	9	4	1	f	D	D	D	D	D	D	D	D
<b>SANTA CLARITA</b>													
31-33	Manufacturing .....	1	240	83	9 470	375 510	6 439	13 146	196 932	899 625	632 920	1 519 680	51 862
323	Printing and related support activities .....	—	22	5	737	37 446	372	709	12 331	73 757	44 437	117 598	D
3231	Printing and related support activities .....	—	22	5	737	37 446	372	709	12 331	73 757	44 437	117 598	D
32311	Printing .....	—	20	4	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	1	13	6	680	21 373	533	1 132	12 775	77 689	100 234	176 395	6 171
326	Plastics and rubber products manufacturing .....	—	15	11	893	27 016	712	1 496	16 765	66 016	35 413	101 013	2 167
3261	Plastics product manufacturing ..	—	14	10	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	11	7	552	17 752	420	884	9 957	43 251	22 450	64 777	D
332	Fabricated metal product manufacturing .....	1	67	23	2 126	79 457	1 591	3 379	52 158	199 844	92 082	283 818	6 879
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	46	15	1 214	52 755	894	1 927	35 469	125 196	43 265	161 057	3 197
33271	Machine shops .....	2	40	11	835	37 983	633	1 352	26 926	75 929	30 033	104 875	1 712
332710	Machine shops .....	2	40	11	835	37 983	633	1 352	26 926	75 929	30 033	104 875	1 712
333	Machinery manufacturing .....	—	19	6	939	46 514	463	945	17 419	95 776	34 265	135 790	3 004
3332	Industrial machinery manufacturing .....	—	8	2	559	34 903	155	341	10 084	71 542	23 141	100 621	1 697
33329	Other industrial machinery manufacturing .....	—	6	2	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	1	22	10	1 340	40 749	1 113	1 898	25 371	88 633	72 164	161 619	D
3346	Manufacturing and reproducing magnetic and optical media.....	—	2	2	f	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media...	—	2	2	f	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	—	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	14	8	1 534	83 411	744	1 771	34 586	204 296	179 963	374 795	D
3364	Aerospace product and parts manufacturing .....	—	7	5	1 260	72 247	585	1 480	29 644	172 099	141 431	304 168	D
33641	Aerospace product and parts manufacturing .....	—	7	5	1 260	72 247	585	1 480	29 644	172 099	141 431	304 168	D
336414	Guided missile and space vehicle manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	2	26	4	580	19 572	471	940	13 053	49 873	25 492	75 727	1 741
<b>SANTA CRUZ</b>													
31-33	Manufacturing .....	4	112	23	1 833	79 663	1 076	2 082	32 941	192 309	124 019	318 569	8 981
311	Food manufacturing .....	5	15	6	558	20 132	376	775	11 963	78 521	31 886	110 080	3 762

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 <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)					Wages (\$1,000)
<b>SANTA FE SPRINGS</b>													
31-33	Manufacturing .....	2	646	244	18 682	665 726	13 726	27 656	396 153	1 626 142	1 697 315	3 325 740	98 039
311	Food manufacturing .....	5	20	11	1 079	33 096	749	1 556	17 164	117 800	189 995	308 339	2 565
3118	Bakeries and tortilla manufacturing .....	-	9	5	542	18 525	378	805	10 701	46 919	39 412	86 707	1 080
314	Textile product mills .....	-	7	5	753	22 749	638	1 505	17 059	120 269	177 275	297 783	1 473
3141	Textile furnishings mills .....	-	4	3	f	D	D	D	D	D	D	D	D
31411	Carpet and rug mills .....	-	2	2	f	D	D	D	D	D	D	D	D
314110	Carpet and rug mills .....	-	2	2	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	-	24	17	1 696	74 415	1 284	2 537	45 257	153 372	276 531	430 534	20 574
3222	Converted paper product manufacturing .....	-	24	17	1 696	74 415	1 284	2 537	45 257	153 372	276 531	430 534	20 574
32221	Paperboard container manufacturing .....	-	15	13	1 324	61 380	1 006	2 043	37 405	125 329	250 119	376 036	19 537
322211	Corrugated and solid fiber box manufacturing .....	-	13	12	g	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	1	68	22	1 349	46 251	934	1 898	26 672	108 338	57 543	163 815	8 783
3231	Printing and related support activities .....	1	68	22	1 349	46 251	934	1 898	26 672	108 338	57 543	163 815	8 783
32311	Printing .....	1	55	16	1 002	32 583	676	1 358	17 818	82 651	53 079	135 321	5 804
325	Chemical manufacturing .....	2	31	16	795	34 030	468	1 002	16 634	108 342	98 420	208 145	3 521
326	Plastics and rubber products manufacturing .....	1	38	22	1 568	46 726	1 182	2 101	29 145	112 978	105 453	218 841	8 006
3261	Plastics product manufacturing ..	1	29	17	1 129	37 005	900	1 756	24 487	93 088	84 152	177 138	7 440
32619	Other plastics product manufacturing .....	2	19	9	650	22 603	504	1 051	15 081	61 602	56 198	117 607	3 892
326199	All other plastics product manufacturing .....	2	19	9	650	22 603	504	1 051	15 081	61 602	56 198	117 607	3 892
331	Primary metal manufacturing .....	1	14	8	848	31 957	646	1 359	19 975	112 057	142 116	249 767	5 933
332	Fabricated metal product manufacturing .....	3	'186	'56	'4 084	'154 079	'3 014	'6 072	'92 084	'326 368	'186 221	'513 407	'22 272
3323	Architectural and structural metals manufacturing .....	5	18	8	584	23 997	400	828	13 842	44 264	29 970	74 030	1 120
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	5	'85	'16	'1 237	'46 864	'988	'1 858	'32 718	'95 890	'46 432	'144 360	10 199
33271	Machine shops .....	4	69	8	653	22 810	532	878	16 524	49 585	12 350	63 832	6 683
332710	Machine shops .....	4	69	8	653	22 810	532	878	16 524	49 585	12 350	63 832	6 683
33272	Turned product and screw, nut, and bolt manufacturing .....	'5	'16	'8	'584	'24 054	'456	'980	'16 194	'46 305	'34 082	'80 528	3 516
3328	Coating, engraving, heat treating, and allied activities .....	3	35	16	766	22 686	618	1 194	14 402	52 359	19 617	71 890	2 078
33281	Coating, engraving, heat treating, and allied activities ..	3	35	16	766	22 686	618	1 194	14 402	52 359	19 617	71 890	2 078
333	Machinery manufacturing .....	2	61	19	981	39 330	691	1 338	22 404	87 521	59 701	147 451	4 975
334	Computer and electronic product manufacturing .....	4	15	8	539	24 000	249	504	7 935	54 889	38 464	91 963	1 757
335	Electrical equipment, appliance, and component manufacturing .....	1	20	8	657	23 915	507	1 113	16 401	40 187	55 376	100 405	4 036
336	Transportation equipment manufacturing .....	4	25	14	1 377	53 163	1 034	2 087	32 639	120 262	112 236	230 892	D
3363	Motor vehicle parts manufacturing .....	4	14	8	811	26 262	651	1 318	17 208	63 318	68 066	128 933	D
33639	Other motor vehicle parts manufacturing .....	4	6	4	632	20 050	524	1 097	13 807	52 927	59 132	109 738	D
336399	All other motor vehicle parts manufacturing .....	4	6	4	632	20 050	524	1 097	13 807	52 927	59 132	109 738	D
337	Furniture and related product manufacturing .....	'5	'39	'11	'867	'21 657	'735	'1 519	'15 338	'45 471	'37 408	'83 432	'1 013
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	'6	'24	'6	'504	'12 788	'412	'828	'8 946	'21 736	'18 716	'40 816	'628
339	Miscellaneous manufacturing .....	'3	'33	'9	'546	'15 460	'400	'818	'8 863	'35 760	'32 484	'68 672	1 625

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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SANTA MARIA</b>													
31-33	Manufacturing .....	-	80	22	2 762	86 466	1 928	3 293	46 496	305 432	204 265	512 942	35 619
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	525	12 236	463	906	9 769	64 074	63 657	127 731	1 127
31141	Frozen food manufacturing ....	-	3	3	525	12 236	463	906	9 769	64 074	63 657	127 731	1 127
311411	Frozen fruit, juice, and vegetable manufacturing ...	-	3	3	525	12 236	463	906	9 769	64 074	63 657	127 731	1 127
325	Chemical manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, and toilet preparation manufacturing .	-	1	1	f	D	D	D	D	D	D	D	D
32561	Soap and cleaning compound manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
325611	Soap and other detergent manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	-	8	4	528	15 239	418	781	9 320	49 166	36 207	87 392	1 639
<b>SANTA MONICA</b>													
31-33	Manufacturing .....	2	111	20	2 617	115 529	1 582	2 871	46 567	251 684	146 982	398 172	19 314
334	Computer and electronic product manufacturing .....	-	11	5	1 001	55 104	406	732	10 776	114 031	39 873	160 236	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	3	1	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	-	21	4	715	28 064	565	1 003	18 540	55 380	39 123	88 359	D
3399	Other miscellaneous manufacturing .....	-	11	3	623	24 514	499	872	15 912	48 435	37 293	79 774	D
33994	Office supplies (except paper) manufacturing .....	-	3	1	f	D	D	D	D	D	D	D	D
339941	Pen and mechanical pencil manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>SANTA PAULA</b>													
31-33	Manufacturing .....	-	25	5	513	15 908	418	844	10 283	62 236	75 788	137 629	D
<b>SANTA ROSA</b>													
31-33	Manufacturing .....	-	201	44	10 653	534 455	5 824	11 979	259 574	1 038 604	535 051	1 635 266	35 435
311	Food manufacturing .....	-	20	5	906	25 596	547	1 073	12 320	64 525	50 771	115 560	6 249
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	-	2	1	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	-	12	5	1 164	57 593	650	1 366	24 578	147 426	89 299	246 549	2 718
3333	Commercial and service industry machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33331	Commercial and service industry machinery manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
333314	Optical instrument and lens manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	-	13	6	h	D	D	D	D	D	D	D	2 035
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	-	6	2	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	-	6	2	h	D	D	D	D	D	D	D	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals.....	-	1	1	h	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SANTA ROSA—Con.</b>													
339	Miscellaneous manufacturing .....	—	31	4	1 892	90 254	871	1 943	34 122	119 185	17 161	136 943	D
3391	Medical equipment and supplies manufacturing .....	—	19	2	g	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	—	19	2	g	D	D	D	D	D	D	D	D
339113	Surgical appliance and supplies manufacturing .....	—	2	1	g	D	D	D	D	D	D	D	D
<b>SANTEE</b>													
31-33	Manufacturing .....	3	131	24	1 877	67 595	1 307	2 359	41 688	163 334	114 577	276 722	9 592
332	Fabricated metal product manufacturing .....	2	42	9	577	24 048	390	764	13 811	54 850	25 215	80 186	2 396
<b>SCOTTS VALLEY</b>													
31-33	Manufacturing .....	3	40	11	631	32 473	308	626	10 274	69 335	53 368	123 645	D
<b>SEAL BEACH</b>													
31-33	Manufacturing .....	—	8	2	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	2	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	2	1	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>SIGNAL HILL</b>													
31-33	Manufacturing .....	2	103	17	1 247	51 791	805	1 537	23 895	117 647	90 923	206 109	3 663
<b>SIMI VALLEY</b>													
31-33	Manufacturing .....	1	151	45	4 285	168 330	2 804	5 267	80 795	555 360	337 998	897 334	19 664
326	Plastics and rubber products manufacturing .....	—	5	5	622	19 288	467	693	14 029	64 169	40 053	103 834	2 686
3261	Plastics product manufacturing ..	—	5	5	622	19 288	467	693	14 029	64 169	40 053	103 834	2 686
334	Computer and electronic product manufacturing .....	—	32	11	1 324	66 189	711	1 428	22 840	269 601	172 513	445 259	8 296
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	10	5	736	40 549	363	750	12 190	219 386	128 223	347 558	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	10	5	736	40 549	363	750	12 190	219 386	128 223	347 558	D
<b>SOUTH EL MONTE</b>													
31-33	Manufacturing .....	2	599	121	9 508	234 048	7 738	14 051	152 232	506 810	344 327	850 186	18 985
315	Apparel manufacturing .....	2	285	59	4 337	65 847	3 932	6 569	52 238	122 133	112 431	236 495	2 213
3152	Cut and sew apparel manufacturing .....	2	277	58	4 267	64 328	3 869	6 428	50 968	120 412	110 582	232 934	D
31521	Cut and sew apparel contractors .....	3	240	48	3 293	43 631	3 042	4 834	36 595	71 121	30 152	101 747	1 429
315212	Women's, girls', and infants' cut and sew apparel contractors .....	4	223	43	3 060	40 818	2 847	4 555	34 383	64 903	29 628	95 005	1 354
31523	Women's and girls' cut and sew apparel manufacturing .....	1	28	8	847	18 505	716	1 419	12 818	46 947	76 786	123 754	736
325	Chemical manufacturing .....	—	11	3	639	21 879	400	841	10 232	80 209	22 372	100 541	1 864
332	Fabricated metal product manufacturing .....	2	100	18	1 395	56 104	983	1 957	33 421	105 858	62 550	166 920	6 125
333	Machinery manufacturing .....	1	25	5	573	20 197	419	883	12 579	49 970	43 936	94 237	1 668

