

California

1997

Issued April 2000

EC97M31A-CA

1997 Economic Census

Manufacturing

Geographic Area Series



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ACKNOWLEDGMENTS

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

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

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

coordination of the publication process.

Kim Credito, **Patrick Duck**, **Chip Murph**, **Wanda Sledd**, and **Veronica White** provided primary staff assistance.

The Economic Planning and Coordination Division, **Lawrence A. Blum**, Assistant Chief for Collection Activities and **Shirin A. Ahmed**, Assistant Chief for Post-Collection Processing, assisted by **Dennis Shoemaker**, Chief, Post-Collection Census Processing Branch, **Brandy Yarbrough**, Section Chief, **Sheila Proudfoot**, **Richard Williamson**, **Keith Fuller**, **Andrew W. Hait**, and **Jennifer E. Lins**, was responsible for developing the systems and procedures for data collection, editing, review, correction, and dissemination.

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

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

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

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

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

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Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

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

ALL-NEW INDUSTRY CLASSIFICATIONS

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

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

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

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

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

RELATIONSHIP TO SIC

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

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

GEOGRAPHIC AREA CODING

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

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

BASIS OF REPORTING

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

DOLLAR VALUES

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

All dollar values are shown in thousands of dollars.

AVAILABILITY OF ADDITIONAL DATA

Reports in Print and Electronic Media

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

Special Tabulations

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

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

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

HISTORICAL INFORMATION

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

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

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

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

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

SOURCES FOR MORE INFORMATION

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

ABBREVIATIONS AND SYMBOLS

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

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

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

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Manufacturing

SCOPE

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

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

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

GENERAL

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

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

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

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

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

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

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

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

GEOGRAPHIC AREAS COVERED

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

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

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

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

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

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

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

COMPARABILITY OF THE 1992 AND 1997 CENSUSES

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

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

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

DISCLOSURE

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

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

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

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

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

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

Table 1. Industry Statistics for the State: 1997

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

NAICS code	Geographic area and industry	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
CALIFORNIA													
31-33	Manufacturing	1	49 418	15 266	1 809 667	65 762 848	1 181 865	2 317 867	31 140 024	195 872 810	184 701 629	379 612 443	16 422 155
311	Food mfg	1	3 499	1 159	154 473	4 250 032	115 828	226 561	2 695 012	16 831 145	23 235 276	39 975 134	1 125 583
3111	Animal food mfg	1	122	43	3 915	143 824	2 418	5 371	81 929	764 309	1 842 540	2 594 723	44 072
31111	Animal food mfg	1	122	43	3 915	143 824	2 418	5 371	81 929	764 309	1 842 540	2 594 723	44 072
311111	Dog & cat food mfg	-	19	9	1 668	63 501	1 121	2 533	44 382	491 220	440 970	920 139	23 577
311119	Other animal food mfg	1	103	34	2 247	80 323	1 297	2 838	37 547	273 089	1 401 570	1 674 584	20 495
3112	Grain & oilseed milling	1	96	49	4 208	163 285	3 066	6 609	108 368	1 052 889	1 732 349	2 792 834	74 047
31121	Flour milling & malt mfg	-	55	28	2 058	76 515	1 468	3 000	47 202	375 895	915 408	1 304 568	34 015
311211	Flour milling	-	33	14	757	28 672	507	1 074	17 374	188 626	471 201	664 391	16 511
311212	Rice milling	-	20	13	g	D	D	D	D	D	D	D	D
311213	Malt mfg	-	2	1	c	D	D	D	D	D	D	D	D
31122	Starch & vegetable fats & oils mfg	2	32	17	g	D	D	D	D	D	D	D	D
311222	Soybean processing	-	3	3	c	D	D	D	D	D	D	D	D
311223	Other oilseed processing	4	5	2	c	D	D	D	D	D	D	D	D
311225	Fats & oils refining & blending	1	23	11	996	36 370	709	1 389	24 168	152 746	500 505	642 567	14 211
31123	Breakfast cereal mfg	-	9	4	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg	-	9	4	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg	1	201	52	8 899	281 884	6 974	13 674	193 223	1 112 440	1 311 806	2 422 443	84 478
31131	Sugar mfg	-	11	8	g	D	D	D	D	D	D	D	D
311312	Cane sugar refining	-	2	1	f	D	D	D	D	D	D	D	D
311313	Beet sugar mfg	-	7	7	g	D	D	D	D	D	D	D	D
31132	Chocolate & confectionery mfg from cacao beans	3	21	6	1 929	72 137	1 527	3 193	51 989	416 572	319 242	730 827	27 933
311320	Chocolate & confectionery mfg from cacao beans	3	21	6	1 929	72 137	1 527	3 193	51 989	416 572	319 242	730 827	27 933
31133	Confectionery mfg from purchased chocolate	1	88	22	3 138	87 920	2 522	4 451	56 149	314 047	249 513	559 319	26 116
311330	Confectionery mfg from purchased chocolate	1	88	22	3 138	87 920	2 522	4 451	56 149	314 047	249 513	559 319	26 116
31134	Nonchocolate confectionery mfg	-	81	16	g	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg	-	81	16	g	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	1	329	216	43 799	1 121 392	36 942	73 127	824 007	4 498 672	4 992 509	9 514 062	325 014
31141	Frozen food mfg	3	112	68	15 043	293 662	12 269	23 170	199 055	988 680	995 000	2 002 767	85 151
311411	Frozen fruit, juice, & vegetable mfg	4	45	32	8 182	146 128	6 848	12 891	107 442	503 956	577 413	1 100 911	43 701
311412	Frozen specialty food mfg	2	67	36	6 861	147 534	5 421	10 279	91 613	484 724	417 587	901 856	41 450
31142	Fruit & vegetable canning, pickling, & drying	1	217	148	28 756	827 730	24 673	49 957	624 952	3 509 992	3 997 509	7 511 295	239 863
311421	Fruit & vegetable canning	1	142	95	17 278	516 295	15 014	30 421	407 184	2 111 387	2 528 274	4 638 512	137 339
311422	Specialty canning	1	17	7	4 542	119 097	4 016	8 547	92 879	734 287	382 375	1 118 129	34 741
311423	Dried & dehydrated food mfg	1	58	46	6 936	192 338	5 643	10 989	124 889	664 318	1 086 860	1 754 654	67 783
3115	Dairy product mfg	1	203	107	12 935	473 664	8 750	18 369	288 112	1 817 924	5 584 488	7 377 576	158 581
31151	Dairy product (except frozen) mfg	1	138	87	10 825	393 807	7 118	14 753	228 687	1 559 064	5 131 027	6 661 380	135 421
311511	Fluid milk mfg	1	60	40	5 844	229 532	3 399	6 635	114 003	907 160	2 142 584	3 044 138	49 083
311512	Creamery butter mfg	4	2	2	e	D	D	D	D	D	D	D	D
311513	Cheese mfg	2	47	30	3 215	97 702	2 499	5 432	71 825	406 330	1 500 307	1 897 956	60 591
311514	Dry, condensed, & evaporated dairy product mfg	-	29	15	g	D	D	D	D	D	D	D	D
31152	Ice cream & frozen dessert mfg	2	65	20	2 110	79 857	1 632	3 616	59 425	258 860	453 461	716 196	23 160
311520	Ice cream & frozen dessert mfg	2	65	20	2 110	79 857	1 632	3 616	59 425	258 860	453 461	716 196	23 160
3116	Meat product mfg	2	250	120	17 520	401 758	14 691	28 080	286 867	1 427 277	2 810 420	4 223 511	75 373
31161	Animal slaughtering & processing	2	250	120	17 520	401 758	14 691	28 080	286 867	1 427 277	2 810 420	4 223 511	75 373
311611	Animal (except poultry) slaughtering	4	77	27	4 300	103 370	3 576	6 892	75 768	306 501	1 265 265	1 571 460	11 650
311612	Meat processed from carcasses	3	123	60	4 779	128 266	3 793	7 127	81 426	466 805	687 633	1 147 254	31 748
311613	Rendering & meat byproduct processing	-	21	14	770	28 121	407	704	10 508	76 848	100 910	178 189	8 160
311615	Poultry processing	-	29	19	7 671	142 001	6 915	13 357	119 165	577 123	756 612	1 326 608	23 815
3117	Seafood product preparation & packaging	1	76	32	3 561	68 377	3 025	4 915	47 720	176 585	415 971	590 995	12 155
31171	Seafood product preparation & packaging	1	76	32	3 561	68 377	3 025	4 915	47 720	176 585	415 971	590 995	12 155
311711	Seafood canning	-	15	5	1 059	22 183	889	1 517	15 592	50 684	114 348	164 629	5 092
311712	Fresh & frozen seafood processing	2	61	27	2 502	46 194	2 136	3 398	32 128	125 901	301 623	426 366	7 063

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CALIFORNIA—Con. Manufacturing—Con.												
311	Food mfg—Con.												
3118	Bakeries & tortilla mfg	2	1 725	330	37 314	957 246	23 302	41 844	482 413	2 773 241	1 646 870	4 412 630	153 622
31181	Bread & bakery product mfg	3	1 527	249	28 728	742 906	17 074	30 099	356 752	1 958 652	1 077 123	3 033 070	103 813
311811	Retail bakeries	5	1 109	59	6 331	83 841	4 123	5 178	44 067	189 529	111 719	301 615	10 222
311812	Commercial bakeries	3	385	169	20 375	613 745	11 277	21 609	282 631	1 644 642	823 275	2 467 079	83 066
311813	Frozen cakes, pies, & other pastries mfg	—	33	21	2 022	45 320	1 674	3 312	30 054	124 481	142 129	264 376	10 525
31182	Cookie, cracker, & pasta mfg	1	140	42	4 328	132 540	2 998	5 344	70 510	565 615	379 170	939 398	31 345
311821	Cookie & cracker mfg	1	67	25	2 889	90 784	1 891	3 209	42 182	364 973	189 890	554 356	21 497
311822	Flour mixes & dough mfg from purchased flour	2	26	12	863	24 136	697	1 284	16 202	92 236	132 139	221 656	6 387
311823	Dry pasta mfg	1	47	5	576	17 620	410	851	12 126	108 406	57 141	163 386	3 461
31183	Tortilla mfg	1	58	39	4 258	81 800	3 230	6 401	55 151	248 974	190 577	440 162	18 464
311830	Tortilla mfg	1	58	39	4 258	81 800	3 230	6 401	55 151	248 974	190 577	440 162	18 464
3119	Other food mfg	1	497	210	22 322	638 602	16 660	34 572	382 373	3 207 808	2 898 323	6 046 360	198 241
31191	Snack food mfg	—	76	44	7 154	199 818	5 467	11 921	124 035	1 139 198	1 173 725	2 283 703	70 384
311911	Roasted nuts & peanut butter mfg	—	33	21	3 820	93 505	2 856	6 452	59 136	584 572	742 562	1 298 216	31 895
311919	Other snack food mfg	—	43	23	3 334	106 313	2 611	5 469	64 899	554 626	431 163	985 487	38 489
31192	Coffee & tea mfg	—	44	21	1 640	59 990	1 057	2 249	38 407	389 972	426 199	811 963	24 270
311920	Coffee & tea mfg	—	44	21	1 640	59 990	1 057	2 249	38 407	389 972	426 199	811 963	24 270
31193	Flavoring syrup & concentrate mfg	1	28	12	1 068	36 799	645	1 271	17 992	447 371	197 845	624 155	8 913
311930	Flavoring syrup & concentrate mfg	1	28	12	1 068	36 799	645	1 271	17 992	447 371	197 845	624 155	8 913
31194	Seasoning & dressing mfg	1	103	36	3 076	101 178	2 215	4 410	62 438	446 205	433 670	876 968	16 112
311941	Mayonnaise, dressing, & other prepared sauce mfg	2	59	20	1 724	54 835	1 346	2 646	37 871	192 196	228 324	420 270	12 148
311942	Spice & extract mfg	—	44	16	1 352	46 343	869	1 764	24 567	254 009	205 346	456 698	3 964
31199	All other food mfg	1	246	97	9 384	240 817	7 276	14 721	139 501	785 062	666 884	1 449 571	78 562
311991	Perishable prepared food mfg	—	92	46	5 488	125 861	4 566	9 676	80 128	411 664	311 873	709 460	43 210
311999	All other miscellaneous food mfg	2	154	51	3 896	114 956	2 710	5 045	59 373	373 398	355 011	740 111	35 352
312	Beverage & tobacco product mfg	1	590	236	28 096	1 027 150	13 898	27 088	460 153	5 546 106	6 259 011	11 204 637	568 586
3121	Beverage mfg	1	588	236	k	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	2	126	66	i	D	D	D	D	D	D	D	85 133
312111	Soft drink mfg	2	57	39	7 616	219 563	3 132	6 537	93 423	1 151 744	1 823 239	2 967 438	68 590
312112	Bottled water mfg	2	30	15	1 207	36 262	595	1 146	20 883	99 652	107 930	207 919	12 906
312113	Ice mfg	3	39	12	f	D	D	D	D	D	D	D	3 637
31212	Breweries	—	66	29	3 642	169 185	2 565	4 772	121 552	1 303 861	876 473	2 176 631	170 295
312120	Breweries	—	66	29	3 642	169 185	2 565	4 772	121 552	1 303 861	876 473	2 176 631	170 295
31213	Wineries	1	391	140	14 867	578 476	7 085	13 588	210 154	2 794 171	3 351 052	5 555 049	311 965
312130	Wineries	1	391	140	14 867	578 476	7 085	13 588	210 154	2 794 171	3 351 052	5 555 049	311 965
31214	Distilleries	—	5	1	c	D	D	D	D	D	D	D	D
312140	Distilleries	—	5	1	c	D	D	D	D	D	D	D	D
313	Textile mills	3	461	126	11 861	283 883	9 837	19 851	187 622	643 347	742 448	1 384 399	73 802
3131	Fiber, yarn, & thread mills	4	30	10	869	15 975	769	1 607	13 043	37 719	74 974	112 364	10 617
31311	Fiber, yarn, & thread mills	4	30	10	869	15 975	769	1 607	13 043	37 719	74 974	112 364	10 617
313111	Yarn spinning mills	7	18	5	488	8 752	426	931	6 974	25 017	29 501	54 495	8 164
313112	Yarn texturing, throwing, & twisting mills	1	4	3	252	5 214	227	479	4 500	8 260	27 465	35 419	1 746
313113	Thread mills	2	8	2	129	2 009	116	197	1 569	4 442	18 008	22 450	707
3132	Fabric mills	3	175	44	5 107	111 336	4 356	8 336	75 484	229 339	250 373	480 224	22 610
31321	Broadwoven fabric mills	5	82	11	1 463	27 433	1 353	2 154	23 152	52 492	65 827	119 261	4 145
313210	Broadwoven fabric mills	5	82	11	1 463	27 433	1 353	2 154	23 152	52 492	65 827	119 261	4 145
31322	Narrow fabric mills & schiffli machine embroidery	1	51	13	1 504	29 629	1 305	2 750	21 908	70 548	31 465	101 795	7 029
313221	Narrow fabric mills	1	22	6	737	16 019	620	1 324	11 830	44 186	20 772	64 789	6 297
313222	Schiffli machine embroidery	1	29	7	767	13 610	685	1 426	10 078	26 362	10 693	37 006	732
31323	Nonwoven fabric mills	6	7	2	121	1 833	97	174	1 293	5 150	6 728	11 850	731
313230	Nonwoven fabric mills	6	7	2	121	1 833	97	174	1 293	5 150	6 728	11 850	731
31324	Knit fabric mills	2	35	18	2 019	52 441	1 601	3 258	29 131	101 149	146 353	247 318	10 705
313241	Weft knit fabric mills	2	26	15	1 908	50 061	1 508	3 071	27 405	95 307	138 860	233 866	10 397
313249	Other knit fabric & lace mills	1	9	3	111	2 380	93	187	1 726	5 842	7 493	13 452	308

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CALIFORNIA—Con. Manufacturing—Con.												
313	Textile mills—Con.												
3133	Textile & fabric finishing & fabric coating mills	3	256	72	5 885	156 572	4 712	9 908	99 095	376 289	417 101	791 811	40 575
31331	Textile & fabric finishing mills	2	224	62	5 116	128 747	4 166	8 717	83 654	319 230	306 838	619 053	34 523
313311	Broadwoven fabric finishing mills	2	173	43	3 159	79 778	2 506	5 115	47 828	214 091	202 416	413 711	20 522
313312	Textile & fabric finishing mills	2	51	19	1 957	48 969	1 660	3 602	35 826	105 139	104 422	205 342	14 001
31332	Fabric coating mills	3	32	10	769	27 825	546	1 191	15 441	57 059	110 263	172 758	6 052
313320	Fabric coating mills	3	32	10	769	27 825	546	1 191	15 441	57 059	110 263	172 758	6 052
314	Textile product mills	2	1 074	244	22 648	457 241	17 893	34 683	277 240	1 022 506	1 262 064	2 270 903	49 280
3141	Textile furnishings mills	2	433	89	10 622	238 529	8 260	15 738	139 918	587 283	851 865	1 430 259	23 838
31411	Carpet & rug mills	2	36	18	3 629	112 173	2 509	5 347	55 062	312 232	462 165	776 600	15 122
314110	Carpet & rug mills	2	36	18	3 629	112 173	2 509	5 347	55 062	312 232	462 165	776 600	15 122
31412	Curtain & linen mills	2	397	71	6 993	126 356	5 751	10 391	84 856	275 051	389 700	653 659	8 716
314121	Curtain & drapery mills	3	274	19	1 867	32 713	1 326	2 289	17 610	58 857	52 106	111 210	1 765
314129	Other household textile product mills	2	123	52	5 126	93 643	4 425	8 102	67 246	216 194	337 594	542 449	6 951
3149	Other textile product mills	3	641	155	12 026	218 712	9 633	18 945	137 322	435 223	410 199	840 644	25 442
31491	Textile bag & canvas mills	4	273	42	4 211	80 870	3 349	5 587	44 039	150 454	137 985	282 437	6 837
314911	Textile bag mills	2	65	20	2 138	34 318	1 823	2 923	17 859	56 483	62 521	115 366	1 544
314912	Canvas & related product mills	5	208	22	2 073	46 552	1 526	2 664	26 180	93 971	75 464	167 071	5 293
31499	All other textile product mills	3	368	113	7 815	137 842	6 284	13 358	93 283	284 769	272 214	558 207	18 605
314991	Rope, cordage, & twine mills	4	16	5	210	5 111	174	336	3 498	10 345	9 428	20 477	465
314999	All other miscellaneous textile product mills	3	352	108	7 605	132 731	6 110	13 022	89 785	274 424	262 786	537 730	18 140
315	Apparel mfg	2	5 112	1 637	130 120	2 259 516	109 323	187 087	1 498 863	6 161 492	6 728 192	12 776 139	226 441
3151	Apparel knitting mills	1	119	56	5 117	88 704	4 362	8 917	63 530	211 930	242 132	456 634	17 225
31511	Hosiery & sock mills	1	17	4	537	7 162	440	739	5 193	29 584	50 823	79 377	1 589
315111	Sheer hosiery mills	8	8	1	c	D	D	D	D	D	D	D	190
315119	Other hosiery & sock mills	-	9	3	e	D	D	D	D	D	D	D	1 409
31519	Other apparel knitting mills	1	102	52	4 580	81 542	3 922	8 178	58 337	182 346	191 309	377 257	15 626
315191	Outerwear knitting mills	1	97	51	4 516	80 696	3 859	8 087	57 588	180 935	190 898	375 437	15 607
3152	Cut & sew apparel mfg	2	4 614	1 498	117 341	2 019 926	98 798	167 760	1 346 080	5 602 355	6 194 077	11 684 740	194 299
31521	Cut & sew apparel contractors	5	3 094	869	58 459	663 432	54 569	85 703	578 640	1 143 195	311 703	1 442 608	42 031
315211	Men's & boys' cut & sew apparel contractors	2	157	90	6 026	78 399	5 604	9 887	67 136	149 414	24 683	173 917	4 212
315212	Women's, girls', & infants' cut & sew apparel contractors	5	2 937	779	52 433	585 033	48 965	75 816	511 504	993 781	287 020	1 268 691	37 819
31522	Men's & boys' cut & sew apparel mfg	1	338	163	16 211	318 453	13 635	26 137	213 676	1 388 541	1 754 879	3 107 500	30 907
315221	Men's & boys' cut & sew underwear & nightwear mfg	3	9	3	207	2 931	189	304	2 209	4 201	2 857	6 662	40
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	6	32	11	713	17 253	533	881	12 075	33 596	16 350	49 598	739
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	2	123	66	5 826	113 204	4 705	8 999	72 583	293 555	387 801	675 360	13 409
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	-	55	34	5 014	93 369	4 505	8 395	69 443	804 202	1 113 801	1 898 188	4 280
315225	Men's & boys' cut & sew work clothing mfg	2	25	9	1 120	18 521	1 005	2 067	13 900	46 865	46 025	91 251	858
315228	Men's & boys' cut & sew other outerwear mfg	3	94	40	3 331	73 175	2 698	5 491	43 466	206 122	188 045	386 441	11 581
31523	Women's & girls' cut & sew apparel mfg	1	1 070	434	40 323	992 764	28 720	52 372	523 798	2 960 637	4 044 579	6 942 053	117 607
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	2	44	22	1 627	36 267	1 192	2 269	20 145	84 405	129 875	211 763	1 861
315232	Women's & girls' cut & sew blouse & shirt mfg	2	332	135	11 445	283 426	8 356	13 632	143 247	795 888	1 206 647	1 971 062	14 705
315233	Women's & girls' cut & sew dress mfg	1	288	119	11 011	306 719	7 623	14 721	162 297	837 563	1 227 219	2 053 383	23 720
315234	Women's & girls' cut & sew suit, coat, skirt mfg	1	93	33	2 265	52 024	1 610	2 695	28 513	154 526	186 573	336 439	1 750
315239	Women's & girls' cut & sew other outerwear mfg	1	313	125	13 975	314 328	9 939	19 055	169 596	1 088 255	1 294 265	2 369 406	75 571