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SOUTH GATE</b>													
31-33	Manufacturing .....	1	168	60	7 291	237 176	5 831	11 976	162 396	656 230	747 663	1 401 049	33 989
311	Food manufacturing .....	-	17	6	833	30 766	507	978	15 704	88 149	152 767	240 774	5 395
315	Apparel manufacturing .....	-	17	4	1 782	38 269	1 602	3 396	33 045	83 011	59 144	142 088	D
3152	Cut and sew apparel manufacturing .....	-	15	3	g	D	D	D	D	D	D	D	D
31522	Men's and boys' cut and sew apparel manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
315224	Men's and boys' cut and sew trouser, slack, and jean manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
331	Primary metal manufacturing .....	1	13	8	591	18 433	499	1 140	12 757	33 780	37 313	70 277	2 453
3315	Foundries .....	1	11	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	-	42	10	1 148	38 791	903	1 770	26 149	91 686	85 387	181 326	7 821
337	Furniture and related product manufacturing .....	-	11	5	734	26 901	644	1 325	22 315	108 561	74 283	182 575	1 803
<b>SOUTH SAN FRANCISCO</b>													
31-33	Manufacturing .....	1	152	62	11 001	615 649	4 402	8 236	157 886	3 015 196	569 182	3 616 036	D
311	Food manufacturing .....	5	28	18	2 165	72 523	1 487	2 824	41 673	308 209	213 097	522 129	D
3113	Sugar and confectionery product manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
31133	Confectionery manufacturing from purchased chocolate .....	-	1	1	f	D	D	D	D	D	D	D	D
311330	Confectionery manufacturing from purchased chocolate .....	-	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries and tortilla manufacturing .....	9	11	7	871	26 268	452	829	12 598	150 645	54 787	205 709	D
31181	Bread and bakery product manufacturing .....	9	10	6	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .....	9	4	3	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	1	30	11	635	28 848	389	672	14 664	48 259	50 477	98 278	D
3231	Printing and related support activities .....	1	30	11	635	28 848	389	672	14 664	48 259	50 477	98 278	D
32311	Printing .....	1	28	9	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	-	14	8	i	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	-	6	4	i	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	-	6	4	i	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	-	3	2	i	D	D	D	D	D	D	D	D
<b>STANTON</b>													
31-33	Manufacturing .....	3	68	11	929	31 592	748	1 357	21 206	63 384	37 490	100 558	3 015
<b>STOCKTON</b>													
31-33	Manufacturing .....	1	210	73	7 640	269 604	5 868	11 662	179 138	894 978	766 531	1 645 575	45 230
311	Food manufacturing .....	1	33	15	2 798	90 142	2 255	4 218	62 126	440 652	244 674	674 693	18 344
3114	Fruit and vegetable preserving and specialty food manufacturing .....	4	6	5	1 410	41 214	1 237	2 209	32 129	49 235	81 224	130 600	9 277
31142	Fruit and vegetable canning, pickling, and drying .....	4	6	5	1 410	41 214	1 237	2 209	32 129	49 235	81 224	130 600	9 277
311421	Fruit and vegetable canning .....	4	6	5	1 410	41 214	1 237	2 209	32 129	49 235	81 224	130 600	9 277
3119	Other food manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
31191	Snack food manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
311911	Roasted nuts and peanut butter manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	1	14	7	860	31 302	616	1 315	19 023	57 267	103 019	156 299	2 281
3219	Other wood product manufacturing .....	1	14	7	860	31 302	616	1 315	19 023	57 267	103 019	156 299	2 281
32191	Millwork .....	1	8	5	f	D	D	D	D	D	D	D	D
322	Paper manufacturing .....	1	7	7	618	24 891	507	1 061	17 279	77 035	130 658	205 181	D
332	Fabricated metal product manufacturing .....	1	31	11	1 084	42 569	796	1 655	27 443	94 204	100 431	195 849	4 823
3323	Architectural and structural metals manufacturing .....	2	11	6	670	25 369	474	985	14 695	54 070	44 593	99 502	1 656

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SUNNYVALE</b>													
31-33	Manufacturing .....	1	'321	'142	'31 425	'2 198 597	10 230	19 151	451 827	'4 519 894	'3 565 038	'7 947 715	'1 062 077
325	Chemical manufacturing .....	1	12	5	1 590	76 084	918	1 465	34 453	123 533	69 973	193 891	65 281
3254	Pharmaceutical and medicine manufacturing .....	-	6	4	1 437	70 051	821	1 261	30 277	100 523	57 439	158 337	D
32541	Pharmaceutical and medicine manufacturing .....	-	6	4	1 437	70 051	821	1 261	30 277	100 523	57 439	158 337	D
325412	Pharmaceutical preparation manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	53	15	g	D	D	D	D	D	D	D	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	32	8	f	D	D	D	D	D	D	D	D
333	Machinery manufacturing .....	1	25	10	1 780	121 190	563	1 137	29 128	276 836	128 522	402 441	D
3332	Industrial machinery manufacturing .....	2	16	8	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery manufacturing .....	2	15	8	f	D	D	D	D	D	D	D	D
333295	Semiconductor machinery manufacturing .....	3	11	7	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, and power transmission equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, and power transmission equipment manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
333611	Turbine and turbine generator set units manufacturing .....	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	2	134	78	13 331	941 961	4 848	8 779	213 545	1 943 545	1 018 640	2 876 560	793 674
3342	Communications equipment manufacturing .....	6	17	13	1 698	104 764	642	1 249	24 186	147 135	131 066	278 514	8 823
33421	Telephone apparatus manufacturing .....	2	6	5	f	D	D	D	D	D	D	D	4 039
334210	Telephone apparatus manufacturing .....	2	6	5	f	D	D	D	D	D	D	D	4 039
33422	Radio and television broadcasting and wireless communications equipment manufacturing .....	8	8	6	803	52 046	393	796	15 015	73 981	73 432	146 757	D
334220	Radio and television broadcasting and wireless communications equipment manufacturing .....	8	8	6	803	52 046	393	796	15 015	73 981	73 432	146 757	D
3344	Semiconductor and other electronic component manufacturing .....	1	62	36	6 412	463 875	2 784	5 123	138 310	913 754	523 537	1 355 914	D
33441	Semiconductor and other electronic component manufacturing .....	1	62	36	6 412	463 875	2 784	5 123	138 310	913 754	523 537	1 355 914	D
334413	Semiconductor and related device manufacturing .....	-	37	21	5 262	410 768	2 108	3 797	111 529	805 792	446 618	1 169 995	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	3	29	19	4 545	332 913	1 170	1 897	41 024	823 502	284 439	1 101 963	40 068
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	3	29	19	4 545	332 913	1 170	1 897	41 024	823 502	284 439	1 101 963	40 068
334510	Electromedical and electrotherapeutic apparatus manufacturing .....	7	5	5	1 469	107 506	491	665	14 350	296 071	62 760	358 783	D
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing .....	9	3	2	f	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument manufacturing .....	-	6	5	1 267	100 049	436	812	16 098	231 945	76 979	309 278	5 633
334519	Other measuring and controlling device manufacturing .....	-	3	3	849	52 495	70	95	3 011	179 642	106 088	279 630	D
335	Electrical equipment, appliance, and component manufacturing .....	'6	'11	'5	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	2	1	i	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	1	1	i	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	1	1	i	D	D	D	D	D	D	D	D
336414	Guided missile and space vehicle manufacturing .....	-	1	1	i	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 <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>SUNNYVALE—Con.</b>													
339	Miscellaneous manufacturing . . . . .	3	39	17	2 960	138 216	585	1 227	21 360	344 454	82 683	418 634	53 390
3391	Medical equipment and supplies manufacturing . . . . .	3	24	12	2 626	122 848	430	922	16 286	314 192	69 944	376 197	50 601
33911	Medical equipment and supplies manufacturing . . . . .	3	24	12	2 626	122 848	430	922	16 286	314 192	69 944	376 197	50 601
339112	Surgical and medical instrument manufacturing . . . . .	3	11	9	2 400	110 754	349	752	13 246	298 099	63 917	355 003	48 037
<b>TEMECULA</b>													
31-33	Manufacturing . . . . .	—	148	36	6 784	260 545	4 134	8 913	135 456	1 512 701	555 026	2 083 670	41 159
326	Plastics and rubber products manufacturing . . . . .	—	8	4	f	D	D	D	D	D	D	D	3 103
3261	Plastics product manufacturing . . . . .	—	7	4	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing . . . . .	—	6	4	925	21 941	461	1 129	12 243	78 199	81 656	163 492	D
326199	All other plastics product manufacturing . . . . .	—	6	4	925	21 941	461	1 129	12 243	78 199	81 656	163 492	D
334	Computer and electronic product manufacturing . . . . .	—	9	6	1 159	65 666	662	1 460	32 917	5 961	109 587	118 019	D
3344	Semiconductor and other electronic component manufacturing . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing . . . . .	—	21	5	2 896	107 773	1 666	3 656	49 670	1 272 285	216 208	1 497 238	23 381
3391	Medical equipment and supplies manufacturing . . . . .	—	8	3	h	D	D	D	D	D	D	D	22 726
33911	Medical equipment and supplies manufacturing . . . . .	—	8	3	h	D	D	D	D	D	D	D	22 726
339112	Surgical and medical instrument manufacturing . . . . .	—	3	1	f	D	D	D	D	D	D	D	D
339113	Surgical appliance and supplies manufacturing . . . . .	—	3	2	g	D	D	D	D	D	D	D	D
<b>THOUSAND OAKS</b>													
31-33	Manufacturing . . . . .	2	170	41	4 227	174 048	2 680	5 219	78 122	873 261	279 963	1 157 833	21 814
333	Machinery manufacturing . . . . .	8	16	4	591	25 167	326	660	11 307	28 136	22 952	53 259	761
334	Computer and electronic product manufacturing . . . . .	1	36	15	2 086	99 887	1 233	2 413	40 709	726 968	186 217	915 896	17 437
3344	Semiconductor and other electronic component manufacturing . . . . .	—	10	5	g	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing . . . . .	—	10	5	g	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing . . . . .	—	7	3	f	D	D	D	D	D	D	D	D
<b>TORRANCE</b>													
31-33	Manufacturing . . . . .	—	323	123	16 691	730 224	11 117	23 002	423 901	2 550 683	2 498 395	5 073 714	127 994
324	Petroleum and coal products manufacturing . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
325	Chemical manufacturing . . . . .	—	19	11	542	30 502	291	641	14 515	78 986	213 274	292 473	D
326	Plastics and rubber products manufacturing . . . . .	—	15	7	1 285	29 597	1 112	1 965	19 532	125 125	92 619	215 608	D
3261	Plastics product manufacturing . . . . .	—	13	6	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing . . . . .	—	10	5	1 092	24 070	952	1 713	15 923	111 699	64 380	173 433	D
326199	All other plastics product manufacturing . . . . .	—	10	5	1 092	24 070	952	1 713	15 923	111 699	64 380	173 433	D
332	Fabricated metal product manufacturing . . . . .	—	56	23	1 574	65 667	1 176	2 565	39 785	188 033	140 748	326 040	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing . . . . .	—	30	10	773	33 656	578	1 316	20 517	68 118	24 010	91 648	D
333	Machinery manufacturing . . . . .	1	31	16	1 308	65 549	818	1 718	36 122	112 368	127 284	254 027	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>TORRANCE—Con.</b>													
334	Computer and electronic product manufacturing .....	1	45	21	2 557	109 480	1 573	3 194	45 302	276 999	152 077	429 661	D
3344	Semiconductor and other electronic component manufacturing .....	1	14	7	655	26 259	359	811	10 015	55 343	24 141	78 983	D
33441	Semiconductor and other electronic component manufacturing .....	1	14	7	655	26 259	359	811	10 015	55 343	24 141	78 983	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	4	13	6	539	24 153	311	635	9 549	41 816	35 541	77 892	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	4	13	6	539	24 153	311	635	9 549	41 816	35 541	77 892	D
3346	Manufacturing and reproducing magnetic and optical media .....	—	3	2	f	D	D	D	D	D	D	D	D
33461	Manufacturing and reproducing magnetic and optical media .....	—	3	2	f	D	D	D	D	D	D	D	D
334612	Prerecorded compact disc (except software), tape, and record reproducing .....	—	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	2	11	6	959	29 631	567	1 157	14 972	68 901	55 236	125 041	D
336	Transportation equipment manufacturing .....	—	19	10	4 725	241 907	3 158	6 914	166 158	706 542	271 747	980 837	24 031
3363	Motor vehicle parts manufacturing .....	2	10	4	1 400	46 485	1 187	2 529	29 469	71 381	141 291	211 576	D
33631	Motor vehicle gasoline engine and engine parts manufacturing .....	7	6	2	f	D	D	D	D	D	D	D	D
336312	Gasoline engine and engine parts manufacturing .....	7	6	2	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical and electronic equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical and electronic equipment manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	—	6	5	3 271	193 030	1 926	4 303	134 811	628 118	120 631	752 387	D
33641	Aerospace product and parts manufacturing .....	—	6	5	3 271	193 030	1 926	4 303	134 811	628 118	120 631	752 387	D
336411	Aircraft manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
336413	Other aircraft parts and auxiliary equipment manufacturing .....	—	3	3	g	D	D	D	D	D	D	D	3 331
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	—	8	3	856	22 306	580	1 092	13 927	45 825	35 176	78 793	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	—	6	3	f	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	—	4	2	f	D	D	D	D	D	D	D	D
337127	Institutional furniture manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous manufacturing .....	2	32	9	857	36 699	544	1 039	18 056	62 385	31 102	96 177	D
3399	Other miscellaneous manufacturing .....	—	14	5	517	24 489	323	584	11 857	34 935	20 449	57 942	D
<b>TRACY</b>													
31-33	Manufacturing .....	1	58	26	2 910	109 793	2 324	4 751	76 354	316 322	353 782	670 707	18 011
311	Food manufacturing .....	—	6	3	637	19 838	479	1 136	10 949	55 803	103 078	163 270	D
327	Nonmetallic mineral product manufacturing .....	1	6	4	617	29 086	528	1 165	23 282	123 298	76 136	200 399	D
<b>TULARE</b>													
31-33	Manufacturing .....	—	33	12	1 944	75 646	1 363	2 784	47 081	294 044	1 179 187	1 459 022	20 217
311	Food manufacturing .....	—	12	6	1 561	65 954	1 115	2 295	41 641	273 773	1 142 661	1 402 406	D
3115	Dairy product manufacturing .....	—	5	5	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	—	4	4	g	D	D	D	D	D	D	D	D
311511	Fluid milk manufacturing .....	—	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.**

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NAICS code	Geographic area and industry	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>TURLOCK</b>													
31-33	Manufacturing .....	2	72	26	3 922	114 553	3 197	6 960	80 214	416 625	598 055	1 007 580	15 141
311	Food manufacturing .....	1	18	13	2 817	76 297	2 373	5 262	54 243	324 748	495 774	813 299	10 687
3115	Dairy product manufacturing .....	2	8	6	661	24 341	579	1 259	19 071	115 649	372 492	483 864	4 810
3116	Animal slaughtering and processing .....	-	4	3	g	D	D	D	D	D	D	D	5 415
31161	Animal slaughtering and processing .....	-	4	3	g	D	D	D	D	D	D	D	5 415
311615	Poultry processing .....	-	2	2	g	D	D	D	D	D	D	D	D
<b>TUSTIN</b>													
31-33	Manufacturing .....	3	135	35	5 467	257 058	2 622	5 115	77 412	528 131	647 651	1 189 247	23 983
333	Machinery manufacturing .....	-	10	2	f	D	D	D	D	D	D	D	946
3333	Commercial and service industry machinery manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33331	Commercial and service industry machinery manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
333315	Photographic and photocopying equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer and electronic product manufacturing .....	6	32	14	2 666	147 608	976	1 727	32 502	274 095	320 775	608 589	D
3342	Communications equipment manufacturing .....	9	2	1	f	D	D	D	D	D	D	D	D
33421	Telephone apparatus manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
334210	Telephone apparatus manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor and other electronic component manufacturing .....	4	16	8	901	36 187	575	958	13 825	72 911	96 453	166 299	3 657
33441	Semiconductor and other electronic component manufacturing .....	4	16	8	901	36 187	575	958	13 825	72 911	96 453	166 299	3 657
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	2	7	3	f	D	D	D	D	D	D	D	2 221
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	2	7	3	f	D	D	D	D	D	D	D	2 221
<b>UNION CITY</b>													
31-33	Manufacturing .....	1	83	36	3 928	163 545	2 766	5 500	87 095	528 955	398 939	940 125	40 957
311	Food manufacturing .....	1	11	6	1 224	45 560	934	1 927	29 925	225 557	143 743	370 764	18 098
3113	Sugar and confectionery product manufacturing .....	3	3	3	f	D	D	D	D	D	D	D	D
<b>UPLAND</b>													
31-33	Manufacturing .....	2	105	19	1 371	45 593	1 048	2 030	28 577	229 085	102 912	337 207	4 711
<b>VACAVILLE</b>													
31-33	Manufacturing .....	-	61	17	2 932	135 977	2 249	4 033	88 595	293 320	285 980	589 905	38 656
325	Chemical manufacturing .....	-	4	3	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical and medicine manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical and medicine manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation manufacturing .....	-	3	3	g	D	D	D	D	D	D	D	D
<b>VALLEJO</b>													
31-33	Manufacturing .....	4	46	12	817	29 153	537	1 085	16 745	100 683	127 462	222 766	4 754

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>VERNON</b>													
31-33	Manufacturing .....	1	375	217	24 821	729 546	18 637	36 384	458 189	2 326 848	2 617 436	5 019 551	115 826
311	Food manufacturing .....	1	43	29	5 608	161 850	4 579	9 254	114 688	582 681	827 775	1 456 936	40 145
3116	Animal slaughtering and processing .....	1	16	11	2 581	68 573	2 234	4 553	48 654	212 501	401 578	613 559	10 976
31161	Animal slaughtering and processing .....	1	16	11	2 581	68 573	2 234	4 553	48 654	212 501	401 578	613 559	10 976
311611	Animal (except poultry) slaughtering .....	-	6	3	g	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses .....	2	8	6	769	17 972	668	1 139	11 467	82 351	117 739	199 136	6 335
3118	Bakeries and tortilla manufacturing .....	-	5	5	g	D	D	D	D	D	D	D	D
31181	Bread and bakery product manufacturing .....	-	3	3	753	15 764	504	864	12 298	41 370	43 610	84 853	1 773
311812	Commercial bakeries .....	-	3	3	753	15 764	504	864	12 298	41 370	43 610	84 853	1 773
3119	Other food manufacturing .....	1	8	4	504	18 661	340	692	9 670	64 976	60 578	126 341	6 917
313	Textile mills .....	2	42	22	2 013	51 885	1 737	3 343	38 246	117 341	191 237	308 267	4 864
3132	Fabric mills .....	2	19	8	621	17 238	489	1 015	11 627	36 893	93 534	132 539	2 230
3133	Textile and fabric finishing and fabric coating mills .....	1	18	11	g	D	D	D	D	D	D	D	D
31331	Textile and fabric finishing mills .....	1	16	9	1 192	29 087	1 074	1 988	22 514	69 023	72 752	139 782	2 539
313311	Broadwoven fabric finishing mills .....	1	10	6	569	11 830	504	724	8 222	31 864	37 376	67 230	735
313312	Textile and fabric finishing (except broadwoven fabric) mills .....	2	6	3	623	17 257	570	1 264	14 292	37 159	35 376	72 552	1 804
314	Textile product mills .....	-	15	12	1 378	28 849	1 154	2 332	19 116	80 328	60 554	140 773	1 314
3141	Textile furnishings mills .....	-	7	7	1 057	21 647	884	1 764	14 098	69 130	52 521	121 612	346
31412	Curtain and linen mills .....	-	7	7	1 057	21 647	884	1 764	14 098	69 130	52 521	121 612	346
314129	Other household textile product mills .....	-	6	6	f	D	D	D	D	D	D	D	D
315	Apparel manufacturing .....	1	99	53	5 849	135 887	3 846	7 150	70 617	318 074	340 163	666 469	12 540
3152	Cut and sew apparel manufacturing .....	-	88	45	5 291	122 248	3 396	6 269	60 599	300 342	308 604	617 316	12 290
31521	Cut and sew apparel contractors .....	4	54	24	2 333	34 899	2 136	3 843	29 681	67 774	9 431	72 293	4 254
315211	Men's and boys' cut and sew apparel contractors .....	2	10	6	555	9 097	480	901	7 553	17 452	1 749	19 039	D
315212	Women's, girls', and infants' cut and sew apparel contractors .....	4	44	18	1 778	25 802	1 656	2 942	22 128	50 322	7 682	53 254	D
31523	Women's and girls' cut and sew apparel manufacturing .....	-	26	17	2 742	81 489	1 115	2 107	27 888	215 296	279 646	509 079	7 655
315231	Women's and girls' cut and sew lingerie, loungewear, and nightwear manufacturing .....	-	4	4	g	D	D	D	D	D	D	D	D
315232	Women's and girls' cut and sew blouse and shirt manufacturing .....	-	7	6	590	22 253	385	734	9 577	76 791	135 769	219 577	2 056
322	Paper manufacturing .....	1	16	14	1 109	45 692	814	1 727	27 105	117 670	178 370	294 943	4 317
3222	Converted paper product manufacturing .....	1	15	13	g	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	-	11	9	878	37 880	630	1 387	22 520	97 026	135 394	231 320	3 568
323	Printing and related support activities .....	1	18	13	1 463	61 753	1 057	2 239	37 043	94 987	115 122	210 755	4 315
3231	Printing and related support activities .....	1	18	13	1 463	61 753	1 057	2 239	37 043	94 987	115 122	210 755	4 315
32311	Printing .....	1	15	10	1 278	55 765	905	1 907	32 798	83 301	112 973	196 965	D
323113	Commercial screen printing ..	-	7	5	711	32 193	481	957	18 204	37 135	74 075	112 107	865
325	Chemical manufacturing .....	2	15	7	685	21 039	517	1 211	13 497	129 563	81 222	214 878	4 165
326	Plastics and rubber products manufacturing .....	1	15	9	793	25 174	576	1 187	15 825	68 850	62 805	131 400	9 599
3261	Plastics product manufacturing ..	1	14	9	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	11	6	578	21 480	489	904	16 296	65 110	61 279	128 294	8 095
331	Primary metal manufacturing .....	1	11	8	792	35 557	609	1 275	24 196	90 141	167 644	260 765	6 149
332	Fabricated metal product manufacturing .....	2	27	12	759	26 348	551	1 110	16 709	64 272	63 423	127 055	4 009
335	Electrical equipment, appliance, and component manufacturing .....	-	5	5	666	22 158	420	888	9 402	57 081	52 462	116 142	1 626