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CALIFORNIA—Con.												
	Manufacturing—Con.												
315	Apparel mfg—Con.												
3152	Cut & sew apparel mfg—Con.												
31529	Other cut & sew apparel mfg	4	112	32	2 348	45 277	1 874	3 548	29 966	109 982	82 916	192 579	3 754
315291	Infants' cut & sew apparel mfg	7	8	3	267	4 822	255	568	4 267	7 104	6 779	13 933	140
315292	Fur & leather apparel mfg	5	32	5	447	10 332	377	714	7 175	26 268	16 288	42 346	1 034
315299	All other cut & sew apparel mfg	4	72	24	1 634	30 123	1 242	2 266	18 524	76 610	59 849	136 300	2 580
3159	Apparel accessories & other apparel mfg	2	379	83	7 662	150 886	6 163	10 410	89 253	347 207	291 983	634 765	14 917
31599	Apparel accessories & other apparel mfg	2	379	83	7 662	150 886	6 163	10 410	89 253	347 207	291 983	634 765	14 917
315991	Hat, cap, & millinery mfg	3	54	16	1 342	24 204	1 103	1 968	14 541	41 481	23 337	64 478	2 201
315993	Men's & boys' neckwear mfg	2	17	6	1 119	23 776	967	1 659	16 093	87 623	69 324	153 966	1 118
315999	Other apparel accessories & other apparel mfg	2	303	60	5 135	101 882	4 032	6 668	57 689	216 775	195 745	411 370	11 560
316	Leather & allied product mfg .	2	234	73	7 528	143 894	6 185	11 868	94 631	341 532	289 436	633 780	10 476
3161	Leather & hide tanning & finishing	3	29	4	435	12 078	348	703	8 919	23 714	50 274	75 320	1 567
31611	Leather & hide tanning & finishing	3	29	4	435	12 078	348	703	8 919	23 714	50 274	75 320	1 567
316110	Leather & hide tanning & finishing	3	29	4	435	12 078	348	703	8 919	23 714	50 274	75 320	1 567
3162	Footwear mfg	1	66	25	2 107	35 853	1 887	3 648	26 023	98 332	65 341	166 082	1 960
31621	Footwear mfg	1	66	25	2 107	35 853	1 887	3 648	26 023	98 332	65 341	166 082	1 960
316211	Rubber & plastics footwear mfg	—	6	4	474	7 006	456	1 118	6 357	17 124	17 436	35 830	515
316213	Men's footwear (except athletic) mfg .	1	14	5	267	8 507	177	309	3 872	39 123	23 150	63 838	684
316214	Women's footwear (except athletic) mfg .	2	27	11	979	14 547	893	1 691	11 296	30 654	17 835	48 702	D
316219	Other footwear mfg ...	1	18	5	e	D	D	D	D	D	D	D	392
3169	Other leather & allied product mfg	2	139	44	4 986	95 963	3 950	7 517	59 689	219 486	173 821	392 378	6 949
31699	Other leather & allied product mfg	2	139	44	4 986	95 963	3 950	7 517	59 689	219 486	173 821	392 378	6 949
316991	Luggage mfg	4	41	18	1 648	36 190	1 246	2 397	20 235	97 262	75 078	169 403	2 847
316992	Women's handbag & purse mfg	6	18	4	283	4 650	252	506	3 750	9 232	7 891	17 068	134
316993	Personal leather good (except women's handbag & purse) mfg	—	32	8	1 080	20 236	914	1 792	13 489	40 043	26 713	66 816	1 258
316999	All other leather good mfg	1	48	14	1 975	34 887	1 538	2 822	22 215	72 949	64 139	139 091	2 710
321	Wood product mfg	1	1 184	413	38 848	1 005 754	32 304	65 078	741 471	2 464 626	3 724 183	6 169 050	140 029
3211	Sawmills & wood preservation	1	112	52	8 191	273 647	7 110	15 610	224 709	782 203	1 283 612	2 067 497	57 012
32111	Sawmills & wood preservation	1	112	52	8 191	273 647	7 110	15 610	224 709	782 203	1 283 612	2 067 497	57 012
321113	Sawmills	1	96	47	7 949	266 891	6 915	15 204	219 977	761 404	1 238 023	1 998 574	54 282
321114	Wood preservation ...	3	16	5	242	6 756	195	406	4 732	20 799	45 589	68 923	2 730
3212	Veneer, plywood, & engineered wood product mfg	1	132	61	5 335	144 244	4 324	9 000	102 760	354 128	469 064	819 537	20 903
32121	Veneer, plywood, & engineered wood product mfg	1	132	61	5 335	144 244	4 324	9 000	102 760	354 128	469 064	819 537	20 903
321211	Hardwood veneer & plywood mfg	2	15	7	e	D	D	D	D	D	D	D	1 278
321212	Softwood veneer & plywood mfg	2	7	2	266	8 351	244	510	7 430	27 651	41 904	69 911	D
321213	Engineered wood member (except truss) mfg	—	2	2	e	D	D	D	D	D	D	D	D
321214	Truss mfg	1	85	34	2 737	63 930	2 119	4 178	41 111	129 948	164 268	293 383	6 951
321219	Reconstituted wood product mfg	—	23	16	1 534	51 586	1 307	2 878	38 873	149 871	188 810	336 567	11 270
3219	Other wood product mfg ...	2	940	300	25 322	587 863	20 870	40 468	414 002	1 328 295	1 971 507	3 282 016	62 114
32191	Millwork	1	418	135	11 280	265 164	9 314	18 342	192 968	582 034	1 025 955	1 599 727	30 360
321911	Wood window & door mfg	3	179	45	4 051	98 915	3 173	6 424	68 354	215 728	278 642	494 836	13 977
321912	Cut stock, resawing lumber, & planing....	1	88	40	2 755	61 084	2 448	4 728	48 131	151 001	333 388	485 798	10 895
321918	Other millwork (including flooring) ...	—	151	50	4 474	105 165	3 693	7 190	76 483	215 305	413 925	619 093	5 488
32192	Wood container & pallet mfg	2	261	87	5 305	101 463	4 478	8 295	69 577	244 544	307 024	549 784	11 403
321920	Wood container & pallet mfg	2	261	87	5 305	101 463	4 478	8 295	69 577	244 544	307 024	549 784	11 403

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	Manufacturing—Con.												
321	Wood product mfg—Con.												
3219	Other wood product mfg—Con.												
32199	All other wood product mfg	1	261	78	8 737	221 236	7 078	13 831	151 457	501 717	638 528	1 132 505	20 351
321991	Manufactured home (mobile home) mfg ..	—	16	15	2 779	78 178	2 434	4 737	54 488	175 649	226 616	403 145	2 471
321992	Prefabricated wood building mfg	6	37	11	1 311	30 602	969	1 913	20 671	75 897	106 440	183 320	2 722
321999	All other miscellaneous wood product mfg ...	1	208	52	4 647	112 456	3 675	7 181	76 298	250 171	305 472	546 040	15 158
322	Paper mfg	1	579	345	34 697	1 266 007	25 951	54 341	824 372	3 380 480	4 795 607	8 167 467	259 310
3221	Pulp, paper, & paperboard mills	—	25	24	3 893	198 209	2 917	6 320	137 034	619 437	871 125	1 472 635	49 483
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	—	9	8	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	8	7	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	15	1 640	82 880	1 226	2 784	55 114	264 608	416 374	682 293	24 570
322130	Paperboard mills	—	15	15	1 640	82 880	1 226	2 784	55 114	264 608	416 374	682 293	24 570
3222	Converted paper product mfg	1	554	321	30 804	1 067 798	23 034	48 021	687 338	2 761 043	3 924 482	6 694 832	209 827
32221	Paperboard container mfg	—	264	186	19 003	705 724	14 323	30 611	450 468	1 552 208	2 630 544	4 186 820	130 722
322211	Corrugated & solid fiber box mfg	1	169	124	13 228	508 770	9 753	20 925	319 809	1 070 521	2 122 817	3 197 340	102 240
322212	Folding paperboard box mfg	—	55	39	3 941	150 159	3 068	6 704	97 659	341 246	341 755	682 964	20 875
322213	Setup paperboard box mfg	—	8	6	510	9 588	445	831	6 700	19 529	11 129	29 987	1 060
322214	Fiber can, tube, drum, & similar products mfg	—	20	11	608	19 193	499	968	13 231	54 275	58 722	112 706	1 963
322215	Nonfolding sanitary food container mfg ...	—	12	6	716	18 014	558	1 183	13 069	66 637	96 121	163 823	4 584
32222	Paper bag & coated & treated paper mfg	1	89	41	3 674	121 725	2 318	4 767	65 179	301 879	441 251	746 773	26 472
322221	Coated & laminated packaging paper & plastics film mfg	4	11	1	c	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	1	61	28	2 384	79 659	1 327	2 555	37 235	190 370	267 692	461 369	20 802
322223	Plastics, foil, & coated paper bag mfg	1	3	2	206	5 699	141	323	3 161	11 529	15 438	27 153	1 044
322224	Uncoated paper & multiwall bag mfg	—	7	5	540	15 510	447	974	10 971	40 392	67 739	107 276	1 761
322225	Laminated aluminum foil mfg for flexible packaging uses	—	5	4	357	15 192	262	577	10 150	43 719	60 821	105 668	2 256
32223	Stationery product mfg ..	2	114	48	4 390	130 142	3 362	6 908	89 746	328 444	332 872	663 125	15 678
322231	Die-cut paper & paperboard office supplies mfg	3	60	20	1 659	45 001	1 301	2 672	31 264	123 220	256 509	4 258	
322232	Envelope mfg	2	35	21	2 064	67 782	1 600	3 302	47 842	138 570	175 838	313 022	10 636
322233	Stationery, tablet, & related product mfg ..	2	19	7	667	17 359	461	934	10 640	60 790	33 814	93 594	784
32229	Other converted paper product mfg	1	87	46	3 737	110 207	3 031	5 735	81 945	578 512	519 815	1 098 114	36 955
322291	Sanitary paper product mfg	—	14	8	1 178	43 413	976	1 928	34 833	369 771	338 429	706 810	25 615
322299	All other converted paper product mfg ...	2	73	38	2 559	66 794	2 055	3 807	47 112	208 741	181 386	391 304	11 340
323	Printing & related support activities	2	5 441	947	85 830	2 701 462	61 707	117 774	1 643 058	5 935 538	3 952 458	9 897 815	476 188
3231	Printing & related support activities	2	5 441	947	85 830	2 701 462	61 707	117 774	1 643 058	5 935 538	3 952 458	9 897 815	476 188
32311	Printing	2	4 835	825	75 923	2 379 873	54 453	104 045	1 438 385	5 321 714	3 791 879	9 122 267	430 907
323110	Commercial lithographic printing ..	2	2 297	439	39 454	1 389 270	27 807	55 856	844 908	2 997 976	2 102 999	5 111 977	270 333
323111	Commercial gravure printing	5	54	6	949	33 085	773	1 181	26 141	74 006	65 958	139 963	12 909
323112	Commercial flexographic printing ..	—	112	33	3 019	101 025	2 007	4 498	56 193	225 631	214 956	436 115	15 400
323113	Commercial screen printing	2	569	148	12 700	299 679	9 818	17 599	166 134	594 061	478 681	1 072 321	39 916
323114	Quick printing	3	1 146	44	6 185	147 828	4 428	6 914	91 641	325 925	177 935	503 730	22 331
323115	Digital printing	2	49	7	569	16 762	378	605	9 281	36 670	16 227	52 940	6 503
323116	Manifold business form printing	1	116	60	5 426	161 471	3 771	7 258	104 548	523 068	368 669	892 247	25 767
323117	Book printing	2	90	33	2 606	92 187	2 070	3 954	57 152	206 810	117 393	327 461	18 286
323118	Blankbook, looseleaf binder, & device mfg ..	1	31	12	1 596	40 788	1 063	2 086	21 812	151 254	128 740	278 840	7 684
323119	Other commercial printing	4	371	43	3 419	97 778	2 338	4 094	60 575	186 313	120 321	306 673	11 778

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CALIFORNIA—Con. Manufacturing—Con.												
323	Printing & related support activities—Con.												
3231	Printing & related support activities—Con.												
32312	Support activities for printing.....	3	606	122	9 907	321 589	7 254	13 729	204 673	613 824	160 579	775 548	45 281
323121	Tradebinding & related work.....	3	177	50	3 853	80 950	3 308	6 089	61 378	155 981	33 855	189 707	9 805
323122	Prepress services.....	3	429	72	6 054	240 639	3 946	7 640	143 295	457 843	126 724	585 841	35 476
324	Petroleum & coal products mfg.....	2	205	65	12 755	723 948	8 295	18 697	456 571	5 609 880	15 354 642	20 913 779	764 655
3241	Petroleum & coal products mfg.....	2	205	65	12 755	723 948	8 295	18 697	456 571	5 609 880	15 354 642	20 913 779	764 655
32411	Petroleum refineries.....	2	31	26	9 674	589 456	6 149	14 119	369 628	4 999 046	14 356 008	19 296 030	725 370
324110	Petroleum refineries..	2	31	26	9 674	589 456	6 149	14 119	369 628	4 999 046	14 356 008	19 296 030	725 370
32412	Asphalt paving, roofing, & saturated materials mfg.....	3	137	26	2 244	98 266	1 664	3 457	68 210	352 524	684 311	1 040 820	31 848
324121	Asphalt paving mixture & block mfg.....	4	106	10	894	45 383	652	1 309	30 418	145 164	352 454	498 261	18 557
324122	Asphalt shingle & coating materials mfg.....	2	31	16	1 350	52 883	1 012	2 148	37 792	207 360	331 857	542 559	13 291
32419	Other petroleum & coal products mfg.....	2	37	13	837	36 226	482	1 121	18 733	258 310	314 323	576 929	7 437
324191	Petroleum lubricating oil & grease mfg.....	2	32	10	722	30 319	406	959	14 988	187 002	278 183	469 000	D
324199	All other petroleum & coal products mfg.....	1	5	3	115	5 907	76	162	3 745	71 308	36 140	107 929	D
325	Chemical mfg.....	1	1 544	566	63 239	2 734 122	35 190	70 112	1 064 825	11 498 650	8 179 724	19 604 509	975 497
3251	Basic chemical mfg.....	1	168	69	5 795	264 165	3 494	7 415	147 410	1 488 794	1 162 404	2 653 990	133 923
32512	Industrial gas mfg.....	2	50	21	1 201	50 197	633	1 495	24 322	289 660	100 926	394 167	39 051
325120	Industrial gas mfg.....	2	50	21	1 201	50 197	633	1 495	24 322	289 660	100 926	394 167	39 051
32513	Dye & pigment mfg.....	1	14	8	f	D	D	D	D	D	D	D	D
325131	Inorganic dye & pigment mfg.....	1	6	5	656	25 297	354	718	12 411	100 601	71 898	164 290	7 296
325132	Synthetic organic dye & pigment mfg.....	1	8	3	c	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg.....	—	57	22	2 146	97 841	1 405	2 898	58 767	578 133	369 472	965 870	61 449
325188	All other basic inorganic chemical mfg.....	—	54	22	2 114	96 360	1 385	2 859	57 928	570 657	366 068	954 971	D
32519	Other basic organic chemical mfg.....	1	46	18	1 662	85 813	1 017	2 118	49 258	501 916	605 372	1 095 910	25 188
325199	All other basic organic chemical mfg.....	1	38	16	1 537	81 660	924	1 895	46 862	470 491	575 607	1 038 895	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg.....	1	62	38	2 182	96 752	1 358	2 969	50 522	347 657	735 752	1 097 972	40 915
32521	Resin & synthetic rubber mfg.....	1	62	38	2 182	96 752	1 358	2 969	50 522	347 657	735 752	1 097 972	40 915
325211	Plastics material & resin mfg.....	1	48	34	1 804	81 439	1 159	2 635	44 064	306 351	692 131	1 013 000	37 528
325212	Synthetic rubber mfg..	2	14	4	378	15 313	199	334	6 458	41 306	43 621	84 972	3 387
3253	Pesticide, fertilizer, & other agricultural chemical mfg.....	2	85	23	1 556	49 708	899	1 809	25 101	256 530	247 716	502 108	17 794
32531	Fertilizer mfg.....	1	53	16	1 005	30 105	583	1 191	15 700	167 432	174 293	339 222	10 915
325311	Nitrogenous fertilizer mfg.....	4	18	4	156	4 677	114	185	3 111	35 215	26 350	61 985	D
325312	Phosphatic fertilizer mfg.....	—	6	3	372	11 014	138	349	4 588	86 219	46 247	128 757	D
325314	Fertilizer (mixing only) mfg.....	2	29	9	477	14 414	331	657	8 001	45 998	101 696	148 480	4 214
32532	Pesticide & other agricultural chemical mfg.....	3	32	7	551	19 603	316	618	9 401	89 098	73 423	162 886	6 879
325320	Pesticide & other agricultural chemical mfg.....	3	32	7	551	19 603	316	618	9 401	89 098	73 423	162 886	6 879
3254	Pharmaceutical & medicine mfg.....	1	305	141	27 022	1 387 911	13 253	26 861	419 161	5 564 981	2 783 369	8 248 204	601 491
32541	Pharmaceutical & medicine mfg.....	1	305	141	27 022	1 387 911	13 253	26 861	419 161	5 564 981	2 783 369	8 248 204	601 491
325411	Medicinal & botanical mfg.....	3	68	23	2 673	113 267	1 332	2 947	43 512	401 480	333 775	743 905	57 135
325412	Pharmaceutical preparation mfg.....	1	120	62	11 955	597 821	6 698	13 448	173 827	3 233 222	1 564 965	4 742 382	301 053
325413	In-vitro diagnostic substance mfg.....	—	57	35	5 904	301 599	2 360	4 729	89 130	875 259	284 290	1 156 744	133 065
325414	Biological product (except diagnostic) mfg.....	—	60	21	6 490	375 224	2 863	5 737	112 692	1 055 020	600 339	1 605 173	110 238

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CALIFORNIA—Con. Manufacturing—Con.												
325	Chemical mfg—Con.												
3255	Paint, coating, & adhesive mfg	1	251	82	6 445	255 472	3 642	7 057	107 463	1 102 190	1 168 607	2 271 860	40 794
32551	Paint & coating mfg	1	181	61	4 717	184 321	2 760	5 353	83 049	840 630	941 357	1 785 729	30 287
325510	Paint & coating mfg ...	1	181	61	4 717	184 321	2 760	5 353	83 049	840 630	941 357	1 785 729	30 287
32552	Adhesive mfg	—	70	21	1 728	71 151	882	1 704	24 414	261 560	227 250	486 131	10 507
325520	Adhesive mfg	—	70	21	1 728	71 151	882	1 704	24 414	261 560	227 250	486 131	10 507
3256	Soap, cleaning compound, & toilet preparation mfg ..	2	353	116	12 414	410 285	7 550	14 057	172 910	1 845 583	1 173 786	3 028 853	74 956
32561	Soap & cleaning compound mfg	2	199	51	3 758	118 974	2 339	4 506	57 625	706 947	500 411	1 209 107	27 607
325611	Soap & other detergent mfg	2	98	24	1 744	54 927	1 005	1 740	25 116	363 741	179 297	546 690	9 273
325612	Polish & other sanitation good mfg ..	2	83	23	1 670	51 217	1 186	2 511	28 234	294 572	240 724	534 673	12 807
325613	Surface active agent mfg	3	18	4	344	12 830	148	255	4 275	48 634	80 390	127 744	5 527
32562	Toilet preparation mfg ...	1	154	65	8 656	291 311	5 211	9 551	115 285	1 138 636	673 375	1 819 746	47 349
325620	Toilet preparation mfg .	1	154	65	8 656	291 311	5 211	9 551	115 285	1 138 636	673 375	1 819 746	47 349
3259	Other chemical product mfg	2	320	97	7 825	269 829	4 994	9 944	142 258	892 915	908 090	1 801 522	65 624
32591	Printing ink mfg	2	54	25	1 215	52 300	555	1 230	21 870	139 095	195 016	333 088	4 731
325910	Printing ink mfg	2	54	25	1 215	52 300	555	1 230	21 870	139 095	195 016	333 088	4 731
32592	Explosives mfg	—	10	6	1 134	37 068	940	2 129	24 823	51 701	69 949	123 967	10 017
325920	Explosives mfg	—	10	6	1 134	37 068	940	2 129	24 823	51 701	69 949	123 967	10 017
32599	All other chemical product & preparation mfg	2	256	66	5 476	180 461	3 499	6 585	95 565	702 119	643 125	1 344 467	50 876
325991	Custom compounding of purchased resin ...	2	92	25	2 075	68 186	1 337	2 439	35 001	186 671	280 870	468 199	20 911
325992	Photographic film, paper, plate, & chemical mfg	3	50	11	1 092	32 112	819	1 528	18 598	84 190	61 312	147 282	5 216
325998	All other miscellaneous chemical product & preparation mfg	2	114	30	2 309	80 163	1 343	2 618	41 966	431 258	300 943	728 986	24 749
326	Plastics & rubber products mfg	2	2 007	940	89 712	2 565 650	69 318	135 237	1 529 882	6 944 163	6 027 805	12 944 460	598 253
3261	Plastics product mfg	2	1 708	835	79 604	2 288 322	61 456	119 722	1 357 247	6 225 160	5 343 984	11 531 492	552 813
32611	Unsupported plastics film, sheet, & bag mfg ..	1	183	97	7 528	215 111	6 019	12 028	135 480	599 369	771 641	1 363 865	59 480
326111	Unsupported plastics bag mfg	—	81	49	4 153	99 375	3 509	7 003	66 242	254 041	346 151	594 594	31 399
326112	Unsupported plastics packaging film & sheet mfg	2	14	10	653	23 310	458	1 003	14 892	58 832	78 694	141 484	11 420
326113	Unsupported plastics film & sheet (except packaging) mfg	2	88	38	2 722	92 426	2 052	4 022	54 346	286 496	346 796	627 787	16 661
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	1	134	52	4 064	119 259	3 065	5 812	70 328	345 654	400 721	740 850	39 012
326121	Unsupported plastics profile shape mfg	2	87	27	1 914	56 992	1 457	2 855	33 712	152 502	108 845	260 749	8 669
326122	Plastics pipe & pipe fitting mfg	—	47	25	2 150	62 267	1 608	2 957	36 616	193 152	291 876	480 101	30 343
32613	Laminated plastics plate, sheet, & shape mfg	1	50	14	1 824	54 228	1 342	2 666	32 874	149 545	138 909	287 782	9 576
326130	Laminated plastics plate, sheet, & shape mfg	1	50	14	1 824	54 228	1 342	2 666	32 874	149 545	138 909	287 782	9 576
32614	Polystyrene foam product mfg	2	71	41	3 406	89 726	2 731	5 633	62 507	306 907	268 552	578 251	29 303
326140	Polystyrene foam product mfg	2	71	41	3 406	89 726	2 731	5 633	62 507	306 907	268 552	578 251	29 303
32615	Urethane & other foam product (except polystyrene) mfg	3	89	48	4 464	109 548	3 534	6 835	75 060	320 454	451 609	763 726	26 057
326150	Urethane & other foam product (except polystyrene) mfg	3	89	48	4 464	109 548	3 534	6 835	75 060	320 454	451 609	763 726	26 057
32616	Plastics bottle mfg	1	63	41	4 390	120 771	3 406	7 207	86 660	366 754	398 388	766 128	58 696
326160	Plastics bottle mfg	1	63	41	4 390	120 771	3 406	7 207	86 660	366 754	398 388	766 128	58 696
32619	Other plastics product mfg	2	1 118	542	53 928	1 579 679	41 359	79 541	894 338	4 136 477	2 914 164	7 030 890	330 689
326191	Plastics plumbing fixture mfg	1	71	30	3 810	91 312	2 964	6 216	57 391	285 371	256 786	544 343	7 780
326192	Resilient floor covering mfg	3	7	2	371	18 828	278	563	14 650	71 407	45 002	117 148	4 018
326199	All other plastics product mfg	2	1 040	510	49 747	1 469 539	38 117	72 762	822 297	3 779 699	2 612 376	6 369 399	318 891

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	CALIFORNIA—Con.												
31-33	Manufacturing—Con.												
326	Plastics & rubber products mfg—Con.												
3262	Rubber product mfg	1	299	105	10 108	277 328	7 862	15 515	172 635	719 003	683 821	1 412 968	45 440
32621	Tire mfg	—	78	15	1 855	63 328	1 364	2 895	43 620	166 409	245 606	415 452	19 686
326211	Tire mfg (except retreading)	—	10	5	962	42 357	798	1 715	32 292	128 124	172 727	304 305	D
326212	Tire retreading	1	68	10	893	20 971	566	1 180	11 328	38 285	72 879	111 147	D
32622	Rubber & plastics hoses & belting mfg	—	22	10	832	22 871	691	1 342	15 256	64 559	63 828	131 795	4 888
326220	Rubber & plastics hoses & belting mfg ..	—	22	10	832	22 871	691	1 342	15 256	64 559	63 828	131 795	4 888
32629	Other rubber product mfg	2	199	80	7 421	191 129	5 807	11 278	113 759	488 035	374 387	865 721	20 866
326291	Rubber product mfg for mechanical use	1	78	32	3 118	80 422	2 549	5 148	50 964	196 139	89 902	285 770	6 797
326299	All other rubber product mfg	2	121	48	4 303	110 707	3 258	6 130	62 795	291 896	284 485	579 951	14 069
327	Nonmetallic mineral product mfg	1	1 565	527	42 748	1 409 102	32 856	66 491	986 415	4 123 989	3 352 041	7 490 412	344 969
3271	Clay product & refractory mfg	2	273	95	6 967	167 806	5 340	10 330	110 495	375 728	173 159	552 088	26 427
32711	Pottery, ceramics, & plumbing fixture mfg ...	2	204	69	5 497	129 795	4 180	8 180	85 684	285 399	125 774	409 818	21 601
327111	Vitreous china plumbing fixture & bathroom accessories mfg	1	11	5	652	16 557	512	1 113	13 659	35 441	14 927	50 233	2 805
327112	Vitreous china, fine earthenware, & other pottery product mfg ..	3	168	52	3 984	78 971	2 960	5 491	50 095	184 701	84 042	267 379	12 837
327113	Porcelain electrical supply mfg	—	25	12	861	34 267	708	1 576	21 930	65 257	26 805	92 206	5 959
32712	Clay building material & refractories mfg	2	69	26	1 470	38 011	1 160	2 150	24 811	90 329	47 385	142 270	4 826
327121	Brick & structural clay tile mfg	—	15	6	461	13 794	349	657	8 279	37 048	11 061	47 753	1 653
327122	Ceramic wall & floor tile mfg	8	32	8	471	9 989	400	655	7 318	17 710	8 844	26 878	2 050
327123	Other structural clay product mfg	—	11	8	413	10 732	314	671	6 961	26 123	16 643	46 892	872
327124	Clay refractory mfg ...	1	10	4	c	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .	—	320	72	9 791	343 678	7 946	16 086	258 126	1 034 750	683 654	1 715 670	65 312
32721	Glass & glass product mfg	—	320	72	9 791	343 678	7 946	16 086	258 126	1 034 750	683 654	1 715 670	65 312
327211	Flat glass mfg	—	5	5	1 189	53 025	970	2 184	41 044	242 014	111 207	354 500	2 986
327212	Other pressed & blown glass & glassware mfg	3	83	4	830	25 313	665	1 217	18 905	86 513	27 330	113 422	7 324
327213	Glass container mfg ..	—	8	8	3 348	136 544	3 011	6 182	117 144	428 602	297 986	724 192	30 582
327215	Glass product mfg made of purchased glass	1	224	55	4 424	128 796	3 300	6 503	81 033	277 621	247 131	523 556	24 420
3273	Cement & concrete product mfg	1	673	271	18 306	640 391	13 769	28 014	443 681	1 894 136	1 787 110	3 686 150	190 441
32731	Cement mfg	—	31	15	1 927	93 795	1 461	3 118	66 434	486 760	354 774	846 898	66 207
327310	Cement mfg	—	31	15	1 927	93 795	1 461	3 118	66 434	486 760	354 774	846 898	66 207
32732	Ready-mix concrete mfg .	2	387	145	8 157	296 490	6 216	12 460	216 791	786 002	982 105	1 770 250	69 065
327320	Ready-mix concrete mfg	2	387	145	8 157	296 490	6 216	12 460	216 791	786 002	982 105	1 770 250	69 065
32733	Concrete pipe, brick, & block mfg	2	84	42	2 449	76 108	1 726	3 462	45 375	179 000	150 260	328 010	10 940
327331	Concrete block & brick mfg	3	49	21	1 177	34 015	754	1 603	17 841	93 746	82 192	176 146	4 366
327332	Concrete pipe mfg	1	35	21	1 272	42 093	972	1 859	27 534	85 254	68 068	151 864	6 574
32739	Other concrete product mfg	1	171	69	5 773	173 998	4 366	8 974	115 081	442 374	299 971	740 992	44 229
327390	Other concrete product mfg	1	171	69	5 773	173 998	4 366	8 974	115 081	442 374	299 971	740 992	44 229
3274	Lime & gypsum product mfg	—	48	19	1 714	66 414	1 358	3 000	43 779	190 403	262 570	459 229	17 237
32741	Lime mfg	—	4	1	122	4 911	103	205	3 929	11 412	7 400	18 477	D
327410	Lime mfg	—	4	1	122	4 911	103	205	3 929	11 412	7 400	18 477	D
32742	Gypsum product mfg	—	44	18	1 592	61 503	1 255	2 795	39 850	178 991	255 170	440 752	D
327420	Gypsum product mfg ..	—	44	18	1 592	61 503	1 255	2 795	39 850	178 991	255 170	440 752	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CALIFORNIA—Con.												
	Manufacturing—Con.												
327	Nonmetallic mineral product mfg—Con.												
3279	Other nonmetallic mineral product mfg.....	1	251	70	5 970	190 813	4 443	9 061	130 334	628 972	445 548	1 077 275	45 552
32791	Abrasive product mfg . . .	2	40	21	1 271	36 173	903	1 778	19 897	126 444	77 929	203 848	4 840
327910	Abrasive product mfg . .	2	40	21	1 271	36 173	903	1 778	19 897	126 444	77 929	203 848	4 840
32799	All other nonmetallic mineral product mfg . . .	1	211	49	4 699	154 640	3 540	7 283	110 437	502 528	367 619	873 427	40 712
327991	Cut stone & stone product mfg	4	88	9	726	18 446	546	1 126	13 210	35 300	21 899	57 829	1 602
327992	Ground or treated mineral & earth mfg . .	3	31	10	635	20 303	474	899	14 078	71 343	46 168	117 316	6 654
327993	Mineral wool mfg	1	28	13	2 090	80 776	1 695	3 584	62 043	308 419	202 187	513 739	17 312
327999	All other miscellaneous nonmetallic mineral product mfg	1	64	17	1 248	35 115	825	1 674	21 106	87 466	97 365	184 543	15 144
331	Primary metal mfg	—	467	239	24 338	836 199	19 378	40 867	569 143	2 479 014	3 643 248	6 105 773	215 662
3311	Iron & steel mills & ferroalloy mfg	—	17	9	1 735	93 880	1 383	2 793	70 415	331 605	698 779	1 030 515	66 772
33111	Iron & steel mills & ferroalloy mfg	—	17	9	1 735	93 880	1 383	2 793	70 415	331 605	698 779	1 030 515	66 772
331111	Iron & steel mills	—	15	7	g	D	D	D	D	D	D	D	D
331112	Electrometallurgical ferroalloy product mfg	—	2	2	c	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	—	62	35	4 135	176 956	3 131	6 970	120 467	594 851	1 259 409	1 836 222	58 468
33121	Iron & steel pipes & tubes mfg from purchased steel	—	19	11	1 255	54 060	930	1 959	32 742	117 602	319 784	432 244	18 719
331210	Iron & steel pipes & tubes mfg from purchased steel	—	19	11	1 255	54 060	930	1 959	32 742	117 602	319 784	432 244	18 719
33122	Rolling & drawing of purchased steel	—	43	24	2 880	122 896	2 201	5 011	87 725	477 249	939 625	1 403 978	39 749
331221	Cold-rolled steel shape mfg	—	16	5	g	D	D	D	D	D	D	D	D
331222	Steel wire drawing	—	27	19	g	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing . .	—	42	34	3 632	118 201	2 968	6 869	79 536	335 115	657 154	989 554	27 421
33131	Alumina & aluminum production & processing	—	42	34	3 632	118 201	2 968	6 869	79 536	335 115	657 154	989 554	27 421
331314	Secondary smelting & alloying of aluminum .	—	11	11	575	20 674	463	1 039	12 609	90 576	250 705	335 243	4 026
331315	Aluminum sheet, plate, & foil mfg	—	8	5	e	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg	—	22	17	2 351	74 272	1 953	4 589	51 947	189 069	290 940	476 404	19 621
331319	Other aluminum rolling & drawing	—	1	1	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	—	74	29	3 441	116 169	2 469	5 176	63 242	410 667	574 638	997 343	23 776
33141	Nonferrous metal (except aluminum) smelting & refining	—	13	4	237	10 707	135	272	3 992	58 882	109 899	168 678	4 166
331419	Other nonferrous metal primary smelting & refining	—	13	4	237	10 707	135	272	3 992	58 882	109 899	168 678	4 166
33142	Copper rolling, drawing, extruding, & alloying . . .	—	8	3	671	18 666	506	852	8 135	41 551	91 775	129 433	2 379
331421	Copper rolling, drawing, & extruding	—	5	2	203	6 914	163	349	5 144	24 020	55 381	77 936	D
331422	Copper wire (except mechanical) drawing	—	2	1	e	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying . . .	—	53	22	2 533	86 796	1 828	4 052	51 115	310 234	372 964	699 232	17 231
331491	Other nonferrous metal rolling, drawing, & extruding	—	21	10	1 427	41 676	1 112	2 345	25 445	135 803	145 746	289 559	7 298
331492	Other nonferrous metal secondary smelting, refining, & alloying . . .	—	32	12	1 106	45 120	716	1 707	25 670	174 431	227 218	409 673	9 933
3315	Foundries	—	272	132	11 395	330 993	9 427	19 059	235 483	806 776	453 268	1 252 139	39 225
33151	Ferrous metal foundries	—	77	41	5 175	149 345	4 408	8 838	113 606	412 779	209 536	612 882	15 586
331511	Iron foundries	—	34	16	1 818	55 462	1 534	3 169	41 729	162 997	76 812	238 897	7 920
331512	Steel investment foundries	—	19	14	2 388	61 965	2 052	4 015	46 696	181 466	86 299	260 207	2 769
331513	Steel foundries (except investment)	—	24	11	969	31 918	822	1 654	25 181	68 316	46 425	113 778	4 897

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	CALIFORNIA—Con.												
31-33	Manufacturing—Con.												
331	Primary metal mfg—Con.												
3315	Foundries—Con.												
33152	Nonferrous metal foundries	1	195	91	6 220	181 648	5 019	10 221	121 877	393 997	243 732	639 257	23 639
331521	Aluminum die-casting foundries	1	46	29	1 640	50 337	1 297	2 617	34 622	95 625	67 973	164 632	6 153
331522	Nonferrous (except aluminum) die-casting foundries	—	29	15	1 164	33 041	900	1 761	22 260	102 151	56 244	156 856	9 253
331524	Aluminum foundries (except die-casting) ..	1	81	36	2 676	77 657	2 202	4 585	51 008	160 787	89 906	250 331	6 963
331525	Copper foundries (except die-casting) ..	—	31	9	566	15 600	470	945	10 412	32 098	20 299	52 040	909
331528	Other nonferrous foundries (except die-casting)	—	8	2	174	5 013	150	313	3 575	3 336	9 310	15 398	361
332	Fabricated metal product mfg	1	8 127	2 287	187 055	6 205 949	139 868	281 380	3 858 123	13 939 525	10 363 333	24 137 103	1 041 069
3321	Forging & stamping	1	374	172	13 375	476 768	10 324	22 757	309 621	1 077 312	1 037 148	2 096 780	89 245
33211	Forging & stamping	1	374	172	13 375	476 768	10 324	22 757	309 621	1 077 312	1 037 148	2 096 780	89 245
332111	Iron & steel forging	3	34	12	1 620	72 376	1 261	3 046	46 982	154 737	245 973	391 185	11 821
332112	Nonferrous forging	—	16	14	2 167	88 040	1 741	4 085	62 502	234 849	178 070	403 447	20 893
332114	Custom roll forming	—	42	21	1 073	35 412	728	1 523	20 541	73 300	110 777	183 826	3 126
332115	Crown & closure mfg	—	9	6	554	15 495	471	780	11 704	26 433	36 246	66 288	7 300
332116	Metal stamping	1	264	115	7 718	258 092	5 943	12 999	164 036	572 489	458 108	1 028 573	44 236
332117	Powder metallurgy part mfg	1	9	4	243	7 353	180	324	3 856	15 504	7 974	23 461	1 869
3322	Cutlery & handtool mfg	2	222	58	5 351	184 438	3 537	6 415	85 492	460 288	270 386	732 704	27 164
33221	Cutlery & handtool mfg ..	2	222	58	5 351	184 438	3 537	6 415	85 492	460 288	270 386	732 704	27 164
332211	Cutlery & flatware (except precious) mfg	5	17	5	757	25 841	531	834	12 882	73 532	34 057	109 465	4 116
332212	Hand & edge tool mfg	1	179	44	3 901	135 765	2 558	4 767	61 745	327 166	182 501	509 191	18 465
332213	Saw blade & handsaw mfg	—	20	7	552	18 915	356	674	9 269	53 223	45 506	99 244	4 390
332214	Kitchen utensil, pot, & pan mfg	—	6	2	141	3 917	92	140	1 596	6 367	8 322	14 804	193
3323	Architectural & structural metals mfg	1	1 424	528	42 797	1 313 136	30 886	62 314	786 157	2 912 377	2 503 577	5 384 756	134 321
33231	Plate work & fabricated structural product mfg ..	1	385	133	10 673	365 263	7 537	15 414	220 080	918 219	769 239	1 680 928	30 598
332311	Prefabricated metal building & component mfg	1	53	22	1 769	50 905	1 152	2 373	27 515	119 305	138 472	259 224	4 112
332312	Fabricated structural metal mfg	1	263	88	7 401	260 848	5 244	10 789	159 793	680 106	538 228	1 208 711	21 949
332313	Plate work mfg	1	69	23	1 503	53 510	1 141	2 252	32 772	118 808	92 539	212 993	4 537
33232	Ornamental & architectural metal products mfg	1	1 039	395	32 124	947 873	23 349	46 900	566 077	1 994 158	1 734 338	3 703 828	103 723
332321	Metal window & door mfg	—	179	85	8 328	219 583	6 012	12 173	123 090	490 075	522 218	1 006 244	17 971
332322	Sheet metal work mfg ..	1	654	276	21 228	653 861	15 528	31 192	398 662	1 347 407	1 045 584	2 371 269	80 975
332323	Ornamental & architectural metal work mfg	1	206	34	2 568	74 429	1 809	3 535	44 325	156 676	166 536	326 315	4 777
3324	Boiler, tank, & shipping container mfg	—	200	99	9 852	379 681	7 315	15 275	266 572	951 741	1 770 129	2 690 107	77 361
33241	Power boiler & heat exchanger mfg	1	39	17	1 334	49 408	940	1 692	29 240	102 059	78 031	178 982	7 758
332410	Power boiler & heat exchanger mfg	1	39	17	1 334	49 408	940	1 692	29 240	102 059	78 031	178 982	7 758
33242	Metal tank (heavy gauge) mfg	—	55	32	2 928	97 465	1 759	3 749	52 941	203 412	187 283	385 759	14 074
332420	Metal tank (heavy gauge) mfg	—	55	32	2 928	97 465	1 759	3 749	52 941	203 412	187 283	385 759	14 074
33243	Metal can, box, & other metal container (light gauge) mfg	—	106	50	5 590	232 808	4 616	9 834	184 391	646 270	1 504 815	2 125 366	55 529
332431	Metal can mfg	—	42	33	4 082	188 641	3 449	7 277	155 791	547 916	1 395 497	1 916 124	50 621
332439	Other metal container mfg	3	64	17	1 508	44 167	1 167	2 557	28 600	98 354	109 318	209 242	4 908
3325	Hardware mfg	1	153	72	8 604	280 070	6 364	12 594	164 658	665 309	504 090	1 152 854	49 428
33251	Hardware mfg	1	153	72	8 604	280 070	6 364	12 594	164 658	665 309	504 090	1 152 854	49 428
332510	Hardware mfg	1	153	72	8 604	280 070	6 364	12 594	164 658	665 309	504 090	1 152 854	49 428
3326	Spring & wire product mfg ..	1	202	62	4 160	108 158	3 064	5 998	65 114	267 507	197 888	462 306	19 518
33261	Spring & wire product mfg	1	202	62	4 160	108 158	3 064	5 998	65 114	267 507	197 888	462 306	19 518
332611	Spring (heavy gauge) mfg	1	14	7	366	11 447	227	475	5 860	19 474	11 252	29 594	6 067
332612	Spring (light gauge) mfg	—	45	16	882	28 456	631	1 302	17 307	79 892	37 273	116 371	2 715
332618	Other fabricated wire product mfg	1	143	39	2 912	68 255	2 206	4 221	41 947	168 141	149 363	316 341	10 736