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>VERNON—Con.</b>													
337	Furniture and related product manufacturing .....	1	21	11	1 398	32 367	1 206	1 671	24 143	74 863	51 085	127 689	2 600
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	1	19	10	g	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	1	16	10	1 294	30 293	1 116	1 465	22 714	70 797	42 831	115 397	2 572
337121	Upholstered household furniture manufacturing .....	4	8	5	507	11 002	446	720	8 484	18 863	12 503	31 746	351
<b>VICTORVILLE</b>													
31-33	Manufacturing .....	4	31	10	1 002	36 511	797	1 622	26 563	195 327	125 676	322 056	6 784
327	Nonmetallic mineral product manufacturing .....	5	6	5	722	29 733	570	1 246	22 429	137 310	99 238	236 836	D
<b>VISALIA</b>													
31-33	Manufacturing .....	2	87	28	3 320	105 790	2 519	4 727	67 974	357 776	322 136	683 857	19 830
311	Food manufacturing .....	1	10	6	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	—	10	5	811	22 116	656	1 037	15 911	77 257	17 226	95 290	D
3231	Printing and related support activities .....	—	10	5	811	22 116	656	1 037	15 911	77 257	17 226	95 290	D
32311	Printing .....	—	10	5	811	22 116	656	1 037	15 911	77 257	17 226	95 290	D
323117	Books printing .....	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	17	6	644	22 796	457	905	13 069	48 186	46 013	94 741	1 482
3323	Architectural and structural metals manufacturing .....	2	7	4	f	D	D	D	D	D	D	D	D
<b>VISTA</b>													
31-33	Manufacturing .....	1	190	83	9 543	313 708	6 456	11 019	151 393	978 203	714 304	1 698 443	38 081
323	Printing and related support activities .....	—	13	6	1 004	22 263	807	730	15 288	59 763	36 703	96 242	3 202
3231	Printing and related support activities .....	—	13	6	1 004	22 263	807	730	15 288	59 763	36 703	96 242	3 202
32311	Printing .....	—	13	6	1 004	22 263	807	730	15 288	59 763	36 703	96 242	3 202
323110	Commercial lithographic printing .....	—	8	5	786	19 317	697	632	13 863	53 591	28 998	82 437	3 103
326	Plastics and rubber products manufacturing .....	—	16	8	1 991	47 850	1 596	2 566	26 688	156 560	131 059	288 557	6 461
3261	Plastics product manufacturing ..	—	14	8	g	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	10	7	1 913	45 800	1 543	2 467	25 614	151 334	125 968	278 004	5 611
326191	Plastics plumbing fixture manufacturing .....	—	2	2	g	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	29	13	891	35 294	521	989	15 624	61 119	33 309	94 367	3 870
333	Machinery manufacturing .....	—	16	8	777	29 451	493	1 013	11 353	131 340	90 147	219 600	8 569
334	Computer and electronic product manufacturing .....	1	18	9	629	24 988	366	666	8 762	54 450	57 025	110 988	2 516
339	Miscellaneous manufacturing .....	2	24	9	1 558	61 001	831	1 461	24 682	250 399	113 975	365 013	4 930
3391	Medical equipment and supplies manufacturing .....	—	10	5	1 159	46 814	645	1 149	21 142	204 903	61 656	266 829	3 420
33911	Medical equipment and supplies manufacturing .....	—	10	5	1 159	46 814	645	1 149	21 142	204 903	61 656	266 829	3 420
339113	Surgical appliance and supplies manufacturing .....	—	4	3	1 012	41 720	539	958	18 566	192 497	56 063	249 135	2 837
<b>WALNUT</b>													
31-33	Manufacturing .....	2	38	8	552	21 440	401	831	13 683	44 139	25 931	68 829	1 132
<b>WALNUT CREEK</b>													
31-33	Manufacturing .....	—	38	8	1 112	58 101	455	899	17 805	253 590	108 552	367 001	D
334	Computer and electronic product manufacturing .....	—	6	4	794	47 584	233	493	10 894	231 401	91 449	327 590	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	5	3	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>WATSONVILLE</b>													
31-33	Manufacturing .....	1	83	26	2 801	87 083	2 191	3 701	56 333	242 490	138 901	385 826	9 647
311	Food manufacturing .....	-	16	8	1 253	29 947	1 143	2 029	26 045	120 684	55 138	175 635	3 874
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	6	5	g	D	D	D	D	D	D	D	D
31141	Frozen food manufacturing ....	1	5	4	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	1	5	4	f	D	D	D	D	D	D	D	D
<b>WESTLAKE VILLAGE</b>													
31-33	Manufacturing .....	2	39	10	1 151	46 972	676	1 027	16 720	151 934	65 768	218 150	2 330
334	Computer and electronic product manufacturing .....	3	11	6	545	29 568	249	539	8 127	87 117	25 634	114 015	1 352
<b>WESTMINSTER</b>													
31-33	Manufacturing .....	2	106	8	1 149	26 257	914	1 521	17 663	53 569	45 420	100 136	3 811
<b>WEST SACRAMENTO</b>													
31-33	Manufacturing .....	-	65	16	2 483	93 728	1 460	2 789	46 636	292 929	265 456	558 107	10 238
<b>WHITTIER</b>													
31-33	Manufacturing .....	2	80	20	1 646	55 880	1 285	2 506	35 483	137 700	103 619	241 162	3 398
337	Furniture and related product manufacturing .....	-	6	3	512	16 542	417	846	11 475	46 901	42 403	88 779	758
<b>WINDSOR</b>													
31-33	Manufacturing .....	-	20	5	545	18 929	388	703	10 026	37 737	39 950	77 644	1 509
<b>WOODLAND</b>													
31-33	Manufacturing .....	1	65	27	2 357	88 206	1 776	3 552	55 386	226 420	317 501	534 687	13 039
321	Wood product manufacturing .....	1	10	6	821	25 982	698	1 409	18 891	51 378	58 798	109 983	D
3219	Other wood product manufacturing .....	-	7	4	f	D	D	D	D	D	D	D	D
32199	All other wood product manufacturing .....	-	4	3	f	D	D	D	D	D	D	D	D
321991	Manufactured home (mobile home) manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
<b>YORBA LINDA</b>													
31-33	Manufacturing .....	1	68	17	2 081	100 561	1 051	2 140	34 044	246 338	167 391	411 102	10 966
336	Transportation equipment manufacturing .....	3	4	4	514	20 360	318	676	10 125	44 868	43 335	87 938	2 489
339	Miscellaneous manufacturing .....	-	6	2	f	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	-	4	2	f	D	D	D	D	D	D	D	D
<b>YUBA CITY</b>													
31-33	Manufacturing .....	-	40	10	g	D	D	D	D	D	D	D	D
311	Food manufacturing .....	-	5	3	f	D	D	D	D	D	D	D	D
3114	Fruit and vegetable preserving and specialty food manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	-	2	2	f	D	D	D	D	D	D	D	D
311423	Dried and dehydrated food manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF ALAMEDA COUNTY</b>													
31-33	Manufacturing .....	1	73	13	1 014	35 851	793	1 510	24 871	120 015	127 107	248 542	9 090
<b>BALANCE OF BUTTE COUNTY</b>													
31-33	Manufacturing .....	2	88	13	1 094	33 461	775	1 451	19 877	77 014	86 507	161 028	5 915
<b>BALANCE OF COLUSA COUNTY</b>													
31-33	Manufacturing .....	-	17	7	581	20 342	477	849	14 410	58 379	130 626	187 274	D