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31-33	CALIFORNIA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3327	Machine shops, turned product, & screw, nut, & bolt mfg			696	54 855	1 968 249	42 994	87 037	1 300 070	3 995 992	1 795 271	5 755 942	330 886
33271	Machine shops	1	3 818	513	37 721	1 321 944	29 764	57 491	886 561	2 652 430	1 100 880	3 734 400	218 840
332710	Machine shops	1	3 358	513	37 721	1 321 944	29 764	57 491	886 561	2 652 430	1 100 880	3 734 400	218 840
33272	Turned product & screw, nut, & bolt mfg	—	460	183	17 134	646 305	13 230	29 546	413 509	1 343 562	694 391	2 021 542	112 046
332721	Precision turned product mfg	1	329	118	7 337	244 965	5 854	12 284	175 560	493 269	218 827	706 137	39 032
332722	Bolt, nut, screw, rivet, & washer mfg	—	131	65	9 797	401 340	7 376	17 262	237 949	850 293	475 564	1 315 405	73 014
3328	Coating, engraving, heat treating, & allied activities.												
33281	Coating, engraving, heat treating, & allied activities	1	1 007	370	23 378	651 267	18 682	36 711	422 410	1 360 387	788 695	2 144 815	199 377
332811	Coating	1	1 007	370	23 378	651 267	18 682	36 711	422 410	1 360 387	788 695	2 144 815	199 377
332812	Engraving	1	78	42	2 004	72 200	1 529	3 097	44 520	176 342	37 444	213 858	11 302
332813	Metal coating/engraving (exc jewelry/silverware)/allied services	1	303	115	6 679	196 770	5 369	10 807	127 734	459 273	482 982	934 415	149 381
3329	Other fabricated metal product mfg												
33291	Metal valve mfg	—	167	88	12 828	481 914	7 833	15 260	239 409	1 345 158	874 797	2 202 227	70 698
332911	Industrial valve mfg	1	60	32	4 147	164 210	2 572	4 935	80 178	351 626	293 733	651 087	19 676
332912	Fluid power valve & hose fitting mfg	—	64	25	3 831	168 801	2 347	4 838	82 493	418 946	200 211	609 678	19 982
332913	Plumbing fixture fitting & trim mfg	—	28	24	4 183	124 723	2 585	4 889	68 502	521 113	353 909	863 174	28 818
332919	Other metal valve & pipe fitting mfg	1	15	7	667	24 180	329	598	8 236	53 473	26 944	78 288	2 222
33299	All other fabricated metal product mfg	1	560	142	11 855	362 268	8 869	17 019	218 620	903 454	621 352	1 514 612	43 071
332991	Ball & roller bearing mfg	—	12	4	512	14 221	436	808	11 054	58 565	15 243	73 611	1 538
332993	Ammunition (except small arms) mfg	—	7	3	441	18 556	242	507	7 757	48 977	17 279	64 499	1 693
332994	Small arms mfg	1	16	7	340	9 806	282	572	6 129	25 909	9 669	34 362	818
332995	Other ordnance & accessories mfg	—	7	5	277	12 470	183	335	7 008	33 095	8 592	41 560	302
332996	Fabricated pipe & pipe fitting mfg	1	88	23	1 645	48 205	1 255	2 462	30 397	130 304	94 014	225 264	5 548
332997	Industrial pattern mfg	3	43	2	322	9 374	255	421	6 962	15 482	5 946	21 419	715
332998	Enameled iron & metal sanitary ware mfg	—	17	7	1 555	41 436	1 155	2 068	23 583	130 109	97 003	223 938	4 231
332999	All other miscellaneous fabricated metal product mfg	1	360	91	6 735	207 277	5 038	9 800	125 118	459 085	372 220	826 650	28 111
333	Machinery mfg	1	3 112	966	105 872	4 161 175	62 601	124 533	1 863 498	9 935 742	9 336 888	19 128 452	898 135
3331	Agriculture, construction, & mining machinery mfg												
33311	Agricultural implement mfg	2	223	69	5 091	170 602	3 150	5 904	78 206	413 437	408 770	809 211	27 579
333111	Farm machinery & equipment mfg	3	121	36	2 468	73 302	1 654	3 205	38 195	157 166	177 338	321 625	15 489
333112	Lawn & garden tractor & home lawn & garden equipment mfg	4	114	33	1 984	60 680	1 384	2 643	33 329	124 518	128 038	235 752	13 689
33312	Construction machinery mfg	—	7	3	484	12 622	270	562	4 866	32 648	49 300	85 873	1 800
333120	Construction machinery mfg	4	56	17	1 065	37 125	657	1 297	18 358	69 738	84 276	159 301	6 394
33313	Mining & oil & gas field machinery mfg	4	56	17	1 065	37 125	657	1 297	18 358	69 738	84 276	159 301	6 394
333131	Mining machinery & equipment mfg	—	46	16	1 558	60 175	839	1 402	21 653	186 533	147 156	328 285	5 696
333132	Oil & gas field machinery & equipment mfg	2	14	6	312	10 185	194	360	5 519	24 101	38 330	62 605	611
3332	Industrial machinery mfg												
33321	Sawmill & woodworking machinery mfg	—	46	16	1 558	60 175	839	1 402	21 653	186 533	147 156	328 285	5 696
333210	Sawmill & woodworking machinery mfg	2	14	6	312	10 185	194	360	5 519	24 101	38 330	62 605	611
333210	Sawmill & woodworking machinery mfg	—	32	10	1 246	49 990	645	1 042	16 134	162 432	108 826	265 680	5 085
33321	Sawmill & woodworking machinery mfg	1	543	199	28 703	1 203 010	14 943	30 016	466 279	3 298 416	3 615 941	6 836 906	454 620
333210	Sawmill & woodworking machinery mfg	3	25	6	540	19 628	360	806	11 438	35 094	34 678	69 279	1 528
333210	Sawmill & woodworking machinery mfg	3	25	6	540	19 628	360	806	11 438	35 094	34 678	69 279	1 528
33322	Plastics & rubber industry machinery mfg												
333220	Plastics & rubber industry machinery mfg	3	43	7	681	22 576	417	826	11 273	36 791	46 539	84 124	2 611
333220	Plastics & rubber industry machinery mfg	3	43	7	681	22 576	417	826	11 273	36 791	46 539	84 124	2 611

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	CALIFORNIA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3332	Industrial machinery mfg—Con.												
33329	Other industrial machinery mfg	1	475	186	27 482	1 160 806	14 166	28 384	443 568	3 226 531	3 534 724	6 683 503	450 481
333291	Paper industry machinery mfg	4	17	—	102	3 783	60	118	1 868	5 600	7 161	12 655	339
333292	Textile machinery mfg	2	13	4	196	4 855	109	178	2 408	7 365	7 952	15 310	162
333293	Printing machinery & equipment mfg	1	50	9	1 031	41 303	496	981	14 118	95 077	74 196	171 173	3 751
333294	Food product machinery mfg	2	89	32	2 059	70 559	1 261	2 323	36 547	135 846	129 415	266 346	6 747
333295	Semiconductor machinery mfg	1	121	69	17 883	807 554	8 504	17 005	283 456	2 450 113	2 830 855	5 220 586	404 343
333298	All other industrial machinery mfg	3	185	72	6 211	232 752	3 736	7 779	105 171	532 530	485 145	997 433	35 139
3333	Commercial & service industry machinery mfg ..	1	485	158	16 322	643 957	9 450	19 147	263 105	1 277 536	1 207 206	2 482 865	106 841
33331	Commercial & service industry machinery mfg	1	485	158	16 322	643 957	9 450	19 147	263 105	1 277 536	1 207 206	2 482 865	106 841
333311	Automatic vending machine mfg	—	18	5	1 144	32 345	894	1 774	19 395	61 587	120 658	183 580	D
333313	Office machinery mfg ..	6	24	10	721	25 133	388	769	11 114	51 570	34 577	86 911	3 802
333314	Optical instrument & lens mfg	1	116	48	5 407	261 267	2 798	5 754	93 255	416 860	284 400	700 446	49 206
333315	Photographic & photocopying equipment mfg	1	101	32	3 213	132 621	1 712	3 679	51 762	270 817	332 771	600 396	26 291
333319	Other commercial & service industry machinery mfg	1	219	62	5 771	190 334	3 607	7 059	86 124	472 094	430 639	902 589	24 604
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	2	194	79	8 315	266 736	5 987	12 535	147 107	604 327	546 125	1 152 905	27 773
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	2	194	79	8 315	266 736	5 987	12 535	147 107	604 327	546 125	1 152 905	27 773
333411	Air purification equipment mfg	3	38	15	1 175	41 580	844	1 725	21 765	84 061	82 191	168 745	3 233
333412	Industrial & commercial fan & blower mfg	3	22	10	561	18 774	361	659	9 061	41 482	39 683	81 287	1 151
333414	Heating equipment (except warm air furnaces) mfg	2	59	18	2 687	85 154	1 769	3 595	37 526	212 328	153 103	362 207	6 855
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	—	75	36	3 892	121 228	3 013	6 556	78 755	266 456	271 148	540 666	16 534
3335	Metalworking machinery mfg	1	828	180	13 637	507 246	10 144	19 531	323 355	1 100 572	697 681	1 797 665	71 104
33351	Metalworking machinery mfg	1	828	180	13 637	507 246	10 144	19 531	323 355	1 100 572	697 681	1 797 665	71 104
333511	Industrial mold mfg ...	1	234	47	3 378	134 075	2 689	4 976	92 277	244 500	96 747	338 756	18 134
333512	Machine tool (metal cutting types) mfg ...	—	30	13	1 831	81 171	1 303	2 729	45 535	260 887	304 538	561 065	6 952
333513	Machine tool (metal forming types) mfg ...	1	17	8	717	29 902	438	807	16 122	62 562	69 959	138 623	2 779
333514	Special die & tool, die set, jig, & fixture mfg ..	2	332	62	3 923	140 069	3 077	5 842	96 769	287 486	99 736	385 040	17 900
333515	Cutting tool & machine tool accessory mfg ..	2	178	39	3 098	94 967	2 231	4 427	59 703	192 098	86 611	281 753	23 153
333518	Other metalworking machinery mfg	4	35	11	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	—	83	31	7 444	380 882	3 776	7 641	145 090	1 034 035	784 175	1 799 652	73 748
33361	Engine, turbine, & power transmission equipment mfg	—	83	31	7 444	380 882	3 776	7 641	145 090	1 034 035	784 175	1 799 652	73 748
333611	Turbine & turbine generator set unit mfg	—	7	6	h	D	D	D	D	D	D	D	45 738
333612	Speed changer, industrial high-speed drive, & gear mfg	3	22	6	e	D	D	D	D	D	D	D	2 753
333613	Mechanical power transmission equipment mfg	2	29	9	762	25 345	536	992	15 112	65 701	41 485	104 433	2 648
333618	Other engine equipment mfg	1	25	10	1 765	82 986	1 191	2 420	39 910	227 825	190 926	420 750	22 609
3339	Other general-purpose machinery mfg	1	756	250	26 360	988 742	15 151	29 759	440 356	2 207 419	2 076 990	4 249 248	136 470

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	CALIFORNIA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3339	Other general-purpose machinery mfg—Con.												
33391	Pump & compressor mfg	1	103	46	5 113	195 757	2 704	5 602	81 782	461 101	566 216	1 003 898	46 326
333911	Pump & pumping equipment mfg	—	64	31	3 821	149 631	2 060	4 339	62 037	340 305	391 036	721 890	19 248
333912	Air & gas compressor mfg	2	27	9	926	33 010	437	805	13 107	89 368	150 105	227 237	25 936
333913	Measuring & dispensing pump mfg	4	12	6	366	13 116	207	458	6 638	31 428	25 075	54 771	1 142
33392	Material handling equipment mfg	1	151	49	4 322	148 607	2 823	5 575	78 596	283 756	401 943	696 037	18 318
333921	Elevator & moving stairway mfg	7	16	2	181	5 474	108	217	3 017	12 380	10 981	23 374	416
333922	Conveyor & conveying equipment mfg	1	75	29	2 241	83 738	1 396	2 639	40 405	140 508	145 433	287 262	8 633
333923	Overhead traveling crane, hoist, & monorail system mfg	1	19	4	842	23 264	604	1 207	14 245	63 341	101 367	164 369	4 006
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	1	41	14	1 058	36 131	715	1 512	20 929	67 527	144 162	221 032	5 263
33399	All other general-purpose machinery mfg	1	502	155	16 925	644 378	9 624	18 582	279 978	1 462 562	1 108 831	2 549 313	71 826
333991	Power-driven handtool mfg	2	24	4	404	12 913	303	605	8 366	34 347	19 575	53 455	1 995
333992	Welding & soldering equipment mfg	—	31	15	1 285	49 829	750	1 392	22 585	115 034	97 024	209 742	4 168
333993	Packaging machinery mfg	1	95	30	3 504	134 826	1 870	3 528	56 141	284 327	240 809	515 115	11 385
333994	Industrial process furnace & oven mfg ..	—	47	13	2 057	75 317	1 144	2 346	26 145	230 062	210 145	453 464	10 728
333995	Fluid power cylinder & actuator mfg	—	47	15	2 937	124 754	1 599	3 393	64 836	263 913	122 004	364 299	8 497
333996	Fluid power pump & motor mfg	1	19	7	646	33 759	334	708	9 928	64 889	35 416	101 750	3 077
333997	Scale & balance (except laboratory) mfg	1	22	7	356	12 174	152	285	4 764	24 650	17 863	42 470	497
333999	All other miscellaneous general-purpose machinery mfg	1	217	64	5 736	200 806	3 472	6 325	87 213	445 340	365 995	809 018	31 479
334	Computer & electronic product mfg	—	4 277	1 904	396 482	19 874 023	184 005	377 522	6 075 101	65 716 477	48 157 521	113 493 563	6 256 804
3341	Computer & peripheral equipment mfg	—	590	220	68 527	3 731 820	25 285	57 505	966 789	15 975 024	19 330 384	35 197 306	1 369 197
33411	Computer & peripheral equipment mfg	—	590	220	68 527	3 731 820	25 285	57 505	966 789	15 975 024	19 330 384	35 197 306	1 369 197
334111	Electronic computer mfg	—	162	65	31 835	1 830 233	9 913	23 526	339 570	11 463 543	9 722 351	21 140 292	627 272
334112	Computer storage device mfg	—	81	34	14 090	663 561	6 283	14 218	224 586	2 177 503	3 174 217	5 371 171	477 856
334113	Computer terminal mfg	—	30	11	1 002	57 179	439	955	14 877	142 487	222 762	360 051	6 053
334119	Other computer peripheral equipment mfg	—	317	110	21 600	1 180 847	8 650	18 806	387 756	2 191 491	6 211 054	8 325 792	258 016
3342	Communications equipment mfg	1	550	302	71 160	3 886 957	23 041	43 696	825 554	15 054 319	8 477 272	23 376 973	752 554
33421	Telephone apparatus mfg	1	152	94	33 339	1 974 144	7 548	15 228	330 094	9 372 296	5 150 836	14 368 162	391 269
334210	Telephone apparatus mfg	1	152	94	33 339	1 974 144	7 548	15 228	330 094	9 372 296	5 150 836	14 368 162	391 269
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	309	173	34 937	1 808 285	14 205	26 182	467 506	5 386 202	3 068 362	8 445 990	348 924
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	309	173	34 937	1 808 285	14 205	26 182	467 506	5 386 202	3 068 362	8 445 990	348 924
33429	Other communications equipment mfg	2	89	35	2 884	104 528	1 288	2 286	27 954	295 821	258 074	562 821	12 361
334290	Other communications equipment mfg	2	89	35	2 884	104 528	1 288	2 286	27 954	295 821	258 074	562 821	12 361
3343	Audio & video equipment mfg	2	153	56	5 635	184 027	3 513	6 894	71 066	392 151	594 944	985 682	23 691
33431	Audio & video equipment mfg	2	153	56	5 635	184 027	3 513	6 894	71 066	392 151	594 944	985 682	23 691
334310	Audio & video equipment mfg	2	153	56	5 635	184 027	3 513	6 894	71 066	392 151	594 944	985 682	23 691

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CALIFORNIA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg	1	1 677	782	140 480	6 254 547	83 623	172 742	2 396 588	18 996 711	11 667 483	30 536 457	3 050 203
33441	Semiconductor & other electronic component mfg	1	1 677	782	140 480	6 254 547	83 623	172 742	2 396 588	18 996 711	11 667 483	30 536 457	3 050 203
334411	Electron tube mfg	—	38	15	3 452	158 430	2 608	5 492	110 874	18 996 711	11 667 483	30 536 457	3 050 203
334412	Bare printed circuit board mfg	—	392	174	22 258	747 137	16 241	33 296	411 914	2 108 724	1 376 576	3 507 457	286 675
334413	Semiconductor & related device mfg	—	410	186	54 377	3 319 676	25 253	49 952	936 657	10 988 501	5 277 059	16 040 142	2 417 514
334414	Electronic capacitor mfg	1	27	19	2 647	81 148	1 834	3 737	45 354	173 333	93 553	266 720	9 786
334415	Electronic resistor mfg	—	21	16	1 522	50 116	958	1 768	22 896	112 014	75 482	186 862	6 928
334416	Electronic coil, transformer, & other inductor mfg	2	84	29	2 128	58 576	1 649	3 538	33 458	121 848	75 689	196 903	3 873
334417	Electronic connector mfg	—	80	52	9 170	286 025	7 125	15 410	149 663	693 843	281 943	978 187	44 171
334418	Printed circuit assembly (electronic assembly) mfg	—	178	132	26 345	883 680	16 535	36 959	414 228	3 041 590	3 391 678	6 523 243	153 297
334419	Other electronic component mfg	2	447	159	18 581	669 759	11 420	22 590	271 544	1 466 040	914 899	2 373 297	103 553
3345	Navigational, measuring, medical, & control instruments mfg	—	1 044	455	93 509	5 181 317	36 440	72 661	1 496 517	13 360 882	6 519 547	19 894 826	680 263
33451	Navigational, measuring, medical, & control instruments mfg	—	1 044	455	93 509	5 181 317	36 440	72 661	1 496 517	13 360 882	6 519 547	19 894 826	680 263
334510	Electromedical & electrotherapeutic apparatus mfg	—	95	50	8 620	525 095	3 641	7 103	146 453	1 547 875	693 302	2 204 458	76 322
334511	Search, detection, navigation, & guidance instrument mfg	—	136	71	32 065	1 969 584	10 072	19 256	495 571	4 647 113	1 395 101	6 222 809	214 587
334512	Automatic environmental control mfg	1	43	12	1 526	52 680	851	1 789	23 134	208 064	133 571	341 240	9 570
334513	Industrial process control instrument mfg	1	174	71	7 852	302 032	3 318	6 656	101 464	639 342	349 507	997 276	31 723
334514	Totalizing fluid meter & counting device mfg	—	31	12	980	43 379	687	1 278	25 758	177 195	79 646	252 404	1 296
334515	Electricity measuring & testing instrument mfg	1	231	106	23 059	1 294 600	10 595	21 947	441 495	3 706 634	2 087 814	5 687 493	230 220
334516	Analytical laboratory instrument mfg	—	135	52	9 491	542 549	3 149	6 397	135 205	1 386 856	886 726	2 259 041	63 630
334517	Irradiation apparatus mfg	—	30	17	3 960	204 444	1 234	2 540	50 126	432 382	560 730	981 384	29 389
334518	Watch, clock, & part mfg	—	19	7	538	13 183	415	808	7 473	41 936	35 303	75 985	848
334519	Other measuring & controlling device mfg	1	150	57	5 418	233 771	2 478	4 887	69 838	573 485	297 847	872 736	22 678
3346	Mfg & reproducing magnetic & optical media	2	263	89	17 171	635 355	12 103	24 024	318 587	1 937 390	1 567 891	3 502 319	380 896
33461	Mfg & reproducing magnetic & optical media	2	263	89	17 171	635 355	12 103	24 024	318 587	1 937 390	1 567 891	3 502 319	380 896
334611	Software reproducing	3	34	19	1 265	43 789	923	2 097	27 366	175 636	85 036	261 672	31 163
334612	Prerecorded CD (except software), tape, & record reproducing	2	140	42	5 751	162 379	4 717	9 473	120 725	602 727	365 428	973 586	56 593
334613	Magnetic & optical recording media mfg	2	89	28	10 155	429 187	6 463	12 454	170 496	1 159 027	1 117 427	2 267 061	293 140
335	Electrical equipment, appliance, & component mfg	1	955	406	41 589	1 481 241	27 313	54 434	700 271	4 036 900	3 247 027	7 207 434	248 342
3351	Electric lighting equipment mfg	1	271	109	9 828	273 578	6 627	13 270	131 826	873 005	647 874	1 513 772	27 550
33511	Electric lamp bulb & part mfg	2	10	5	393	9 525	313	568	6 123	30 677	8 438	35 922	633
335110	Electric lamp bulb & part mfg	2	10	5	393	9 525	313	568	6 123	30 677	8 438	35 922	633
33512	Lighting fixture mfg	1	261	104	9 435	264 053	6 314	12 702	125 703	842 328	639 436	1 477 850	26 917
335121	Residential electric lighting fixture mfg	1	122	33	2 670	56 734	1 879	3 661	29 560	165 568	149 490	316 343	4 092
335122	Commercial/industrial/institutional electric lighting fixture mfg	1	71	38	3 122	97 317	1 977	3 879	43 991	322 163	231 290	552 928	11 378
335129	Other lighting equipment mfg	—	68	33	3 643	110 002	2 458	5 162	52 152	354 597	258 656	608 579	11 447

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CALIFORNIA—Con.												
	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg—Con.												
3352	Household appliance mfg.	—	35	15	2 030	51 172	1 567	3 115	28 079	228 620	237 637	461 020	11 503
33521	Small electrical appliance mfg.	1	14	6	603	12 835	542	1 062	8 760	21 610	56 266	75 402	462
335211	Electric housewares & household fan mfg.	2	12	5	f	D	D	D	D	D	D	D	D
335212	Household vacuum cleaner mfg.	—	2	1	c	D	D	D	D	D	D	D	D
33522	Major appliance mfg.	—	21	9	1 427	38 337	1 025	2 053	19 319	207 010	181 371	385 618	11 041
335221	Household cooking appliance mfg.	—	11	4	992	25 803	732	1 498	12 757	141 196	75 132	216 093	8 095
335222	Household refrigerator & home freezer mfg.	—	4	2	e	D	D	D	D	D	D	D	D
335228	Other major household appliance mfg.	—	6	3	c	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg.	1	321	110	11 012	380 838	7 128	13 968	179 295	927 248	636 295	1 539 582	46 312
33531	Electrical equipment mfg.	1	321	110	11 012	380 838	7 128	13 968	179 295	927 248	636 295	1 539 582	46 312
335311	Power, distribution, & specialty transformer mfg.	2	39	12	1 309	47 365	965	1 855	30 908	131 881	79 102	191 773	4 049
335312	Motor & generator mfg.	2	68	26	2 387	74 130	1 712	3 527	38 096	177 877	139 499	319 106	18 261
335313	Switchgear & switchboard apparatus mfg.	1	63	24	2 012	64 743	1 431	2 657	33 310	156 116	131 170	288 302	5 161
335314	Relay & industrial control mfg.	1	151	48	5 304	194 600	3 020	5 929	76 981	461 374	286 524	740 401	18 841
3359	Other electrical equipment & component mfg.	1	328	172	18 719	775 653	11 991	24 081	361 071	2 008 027	1 725 221	3 693 060	162 977
33591	Battery mfg.	—	21	11	1 726	63 341	1 444	2 872	48 204	180 259	178 106	356 601	9 032
335911	Storage battery mfg.	—	19	11	g	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg.	—	31	29	2 316	95 400	1 589	3 250	43 362	243 597	336 110	578 904	18 493
335921	Fiber optic cable mfg.	—	3	3	201	12 648	74	173	2 682	28 724	43 203	72 479	D
335929	Other communication & energy wire mfg.	—	28	26	2 115	82 752	1 515	3 077	40 680	214 873	292 907	506 425	D
33593	Wiring device mfg.	1	91	42	4 515	145 382	3 258	6 565	80 513	435 832	375 829	817 128	24 047
335931	Current-carrying wiring device mfg.	2	62	29	2 977	97 086	2 076	4 108	49 696	254 309	138 502	394 168	11 994
335932	Noncurrent-carrying wiring device mfg.	—	29	13	1 538	48 296	1 182	2 457	30 817	181 523	237 327	422 960	12 053
33599	All other electrical equipment & component mfg.	1	185	90	10 162	471 530	5 700	11 394	188 992	1 148 339	835 176	1 940 427	111 405
335991	Carbon & graphite product mfg.	—	12	6	702	22 293	440	976	13 298	75 463	69 341	146 260	9 938
335999	All other miscellaneous electrical equipment & component mfg.	1	173	84	9 460	449 237	5 260	10 418	175 694	1 072 876	765 835	1 794 167	101 467
336	Transportation equipment mfg.	—	1 705	653	167 087	7 557 133	93 627	181 704	3 128 832	16 187 271	17 771 250	34 817 993	1 495 380
3361	Motor vehicle mfg.	—	45	14	6 697	365 432	6 016	10 868	320 714	737 635	2 476 207	3 215 675	D
33611	Automobile & light duty motor vehicle mfg.	—	35	10	5 790	330 904	5 288	9 429	296 637	621 317	2 214 815	2 837 105	D
336111	Automobile mfg.	—	26	10	5 718	328 630	5 236	9 336	295 086	613 642	2 200 306	2 815 072	D
33612	Heavy duty truck mfg.	2	10	4	907	34 528	728	1 439	24 077	116 318	261 392	378 570	D
336120	Heavy duty truck mfg.	2	10	4	907	34 528	728	1 439	24 077	116 318	261 392	378 570	D
3362	Motor vehicle body & trailer mfg.	—	211	93	10 200	266 993	8 133	15 884	179 876	1 045 906	2 714 438	3 735 983	61 812
33621	Motor vehicle body & trailer mfg.	—	211	93	10 200	266 993	8 133	15 884	179 876	1 045 906	2 714 438	3 735 983	61 812
336211	Motor vehicle body mfg.	—	99	41	3 083	89 546	2 446	4 684	60 785	628 492	1 949 812	2 582 319	40 333
336212	Truck trailer mfg.	2	24	13	1 158	39 900	754	1 529	19 404	59 572	101 299	155 561	5 743
336213	Motor home mfg.	—	9	6	2 528	57 783	2 150	4 442	45 147	171 395	389 074	554 229	10 033
336214	Travel trailer & camper mfg.	1	79	33	3 431	79 764	2 783	5 229	54 540	186 447	274 253	443 874	5 703
3363	Motor vehicle parts mfg.	3	745	274	30 487	816 665	23 600	46 401	507 528	1 795 630	1 917 461	3 727 234	155 458
33631	Motor vehicle gasoline engine & engine parts mfg.	2	151	44	3 804	97 386	2 914	4 943	54 707	212 950	195 306	405 631	18 716
336311	Carburetor, piston, piston ring, & valve mfg.	1	25	12	1 153	27 456	950	1 718	17 041	49 516	30 578	79 848	2 727
336312	Gasoline engine & engine parts mfg.	3	126	32	2 651	69 930	1 964	3 225	37 666	163 434	164 728	325 783	15 989
33632	Motor vehicle electrical & electronic equipment mfg.	4	170	64	6 951	183 924	5 313	10 700	111 134	346 159	299 315	649 369	33 101
336321	Vehicular lighting equipment mfg.	5	14	5	411	13 767	309	561	9 501	32 870	29 220	62 528	1 662
336322	Other motor vehicle electrical & electronic equipment mfg.	4	156	59	6 540	170 157	5 004	10 139	101 633	313 289	270 095	586 841	31 439

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	CALIFORNIA—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3363	Motor vehicle parts mfg—Con.												
33633	Motor vehicle steering & suspension component (except spring) mfg	4	21	6	355	10 055	270	477	5 704	26 241	27 614	53 787	1 628
336330	Motor vehicle steering & suspension component (except spring) mfg	4	21	6	355	10 055	270	477	5 704	26 241	27 614	53 787	1 628
33634	Motor vehicle brake system mfg	—	22	9	1 175	29 382	949	1 958	19 502	36 411	126 574	166 381	3 637
336340	Motor vehicle brake system mfg	—	22	9	1 175	29 382	949	1 958	19 502	36 411	126 574	166 381	3 637
33635	Motor vehicle transmission & power train parts mfg	3	74	17	1 447	44 753	1 027	1 906	22 355	100 844	102 924	204 020	7 604
336350	Motor vehicle transmission & power train parts mfg	3	74	17	1 447	44 753	1 027	1 906	22 355	100 844	102 924	204 020	7 604
33636	Motor vehicle seating & interior trim mfg	—	54	17	2 157	53 674	1 723	3 412	35 563	113 460	180 390	294 621	7 066
336360	Motor vehicle seating & interior trim mfg	—	54	17	2 157	53 674	1 723	3 412	35 563	113 460	180 390	294 621	7 066
33637	Motor vehicle metal stamping	4	30	13	1 902	50 086	1 551	3 711	34 493	101 708	101 332	201 563	10 577
336370	Motor vehicle metal stamping	4	30	13	1 902	50 086	1 551	3 711	34 493	101 708	101 332	201 563	10 577
33639	Other motor vehicle parts mfg	3	223	104	12 696	347 405	9 853	19 294	224 070	857 857	884 006	1 751 862	73 129
336391	Motor vehicle air-conditioning mfg	—	6	2	c	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	3	217	102	j	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	—	343	165	102 956	5 566 864	43 791	83 146	1 789 722	11 458 036	9 724 440	22 060 118	937 764
33641	Aerospace product & parts mfg	—	343	165	102 956	5 566 864	43 791	83 146	1 789 722	11 458 036	9 724 440	22 060 118	937 764
336411	Aircraft mfg	—	20	11	27 628	1 586 384	16 878	28 139	674 889	2 096 510	4 118 524	6 886 107	101 041
336412	Aircraft engine & engine parts mfg	—	40	21	3 902	167 459	2 780	5 588	115 382	374 905	485 505	842 783	41 328
336413	Other aircraft part & auxiliary equipment mfg	—	250	109	30 395	1 339 695	14 937	29 511	605 546	3 037 957	1 800 715	4 675 069	220 857
336414	Guided missile & space vehicle mfg	—	8	8	31 286	1 904 029	6 299	13 747	270 330	4 864 244	2 812 134	8 092 229	519 547
336415	Guided missile & space vehicle propulsion unit & parts mfg	—	8	6	8 090	503 486	1 751	3 591	83 104	963 211	395 390	1 333 392	34 133
336419	Other guided missile & space vehicle parts & auxiliary equip mfg	1	17	10	1 655	65 811	1 146	2 570	40 471	121 209	112 172	230 538	20 858
3365	Railroad rolling stock mfg	—	5	3	e	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	—	5	3	e	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	—	5	3	e	D	D	D	D	D	D	D	D
3366	Ship & boat building	1	153	43	9 924	315 012	7 907	17 335	217 535	602 108	531 136	1 133 881	D
33661	Ship & boat building	1	153	43	9 924	315 012	7 907	17 335	217 535	602 108	531 136	1 133 881	D
336611	Ship building & repairing	1	74	25	8 179	267 381	6 506	14 384	183 714	511 281	412 496	923 777	D
336612	Boat building	4	79	18	1 745	47 631	1 401	2 951	33 821	90 827	118 640	210 104	D
3369	Other transportation equipment mfg	2	203	61	i	D	D	D	D	D	D	D	25 539
33699	Other transportation equipment mfg	2	203	61	i	D	D	D	D	D	D	D	25 539
336991	Motorcycle, bicycle, & parts mfg	3	160	42	3 353	94 392	2 422	4 496	52 566	261 397	215 490	474 642	16 918
336992	Military armored vehicle, tank, & tank component mfg	—	7	5	2 129	90 599	820	1 739	38 297	182 319	75 224	291 925	5 330
336999	All other transportation equipment mfg	1	36	14	g	D	D	D	D	D	D	D	3 291

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	CALIFORNIA—Con.												
31-33	Manufacturing—Con.												
337	Furniture & related product mfg	2	2 741	682	65 654	1 569 380	52 193	98 829	1 030 955	3 628 889	3 044 811	6 669 318	133 642
3371	Household & institutional furniture & kitchen cabinet mfg	2	1 994	389	40 634	897 207	33 265	62 984	613 575	1 883 522	1 748 077	3 633 464	70 509
33711	Wood kitchen cabinet & counter top mfg	3	912	72	7 991	198 641	6 083	11 532	127 736	405 488	288 815	695 407	16 170
337110	Wood kitchen cabinet & counter top mfg ...	3	912	72	7 991	198 641	6 083	11 532	127 736	405 488	288 815	695 407	16 170
33712	Household & institutional furniture mfg	2	1 082	317	32 643	698 566	27 182	51 452	485 839	1 478 034	1 459 262	2 938 057	54 339
337121	Upholstered household furniture mfg	1	294	88	8 792	194 154	7 508	14 664	144 771	425 216	452 779	880 638	7 745
337122	Nonupholstered wood household furniture mfg	2	511	134	13 736	250 728	11 914	21 336	183 761	499 745	550 071	1 058 702	25 492
337124	Metal household furniture mfg	1	95	34	4 090	94 910	3 189	6 686	60 744	212 761	186 824	392 988	10 978
337125	Household furniture (except wood & metal) mfg	2	40	9	930	25 463	663	1 367	15 100	56 220	56 125	112 196	2 392
337127	Institutional furniture mfg	1	123	43	4 451	121 117	3 339	6 365	72 680	257 542	182 327	435 327	6 433
337129	Wood television, radio, & sewing machine cabinet mfg	1	19	9	644	12 194	569	1 034	8 783	26 550	31 136	58 206	1 299
3372	Office furniture (including fixtures) mfg	1	582	230	18 621	517 519	14 225	26 539	327 587	1 256 160	805 608	2 056 525	42 760
33721	Office furniture (including fixtures) mfg	1	582	230	18 621	517 519	14 225	26 539	327 587	1 256 160	805 608	2 056 525	42 760
337211	Wood office furniture mfg	2	106	47	3 705	86 813	3 000	5 526	55 876	177 163	120 042	290 778	6 932
337212	Custom architectural woodwork & millwork mfg	1	117	37	2 589	77 428	1 849	3 155	45 920	140 493	71 501	214 050	3 764
337214	Office furniture (except wood) mfg	2	68	37	4 192	121 845	3 077	6 637	91 014	443 839	235 953	679 966	12 819
337215	Showcase, partition, shelving, & locker mfg	1	291	109	8 135	231 433	6 299	11 221	134 777	494 665	378 112	871 731	19 245
3379	Other furniture related product mfg	1	165	63	6 399	154 654	4 703	9 306	89 793	489 207	491 126	979 329	20 373
33791	Mattress mfg	1	104	35	2 979	78 576	2 314	4 521	48 363	268 077	259 733	524 470	12 695
337910	Mattress mfg	1	104	35	2 979	78 576	2 314	4 521	48 363	268 077	259 733	524 470	12 695
33792	Blind & shade mfg	2	61	28	3 420	76 078	2 389	4 785	41 430	221 130	231 393	454 859	7 678
337920	Blind & shade mfg	2	61	28	3 420	76 078	2 389	4 785	41 430	221 130	231 393	454 859	7 678
339	Miscellaneous mfg	1	4 539	851	99 035	3 249 987	64 295	123 730	1 453 986	9 445 538	5 234 664	14 620 323	520 052
3391	Medical equipment & supplies mfg	1	1 983	331	47 395	1 835 915	27 489	52 572	713 659	5 687 992	2 475 826	8 135 689	302 337
33911	Medical equipment & supplies mfg	1	1 983	331	47 395	1 835 915	27 489	52 572	713 659	5 687 992	2 475 826	8 135 689	302 337
339111	Laboratory apparatus & furniture mfg	-	68	31	3 058	123 119	1 406	2 746	41 083	279 502	182 090	468 524	17 522
339112	Surgical & medical instrument mfg	1	329	116	17 620	808 932	8 432	16 616	236 350	2 519 215	944 042	3 436 248	140 534
339113	Surgical appliance & supplies mfg	-	239	85	12 006	432 766	7 735	14 758	179 768	1 394 459	716 011	2 108 213	80 865
339114	Dental equipment & supplies mfg	-	168	32	4 017	150 532	2 528	4 457	70 459	490 389	226 749	717 498	16 824
339115	Ophthalmic goods mfg	-	81	26	4 765	164 422	3 076	6 481	90 302	702 242	295 990	987 458	36 638
339116	Dental laboratories ...	5	1 098	41	5 929	156 144	4 312	7 514	95 697	302 185	110 944	417 748	9 954
3399	Other miscellaneous mfg ..	2	2 556	520	51 640	1 414 072	36 806	71 158	740 327	3 757 546	2 758 838	6 484 634	217 715
33991	Jewelry & silverware mfg	2	557	66	6 895	152 464	5 095	8 895	85 252	419 232	394 600	808 126	11 496
339911	Jewelry (except costume) mfg	3	398	48	4 249	95 403	3 211	4 763	51 706	264 960	317 621	582 533	8 392
339912	Silverware & plated ware mfg	-	18	3	372	9 959	228	468	3 851	21 634	9 659	31 299	866
339913	Jewelers' material & lapidary work mfg ...	3	39	4	260	5 079	186	233	2 590	12 674	29 964	42 150	643
339914	Costume jewelry & novelty mfg	1	102	11	2 014	42 023	1 470	3 431	27 105	119 964	37 356	152 144	1 595
33992	Sporting & athletic goods mfg	1	471	107	14 246	424 202	9 970	20 812	194 947	1 398 520	1 020 601	2 390 046	86 884
339920	Sporting & athletic goods mfg	1	471	107	14 246	424 202	9 970	20 812	194 947	1 398 520	1 020 601	2 390 046	86 884
33993	Doll, toy, & game mfg ...	3	136	24	2 185	56 296	1 699	3 252	31 810	148 624	104 131	258 317	4 671
339931	Doll & stuffed toy mfg .	3	30	1	156	2 438	118	227	1 687	6 340	3 732	10 360	71
339932	Game, toy, & children's vehicle mfg	3	106	23	2 029	53 858	1 581	3 025	30 123	142 284	100 399	247 957	4 600

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CALIFORNIA—Con.												
	Manufacturing—Con.												
339	Miscellaneous mfg—Con.												
3399	Other miscellaneous mfg—Con.												
33994	Office supplies (except paper) mfg	1	147	31	3 345	93 268	2 345	4 601	61 815	240 698	191 035	421 683	19 579
339941	Pen & mechanical pencil mfg	—	13	3	906	39 108	750	1 639	32 448	108 284	99 628	198 636	D
339942	Lead pencil & art good mfg	4	31	6	482	11 167	266	427	4 414	27 965	21 045	48 946	D
339943	Marking device mfg . . .	1	89	16	1 465	32 782	962	2 015	18 944	78 178	34 851	112 509	2 266
339944	Carbon paper & inked ribbon mfg	—	14	6	492	10 211	367	520	6 009	26 271	35 511	61 592	2 605
33995	Sign mfg	2	582	85	6 877	205 921	4 444	8 244	99 485	410 295	231 623	647 684	13 055
339950	Sign mfg	2	582	85	6 877	205 921	4 444	8 244	99 485	410 295	231 623	647 684	13 055
33999	All other miscellaneous mfg	2	663	207	18 092	481 921	13 253	25 354	267 018	1 140 177	816 848	1 958 778	82 030
339991	Gasket, packing, & sealing device mfg . . .	2	85	43	4 023	126 127	2 853	6 232	70 881	273 669	153 318	424 290	13 389
339992	Musical instrument mfg	—	101	20	2 595	69 204	2 029	3 786	40 928	159 007	100 638	260 682	12 253
339993	Fastener, button, needle, & pin mfg	2	33	8	397	8 815	293	588	5 582	18 256	17 977	35 903	1 509
339994	Broom, brush, & mop mfg	—	23	11	591	18 146	447	870	9 706	33 232	30 319	64 321	944
339995	Burial casket mfg	3	11	1	110	2 921	86	180	1 959	7 357	3 089	10 496	137
339999	All other miscellaneous mfg	2	410	124	10 376	256 708	7 545	13 698	137 962	648 656	511 507	1 163 086	53 798

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

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

Table 2. Industry Statistics for Metropolitan Areas: 1997

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	BAKERSFIELD, CA MSA												
	Manufacturing	1	390	88	14 306	379 246	11 322	24 464	250 987	1 608 492	1 189 154	2 824 572	145 184
311	Food mfg	—	39	17	7 192	165 788	6 130	14 619	115 874	571 052	515 956	1 100 368	67 272
3114	Fruit & vegetable preserving & specialty food mfg	—	5	5	2 813	54 529	2 633	6 097	42 577	195 309	129 709	347 409	D
31141	Frozen food mfg	9	1	1	e	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg	9	1	1	e	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	—	4	4	g	D	D	D	D	D	D	D	D
311422	Specialty canning	—	1	1	g	D	D	D	D	D	D	D	D
3115	Dairy product mfg	—	2	1	e	D	D	D	D	D	D	D	D
31152	Ice cream & frozen dessert mfg	—	2	1	e	D	D	D	D	D	D	D	D
311520	Ice cream & frozen dessert mfg	—	2	1	e	D	D	D	D	D	D	D	D
3119	Other food mfg	—	9	7	3 755	91 360	3 024	7 570	59 183	334 238	332 010	652 181	45 420
31191	Snack food mfg	—	2	2	g	D	D	D	D	D	D	D	D
311911	Roasted nuts & peanut butter mfg	—	1	1	f	D	D	D	D	D	D	D	D
311919	Other snack food mfg . . .	—	1	1	f	D	D	D	D	D	D	D	D
31199	All other food mfg	—	6	4	g	D	D	D	D	D	D	D	D
311991	Perishable prepared food mfg	—	2	2	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	BAKERSFIELD, CA MSA—Con.												
	Manufacturing—Con.												
312	Beverage & tobacco product mfg	—	4	2	e	D	D	D	D	D	D	D	D
3121	Beverage mfg	—	4	2	e	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	—	4	2	e	D	D	D	D	D	D	D	D
312111	Soft drink mfg	—	1	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg	—	15	3	646	5 555	482	831	3 958	8 407	26 594	35 011	1 310
3219	Other wood product mfg ...	3	10	1	e	D	D	D	D	D	D	D	D
32192	Wood container & pallet mfg	1	5	1	376	1 426	350	563	1 228	1 732	848	2 700	64
321920	Wood container & pallet mfg	1	5	1	376	1 426	350	563	1 228	1 732	848	2 700	64
324	Petroleum & coal products mfg	1	12	5	447	24 862	273	514	13 813	297 438	229 082	534 570	15 516
3241	Petroleum & coal products mfg	1	12	5	447	24 862	273	514	13 813	297 438	229 082	534 570	15 516
32411	Petroleum refineries	—	5	4	334	21 413	189	370	11 569	287 234	201 849	497 056	14 544
324110	Petroleum refineries ..	—	5	4	334	21 413	189	370	11 569	287 234	201 849	497 056	14 544
325	Chemical mfg	—	22	9	1 216	47 858	904	1 769	31 287	379 576	133 351	513 488	26 981
3251	Basic chemical mfg	—	4	3	f	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	—	2	2	f	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg	—	2	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	15	4	480	14 224	364	694	8 903	49 224	36 262	86 415	11 356
3261	Plastics product mfg	—	14	4	e	D	D	D	D	D	D	D	D
32614	Polystyrene foam product mfg	—	1	1	e	D	D	D	D	D	D	D	D
326140	Polystyrene foam product mfg	—	1	1	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	28	11	823	28 456	637	1 279	20 030	104 070	81 472	187 135	8 512
3273	Cement & concrete product mfg	1	22	8	622	23 343	471	959	16 192	90 212	72 128	164 621	7 186
32731	Cement mfg	—	2	2	e	D	D	D	D	D	D	D	D
327310	Cement mfg	—	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	2	81	13	1 025	27 082	777	1 406	18 337	63 686	34 170	98 025	4 566
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	45	5	468	11 461	367	594	8 198	22 701	10 047	32 907	2 319
33271	Machine shops	2	40	5	425	10 381	335	545	7 432	19 488	9 013	28 593	2 069
332710	Machine shops	2	40	5	425	10 381	335	545	7 432	19 488	9 013	28 593	2 069
333	Machinery mfg	4	40	9	542	16 097	344	580	8 618	35 169	33 052	67 831	2 337
337	Furniture & related product mfg	—	27	4	491	11 068	420	864	8 070	21 058	15 478	36 060	689
3371	Household & institutional furniture & kitchen cabinet mfg	1	26	3	e	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	—	11	3	364	8 934	321	673	6 370	15 650	10 983	26 126	497
337122	Nonupholstered wood household furniture mfg	—	5	3	326	8 251	289	617	5 845	14 169	9 848	23 500	421
339	Miscellaneous mfg	1	34	3	454	14 017	328	617	7 389	37 245	14 909	52 118	662
3391	Medical equipment & supplies mfg	1	21	2	371	10 811	275	523	6 280	31 556	11 732	43 266	563
33911	Medical equipment & supplies mfg	1	21	2	371	10 811	275	523	6 280	31 556	11 732	43 266	563
339113	Surgical appliance & supplies mfg	—	5	2	311	9 582	228	454	5 667	28 425	10 135	38 483	422
31-33	CHICO—PARADISE, CA MSA												
	Manufacturing	2	232	53	4 944	128 396	3 939	7 703	89 668	377 262	397 132	771 554	41 327
311	Food mfg	3	25	10	1 283	33 615	1 149	2 177	26 795	121 956	132 075	255 136	5 279
3114	Fruit & vegetable preserving & specialty food mfg	3	7	5	f	D	D	D	D	D	D	D	2 299
31142	Fruit & vegetable canning, pickling, & drying	3	6	5	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	3	4	4	787	20 973	726	1 370	18 131	78 889	81 095	159 889	2 265