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BALANCE OF CONTRA COSTA COUNTY</b>													
31-33	Manufacturing .....	-	99	26	3 205	184 768	1 980	4 007	104 159	750 445	2 608 277	3 334 758	73 212
324	Petroleum and coal products manufacturing .....	-	6	3	g	D	D	D	D	D	D	D	D
3241	Petroleum and coal products manufacturing .....	-	6	3	g	D	D	D	D	D	D	D	D
32411	Petroleum refineries .....	-	2	2	g	D	D	D	D	D	D	D	D
324110	Petroleum refineries .....	-	2	2	g	D	D	D	D	D	D	D	D
325	Chemical manufacturing .....	2	10	6	638	35 208	355	670	16 149	85 567	95 679	182 584	D
<b>BALANCE OF EL DORADO COUNTY</b>													
31-33	Manufacturing .....	-	150	27	4 063	144 671	2 799	4 927	85 601	614 147	328 418	942 693	D
323	Printing and related support activities .....	-	10	3	g	D	D	D	D	D	D	D	D
3231	Printing and related support activities .....	-	10	3	g	D	D	D	D	D	D	D	D
32311	Printing .....	-	10	3	g	D	D	D	D	D	D	D	D
323114	Quick printing .....	-	2	1	g	D	D	D	D	D	D	D	D
<b>BALANCE OF FRESNO COUNTY</b>													
31-33	Manufacturing .....	2	148	58	6 613	200 623	5 258	10 876	136 950	602 084	984 585	1 635 432	40 137
311	Food manufacturing .....	2	34	23	4 088	108 554	3 337	6 938	76 556	337 747	685 463	1 074 146	23 371
3114	Fruit and vegetable preserving and specialty food manufacturing .....	2	14	10	1 891	54 284	1 596	3 268	39 060	184 299	266 634	511 665	13 065
31142	Fruit and vegetable canning, pickling, and drying .....	2	12	9	g	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning .....	3	5	5	f	D	D	D	D	D	D	D	D
311423	Dried and dehydrated food manufacturing .....	1	6	3	1 224	34 605	1 016	2 053	22 916	116 963	113 442	284 213	6 459
3116	Animal slaughtering and processing .....	5	6	5	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering and processing .....	5	6	5	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering .....	5	4	3	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	15	6	667	28 183	512	1 178	19 696	75 786	108 214	186 146	4 843
3272	Glass and glass product manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
32721	Glass and glass product manufacturing .....	-	3	3	f	D	D	D	D	D	D	D	D
<b>BALANCE OF GLENN COUNTY</b>													
31-33	Manufacturing .....	-	15	6	665	24 302	595	1 280	20 705	112 128	151 435	262 394	D
<b>BALANCE OF HUMBOLDT COUNTY</b>													
31-33	Manufacturing .....	-	62	15	2 031	75 519	1 667	3 348	57 094	151 802	321 715	522 478	16 147
321	Wood product manufacturing .....	-	17	8	1 586	59 885	1 298	2 641	44 136	87 733	272 076	404 793	D
3211	Sawmills and wood preservation .....	-	10	5	g	D	D	D	D	D	D	D	D
32111	Sawmills and wood preservation .....	-	10	5	g	D	D	D	D	D	D	D	D
321113	Sawmills .....	-	9	5	g	D	D	D	D	D	D	D	D
<b>BALANCE OF IMPERIAL COUNTY</b>													
31-33	Manufacturing .....	-	17	7	560	19 155	455	953	14 059	72 038	90 668	132 386	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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BALANCE OF KERN COUNTY</b>													
31-33	Manufacturing .....	1	175	49	6 666	226 745	4 608	9 591	132 472	759 521	973 128	1 748 357	114 269
311	Food manufacturing .....	3	14	6	3 250	85 030	2 173	4 716	46 582	238 499	260 185	513 388	D
3119	Other food manufacturing .....	3	5	3	h	D	D	D	D	D	D	D	D
31191	Snack food manufacturing, ...	9	2	1	f	D	D	D	D	D	D	D	D
311911	Roasted nuts and peanut butter manufacturing .....	9	2	1	f	D	D	D	D	D	D	D	D
31199	All other food manufacturing ...	—	2	1	g	D	D	D	D	D	D	D	D
311991	Perishable prepared food manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
326	Plastics and rubber products manufacturing .....	—	8	6	f	D	D	D	D	D	D	D	D
3261	Plastics product manufacturing ..	—	8	6	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	—	15	7	592	30 299	445	1 027	22 330	166 469	109 124	277 478	20 345
3273	Cement and concrete product manufacturing .....	—	12	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	2	47	8	565	18 814	440	876	12 736	38 476	20 085	58 657	1 127
<b>BALANCE OF KINGS COUNTY</b>													
31-33	Manufacturing .....	—	28	11	1 589	47 253	1 414	3 192	39 510	402 972	202 649	602 907	15 853
311	Food manufacturing .....	—	11	7	1 375	40 939	1 230	2 834	34 741	388 564	187 995	573 868	15 008
3114	Fruit and vegetable preserving and specialty food manufacturing .....	—	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit and vegetable canning, pickling, and drying .....	—	1	1	f	D	D	D	D	D	D	D	D
311421	Fruit and vegetable canning .	—	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF LOS ANGELES COUNTY</b>													
31-33	Manufacturing .....	3	1 074	350	35 458	1 244 788	25 908	50 029	698 889	3 653 150	2 959 909	6 609 550	247 343
311	Food manufacturing .....	6	100	29	3 455	111 848	2 512	4 677	72 151	532 083	358 297	887 830	15 683
3111	Animal food manufacturing .....	9	5	4	560	38 049	314	688	24 848	256 437	150 250	406 258	7 005
31111	Animal food manufacturing ....	9	5	4	560	38 049	314	688	24 848	256 437	150 250	406 258	7 005
3118	Bakeries and tortilla manufacturing .....	1	50	10	1 185	22 050	845	1 257	12 883	84 450	41 475	125 857	1 867
31181	Bread and bakery product manufacturing .....	1	41	7	610	12 211	421	704	7 333	59 890	17 167	76 881	628
31183	Tortilla manufacturing, .....	—	2	2	f	D	D	D	D	D	D	D	D
311830	Tortilla manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	1	19	9	814	24 204	601	1 211	14 476	61 392	112 682	172 163	3 038
312	Beverage and tobacco product manufacturing .....	9	4	1	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	9	4	1	f	D	D	D	D	D	D	D	D
31212	Breweries .....	9	2	1	f	D	D	D	D	D	D	D	D
312120	Breweries .....	9	2	1	f	D	D	D	D	D	D	D	D
313	Textile mills .....	1	24	10	1 174	25 486	995	1 989	19 417	49 764	55 205	107 154	1 281
3132	Fabric mills .....	3	13	5	f	D	D	D	D	D	D	D	D
3133	Textile and fabric finishing and fabric coating mills .....	—	10	4	542	13 593	474	963	10 279	25 779	36 070	61 727	670
31331	Textile and fabric finishing mills .....	—	10	4	542	13 593	474	963	10 279	25 779	36 070	61 727	670
315	Apparel manufacturing .....	1	116	33	3 560	95 628	2 600	4 665	47 163	323 057	469 460	793 676	3 319
3152	Cut and sew apparel manufacturing .....	1	104	29	3 316	88 689	2 393	4 224	42 163	284 805	427 254	719 267	3 151
31521	Cut and sew apparel contractors .....	4	70	11	722	10 720	629	1 095	8 710	17 438	3 223	20 466	290
315212	Women's, girls', and infants' cut and sew apparel contractors .....	4	64	10	656	9 970	569	1 028	8 105	15 857	3 088	18 910	D
31523	Women's and girls' cut and sew apparel manufacturing .....	—	27	14	2 237	70 328	1 439	2 491	27 505	252 579	415 069	675 471	2 763
315232	Women's and girls' cut and sew blouse and shirt manufacturing .....	1	12	8	1 276	39 218	955	1 603	17 235	137 669	150 237	288 504	1 314
315239	Women's and girls' cut and sew other outerwear manufacturing .....	—	8	2	f	D	D	D	D	D	D	D	470

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]

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BALANCE OF LOS ANGELES COUNTY—Con.</b>													
323	Printing and related support activities .....	3	70	17	1 854	58 001	1 339	2 464	35 792	89 738	100 184	187 542	8 070
3231	Printing and related support activities .....	3	70	17	1 854	58 001	1 339	2 464	35 792	89 738	100 184	187 542	8 070
32311	Printing .....	2	62	15	1 740	55 000	1 243	2 275	33 590	84 767	98 736	181 111	7 973
323110	Commercial lithographic printing .....	3	29	6	884	38 030	618	1 409	21 454	59 804	71 144	128 417	7 365
325	Chemical manufacturing .....	3	48	16	1 304	66 050	769	1 397	26 344	198 118	221 694	425 497	10 645
326	Plastics and rubber products manufacturing .....	3	48	21	1 780	51 200	1 375	2 821	32 143	117 631	129 207	244 591	8 650
3261	Plastics product manufacturing ..	2	38	16	1 270	37 994	993	1 990	23 218	91 386	115 257	204 536	5 093
32619	Other plastics product manufacturing .....	4	21	9	557	17 428	390	792	9 011	36 328	40 937	77 788	1 090
326199	All other plastics product manufacturing .....	3	20	9	f	D	D	D	D	D	D	D	D
3262	Rubber product manufacturing ...	7	10	5	510	13 206	382	831	8 925	26 245	13 950	40 055	3 557
327	Nonmetallic mineral product manufacturing .....	2	37	14	876	31 827	614	1 255	19 353	81 836	82 213	163 729	9 060
3273	Cement and concrete product manufacturing .....	2	22	13	710	26 194	485	965	15 960	64 667	76 022	140 692	8 042
331	Primary metal manufacturing .....	—	14	10	1 140	44 253	946	1 818	29 885	191 454	136 799	329 086	7 986
3315	Foundries .....	—	10	7	682	22 148	560	988	14 238	90 166	22 832	113 677	D
332	Fabricated metal product manufacturing .....	2	196	57	5 207	169 645	3 950	7 627	107 268	427 142	280 086	713 498	11 934
3323	Architectural and structural metals manufacturing .....	2	34	11	943	31 793	639	1 245	15 128	79 175	68 120	149 350	2 846
33232	Ornamental and architectural metal products manufacturing .....	4	25	9	661	21 804	473	889	11 821	45 759	28 177	75 812	D
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing .....	1	62	8	683	24 970	472	930	15 969	94 848	50 973	147 127	1 897
3328	Coating, engraving, heat treating, and allied activities .....	—	40	14	1 277	36 530	1 059	2 219	25 607	78 013	41 078	117 248	1 608
33281	Coating, engraving, heat treating, and allied activities ..	—	40	14	1 277	36 530	1 059	2 219	25 607	78 013	41 078	117 248	1 608
332813	Electroplating, plating, polishing, anodizing, and coloring .....	—	25	8	1 005	26 528	856	1 781	18 518	58 915	27 545	84 596	1 141
3329	Other fabricated metal product manufacturing .....	3	22	6	949	26 988	798	1 164	19 535	69 966	46 782	117 394	1 369
33299	All other fabricated metal product manufacturing .....	3	16	3	742	19 337	642	888	14 723	54 772	41 735	97 295	1 140
333	Machinery manufacturing .....	3	64	24	1 777	73 883	1 115	2 105	35 520	168 858	106 838	274 738	5 058
3339	Other general purpose machinery manufacturing .....	2	16	7	512	19 968	285	552	9 334	39 311	22 857	62 317	1 351
334	Computer and electronic product manufacturing .....	1	40	12	2 248	141 778	996	1 945	29 288	410 704	145 586	543 105	D
3345	Navigational, measuring, electromedical, and control instruments manufacturing .....	—	12	4	1 323	110 952	352	641	15 144	342 927	96 940	428 125	D
33451	Navigational, measuring, electromedical, and control instruments manufacturing ...	—	12	4	1 323	110 952	352	641	15 144	342 927	96 940	428 125	D
334515	Instrument manufacturing for measuring and testing electricity and electrical signals .....	—	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	—	22	10	986	35 527	667	1 258	19 085	80 321	48 492	131 865	3 051
336	Transportation equipment manufacturing .....	4	46	24	2 367	81 109	1 959	3 988	59 353	169 969	153 839	321 462	24 955
3363	Motor vehicle parts manufacturing .....	5	28	16	1 926	64 401	1 612	3 285	47 497	131 502	135 050	264 319	D
33639	Other motor vehicle parts manufacturing .....	6	14	10	1 503	45 652	1 273	2 613	34 359	98 204	102 343	198 369	D
336399	All other motor vehicle parts manufacturing .....	6	14	10	1 503	45 652	1 273	2 613	34 359	98 204	102 343	198 369	D

See footnotes at end of table.