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CHICO-PARADISE, CA MSA—Con.												
	Manufacturing—Con.												
321	Wood product mfg	2	19	7	726	19 071	626	1 403	15 458	48 340	76 938	125 570	3 093
3219	Other wood product mfg . . .	2	15	4	519	12 321	454	1 016	10 172	22 869	48 313	72 923	D
32191	Millwork	2	8	4	470	11 515	414	958	9 612	21 405	46 670	69 780	833
321911	Wood window & door mfg	3	5	3	e	D	D	D	D	D	D	D	604
326	Plastics & rubber products mfg	1	10	4	313	7 677	268	525	5 492	20 452	13 341	34 002	2 269
3261	Plastics product mfg	1	10	4	313	7 677	268	525	5 492	20 452	13 341	34 002	2 269
333	Machinery mfg	3	24	7	457	14 217	343	706	9 803	29 952	25 266	55 050	1 922
336	Transportation equipment mfg	—	9	2	523	14 091	431	1 089	10 344	29 196	84 124	109 888	D
3362	Motor vehicle body & trailer mfg	—	1	1	e	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	—	1	1	e	D	D	D	D	D	D	D	D
336213	Motor home mfg	—	1	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	32	6	446	10 985	324	470	5 436	27 174	11 173	37 182	677
3399	Other miscellaneous mfg . . .	1	18	5	280	6 366	203	343	4 050	16 037	9 249	24 788	570
	FRESNO, CA MSA												
31-33	Manufacturing	1	790	263	31 465	825 040	22 927	44 934	512 787	2 798 199	3 992 278	6 619 922	197 782
311	Food mfg	2	129	71	11 742	279 879	9 254	18 137	186 103	1 106 609	2 120 754	3 147 244	67 715
3111	Animal food mfg	3	10	6	330	12 378	185	447	6 142	7 237	238 024	244 787	3 181
31111	Animal food mfg	3	10	6	330	12 378	185	447	6 142	7 237	238 024	244 787	3 181
311119	Other animal food mfg	3	10	6	330	12 378	185	447	6 142	7 237	238 024	244 787	3 181
3112	Grain & oilseed milling	2	7	5	e	D	D	D	D	D	D	D	9 876
3113	Sugar & confectionery product mfg	—	2	1	e	D	D	D	D	D	D	D	D
31131	Sugar mfg	—	1	1	e	D	D	D	D	D	D	D	D
311313	Beet sugar mfg	—	1	1	e	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	—	25	20	h	D	D	D	D	D	D	D	D
31141	Frozen food mfg	5	2	2	g	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg	5	2	2	g	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	—	23	18	h	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	—	10	8	1 462	34 554	1 335	2 689	27 494	193 577	224 562	420 011	17 704
311423	Dried & dehydrated food mfg	—	12	10	1 569	36 544	1 323	2 571	26 145	156 505	267 968	405 672	9 043
3115	Dairy product mfg	—	4	3	524	20 947	244	542	9 716	131 367	309 890	438 251	2 778
31151	Dairy product (except frozen) mfg	—	3	3	f	D	D	D	D	D	D	D	D
311511	Fluid milk mfg	—	2	2	e	D	D	D	D	D	D	D	D
3116	Meat product mfg	5	16	12	3 452	65 945	2 983	5 312	50 354	187 013	677 612	856 696	11 677
31161	Animal slaughtering & processing	5	16	12	3 452	65 945	2 983	5 312	50 354	187 013	677 612	856 696	11 677
311611	Animal (except poultry) slaughtering	9	7	4	930	21 718	770	983	14 896	50 609	387 890	438 401	3 073
311615	Poultry processing	—	3	3	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	—	47	13	1 779	49 811	1 154	2 324	28 685	182 763	109 622	290 239	3 360
31181	Bread & bakery product mfg	1	37	5	676	20 286	400	683	7 481	41 536	24 046	65 637	569
311812	Commercial bakeries	—	10	5	553	18 904	314	585	6 681	38 223	22 094	60 360	417
31182	Cookie, cracker, & pasta mfg	—	7	5	421	15 114	314	676	10 660	102 301	47 833	147 768	1 857
31183	Tortilla mfg	—	3	3	682	14 411	440	965	10 544	38 926	37 743	76 834	934
311830	Tortilla mfg	—	3	3	682	14 411	440	965	10 544	38 926	37 743	76 834	934
3119	Other food mfg	2	17	11	874	25 613	577	1 075	13 137	168 029	101 209	216 748	4 525
31191	Snack food mfg	2	7	6	394	9 790	319	563	6 270	84 673	44 684	101 634	1 939
31193	Flavoring syrup & concentrate mfg	1	3	3	387	13 700	195	364	5 708	75 662	48 005	98 974	2 031
311930	Flavoring syrup & concentrate mfg	1	3	3	387	13 700	195	364	5 708	75 662	48 005	98 974	2 031
312	Beverage & tobacco product mfg	—	18	12	2 241	51 181	1 081	2 338	31 260	338 024	534 228	777 526	44 411
3121	Beverage mfg	—	18	12	2 241	51 181	1 081	2 338	31 260	338 024	534 228	777 526	44 411
31211	Soft drink & ice mfg	—	3	3	g	D	D	D	D	D	D	D	D
312111	Soft drink mfg	—	2	2	g	D	D	D	D	D	D	D	D
31213	Wineries	—	15	9	g	D	D	D	D	D	D	D	D
312130	Wineries	—	15	9	g	D	D	D	D	D	D	D	D

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	FRESNO, CA MSA— Con. Manufacturing— Con.												
313	Textile mills	-	5	3	349	9 450	326	701	7 701	21 983	24 732	47 903	D
3132	Fabric mills	-	2	2	e	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills ..	-	1	1	e	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	1	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg	4	40	11	578	11 594	480	878	7 500	25 010	36 734	60 224	2 481
3219	Other wood product mfg ...	4	36	10	514	10 491	431	809	6 803	22 766	33 627	54 858	2 322
32192	Wood container & pallet mfg	2	18	7	311	5 974	266	464	4 009	12 143	18 139	29 897	1 686
321920	Wood container & pallet mfg	2	18	7	311	5 974	266	464	4 009	12 143	18 139	29 897	1 686
322	Paper mfg	-	14	11	1 238	34 771	829	1 833	21 686	78 330	142 299	222 132	5 329
3222	Converted paper product mfg	-	13	10	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	12	9	f	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	-	7	7	680	20 919	454	971	12 966	49 766	114 828	165 693	3 912
32223	Stationery product mfg ..	9	1	1	e	D	D	D	D	D	D	D	D
322233	Stationery, tablet, & related product mfg ..	9	1	1	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	2	84	12	1 092	27 360	721	1 279	15 665	54 473	35 680	90 500	2 788
3231	Printing & related support activities	2	84	12	1 092	27 360	721	1 279	15 665	54 473	35 680	90 500	2 788
32311	Printing	2	78	12	1 075	27 085	706	1 261	15 458	53 939	35 578	89 859	2 767
323110	Commercial lithographic printing ..	1	41	7	674	17 381	403	765	9 938	34 481	22 147	56 498	1 550
325	Chemical mfg	5	22	5	521	18 056	268	572	7 288	63 061	60 272	122 324	4 710
3251	Basic chemical mfg	7	6	2	316	10 970	131	286	3 442	21 766	13 635	31 750	2 010
32513	Dye & pigment mfg	9	1	1	e	D	D	D	D	D	D	D	D
325131	Inorganic dye & pigment mfg	9	1	1	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	30	16	1 208	31 415	970	1 959	21 672	118 009	98 206	217 309	13 104
3261	Plastics product mfg	1	26	15	1 063	28 120	850	1 705	19 077	115 854	92 077	207 457	D
32619	Other plastics product mfg	-	13	7	584	14 913	459	864	10 034	57 060	36 505	92 652	2 345
326199	All other plastics product mfg	-	12	6	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	47	20	1 846	65 889	1 454	2 988	48 303	278 270	172 472	453 563	13 220
3272	Glass & glass product mfg ..	-	7	5	990	36 945	815	1 701	27 313	171 936	103 052	278 889	10 688
32721	Glass & glass product mfg	-	7	5	990	36 945	815	1 701	27 313	171 936	103 052	278 889	10 688
327211	Flat glass mfg	-	2	2	e	D	D	D	D	D	D	D	D
327213	Glass container mfg ..	-	1	1	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	1	30	12	e	D	D	D	D	D	D	D	1 748
32732	Ready-mix concrete mfg ..	1	16	7	282	8 756	220	436	6 363	19 716	23 641	43 395	944
327320	Ready-mix concrete mfg	1	16	7	282	8 756	220	436	6 363	19 716	23 641	43 395	944
3279	Other nonmetallic mineral product mfg	-	5	3	e	D	D	D	D	D	D	D	755
32799	All other nonmetallic mineral product mfg ...	-	4	2	e	D	D	D	D	D	D	D	D
327993	Mineral wool mfg	-	1	1	e	D	D	D	D	D	D	D	D
331	Primary metal mfg	1	9	3	263	6 159	231	436	4 437	10 594	5 327	16 021	476
3315	Foundries	-	6	3	256	6 004	226	430	4 349	10 105	4 570	14 770	359
332	Fabricated metal product mfg	1	111	30	1 928	54 330	1 382	2 718	34 002	118 304	115 814	232 651	10 617
3323	Architectural & structural metals mfg	1	23	8	580	17 450	399	853	11 578	34 043	34 418	68 019	1 782
33232	Ornamental & architectural metal products mfg	2	15	5	400	11 472	264	530	7 177	20 607	16 929	37 117	1 496
3324	Boiler, tank, & shipping container mfg	1	8	6	e	D	D	D	D	D	D	D	1 583
33242	Metal tank (heavy gauge) mfg	2	6	5	254	7 275	170	333	4 362	13 593	10 416	24 020	D
332420	Metal tank (heavy gauge) mfg	2	6	5	254	7 275	170	333	4 362	13 593	10 416	24 020	D
3328	Coating, engraving, heat treating, & allied activities ..	1	19	4	274	6 742	207	419	4 005	13 823	5 188	19 014	D
33281	Coating, engraving, heat treating, & allied activities	1	19	4	274	6 742	207	419	4 005	13 823	5 188	19 014	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	FRESNO, CA MSA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3329	Other fabricated metal product mfg.....	2	13	6	431	11 783	306	534	7 141	33 996	35 612	69 064	4 352
33291	Metal valve mfg.....	2	4	3	308	8 436	222	379	5 272	26 097	26 282	51 879	D
332911	Industrial valve mfg...	2	2	2	e	D	D	D	D	D	D	D	D
333	Machinery mfg.....	—	75	30	4 406	136 840	3 058	5 817	73 291	285 351	410 486	695 283	19 000
3331	Agriculture, construction, & mining machinery mfg....	4	26	8	477	14 110	336	591	8 247	28 226	32 981	63 019	2 849
33311	Agricultural implement mfg.....	3	19	7	375	10 699	267	470	6 488	21 830	24 912	48 114	2 505
333111	Farm machinery & equipment mfg.....	3	18	7	e	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg..	—	12	4	367	15 079	188	381	6 221	31 903	27 290	59 286	927
33329	Other industrial machinery mfg.....	—	10	4	e	D	D	D	D	D	D	D	D
333294	Food product machinery mfg.....	—	8	4	e	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg..	—	3	1	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg.....	—	3	1	f	D	D	D	D	D	D	D	D
333311	Automatic vending machine mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	—	6	2	e	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg..	—	6	2	e	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg.....	—	3	2	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg.....	—	25	14	2 206	67 531	1 438	2 619	32 317	133 717	213 861	342 980	9 693
33391	Pump & compressor mfg.....	—	6	3	655	21 670	365	776	9 565	36 421	88 032	122 660	D
333911	Pump & pumping equipment mfg.....	—	5	3	f	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg.....	—	4	3	646	16 798	480	873	9 302	40 902	82 990	122 235	D
333923	Overhead traveling crane, hoist, & monorail system mfg..	—	1	1	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg.....	2	15	8	905	29 063	593	970	13 450	56 394	42 839	98 085	3 039
333993	Packaging machinery mfg.....	3	9	5	613	20 310	397	607	9 503	38 267	30 625	68 627	1 755
334	Computer & electronic product mfg.....	—	14	2	898	25 500	529	978	9 040	71 235	45 249	114 408	3 551
3342	Communications equipment mfg.....	—	4	2	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg.....	—	2	1	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg.....	—	2	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	2	36	16	877	20 896	703	1 327	14 258	41 804	74 691	117 003	1 778
3363	Motor vehicle parts mfg...	—	17	6	429	10 464	344	660	6 924	18 674	44 608	63 531	452
337	Furniture & related product mfg.....	1	47	7	676	11 862	580	929	8 878	20 757	22 373	44 868	847
3371	Household & institutional furniture & kitchen cabinet mfg.....	1	36	4	532	9 086	459	719	6 916	14 991	16 068	32 788	389
33712	Household & institutional furniture mfg.....	1	9	3	324	5 021	288	425	3 860	8 354	10 878	20 935	137
337122	Nonupholstered wood household furniture mfg.....	—	3	2	e	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	FRESNO, CA MSA—Con.												
31-33	Manufacturing—Con.												
339	Miscellaneous mfg	2	77	8	1 025	25 978	627	1 226	13 208	131 125	41 872	175 367	4 179
3391	Medical equipment & supplies mfg	1	46	4	653	18 922	395	776	9 467	111 376	30 187	144 205	3 392
33911	Medical equipment & supplies mfg	1	46	4	653	18 922	395	776	9 467	111 376	30 187	144 205	3 392
339113	Surgical appliance & supplies mfg	—	7	1	e	D	D	D	D	D	D	D	2 059
3399	Other miscellaneous mfg	4	31	4	372	7 056	232	450	3 741	19 749	11 685	31 162	787
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA												
31-33	Manufacturing	1	28 102	9 096	981 382	32 250 798	678 278	1 316 546	16 481 830	87 696 608	83 527 737	171 358 536	6 805 541
311	Food mfg	2	1 629	495	56 210	1 537 693	40 051	75 635	897 225	5 786 113	7 640 201	13 417 227	373 935
312	Beverage & tobacco product mfg	—	78	35	i	D	D	D	D	D	D	D	D
313	Textile mills	3	356	112	10 158	241 183	8 415	17 002	158 355	543 703	589 976	1 133 080	D
314	Textile product mills	2	679	182	j	D	D	D	D	D	D	D	D
315	Apparel mfg	2	4 306	1 348	106 559	1 841 038	89 572	150 512	1 220 728	4 614 668	4 982 057	9 502 458	D
316	Leather & allied product mfg	3	151	48	i	D	D	D	D	D	D	D	D
321	Wood product mfg	2	490	158	13 112	302 416	10 631	20 744	203 561	660 785	786 112	1 441 699	D
322	Paper mfg	1	364	218	21 413	757 320	15 965	33 297	479 449	2 068 893	2 928 542	4 975 520	155 616
323	Printing & related support activities	2	2 876	554	50 796	1 592 669	36 629	70 462	959 762	3 471 077	2 375 731	5 851 001	261 040
324	Petroleum & coal products mfg	2	94	33	i	D	D	D	D	D	D	D	D
325	Chemical mfg	1	881	341	35 931	1 389 505	21 696	43 775	621 085	6 468 685	5 430 099	11 885 738	420 413
326	Plastics & rubber products mfg	2	1 241	641	62 074	1 632 025	49 212	96 854	1 033 905	4 487 565	3 908 854	8 385 133	338 337
327	Nonmetallic mineral product mfg	1	738	279	21 570	654 332	16 545	32 867	445 159	1 859 095	1 568 661	3 446 295	158 975
331	Primary metal mfg	—	324	187	18 126	596 053	14 529	30 714	404 152	1 765 086	2 526 780	4 292 669	161 417
332	Fabricated metal product mfg	1	4 803	1 441	120 046	3 933 455	89 534	182 151	2 399 159	8 930 108	6 385 288	15 185 230	711 794
333	Machinery mfg	1	1 766	555	52 826	1 975 321	33 067	66 160	955 099	4 299 125	3 637 449	7 900 722	277 188
334	Computer & electronic product mfg	1	1 811	770	128 182	5 723 628	64 392	132 726	1 871 356	16 510 669	10 893 823	27 114 095	1 794 692
335	Electrical equipment, appliance, & component mfg	1	587	254	26 650	859 829	18 306	36 429	429 257	2 497 195	1 973 602	4 436 796	113 636
336	Transportation equipment mfg	—	1 068	457	117 677	5 297 056	65 792	126 079	2 151 548	10 392 073	11 864 989	23 040 469	D
337	Furniture & related product mfg	1	1 532	496	49 113	1 139 861	39 234	74 642	755 783	2 754 211	2 302 341	5 053 514	96 806
339	Miscellaneous mfg	1	2 328	492	55 638	1 697 131	38 431	73 404	832 062	4 815 787	2 914 282	7 715 137	260 136

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Los Angeles—Long Beach, CA PMSA												
31-33	Manufacturing	1	17 915	5 839	622 302	20 311 335	430 159	817 449	10 295 069	53 692 011	52 735 817	106 706 380	3 549 692
311	Food mfg.....	2	1 137	349	39 804	1 109 807	27 745	51 255	619 148	3 806 969	5 057 785	8 848 733	212 187
3111	Animal food mfg.....	1	21	9	1 633	62 488	1 059	2 390	43 127	482 609	382 021	853 306	23 720
31111	Animal food mfg.....	1	21	9	1 633	62 488	1 059	2 390	43 127	482 609	382 021	853 306	23 720
311111	Dog & cat food mfg...	-	11	7	1 522	58 184	1 003	2 259	40 997	468 540	352 884	808 986	22 923
3112	Grain & oilseed milling....	1	25	15	1 154	43 436	786	1 571	26 937	164 866	492 771	658 829	6 379
31121	Flour milling & malt mfg...	-	13	7	e	D	D	D	D	D	D	D	3 724
311211	Flour milling.....	-	10	6	273	11 330	185	390	6 523	66 588	186 214	253 755	D
31122	Starch & vegetable fats & oils mfg.....	2	11	7	645	22 970	459	936	16 001	79 738	245 688	325 425	2 655
311225	Fats & oils refining & blending.....	2	10	6	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg.....	-	38	10	1 231	37 323	1 015	1 997	24 254	115 411	111 611	228 899	14 484
31133	Confectionery mfg from purchased chocolate...	-	14	6	815	24 907	698	1 308	17 802	79 644	75 086	154 800	11 509
311330	Confectionery mfg from purchased chocolate.....	-	14	6	815	24 907	698	1 308	17 802	79 644	75 086	154 800	11 509
31134	Nonchocolate confectionery mfg.....	1	19	4	389	11 392	304	659	6 022	32 883	31 102	65 956	2 675
311340	Nonchocolate confectionery mfg...	1	19	4	389	11 392	304	659	6 022	32 883	31 102	65 956	2 675
3114	Fruit & vegetable preserving & specialty food mfg.....	3	64	37	4 418	109 798	3 552	6 070	63 785	344 101	409 460	753 307	33 630
31141	Frozen food mfg.....	2	31	20	2 637	58 209	2 292	3 867	35 575	179 567	203 089	382 949	13 869
311412	Frozen specialty food mfg.....	2	26	16	2 403	52 071	2 088	3 423	30 677	163 114	166 524	329 395	12 393
31142	Fruit & vegetable canning, pickling, & drying.....	4	33	17	1 781	51 589	1 260	2 203	28 210	164 534	206 371	370 358	19 761
311421	Fruit & vegetable canning.....	4	26	13	982	32 391	654	1 306	15 700	98 071	116 821	215 262	4 731
311422	Specialty canning.....	-	4	2	e	D	D	D	D	D	D	D	D
311423	Dried & dehydrated food mfg.....	7	3	2	e	D	D	D	D	D	D	D	D
3115	Dairy product mfg.....	2	56	35	4 061	150 854	2 434	4 772	73 884	477 923	1 027 431	1 501 073	31 602
31151	Dairy product (except frozen) mfg.....	2	38	27	3 439	127 394	2 007	3 852	56 916	410 561	888 909	1 295 173	27 543
311511	Fluid milk mfg.....	2	17	14	2 563	102 131	1 458	2 840	43 360	345 509	742 811	1 084 574	20 445
311513	Cheese mfg.....	-	11	6	323	7 609	262	483	5 609	14 434	68 268	82 236	D
311514	Dry, condensed, & evaporated dairy product mfg.....	5	9	6	e	D	D	D	D	D	D	D	3 976
31152	Ice cream & frozen dessert mfg.....	4	18	8	622	23 460	427	920	16 968	67 362	138 522	205 900	4 059
311520	Ice cream & frozen dessert mfg.....	4	18	8	622	23 460	427	920	16 968	67 362	138 522	205 900	4 059
3116	Meat product mfg.....	2	91	46	5 182	131 180	4 339	8 341	89 072	446 342	959 944	1 407 018	17 124
31161	Animal slaughtering & processing.....	2	91	46	5 182	131 180	4 339	8 341	89 072	446 342	959 944	1 407 018	17 124
311611	Animal (except poultry) slaughtering.....	1	28	10	2 239	58 146	1 910	4 182	44 090	186 705	550 236	737 817	4 520
311612	Meat processed from carcasses.....	4	52	27	1 990	52 541	1 655	3 151	33 778	189 518	322 903	511 574	8 794
311613	Rendering & meat byproduct processing.....	-	3	3	308	10 635	160	142	2 065	20 795	18 711	40 164	2 737
311615	Poultry processing.....	-	8	6	645	9 858	614	866	9 139	49 324	68 094	117 463	1 073
3117	Seafood product preparation & packaging..	-	39	14	2 151	47 942	1 848	3 256	33 305	113 960	332 397	444 806	8 667
31171	Seafood product preparation & packaging.....	-	39	14	2 151	47 942	1 848	3 256	33 305	113 960	332 397	444 806	8 667
311711	Seafood canning.....	-	11	5	1 043	21 857	881	1 505	15 496	49 836	112 391	161 833	D
311712	Fresh & frozen seafood processing..	-	28	9	1 108	26 085	967	1 751	17 809	64 124	220 006	282 973	D
3118	Bakeries & tortilla mfg....	2	654	112	14 690	377 072	9 016	16 171	188 269	1 090 541	690 126	1 780 170	51 241
31181	Bread & bakery product mfg.....	2	589	79	11 419	309 430	6 522	11 730	146 440	884 348	481 300	1 365 435	38 443
311811	Retail bakeries.....	5	450	25	2 486	30 776	1 610	2 042	16 060	66 449	41 860	108 460	4 436
311812	Commercial bakeries..	2	130	48	8 130	261 406	4 269	8 612	120 930	762 998	369 529	1 132 421	29 465
311813	Frozen cakes, pies, & other pastries mfg...	-	9	6	803	17 248	643	1 076	9 450	54 901	69 911	124 554	4 542
31182	Cookie, cracker, & pasta mfg.....	1	40	15	1 245	31 541	903	1 489	17 869	88 034	122 787	209 976	7 468
311821	Cookie & cracker mfg..	-	16	9	854	21 476	656	1 005	11 580	54 537	59 074	114 062	4 032
31183	Tortilla mfg.....	2	25	18	2 026	36 101	1 591	2 952	23 960	118 159	86 039	204 759	5 330
311830	Tortilla mfg.....	2	25	18	2 026	36 101	1 591	2 952	23 960	118 159	86 039	204 759	5 330

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Los Angeles—Long Beach, CA PMSA—Con.												
31-33	Manufacturing—Con.												
311	Food mfg—Con.												
3119	Other food mfg	1	149	71	5 284	149 714	3 696	6 687	76 515	571 216	652 024	1 221 325	25 340
31191	Snack food mfg	3	15	7	330	8 209	234	255	2 873	39 266	40 235	80 017	1 702
311919	Other snack food mfg	3	11	5	278	6 486	199	167	2 029	35 500	21 664	57 715	D
31192	Coffee & tea mfg	—	11	9	713	24 296	435	825	13 246	132 883	165 180	293 586	6 948
311920	Coffee & tea mfg	—	11	9	713	24 296	435	825	13 246	132 883	165 180	293 586	6 948
31194	Seasoning & dressing mfg	2	39	15	1 221	39 768	885	1 620	23 389	140 125	173 257	315 509	4 741
311941	Mayonnaise, dressing, & other prepared sauce mfg	2	19	8	745	22 516	610	1 175	15 412	81 058	111 100	192 156	2 832
311942	Spice & extract mfg	2	20	7	476	17 252	275	445	7 977	59 067	62 157	123 353	1 909
31199	All other food mfg	1	77	38	2 865	71 757	2 055	3 793	34 149	236 502	248 160	484 114	10 949
311991	Perishable prepared food mfg	1	28	19	1 583	37 827	1 208	2 286	20 297	115 701	102 453	217 829	5 984
311999	All other miscellaneous food mfg	1	49	19	1 282	33 930	847	1 507	13 852	120 801	145 707	266 285	4 965
312	Beverage & tobacco product mfg	—	42	20	3 903	186 955	2 567	5 428	118 664	1 398 461	1 294 489	2 684 831	135 821
3121	Beverage mfg	—	41	20	h	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	—	28	14	1 829	68 867	993	2 168	32 096	380 057	603 455	979 844	8 210
312111	Soft drink mfg	—	15	10	1 560	60 319	834	1 796	26 894	363 124	596 973	956 344	6 834
31212	Breweries	—	8	5	g	D	D	D	D	D	D	D	127 189
312120	Breweries	—	8	5	g	D	D	D	D	D	D	D	127 189
313	Textile mills	3	294	96	8 465	199 648	7 037	14 061	133 233	456 885	494 821	943 774	42 653
3131	Fiber, yarn, & thread mills	5	20	5	306	4 075	275	523	3 396	10 583	11 985	22 165	D
31311	Fiber, yarn, & thread mills	5	20	5	306	4 075	275	523	3 396	10 583	11 985	22 165	D
3132	Fabric mills	3	116	37	4 252	93 820	3 584	6 841	61 354	190 471	209 197	399 319	18 144
31321	Broadwoven fabric mills	8	43	8	934	15 783	854	1 175	13 273	26 901	32 448	59 338	3 090
313210	Broadwoven fabric mills	8	43	8	934	15 783	854	1 175	13 273	26 901	32 448	59 338	3 090
31322	Narrow fabric mills & schiffli machine embroidery	1	38	11	1 346	26 829	1 175	2 509	19 929	65 267	28 344	93 376	D
313221	Narrow fabric mills	1	18	5	670	15 020	566	1 236	11 093	42 231	19 325	61 374	D
313222	Schiffli machine embroidery	—	20	6	676	11 809	609	1 273	8 836	23 036	9 019	32 002	D
31324	Knit fabric mills	2	31	17	1 891	50 394	1 489	3 042	27 574	96 043	145 443	241 411	D
313241	Weft knit fabric mills	2	24	14	g	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	3	158	54	3 907	101 753	3 178	6 697	68 483	255 831	273 639	522 290	D
31331	Textile & fabric finishing mills	3	142	48	3 626	91 130	2 975	6 263	62 407	231 966	238 495	463 194	D
313311	Broadwoven fabric finishing mills	2	103	30	1 772	44 922	1 398	2 835	28 189	135 697	138 014	270 449	D
313312	Textile & fabric finishing mills	3	39	18	1 854	46 208	1 577	3 428	34 218	96 269	100 481	192 745	13 816
31332	Fabric coating mills	6	16	6	281	10 623	203	434	6 076	23 865	35 144	59 096	D
313320	Fabric coating mills	6	16	6	281	10 623	203	434	6 076	23 865	35 144	59 096	D
314	Textile product mills	3	474	132	13 116	259 825	10 584	21 440	160 825	608 438	774 719	1 375 692	31 051
3141	Textile furnishings mills	3	174	48	6 507	142 873	5 206	9 980	86 796	388 014	569 448	952 094	14 951
31411	Carpet & rug mills	3	15	9	2 217	71 582	1 576	3 438	34 429	219 608	296 156	515 471	9 525
314110	Carpet & rug mills	3	15	9	2 217	71 582	1 576	3 438	34 429	219 608	296 156	515 471	9 525
31412	Curtain & linen mills	3	159	39	4 290	71 291	3 630	6 542	52 367	168 406	273 292	436 623	5 426
314121	Curtain & drapery mills	4	91	5	535	8 631	364	644	4 298	17 037	14 644	31 936	327
314129	Other household textile product mills	3	68	34	3 755	62 660	3 266	5 898	48 069	151 369	258 648	404 687	5 099
3149	Other textile product mills	3	300	84	6 609	116 952	5 378	11 460	74 029	220 424	205 271	423 598	16 100
31491	Textile bag & canvas mills	3	98	17	2 144	40 779	1 735	2 813	20 972	67 519	65 315	128 984	2 732
314911	Textile bag mills	1	24	7	1 250	20 442	1 094	1 690	9 817	33 830	39 658	69 650	556
314912	Canvas & related product mills	6	74	10	894	20 337	641	1 123	11 155	33 689	25 657	59 334	2 176
31499	All other textile product mills	3	202	67	4 465	76 173	3 643	8 647	53 057	152 905	139 956	294 614	13 368
314999	All other miscellaneous textile product mills	3	198	66	4 403	74 476	3 588	8 539	51 637	149 038	136 424	286 971	13 314

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Los Angeles—Long Beach, CA PMSA—Con.												
31-33	Manufacturing—Con.												
315	Apparel mfg	2	3 808	1 237	96 523	1 657 920	81 336	136 236	1 109 099	4 138 202	4 523 877	8 574 606	170 913
3151	Apparel knitting mills	1	95	42	3 655	63 524	3 069	6 065	44 050	148 588	178 999	329 526	14 301
31511	Hosiery & sock mills	3	14	3	e	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills	1	81	39	h	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills	1	76	38	h	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	2	3 487	1 143	87 805	1 498 829	74 112	123 135	1 004 794	3 755 285	4 138 962	7 804 565	147 083
31521	Cut & sew apparel contractors	5	2 354	683	45 622	505 746	42 805	65 405	441 699	884 415	255 818	1 129 442	32 637
315211	Men's & boys' cut & sew apparel contractors	3	102	62	4 320	54 341	4 098	7 193	48 402	105 431	15 786	121 030	3 247
315212	Women's, girls', & infants' cut & sew apparel contractors ..	5	2 252	621	41 302	451 405	38 707	58 212	393 297	778 984	240 032	1 008 412	29 390
31522	Men's & boys' cut & sew apparel mfg	2	237	101	9 113	171 945	7 851	14 701	125 015	399 898	475 869	861 767	13 110
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	2	88	45	2 951	60 131	2 410	4 454	41 848	143 473	239 872	373 044	4 046
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	1	43	25	h	D	D	D	D	D	D	D	3 926
315225	Men's & boys' cut & sew work clothing mfg	5	18	5	e	D	D	D	D	D	D	D	D
315228	Men's & boys' cut & sew other outerwear mfg	5	60	19	g	D	D	D	D	D	D	D	4 724
31523	Women's & girls' cut & sew apparel mfg	1	828	342	31 906	799 414	22 532	41 441	424 050	2 428 128	3 370 659	5 734 794	100 039
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	2	34	15	1 321	30 391	939	1 814	16 675	71 916	114 007	183 230	1 176
315232	Women's & girls' cut & sew blouse & shirt mfg	2	264	104	9 034	229 218	6 605	11 064	119 993	679 230	1 019 561	1 669 252	9 760
315233	Women's & girls' cut & sew dress mfg	1	233	101	7 939	231 330	5 306	10 177	117 917	624 227	960 042	1 568 854	14 152
315234	Women's & girls' cut & sew suit, coat, skirt mfg	-	69	24	1 768	42 139	1 238	2 054	23 295	136 160	172 749	304 605	1 042
315239	Women's & girls' cut & sew other outerwear mfg	1	228	98	11 844	266 336	8 444	16 332	146 170	916 595	1 104 300	2 008 853	73 909
31529	Other cut & sew apparel mfg	6	68	17	1 164	21 724	924	1 588	14 030	42 844	36 616	78 562	1 297
315299	All other cut & sew apparel mfg	8	47	14	903	15 290	695	1 173	9 684	31 145	25 567	56 002	767
3159	Apparel accessories & other apparel mfg	2	226	52	5 063	95 567	4 155	7 036	60 255	234 329	205 916	440 515	9 529
31599	Apparel accessories & other apparel mfg	2	226	52	5 063	95 567	4 155	7 036	60 255	234 329	205 916	440 515	9 529
315991	Hat, cap, & millinery mfg	5	33	8	f	D	D	D	D	D	D	D	D
315993	Men's & boys' neckwear mfg	-	11	3	772	14 445	715	1 267	11 191	62 532	52 718	114 114	D
315999	Other apparel accessories & other apparel mfg	3	181	40	3 633	70 762	2 865	4 765	41 459	152 955	138 120	292 741	7 994
316	Leather & allied product mfg .	2	114	40	4 283	74 460	3 616	6 621	50 843	154 236	125 157	280 537	5 037
3162	Footwear mfg	3	48	18	1 436	21 299	1 318	2 297	16 545	45 875	30 145	75 517	D
31621	Footwear mfg	3	48	18	1 436	21 299	1 318	2 297	16 545	45 875	30 145	75 517	D
316214	Women's footwear (except athletic) mfg .	2	23	11	947	13 972	866	1 649	10 951	29 559	17 316	47 084	358
316219	Other footwear mfg ...	1	13	4	336	4 520	319	448	3 545	8 897	5 622	13 878	D
3169	Other leather & allied product mfg	1	53	22	2 757	51 117	2 231	4 194	32 956	104 314	89 131	195 177	3 856
31699	Other leather & allied product mfg	1	53	22	2 757	51 117	2 231	4 194	32 956	104 314	89 131	195 177	3 856
316991	Luggage mfg	-	16	9	706	15 046	563	1 043	9 021	35 098	22 532	57 310	D
316993	Personal leather good (except women's handbag & purse) mfg	-	10	2	419	8 282	366	788	5 344	12 340	10 588	22 681	D
316999	All other leather good mfg	2	20	8	1 437	24 727	1 125	2 015	16 159	50 988	50 615	103 936	D

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	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Los Angeles—Long Beach, CA PMSA—Con.												
31-33	Manufacturing—Con.												
321	Wood product mfg	2	251	78	5 949	136 756	4 722	9 512	91 418	275 060	266 665	541 309	14 867
3212	Veneer, plywood, & engineered wood product mfg	1	17	6	436	9 861	396	876	8 413	28 338	46 582	74 133	1 590
32121	Veneer, plywood, & engineered wood product mfg	1	17	6	436	9 861	396	876	8 413	28 338	46 582	74 133	1 590
321211	Hardwood veneer & plywood mfg	1	8	5	297	7 010	270	603	5 757	15 490	19 627	35 282	721
3219	Other wood product mfg ...	2	231	72	5 475	125 765	4 295	8 578	82 258	244 806	215 924	460 919	12 865
32191	Millwork	2	105	35	2 830	67 640	2 266	4 626	45 390	127 431	102 721	229 899	5 682
321911	Wood window & door mfg	2	43	15	1 568	36 548	1 273	2 701	26 516	75 670	56 605	132 507	4 320
321912	Cut stock, resawing lumber, & planing	3	17	6	277	6 164	245	432	4 989	10 853	11 366	22 202	448
321918	Other millwork (including flooring) ...	1	45	14	985	24 928	748	1 493	13 885	40 908	34 750	75 190	914
32192	Wood container & pallet mfg	2	66	21	1 315	27 046	1 095	2 125	18 572	57 589	55 278	112 786	2 117
321920	Wood container & pallet mfg	2	66	21	1 315	27 046	1 095	2 125	18 572	57 589	55 278	112 786	2 117
32199	All other wood product mfg	2	60	16	1 330	31 079	934	1 827	18 296	59 786	57 925	118 234	5 066
321999	All other miscellaneous wood product mfg ...	2	56	16	1 274	29 566	894	1 744	17 383	56 825	53 490	110 815	4 936
322	Paper mfg	1	236	140	13 243	462 103	9 932	20 644	287 298	1 106 414	1 489 516	2 603 459	70 209
3221	Pulp, paper, & paperboard mills	—	10	9	1 020	53 588	753	1 725	32 981	146 017	227 350	375 762	11 302
32212	Paper mills	—	3	2	e	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
3222	Converted paper product mfg	1	226	131	12 223	408 515	9 179	18 919	254 317	960 397	1 262 166	2 227 697	58 907
32221	Paperboard container mfg	1	97	63	6 988	262 630	5 244	11 230	156 902	582 029	837 805	1 416 760	33 366
322211	Corrugated & solid fiber box mfg	1	56	35	4 417	172 195	3 216	7 134	103 410	380 393	662 709	1 040 455	24 519
322212	Folding paperboard box mfg	—	25	17	1 781	70 979	1 353	2 822	40 753	153 380	120 829	274 450	6 765
322213	Setup paperboard box mfg	—	5	4	409	7 329	355	677	5 075	13 043	7 806	20 155	D
32222	Paper bag & coated & treated paper mfg	1	35	18	1 404	41 947	929	1 882	24 470	98 347	117 173	219 130	8 687
322222	Coated & laminated paper mfg	2	23	13	857	26 626	514	990	14 854	64 076	64 922	132 681	6 597
322224	Uncoated paper & multiwall bag mfg	—	3	2	e	D	D	D	D	D	D	D	D
32223	Stationery product mfg ..	1	56	28	2 406	69 638	1 897	3 833	49 110	176 038	193 807	372 161	9 742
322231	Die-cut paper & paperboard office supplies mfg	1	27	10	949	23 956	796	1 598	18 168	77 073	71 073	151 270	1 732
322232	Envelope mfg	2	22	13	1 273	39 911	975	2 029	28 185	87 843	115 420	202 126	7 888
32229	Other converted paper product mfg	2	38	22	1 425	34 300	1 109	1 974	23 835	103 983	113 381	219 646	7 112
322291	Sanitary paper product mfg	4	10	4	e	D	D	D	D	D	D	D	D
322299	All other converted paper product mfg ...	1	28	18	g	D	D	D	D	D	D	D	D
323	Printing & related support activities	2	1 787	367	34 106	1 087 217	24 797	48 530	664 510	2 301 126	1 604 372	3 908 372	171 848
3231	Printing & related support activities	2	1 787	367	34 106	1 087 217	24 797	48 530	664 510	2 301 126	1 604 372	3 908 372	171 848
32311	Printing	2	1 564	308	30 084	949 992	21 802	42 752	575 926	2 050 909	1 544 827	3 598 325	153 594
323110	Commercial lithographic printing ..	2	745	157	15 740	592 638	11 053	23 512	368 107	1 274 498	897 611	2 179 626	105 885
323112	Commercial flexographic printing ..	3	38	8	464	15 149	327	589	8 110	31 168	22 423	53 515	2 229
323113	Commercial screen printing	1	219	75	7 059	161 190	5 622	10 090	90 541	318 671	297 875	614 630	18 254
323114	Quick printing	4	328	12	1 618	36 768	1 187	1 781	23 924	78 683	46 316	124 782	5 455
323116	Manifold business form printing	—	37	19	2 086	57 178	1 244	2 386	30 010	171 631	137 494	306 641	3 864
323117	Book printing	2	31	11	654	24 349	499	916	14 126	49 878	39 409	89 165	6 789
323118	Blankbook, looseleaf binder, & device mfg .	1	17	8	987	21 932	806	1 640	15 502	56 334	50 023	106 251	6 558
323119	Other commercial printing	4	119	15	1 196	33 327	843	1 499	20 550	52 492	45 917	98 426	3 127

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Los Angeles—Long Beach, CA PMSA—Con.												
31-33	Manufacturing—Con.												
323	Printing & related support activities—Con.												
3231	Printing & related support activities—Con.												
32312	Support activities for printing	2	223	59	4 022	137 225	2 995	5 778	88 584	250 217	59 545	310 047	18 254
323121	Tradebinding & related work	4	73	25	1 728	37 896	1 501	2 917	28 967	72 193	15 148	87 224	5 546
323122	Prepress services	1	150	34	2 294	99 329	1 494	2 861	59 617	178 024	44 397	222 823	12 708
324	Petroleum & coal products mfg	2	61	29	6 256	362 649	3 963	9 016	222 575	3 014 598	7 731 279	10 756 249	413 648
3241	Petroleum & coal products mfg	2	61	29	6 256	362 649	3 963	9 016	222 575	3 014 598	7 731 279	10 756 249	413 648
32411	Petroleum refineries	2	14	14	5 077	312 687	3 091	7 021	188 087	2 805 292	7 355 467	10 164 509	397 841
324110	Petroleum refineries ..	2	14	14	5 077	312 687	3 091	7 021	188 087	2 805 292	7 355 467	10 164 509	397 841
32412	Asphalt paving, roofing, & saturated materials mfg	3	30	9	730	31 350	569	1 292	22 982	119 183	228 387	351 724	12 387
324122	Asphalt shingle & coating materials mfg	3	12	8	592	25 519	463	1 083	18 503	92 915	158 766	255 622	9 064
32419	Other petroleum & coal products mfg	2	17	6	449	18 612	303	703	11 506	90 123	147 425	240 016	3 420
324191	Petroleum lubricating oil & grease mfg	2	15	5	e	D	D	D	D	D	D	D	D
325	Chemical mfg	1	552	227	24 255	922 940	14 570	29 178	419 124	4 011 248	3 506 824	7 506 277	267 955
3251	Basic chemical mfg	2	52	22	1 507	68 259	868	1 870	35 832	258 038	276 426	545 239	29 257
32512	Industrial gas mfg	2	15	7	414	19 113	242	557	10 574	62 810	31 886	94 217	6 858
325120	Industrial gas mfg	2	15	7	414	19 113	242	557	10 574	62 810	31 886	94 217	6 858
32518	Other basic inorganic chemical mfg	—	14	6	555	24 220	347	762	13 956	91 349	95 781	191 426	13 695
325188	All other basic inorganic chemical mfg	—	12	6	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	2	17	8	497	23 762	252	517	10 626	98 587	143 354	248 922	7 926
325199	All other basic organic chemical mfg	2	17	8	497	23 762	252	517	10 626	98 587	143 354	248 922	7 926
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	1	24	17	1 010	47 949	640	1 448	24 619	212 463	396 529	623 415	27 115
32521	Resin & synthetic rubber mfg	1	24	17	1 010	47 949	640	1 448	24 619	212 463	396 529	623 415	27 115
325211	Plastics material & resin mfg	1	20	15	913	42 314	573	1 313	21 905	199 065	369 400	582 799	D
3253	Pesticide, fertilizer, & other agricultural chemical mfg .	1	20	8	637	18 790	257	481	6 944	103 454	73 679	174 002	5 064
32531	Fertilizer mfg	—	10	4	341	8 064	101	184	2 535	50 923	23 709	73 036	964
32532	Pesticide & other agricultural chemical mfg	2	10	4	296	10 726	156	297	4 409	52 531	49 970	100 966	4 100
325320	Pesticide & other agricultural chemical mfg	2	10	4	296	10 726	156	297	4 409	52 531	49 970	100 966	4 100
3254	Pharmaceutical & medicine mfg	—	70	34	5 775	245 530	3 370	7 156	118 873	1 322 173	1 043 527	2 327 351	109 069
32541	Pharmaceutical & medicine mfg	—	70	34	5 775	245 530	3 370	7 156	118 873	1 322 173	1 043 527	2 327 351	109 069
325411	Medicinal & botanical mfg	1	25	11	1 520	68 024	889	2 138	29 681	294 221	248 509	549 657	37 401
325412	Pharmaceutical preparation mfg	—	33	17	2 151	86 134	1 323	2 634	40 140	544 364	355 321	901 268	42 541
325413	In-vitro diagnostic substance mfg	—	6	3	f	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) mfg	—	6	3	g	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	—	105	38	3 067	120 751	1 774	3 331	47 037	525 483	491 758	1 010 248	18 845
32551	Paint & coating mfg	1	74	27	2 219	83 320	1 325	2 475	34 894	386 902	386 558	766 494	13 143
325510	Paint & coating mfg	1	74	27	2 219	83 320	1 325	2 475	34 894	386 902	386 558	766 494	13 143
32552	Adhesive mfg	—	31	11	848	37 431	449	856	12 143	138 581	105 200	243 754	5 702
325520	Adhesive mfg	—	31	11	848	37 431	449	856	12 143	138 581	105 200	243 754	5 702