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

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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BALANCE OF LOS ANGELES COUNTY—Con.</b>													
337	Furniture and related product manufacturing .....	1	'95	'31	'3 054	'89 747	'2 472	'5 231	'62 569	'216 004	'159 055	'377 296	'9 998
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	1	66	17	2 246	62 418	1 872	3 938	46 330	149 471	98 138	246 281	8 115
33711	Wood kitchen cabinet and countertop manufacturing ....	—	15	3	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet and countertop manufacturing ..	—	15	3	f	D	D	D	D	D	D	D	D
33712	Household and institutional furniture manufacturing .....	1	51	14	g	D	D	D	D	D	D	D	D
337121	Upholstered household furniture manufacturing ....	—	10	3	559	14 983	502	1 012	12 369	49 539	38 913	87 979	144
337122	Nonupholstered wood household furniture manufacturing .....	1	26	7	659	16 043	551	1 068	11 652	28 946	23 755	52 388	5 330
3372	Office furniture (including fixtures) manufacturing .....	1	'18	'9	'569	'18 893	'410	'888	'10 626	'39 459	'34 866	'77 853	'656
33721	Office furniture (including fixtures) manufacturing .....	1	'18	'9	'569	'18 893	'410	'888	'10 626	'39 459	'34 866	'77 853	'656
339	Miscellaneous manufacturing .....	1	76	21	2 275	79 225	1 653	2 969	41 586	243 697	101 192	347 673	8 959
3391	Medical equipment and supplies manufacturing .....	1	25	5	862	43 942	506	1 030	19 196	159 969	48 938	211 101	3 170
33911	Medical equipment and supplies manufacturing .....	1	25	5	862	43 942	506	1 030	19 196	159 969	48 938	211 101	3 170
339116	Dental laboratories .....	—	15	2	f	D	D	D	D	D	D	D	840
3399	Other miscellaneous manufacturing .....	1	51	16	1 413	35 283	1 147	1 939	22 390	83 728	52 254	136 572	5 789
33999	All other miscellaneous manufacturing .....	1	25	11	1 047	25 543	840	1 357	15 781	60 019	41 867	102 804	5 096
<b>BALANCE OF MADERA COUNTY</b>													
31-33	Manufacturing .....	—	59	19	2 652	92 011	2 153	3 799	69 135	388 510	354 172	734 411	D
312	Beverage and tobacco product manufacturing .....	—	6	2	f	D	D	D	D	D	D	D	D
3121	Beverage manufacturing .....	—	6	2	f	D	D	D	D	D	D	D	D
31213	Wineries .....	—	6	2	f	D	D	D	D	D	D	D	D
312130	Wineries .....	—	6	2	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	—	7	4	f	D	D	D	D	D	D	D	D
<b>BALANCE OF MENDOCINO COUNTY</b>													
31-33	Manufacturing .....	—	86	27	2 105	68 573	1 422	2 684	40 472	254 852	291 953	556 754	16 580
312	Beverage and tobacco product manufacturing .....	—	24	8	655	21 414	302	593	8 826	151 056	99 204	255 382	D
3121	Beverage manufacturing .....	—	24	8	655	21 414	302	593	8 826	151 056	99 204	255 382	D
31213	Wineries .....	—	20	7	f	D	D	D	D	D	D	D	D
312130	Wineries .....	—	20	7	f	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	—	14	10	f	D	D	D	D	D	D	D	1 133
<b>BALANCE OF MERCED COUNTY</b>													
31-33	Manufacturing .....	—	53	15	3 448	89 416	2 263	4 153	59 724	518 383	1 073 174	1 561 906	17 521
311	Food manufacturing .....	—	16	9	2 773	66 222	1 731	3 025	43 399	250 013	793 747	1 042 176	10 225
3114	Fruit and vegetable preserving and specialty food manufacturing .....	2	4	4	1 864	29 928	1 091	1 666	20 958	162 677	104 873	267 550	D
31141	Frozen food manufacturing ....	—	1	1	g	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, and vegetable manufacturing ...	—	1	1	g	D	D	D	D	D	D	D	D
3115	Dairy product manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) manufacturing .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>BALANCE OF MONTEREY COUNTY</b>													
31-33	Manufacturing .....	2	74	15	1 854	57 778	1 416	2 074	37 120	177 500	169 245	355 271	8 316
311	Food manufacturing .....	2	10	5	607	19 193	474	919	12 875	77 761	64 342	140 474	2 438

See footnotes at end of table.



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			Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BALANCE OF NAPA COUNTY</b>													
31-33	Manufacturing .....	1	206	78	5 865	268 404	2 538	5 115	98 935	1 137 691	1 042 156	2 141 817	D
312	Beverage and tobacco product manufacturing .....	1	165	61	4 527	209 458	1 548	2 940	63 315	937 254	647 078	1 551 880	D
3121	Beverage manufacturing .....	1	165	61	4 527	209 458	1 548	2 940	63 315	937 254	647 078	1 551 880	D
31213	Wineries .....	1	162	60	h	D	D	D	D	D	D	D	107 253
312130	Wineries .....	1	162	60	h	D	D	D	D	D	D	D	107 253
<b>BALANCE OF NEVADA COUNTY</b>													
31-33	Manufacturing .....	3	94	6	795	26 479	566	1 098	15 836	54 011	50 435	105 208	3 003
<b>BALANCE OF PLACER COUNTY</b>													
31-33	Manufacturing .....	—	'142	21	'7 296	'179 189	'2 202	'4 350	'62 550	'1 159 932	'1 171 050	'2 327 563	D
334	Computer and electronic product manufacturing .....	—	17	5	i	D	D	D	D	D	D	D	D
3341	Computer and peripheral equipment manufacturing .....	—	4	2	i	D	D	D	D	D	D	D	D
33411	Computer and peripheral equipment manufacturing ....	—	4	2	i	D	D	D	D	D	D	D	D
334111	Electronic computer manufacturing .....	—	1	1	i	D	D	D	D	D	D	D	D
<b>BALANCE OF PLUMAS COUNTY</b>													
31-33	Manufacturing .....	—	31	3	529	20 174	431	907	15 503	40 194	67 177	114 323	D
<b>BALANCE OF RIVERSIDE COUNTY</b>													
31-33	Manufacturing .....	2	283	99	10 396	343 415	7 938	16 088	231 314	1 148 110	1 240 417	2 385 958	66 740
321	Wood product manufacturing .....	—	17	6	737	20 852	597	1 309	12 982	35 936	89 424	124 341	1 148
323	Printing and related support activities .....	—	12	3	608	16 680	501	790	11 321	68 777	30 697	100 618	D
3231	Printing and related support activities .....	—	12	3	608	16 680	501	790	11 321	68 777	30 697	100 618	D
32311	Printing .....	—	12	3	608	16 680	501	790	11 321	68 777	30 697	100 618	D
327	Nonmetallic mineral product manufacturing .....	1	29	15	933	33 848	732	1 562	23 614	104 133	116 305	214 456	8 333
3273	Cement and concrete product manufacturing .....	1	20	13	775	28 335	617	1 334	20 226	92 855	102 441	189 028	D
332	Fabricated metal product manufacturing .....	2	50	18	1 812	60 216	1 427	2 848	41 268	208 871	290 581	503 940	14 529
3323	Architectural and structural metals manufacturing .....	4	17	7	974	27 514	759	1 501	18 355	76 751	97 226	173 608	3 264
33231	Plate work and fabricated structural product manufacturing .....	9	6	2	508	13 604	396	761	8 902	32 235	50 894	83 266	1 818
333	Machinery manufacturing .....	4	25	6	512	21 176	286	592	10 574	67 936	45 821	114 781	1 983
336	Transportation equipment manufacturing .....	—	16	9	1 681	50 654	1 469	3 041	43 077	132 322	298 511	422 128	2 644
3362	Motor vehicle body and trailer manufacturing .....	—	6	5	1 190	36 551	1 069	2 297	31 575	101 511	247 387	342 141	925
33621	Motor vehicle body and trailer manufacturing .....	—	6	5	1 190	36 551	1 069	2 297	31 575	101 511	247 387	342 141	925
336213	Motor home manufacturing ..	—	1	1	f	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	8	25	8	680	22 098	515	1 040	15 193	99 180	36 885	136 108	2 626
339	Miscellaneous manufacturing .....	1	22	5	1 379	42 107	938	2 141	29 008	216 847	77 827	301 812	6 550
3399	Other miscellaneous manufacturing .....	—	18	3	1 203	34 271	805	1 876	24 056	197 884	73 044	278 082	D
33999	All other miscellaneous manufacturing .....	—	5	1	f	D	D	D	D	D	D	D	D
339992	Musical instrument 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	E <sup>1</sup>	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BALANCE OF SACRAMENTO COUNTY</b>													
31-33	Manufacturing .....	1	458	126	13 551	596 118	8 567	16 743	260 991	1 419 708	1 396 653	2 883 343	117 607
321	Wood product manufacturing .....	—	20	11	730	21 508	595	1 233	14 744	37 059	42 672	79 935	D
3219	Other wood product manufacturing .....	—	18	9	f	D	D	D	D	D	D	D	D
323	Printing and related support activities .....	2	57	8	774	25 493	523	953	13 607	51 126	24 980	76 092	D
3231	Printing and related support activities .....	2	57	8	774	25 493	523	953	13 607	51 126	24 980	76 092	D
32311	Printing .....	2	52	8	769	25 300	518	945	13 480	50 772	24 875	75 633	D
326	Plastics and rubber products manufacturing .....	3	22	6	791	26 596	595	1 362	17 008	73 490	61 187	134 929	D
3261	Plastics product manufacturing ..	3	20	5	f	D	D	D	D	D	D	D	D
32619	Other plastics product manufacturing .....	—	13	3	622	20 573	481	1 100	13 486	57 499	41 127	98 548	D
326199	All other plastics product manufacturing .....	—	12	2	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	—	21	8	533	21 091	431	711	15 704	59 889	57 415	118 338	4 232
332	Fabricated metal product manufacturing .....	3	70	14	895	31 915	704	1 362	22 331	86 895	65 921	152 794	D
333	Machinery manufacturing .....	2	25	10	556	26 832	349	731	13 102	52 260	46 147	98 720	3 780
334	Computer and electronic product manufacturing .....	—	36	10	2 795	137 735	1 604	3 205	51 466	498 028	602 841	1 103 162	D
3344	Semiconductor and other electronic component manufacturing .....	—	6	3	g	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	—	6	3	g	D	D	D	D	D	D	D	D
334413	Semiconductor and related device manufacturing .....	—	3	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, and component manufacturing .....	2	6	3	f	D	D	D	D	D	D	D	D
3353	Electrical equipment manufacturing .....	2	4	3	553	25 955	377	724	13 979	58 094	42 638	100 648	D
33531	Electrical equipment manufacturing .....	2	4	3	553	25 955	377	724	13 979	58 094	42 638	100 648	D
335314	Relay and industrial control manufacturing .....	2	3	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	—	20	7	1 916	137 894	839	1 638	31 570	111 793	125 506	299 404	D
3364	Aerospace product and parts manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing .....	—	1	1	g	D	D	D	D	D	D	D	D
337	Furniture and related product manufacturing .....	2	43	13	723	19 326	560	1 131	12 598	43 147	33 434	76 332	D
3371	Household and institutional furniture and kitchen cabinet manufacturing .....	1	38	12	662	17 395	521	1 055	11 530	36 682	31 723	68 236	D
339	Miscellaneous manufacturing .....	1	59	13	1 375	52 713	816	1 530	20 988	56 812	51 397	108 050	8 061
3391	Medical equipment and supplies manufacturing .....	—	31	6	934	41 483	540	1 094	16 044	36 071	36 731	72 634	5 591
33911	Medical equipment and supplies manufacturing .....	—	31	6	934	41 483	540	1 094	16 044	36 071	36 731	72 634	5 591
339112	Surgical and medical instrument manufacturing ..	—	3	2	571	29 467	363	731	10 340	21 323	24 326	45 632	D
<b>BALANCE OF SAN BENITO COUNTY</b>													
31-33	Manufacturing .....	2	30	9	1 067	39 529	732	1 304	21 511	116 136	94 754	216 966	5 925

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BALANCE OF SAN BERNARDINO COUNTY</b>													
31-33	Manufacturing .....	-	287	55	6 342	241 074	4 927	10 129	164 338	872 970	1 051 087	1 929 463	236 781
321	Wood product manufacturing .....	2	31	7	863	22 705	756	1 561	16 649	28 442	59 707	87 999	4 108
3219	Other wood product manufacturing .....	1	22	3	599	14 728	545	1 086	11 244	13 018	43 167	56 169	3 629
325	Chemical manufacturing .....	-	10	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product manufacturing .....	-	17	8	1 118	43 513	863	1 917	30 463	203 377	109 581	309 218	10 309
3273	Cement and concrete product manufacturing .....	-	12	7	g	D	D	D	D	D	D	D	D
32739	Other concrete product manufacturing .....	-	5	4	583	16 094	485	1 065	12 097	39 889	10 257	50 294	2 660
327390	Other concrete product manufacturing .....	-	5	4	583	16 094	485	1 065	12 097	39 889	10 257	50 294	2 660
331	Primary metal manufacturing .....	-	9	5	g	D	D	D	D	D	D	D	D
3311	Iron and steel mills and ferroalloy manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33111	Iron and steel mills and ferroalloy manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
331111	Iron and steel mills .....	-	2	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	64	10	638	24 546	432	866	14 501	72 430	47 983	120 903	2 878
<b>BALANCE OF SAN DIEGO COUNTY</b>													
31-33	Manufacturing .....	2	313	43	4 831	213 365	2 634	5 088	76 596	545 951	422 670	925 214	121 379
332	Fabricated metal product manufacturing .....	3	60	9	516	18 424	387	761	11 572	41 652	20 601	62 202	2 211
334	Computer and electronic product manufacturing .....	-	27	6	1 773	86 930	801	1 610	25 989	205 119	155 730	343 587	D
3344	Semiconductor and other electronic component manufacturing .....	-	9	2	g	D	D	D	D	D	D	D	D
33441	Semiconductor and other electronic component manufacturing .....	-	9	2	g	D	D	D	D	D	D	D	D
334419	Other electronic component manufacturing .....	-	4	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment manufacturing .....	-	19	2	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	2	1	f	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF SAN JOAQUIN COUNTY</b>													
31-33	Manufacturing .....	-	176	61	6 053	226 684	4 449	8 820	154 728	1 588 058	1 107 483	2 672 025	106 419
311	Food manufacturing .....	-	19	11	1 491	67 205	1 143	2 343	49 082	753 274	357 715	1 112 537	40 299
3112	Grain and oilseed milling .....	-	1	1	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
312	Beverage and tobacco product manufacturing .....	-	15	6	1 100	43 180	744	1 391	32 389	454 822	380 634	809 584	38 686
3121	Beverage manufacturing .....	-	15	6	1 100	43 180	744	1 391	32 389	454 822	380 634	809 584	38 686
31213	Wineries .....	-	15	6	1 100	43 180	744	1 391	32 389	454 822	380 634	809 584	38 686
312130	Wineries .....	-	15	6	1 100	43 180	744	1 391	32 389	454 822	380 634	809 584	38 686
332	Fabricated metal product manufacturing .....	1	37	7	641	23 953	516	1 072	18 128	83 308	64 195	153 394	1 861
337	Furniture and related product manufacturing .....	1	15	6	587	18 039	458	842	10 775	45 039	31 226	72 401	9 173
<b>BALANCE OF SAN LUIS OBISPO COUNTY</b>													
31-33	Manufacturing .....	3	133	26	2 263	80 571	1 325	2 512	38 567	227 394	217 755	443 429	35 446
312	Beverage and tobacco product manufacturing .....	2	32	10	676	18 807	330	698	10 291	88 971	90 972	173 658	28 342
3121	Beverage manufacturing .....	2	32	10	676	18 807	330	698	10 291	88 971	90 972	173 658	28 342
31213	Wineries .....	2	31	9	f	D	D	D	D	D	D	D	D
312130	Wineries .....	2	31	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	E1	All establishments <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BALANCE OF SAN MATEO COUNTY</b>													
31-33	Manufacturing .....	4	109	15	1 027	39 823	725	1 423	24 197	93 735	44 161	138 249	3 009
<b>BALANCE OF SANTA BARBARA COUNTY</b>													
31-33	Manufacturing .....	6	77	12	1 619	61 279	889	1 695	26 539	172 300	108 671	280 178	11 704
339	Miscellaneous manufacturing .....	9	9	2	f	D	D	D	D	D	D	D	D
3391	Medical equipment and supplies manufacturing .....	9	4	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment and supplies manufacturing .....	9	4	1	f	D	D	D	D	D	D	D	D
339112	Surgical and medical instrument manufacturing ..	9	2	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF SANTA CLARA COUNTY</b>													
31-33	Manufacturing .....	-	74	13	1 778	93 745	863	1 572	30 139	953 029	664 329	1 712 866	34 342
336	Transportation equipment manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF SANTA CRUZ COUNTY</b>													
31-33	Manufacturing .....	2	129	11	1 380	49 496	947	1 816	29 155	109 193	107 538	219 281	5 985
<b>BALANCE OF SHASTA COUNTY</b>													
31-33	Manufacturing .....	3	51	11	1 376	50 850	1 082	2 249	36 351	96 432	158 002	253 452	D
321	Wood product manufacturing .....	1	8	4	f	D	D	D	D	D	D	D	D
3211	Sawmills and wood preservation ..	1	3	3	f	D	D	D	D	D	D	D	D
32111	Sawmills and wood preservation .....	1	3	3	f	D	D	D	D	D	D	D	D
321113	Sawmills .....	1	3	3	f	D	D	D	D	D	D	D	D
<b>BALANCE OF SOLANO COUNTY</b>													
31-33	Manufacturing .....	-	20	7	675	19 602	526	1 078	12 394	59 454	106 169	164 857	1 580
<b>BALANCE OF SONOMA COUNTY</b>													
31-33	Manufacturing .....	2	341	93	7 022	244 215	4 173	7 808	124 104	898 930	704 056	1 655 977	96 777
311	Food manufacturing .....	4	29	9	813	21 187	608	1 147	13 788	66 713	70 970	138 335	4 065
312	Beverage and tobacco product manufacturing .....	1	118	37	3 231	116 841	1 440	2 755	48 725	585 820	450 912	1 088 245	67 849
3121	Beverage manufacturing .....	1	118	37	3 231	116 841	1 440	2 755	48 725	585 820	450 912	1 088 245	67 849
31213	Wineries .....	1	118	37	3 231	116 841	1 440	2 755	48 725	585 820	450 912	1 088 245	67 849
312130	Wineries .....	1	118	37	3 231	116 841	1 440	2 755	48 725	585 820	450 912	1 088 245	67 849

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 <sup>2</sup>		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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
<b>BALANCE OF STANISLAUS COUNTY</b>													
31-33	Manufacturing .....	1	183	76	7 648	261 681	5 757	10 831	163 456	955 678	1 095 230	2 044 798	42 404
311	Food manufacturing .....	1	42	26	3 287	95 038	2 615	4 617	63 848	531 339	634 294	1 153 479	21 246
3114	Fruit and vegetable preserving and specialty food manufacturing .....	1	9	9	2 111	58 040	1 764	3 007	40 980	158 325	154 244	312 707	6 636
31142	Fruit and vegetable canning, pickling, and drying .....	1	9	9	2 111	58 040	1 764	3 007	40 980	158 325	154 244	312 707	6 636
311421	Fruit and vegetable canning .....	-	4	4	g	D	D	D	D	D	D	D	D
3119	Other food manufacturing .....	1	11	7	639	15 482	484	821	10 119	291 701	169 706	449 255	12 525
322	Paper manufacturing .....	2	5	5	f	D	D	D	D	D	D	D	D
3222	Converted paper product manufacturing .....	2	5	5	f	D	D	D	D	D	D	D	D
32221	Paperboard container manufacturing .....	2	5	5	f	D	D	D	D	D	D	D	D
322211	Corrugated and solid fiber box manufacturing .....	2	5	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product manufacturing .....	1	36	9	702	27 537	508	1 006	17 561	81 349	94 475	178 085	2 688
333	Machinery manufacturing .....	2	22	7	630	23 021	410	839	11 550	60 104	30 218	89 336	1 590
336	Transportation equipment manufacturing .....	-	3	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts manufacturing .....	-	2	2	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts manufacturing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF TEHAMA COUNTY</b>													
31-33	Manufacturing .....	-	35	11	g	D	D	D	D	D	D	D	D
321	Wood product manufacturing .....	-	10	7	1 514	52 259	1 296	2 815	40 084	101 074	198 590	297 793	D
3219	Other wood product manufacturing .....	-	9	6	g	D	D	D	D	D	D	D	D
32191	Millwork .....	-	8	6	g	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring) .....	-	6	4	f	D	D	D	D	D	D	D	D
<b>BALANCE OF TULARE COUNTY</b>													
31-33	Manufacturing .....	2	110	34	2 979	98 490	2 270	4 187	63 323	290 809	730 975	1 008 917	19 603
311	Food manufacturing .....	1	20	7	722	24 870	568	1 093	17 403	89 328	483 817	566 803	8 225
<b>BALANCE OF TUOLUMNE COUNTY</b>													
31-33	Manufacturing .....	1	61	11	1 082	37 544	862	1 576	25 770	100 657	104 185	203 905	D
<b>BALANCE OF VENTURA COUNTY</b>													
31-33	Manufacturing .....	4	68	17	2 073	86 971	1 278	2 686	47 317	259 107	305 416	562 741	17 000
336	Transportation equipment manufacturing .....	9	4	1	f	D	D	D	D	D	D	D	D
3364	Aerospace product and parts manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product and parts manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
336411	Aircraft manufacturing .....	9	1	1	f	D	D	D	D	D	D	D	D
<b>BALANCE OF YUBA COUNTY</b>													
31-33	Manufacturing .....	1	30	8	611	16 566	485	1 032	11 480	48 072	52 445	100 273	D

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

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

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

<sup>4</sup>Number 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
<b>CALIFORNIA</b>	
Companies <sup>1</sup> .....	N
All establishments <sup>2</sup> .....	'48 478
Establishments with 1 to 19 employees .....	'34 670
Establishments with 20 to 99 employees .....	'10 580
Establishments with 100 employees or more .....	'3 228
All employees <sup>3</sup> .....	'1 616 504
Total compensation .....	\$1,000.. '81 656 259
Annual payroll .....	\$1,000.. '66 468 561
Total fringe benefits .....	\$1,000.. '15 187 698
Production workers, average for year .....	number.. '1 029 398
Production workers on March 12 .....	number.. '1 024 937
Production workers on May 12 .....	number.. '1 033 503
Production workers on August 12 .....	number.. '1 045 794
Production workers on November 12 .....	number.. '1 011 365
Production worker hours .....	1,000.. '2 002 724
Production worker wages .....	\$1,000.. '31 371 789
Total cost of materials .....	\$1,000.. '180 962 019
Materials, parts, containers, packaging, etc., used .....	\$1,000.. '152 953 057
Resales .....	\$1,000.. '14 188 331
Purchased fuels .....	\$1,000.. '1 992 719
Purchased electricity .....	\$1,000.. '3 586 815
Contract work .....	\$1,000.. '8 241 097
Quantity of electricity purchased for heat and power .....	1,000 kWh.. '42 072 079
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 4 325 603
Total value of shipments .....	\$1,000.. '378 661 414
Value of resales .....	\$1,000.. '19 297 721
Value added .....	\$1,000.. '197 574 490
Total inventories, beginning of year .....	\$1,000.. '53 454 385
Finished goods inventories .....	\$1,000.. '17 223 933
Work-in-process inventories .....	\$1,000.. '19 059 156
Materials and supplies inventories .....	\$1,000.. '17 171 296
Total inventories, end of year .....	\$1,000.. '52 587 050
Finished goods inventories .....	\$1,000.. '16 526 436
Work-in-process inventories .....	\$1,000.. '19 660 760
Materials and supplies inventories .....	\$1,000.. '16 399 854
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. '139 425 355
Total capital expenditures (new and used) .....	\$1,000.. '16 279 856
Buildings and other structures (new and used) .....	\$1,000.. '5 427 239
Machinery and equipment (new and used) .....	\$1,000.. '10 852 617
Automobiles, trucks, etc., for highway use .....	\$1,000.. '432 682
Computers and peripheral data processing equipment .....	\$1,000.. '1 179 339
All other expenditures for machinery and equipment .....	\$1,000.. '9 240 596
Total retirements .....	\$1,000.. '8 970 300
Gross value of depreciable assets at end of year .....	\$1,000.. '146 734 911
Depreciation charges during year .....	\$1,000.. '10 208 840
Total rental payments .....	\$1,000.. '5 783 496
Buildings and other structures .....	\$1,000.. '3 681 958
Machinery and equipment .....	\$1,000.. '2 101 538

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

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

<sup>3</sup>Number 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

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### **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).

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## **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.



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## **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

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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.

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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.

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## **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.

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## **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

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### **SECTOR 31-33 MANUFACTURING**

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

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

The materials, substances, or components transformed by manufacturing establishments are raw materials that are products of agriculture, forestry, fishing, mining, or quarrying as well as products of other manufacturing establishments. The materials used may be purchased directly from producers, obtained through customary trade channels, or secured without recourse to the market by transferring the product from one establishment to another, under the same ownership. The new product of a manufacturing establishment may be finished in the sense that it is ready for utilization or consumption, or it may be semifinished to become an input for an establishment engaged in further manufacturing. For example, the product of the alumina refinery is the input used in the primary production of aluminum; primary aluminum is the input to an aluminum wire drawing plant; and aluminum wire is the input for a fabricated wire product manufacturing establishment.

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

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

The boundaries of manufacturing and the other sectors of the classification system can be somewhat blurry. The establishments in the manufacturing sector are engaged in the transformation of materials into new products. Their output is a new product. However, the definition of what constitutes a new product can be somewhat subjective. As clarification, the following activities are considered manufacturing in NAICS: Milk bottling and pasteurizing; Water bottling and processing;

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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:

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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).



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### **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.

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### **311320 CHOCOLATE AND CONFECTIONERY MANUFACTURING FROM CACAO BEANS**

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

### **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.

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## **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.

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### **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.

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### **311613 RENDERING AND MEAT BYPRODUCT PROCESSING**

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

### **311615 POULTRY PROCESSING**

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

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

### **3117 SEAFOOD PRODUCT PREPARATION AND PACKAGING**

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.

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### **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.



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### **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.

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### **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.

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### **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.

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### **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.

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### **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.

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### **315228 MEN'S AND BOYS' CUT AND SEW OTHER OUTERWEAR MANUFACTURING**

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' cut and sew outerwear from purchased fabric (except underwear, nightwear, shirts, suits, overcoats and tailored coats, separate trousers and slacks, and work clothing). Men's and boys' other outerwear jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Unisex sweatpants and similar garments that are sized without specific reference to gender (i.e., adult S, M, L, XL) are also included in this industry. Examples of products made by these establishments are athletic clothing (except athletic uniforms), bathing suits, down coats, outerwear shorts, windbreakers and jackets, and jogging suits.

### **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.

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### **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

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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.

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### **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.

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### **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.

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### **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.



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### **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.

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### **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.

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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.

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### **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.

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### **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.

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## **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.

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### **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.



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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.

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### **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.

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### **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.

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### **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.

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### **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.



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## **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.

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### **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.

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### **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.

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## **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.

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### **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.

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### **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.

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### **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).



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### **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.

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### **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.

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### **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.

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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.

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### **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.

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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.

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### **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.

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### **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).

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### **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.

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### **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.

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### **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.

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### **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

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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.

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### **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.

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### **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.

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### **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).

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### **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.

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### **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.

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### **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**

This industry comprises establishments primarily engaged in manufacturing and/or assembling electronic computers, such as mainframes, personal computers, workstations, laptops, and computer servers; and computer peripheral equipment, such as storage devices, printers, monitors, input/output devices and terminals. Computers can be analog, digital, or hybrid. Digital computers, the most common type, are devices that do all of the following:

1. store the processing program or programs and the data immediately necessary for the execution of the program;
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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.



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### **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.

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### **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.

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### **334413 SEMICONDUCTOR AND RELATED DEVICE MANUFACTURING**

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

### **334414 ELECTRONIC CAPACITOR MANUFACTURING**

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

### **334415 ELECTRONIC RESISTOR MANUFACTURING**

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

### **334416 ELECTRONIC COIL, TRANSFORMER, AND OTHER INDUCTOR MANUFACTURING**

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

### **334417 ELECTRONIC CONNECTOR MANUFACTURING**

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

### **334418 PRINTED CIRCUIT ASSEMBLY (ELECTRONIC ASSEMBLY) MANUFACTURING**

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

### **334419 OTHER ELECTRONIC COMPONENT MANUFACTURING**

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

### **3345 NAVIGATIONAL, MEASURING, 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.

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### **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.

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### **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

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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.

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### **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.

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### **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.



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### **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.

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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.

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### **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.

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### **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).

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### **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

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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



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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.

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### **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).

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### **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.

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### **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

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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).

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### **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.

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### **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

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### 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

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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

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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/](http://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](http://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.

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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

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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

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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.

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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](http://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

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### CALIFORNIA

**Aliso Viejo** incorporated in July 2001. This change deletes territory from the Balance of Orange County.

**Citrus Heights** incorporated in January 1997. This change deletes territory from the Balance of Sacramento County.

**Elk Grove** incorporated in July 2000. This change deletes territory from the Balance of Sacramento County.

**Goleta** incorporated in October 2001. This change deletes territory from the Balance of Santa Barbara County.

**Industry** does not qualify as a place for the economic census based on its 2002 population, but is included because of its dense concentration of economic activity.

**Laguna Woods** incorporated in March 1999. This change deletes territory from the Balance of Orange County.

**Moraga** name corrected from Moraga Town in April 2000.

**Oakley** incorporated in July 1999. This change deletes territory from the Balance of Contra Costa County.

**Rancho Santa Margarita** incorporated in January 2000. This change deletes territory from the Balance of Orange County.

**Vernon** does not qualify as a place for the economic census based on its 2002 population, but is included because of its dense concentration of economic activity.

**Balance of Contra Costa County** lost territory due to the incorporation of Oakley.

**Balance of Orange County** lost territory due to the incorporations of Aliso Viejo, Laguna Woods, and Rancho Santa Margarita.

**Balance of Sacramento County** lost territory due to the incorporations of Citrus Heights and Elk Grove.

**Balance of Santa Barbara County** lost territory due to the incorporation of Goleta.



# Appendix E.

## Metropolitan and Micropolitan Statistical Areas

### **FRESNO-MADERA, CA COMBINED STATISTICAL AREA**

#### **Fresno, CA Metropolitan Statistical Area**

Fresno County, CA

#### **Madera, CA Metropolitan Statistical Area**

Madera County, CA

### **LOS ANGELES-LONG BEACH-RIVERSIDE, CA COMBINED STATISTICAL AREA**

#### **Los Angeles-Long Beach-Santa Ana, CA Metropolitan Statistical Area**

#### ***Los Angeles-Long Beach-Glendale, CA Metropolitan Division***

Los Angeles County, CA

#### ***Santa Ana-Anaheim-Irvine, CA Metropolitan Division***

Orange County, CA

#### **Oxnard-Thousand Oaks-Ventura, CA Metropolitan Statistical Area**

Ventura County, CA

#### **Riverside-San Bernardino-Ontario, CA Metropolitan Statistical Area**

Riverside County, CA

San Bernardino County, CA

### **SACRAMENTO--ARDEN-ARCADE--TRUCKEE, CA-NV COMBINED STATISTICAL AREA**

#### **Gardnerville Ranchos, NV Micropolitan Statistical Area**

Douglas County, NV

#### **Sacramento--Arden-Arcade--Roseville, CA Metropolitan Statistical Area**

El Dorado County, CA

Placer County, CA

Sacramento County, CA

Yolo County, CA

#### **Truckee-Grass Valley, CA Micropolitan Statistical Area**

Nevada County, CA

### **SAN JOSE-SAN FRANCISCO-OAKLAND, CA COMBINED STATISTICAL AREA**

#### **Napa, CA Metropolitan Statistical Area**

Napa County, CA

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**San Francisco-Oakland-Fremont, CA Metropolitan Statistical Area**

***Oakland-Fremont-Hayward, CA Metropolitan Division***

Alameda County, CA

Contra Costa County, CA

***San Francisco-San Mateo-Redwood City, CA Metropolitan Division***

Marin County, CA

San Francisco County, CA

San Mateo County, CA

**San Jose-Sunnyvale-Santa Clara, CA Metropolitan Statistical Area**

San Benito County, CA

Santa Clara County, CA

**Santa Cruz-Watsonville, CA Metropolitan Statistical Area**

Santa Cruz County, CA

**Santa Rosa-Petaluma, CA Metropolitan Statistical Area**

Sonoma County, CA

**Vallejo-Fairfield, CA Metropolitan Statistical Area**

Solano County, CA

**BAKERSFIELD, CA METROPOLITAN STATISTICAL AREA**

Kern County, CA

**BISHOP, CA MICROPOLITAN STATISTICAL AREA**

Inyo County, CA

**CHICO, CA METROPOLITAN STATISTICAL AREA**

Butte County, CA

**CLEARLAKE, CA MICROPOLITAN STATISTICAL AREA**

Lake County, CA

**CRESCENT CITY NORTH, CA MICROPOLITAN STATISTICAL AREA**

Del Norte County, CA

**EL CENTRO, CA METROPOLITAN STATISTICAL AREA**

Imperial County, CA

**EUREKA-ARCATA-FORTUNA, CA MICROPOLITAN STATISTICAL AREA**

Humboldt County, CA

**HANFORD-CORCORAN, CA METROPOLITAN STATISTICAL AREA**

Kings County, CA

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**MERCED, CA METROPOLITAN STATISTICAL AREA**

Merced County, CA

**MODESTO, CA METROPOLITAN STATISTICAL AREA**

Stanislaus County, CA

**PHOENIX LAKE-CEDAR RIDGE, CA MICROPOLITAN STATISTICAL AREA**

Tuolumne County, CA

**RED BLUFF, CA MICROPOLITAN STATISTICAL AREA**

Tehama County, CA

**REDDING, CA METROPOLITAN STATISTICAL AREA**

Shasta County, CA

**SALINAS, CA METROPOLITAN STATISTICAL AREA**

Monterey County, CA

**SAN DIEGO-CARLSBAD-SAN MARCOS, CA METROPOLITAN STATISTICAL AREA**

San Diego County, CA

**SAN LUIS OBISPO-PASO ROBLES, CA METROPOLITAN STATISTICAL AREA**

San Luis Obispo County, CA

**SANTA BARBARA-SANTA MARIA-GOLETA, CA METROPOLITAN STATISTICAL AREA**

Santa Barbara County, CA

**STOCKTON, CA METROPOLITAN STATISTICAL AREA**

San Joaquin County, CA

**UKIAH, CA MICROPOLITAN STATISTICAL AREA**

Mendocino County, CA

**VISALIA-PORTERVILLE, CA METROPOLITAN STATISTICAL AREA**

Tulare County, CA

**YUBA CITY-MARYSVILLE, CA METROPOLITAN STATISTICAL AREA**

Sutter County, CA

Yuba County, CA