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Los Angeles—Long Beach, CA PMSA—Con.												
31-33	Manufacturing—Con.												
325	Chemical mfg—Con.												
3256	Soap, cleaning compound, & toilet preparation mfg ..	1	162	62	8 104	274 780	5 048	9 543	116 377	1 132 796	715 802	1 859 447	43 128
32561	Soap & cleaning compound mfg	3	87	24	1 743	58 744	1 078	2 252	30 209	277 548	222 508	501 427	12 567
325611	Soap & other detergent mfg	3	38	12	767	27 612	417	834	13 306	112 519	96 693	211 021	4 765
325612	Polish & other sanitation good mfg ..	3	40	11	876	25 915	620	1 332	15 565	153 919	108 697	262 065	6 651
32562	Toilet preparation mfg ...	1	75	38	6 361	216 036	3 970	7 291	86 168	855 248	493 294	1 358 020	30 561
325620	Toilet preparation mfg .	1	75	38	6 361	216 036	3 970	7 291	86 168	855 248	493 294	1 358 020	30 561
3259	Other chemical product mfg	1	119	46	4 155	146 881	2 613	5 349	69 442	456 841	509 103	966 575	35 477
32591	Printing ink mfg	1	28	12	f	D	D	D	D	D	D	D	D
325910	Printing ink mfg	1	28	12	f	D	D	D	D	D	D	D	D
32592	Explosives mfg	—	2	2	f	D	D	D	D	D	D	D	D
325920	Explosives mfg	—	2	2	f	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg	2	89	32	2 946	99 310	1 827	3 540	47 555	366 991	383 517	748 222	26 819
325991	Custom compounding of purchased resin ...	1	34	17	1 438	48 664	884	1 720	23 557	132 136	190 207	321 839	16 116
325992	Photographic film, paper, plate, & chemical mfg	2	19	6	707	20 697	559	1 086	12 577	50 335	39 901	90 992	2 165
325998	All other miscellaneous chemical product & preparation mfg	3	36	9	801	29 949	384	734	11 421	184 520	153 409	335 391	8 538
326	Plastics & rubber products mfg	2	622	310	28 194	739 118	22 532	44 357	463 624	1 956 710	1 808 320	3 747 182	165 584
3261	Plastics product mfg	2	514	267	24 496	642 575	19 643	38 508	405 743	1 691 984	1 574 369	3 242 925	153 972
32611	Unsupported plastics film, sheet, & bag mfg ..	1	78	44	3 472	99 646	2 822	5 892	63 130	257 250	354 954	606 271	25 158
326111	Unsupported plastics bag mfg	—	41	24	2 246	56 960	1 887	3 997	36 732	124 690	187 510	307 446	17 325
326113	Unsupported plastics film & sheet (except packaging) mfg	2	33	16	1 020	34 268	778	1 520	20 961	112 115	138 375	249 401	6 162
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	2	39	16	1 134	33 226	890	1 705	19 542	82 683	61 519	143 157	4 613
326121	Unsupported plastics profile shape mfg	3	28	12	857	25 839	694	1 322	15 590	61 605	45 433	107 172	3 504
326122	Plastics pipe & pipe fitting mfg	1	11	4	277	7 387	196	383	3 952	21 078	16 086	35 985	1 109
32613	Laminated plastics plate, sheet, & shape mfg	1	16	4	424	14 385	279	533	5 376	35 699	31 160	66 621	1 332
326130	Laminated plastics plate, sheet, & shape mfg	1	16	4	424	14 385	279	533	5 376	35 699	31 160	66 621	1 332
32614	Polystyrene foam product mfg	3	19	12	733	18 834	564	1 022	11 871	58 105	46 651	106 041	3 793
326140	Polystyrene foam product mfg	3	19	12	733	18 834	564	1 022	11 871	58 105	46 651	106 041	3 793
32615	Urethane & other foam product (except polystyrene) mfg	2	24	15	1 700	41 696	1 320	2 707	25 917	111 016	173 136	279 288	8 735
326150	Urethane & other foam product (except polystyrene) mfg	2	24	15	1 700	41 696	1 320	2 707	25 917	111 016	173 136	279 288	8 735
32616	Plastics bottle mfg	—	19	10	1 371	34 501	1 028	2 259	22 434	83 475	92 101	175 422	21 457
326160	Plastics bottle mfg	—	19	10	1 371	34 501	1 028	2 259	22 434	83 475	92 101	175 422	21 457
32619	Other plastics product mfg	3	319	166	15 662	400 287	12 740	24 390	257 473	1 063 756	814 848	1 866 125	88 884
326191	Plastics plumbing fixture mfg	7	13	8	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	3	304	157	14 702	374 085	11 927	22 630	237 215	987 358	752 718	1 727 707	84 843

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	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Los Angeles—Long Beach, CA PMSA—Con.												
31-33	Manufacturing—Con.												
326	Plastics & rubber products mfg—Con.												
3262	Rubber product mfg	1	108	43	3 698	96 543	2 889	5 849	57 881	264 726	233 951	504 257	11 612
32621	Tire mfg	—	23	5	374	10 847	200	474	5 056	18 302	31 572	49 801	1 060
326212	Tire retreading	—	19	4	273	7 034	121	283	2 912	10 084	26 301	36 312	D
32622	Rubber & plastics hoses & belting mfg	—	6	4	387	9 567	348	659	6 588	31 521	35 337	68 881	2 165
326220	Rubber & plastics hoses & belting mfg..	—	6	4	387	9 567	348	659	6 588	31 521	35 337	68 881	2 165
32629	Other rubber product mfg	2	79	34	2 937	76 129	2 341	4 716	46 237	214 903	167 042	385 575	8 387
326291	Rubber product mfg for mechanical use	1	38	13	1 001	25 051	821	1 711	15 762	75 939	22 995	98 540	1 750
326299	All other rubber product mfg	2	41	21	1 936	51 078	1 520	3 005	30 475	138 964	144 047	287 035	6 637
327	Nonmetallic mineral product mfg	1	379	136	10 223	294 743	7 949	15 444	205 924	785 274	670 206	1 460 879	58 796
3271	Clay product & refractory mfg	2	80	37	2 505	51 629	2 040	3 886	36 326	113 358	58 511	169 838	6 936
32711	Pottery, ceramics, & plumbing fixture mfg ...	2	62	28	2 102	41 562	1 702	3 354	29 995	89 925	46 113	133 837	5 736
327111	Vitreous china plumbing fixture & bathroom accessories mfg	—	3	3	495	12 523	394	893	10 364	27 428	11 831	39 015	2 642
327112	Vitreous china, fine earthenware, & other pottery product mfg ..	3	54	24	1 553	27 671	1 259	2 352	18 679	60 082	33 302	91 434	3 034
32712	Clay building material & refractories mfg	2	18	9	403	10 067	338	532	6 331	23 433	12 398	36 001	1 200
3272	Glass & glass product mfg .	—	97	27	3 525	105 776	2 774	5 334	76 075	291 267	196 489	494 491	21 700
32721	Glass & glass product mfg	—	97	27	3 525	105 776	2 774	5 334	76 075	291 267	196 489	494 491	21 700
327212	Other pressed & blown glass & glassware mfg	1	21	3	f	D	D	D	D	D	D	D	D
327213	Glass container mfg ..	—	3	3	f	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass.....	1	73	21	2 035	48 974	1 490	2 798	29 931	98 489	96 235	194 538	7 846
3273	Cement & concrete product mfg	1	99	41	2 213	77 387	1 669	3 399	54 897	214 628	231 828	446 060	18 211
32732	Ready-mix concrete mfg.	—	60	27	1 282	47 371	1 000	2 106	35 997	125 887	177 989	303 810	10 872
327320	Ready-mix concrete mfg	—	60	27	1 282	47 371	1 000	2 106	35 997	125 887	177 989	303 810	10 872
32739	Other concrete product mfg	5	23	9	577	15 966	432	825	9 998	35 743	24 162	60 119	1 885
327390	Other concrete product mfg	5	23	9	577	15 966	432	825	9 998	35 743	24 162	60 119	1 885
3274	Lime & gypsum product mfg	—	21	9	580	21 291	442	918	15 238	66 078	90 415	157 330	3 396
32742	Gypsum product mfg....	—	20	9	f	D	D	D	D	D	D	D	3 396
327420	Gypsum product mfg..	—	20	9	f	D	D	D	D	D	D	D	3 396
3279	Other nonmetallic mineral product mfg	3	82	22	1 400	38 660	1 024	1 907	23 388	99 943	92 963	193 160	8 553
32791	Abrasive product mfg ...	2	18	7	463	13 053	344	650	7 332	38 687	29 568	68 175	1 552
327910	Abrasive product mfg .	2	18	7	463	13 053	344	650	7 332	38 687	29 568	68 175	1 552
32799	All other nonmetallic mineral product mfg ...	4	64	15	937	25 607	680	1 257	16 056	61 256	63 395	124 985	7 001
327999	All other miscellaneous nonmetallic mineral product mfg	2	22	7	422	12 806	284	552	7 328	28 249	40 989	69 215	3 696
331	Primary metal mfg	—	218	135	12 829	392 862	10 190	21 235	260 321	1 105 365	1 373 551	2 488 464	66 771
3311	Iron & steel mills & ferroalloy mfg	1	7	6	e	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	1	7	6	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Los Angeles—Long Beach, CA PMSA—Con.												
31-33	Manufacturing—Con.												
331	Primary metal mfg—Con.												
3312	Steel product mfg from purchased steel	-	31	21	2 013	75 784	1 497	3 266	47 525	202 041	375 991	575 237	24 381
33121	Iron & steel pipes & tubes mfg from purchased steel	-	10	6	769	31 142	549	1 118	18 459	70 252	169 388	238 645	11 302
331210	Iron & steel pipes & tubes mfg from purchased steel	-	10	6	769	31 142	549	1 118	18 459	70 252	169 388	238 645	11 302
33122	Rolling & drawing of purchased steel	-	21	15	1 244	44 642	948	2 148	29 066	131 789	206 603	336 592	13 079
331221	Cold-rolled steel shape mfg	2	9	4	e	D	D	D	D	D	D	D	D
331222	Steel wire drawing	-	12	11	f	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing ..	-	17	14	1 648	52 166	1 319	2 812	33 669	139 490	268 195	409 714	D
33131	Alumina & aluminum production & processing	-	17	14	1 648	52 166	1 319	2 812	33 669	139 490	268 195	409 714	D
331315	Aluminum sheet, plate, & foil mfg	-	4	3	339	14 531	262	492	8 530	39 357	89 544	133 741	3 306
331316	Aluminum extruded product mfg	-	9	7	952	30 910	768	1 652	20 507	78 484	148 075	223 532	D
331319	Other aluminum rolling & drawing	-	1	1	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	-	31	14	g	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying ...	-	25	11	1 639	52 457	1 219	2 879	33 341	222 241	291 210	529 136	9 500
331491	Other nonferrous metal rolling, drawing, & extruding	-	8	3	815	19 303	638	1 421	12 046	87 457	93 681	188 076	2 905
331492	Other nonferrous metal secondary smelting, refining, & alloying ...	-	17	8	824	33 154	581	1 458	21 295	134 784	197 529	341 060	6 595
3315	Foundries	-	132	80	6 886	186 530	5 719	11 368	130 520	462 311	257 165	714 228	19 461
33151	Ferrous metal foundries ..	-	29	23	3 201	84 759	2 774	5 466	64 332	225 189	110 653	328 770	7 157
331511	Iron foundries	-	10	8	889	23 819	771	1 547	18 318	48 915	21 401	70 429	2 078
331512	Steel investment foundries	-	9	8	1 881	48 953	1 650	3 303	37 809	150 399	68 695	212 214	2 090
331513	Steel foundries (except investment)	-	10	7	431	11 987	353	616	8 205	25 875	20 557	46 127	2 989
33152	Nonferrous metal foundries	-	103	57	3 685	101 771	2 945	5 902	66 188	237 122	146 512	385 458	12 304
331521	Aluminum die-casting foundries	1	26	17	857	23 501	722	1 421	16 476	57 394	36 407	95 267	3 677
331522	Nonferrous (except aluminum) die-casting foundries	-	19	12	918	23 668	702	1 341	15 218	74 542	43 794	117 583	4 591
331524	Aluminum foundries (except die-casting) ..	-	42	22	1 525	42 965	1 209	2 482	27 373	89 541	47 055	135 251	3 121
332	Fabricated metal product mfg	1	2 808	862	71 150	2 319 462	52 648	103 963	1 413 312	5 310 310	3 624 189	8 858 064	330 592
3321	Forging & stamping	2	152	72	4 835	182 544	3 721	8 125	118 128	427 714	388 981	804 376	32 821
33211	Forging & stamping	2	152	72	4 835	182 544	3 721	8 125	118 128	427 714	388 981	804 376	32 821
332111	Iron & steel forging ...	9	13	4	472	31 130	381	954	22 764	56 617	69 984	126 091	5 164
332112	Nonferrous forging ...	-	6	4	837	32 800	674	1 455	22 847	116 228	97 948	204 244	12 089
332114	Custom roll forming ...	1	15	11	433	14 264	308	687	8 470	30 965	42 465	73 769	D
332116	Metal stamping	1	115	52	3 007	102 695	2 299	4 972	63 137	219 995	175 712	393 173	14 211
3322	Cutlery & handtool mfg	2	82	21	1 846	51 795	1 302	2 268	26 851	124 335	89 631	213 013	6 077
33221	Cutlery & handtool mfg ...	2	82	21	1 846	51 795	1 302	2 268	26 851	124 335	89 631	213 013	6 077
332212	Hand & edge tool mfg ..	3	69	16	1 489	40 174	1 087	1 949	22 657	88 101	54 756	141 299	4 302
3323	Architectural & structural metals mfg	1	410	148	12 417	365 986	8 873	17 818	208 672	829 892	685 405	1 509 315	32 789
33231	Plate work & fabricated structural product mfg ..	1	100	39	2 872	106 041	1 856	3 851	56 218	251 432	170 175	420 391	8 713
332311	Prefabricated metal building & component mfg	1	10	6	575	17 275	288	547	7 074	37 445	35 618	73 498	936
332312	Fabricated structural metal mfg	1	71	25	1 849	74 188	1 211	2 609	40 044	167 049	98 782	263 904	6 621
332313	Plate work mfg	-	19	8	448	14 578	357	695	9 100	46 938	35 775	82 989	1 156

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Los Angeles—Long Beach, CA PMSA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3323	Architectural & structural metals mfg—Con.												
33232	Ornamental & architectural metal products mfg.....	1	310	109	9 545	259 945	7 017	13 967	152 454	578 460	515 230	1 088 924	24 076
332321	Metal window & door mfg.....	—	59	31	3 474	91 781	2 569	5 252	52 192	226 081	245 684	470 233	7 515
332322	Sheet metal work mfg.	2	186	65	5 105	143 011	3 736	7 356	85 547	297 595	213 612	505 687	15 157
332323	Ornamental & architectural metal work mfg.....	1	65	13	966	25 153	712	1 359	14 715	54 784	55 934	113 004	1 404
3324	Boiler, tank, & shipping container mfg.....	—	65	32	3 155	123 826	2 142	4 534	78 477	294 862	469 972	761 514	26 274
33241	Power boiler & heat exchanger mfg.....	—	19	7	644	24 695	410	673	12 951	49 047	38 014	85 071	6 469
332410	Power boiler & heat exchanger mfg.....	—	19	7	644	24 695	410	673	12 951	49 047	38 014	85 071	6 469
33242	Metal tank (heavy gauge) mfg.....	—	17	12	1 079	42 160	542	1 249	21 753	71 497	75 020	145 250	3 028
332420	Metal tank (heavy gauge) mfg.....	—	17	12	1 079	42 160	542	1 249	21 753	71 497	75 020	145 250	3 028
33243	Metal can, box, & other metal container (light gauge) mfg.....	—	29	13	1 432	56 971	1 190	2 612	43 773	174 318	356 938	531 193	16 777
332431	Metal can mfg.....	—	10	7	856	38 296	732	1 562	31 752	127 802	308 354	436 651	13 869
332439	Other metal container mfg.....	1	19	6	576	18 675	458	1 050	12 021	46 516	48 584	94 542	2 908
3325	Hardware mfg.....	1	66	39	3 791	116 572	2 829	5 673	73 351	271 108	211 085	480 306	14 714
33251	Hardware mfg.....	1	66	39	3 791	116 572	2 829	5 673	73 351	271 108	211 085	480 306	14 714
332510	Hardware mfg.....	1	66	39	3 791	116 572	2 829	5 673	73 351	271 108	211 085	480 306	14 714
3326	Spring & wire product mfg.	1	70	29	1 672	40 289	1 315	2 629	26 338	80 345	63 951	143 734	4 206
33261	Spring & wire product mfg.....	1	70	29	1 672	40 289	1 315	2 629	26 338	80 345	63 951	143 734	4 206
332612	Spring (light gauge) mfg.....	1	18	9	461	13 467	343	736	8 551	27 238	17 128	43 930	D
332618	Other fabricated wire product mfg.....	1	49	18	1 124	24 891	909	1 750	16 511	49 331	44 206	93 543	2 641
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	1	1 241	243	20 673	749 286	15 945	31 324	483 112	1 530 955	738 855	2 241 586	128 730
33271	Machine shops.....	1	1 051	165	12 297	426 933	9 599	17 911	289 345	873 457	372 570	1 230 954	83 909
332710	Machine shops.....	1	1 051	165	12 297	426 933	9 599	17 911	289 345	873 457	372 570	1 230 954	83 909
33272	Turned product & screw, nut, & bolt mfg.....	—	190	78	8 376	322 353	6 346	13 413	193 767	657 498	366 285	1 010 632	44 821
332721	Precision turned product mfg.....	1	122	38	2 246	70 939	1 827	3 741	50 151	132 930	61 798	192 819	7 095
332722	Bolt, nut, screw, rivet, & washer mfg.....	—	68	40	6 130	251 414	4 519	9 672	143 616	524 568	304 487	817 813	37 726
3328	Coating, engraving, heat treating, & allied activities.	1	453	180	10 792	285 111	8 607	16 654	181 346	581 718	224 751	807 252	31 370
33281	Coating, engraving, heat treating, & allied activities.....	1	453	180	10 792	285 111	8 607	16 654	181 346	581 718	224 751	807 252	31 370
332811	Metal heat treating....	1	46	28	1 229	43 271	913	1 865	25 375	101 464	21 279	122 767	5 213
332812	Metal coating/engraving (exc jewelry/silverware)/allied services.....	1	116	53	2 576	71 137	2 063	4 149	45 489	164 205	83 871	248 185	10 902
332813	Electroplating, plating, polishing, anodizing, & coloring.....	2	291	99	6 987	170 703	5 631	10 640	110 482	316 049	119 601	436 300	15 255
3329	Other fabricated metal product mfg.....	—	269	98	11 969	404 053	7 914	14 938	217 037	1 169 381	751 558	1 896 968	53 611
33291	Metal valve mfg.....	—	77	45	7 043	263 670	4 224	8 007	131 875	783 075	495 104	1 259 582	38 641
332911	Industrial valve mfg....	—	19	11	1 394	62 493	819	1 489	27 856	124 672	115 294	239 599	D
332912	Fluid power valve & hose fitting mfg.....	—	35	18	2 635	113 397	1 704	3 469	58 388	307 164	131 047	433 361	16 408
332913	Plumbing fixture fitting & trim mfg.....	—	16	13	2 540	74 262	1 533	2 720	41 335	322 074	235 715	545 418	17 369
332919	Other metal valve & pipe fitting mfg.....	1	7	3	474	13 518	168	329	4 296	29 165	13 048	41 204	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Los Angeles—Long Beach, CA PMSA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3329	Other fabricated metal product mfg—Con.												
33299	All other fabricated metal product mfg.....	1	192	53	4 926	140 383	3 690	6 931	85 162	386 306	256 454	637 386	14 970
332991	Ball & roller bearing mfg.....	—	7	4	499	13 870	426	790	10 775	57 718	14 777	72 307	1 471
332996	Fabricated pipe & pipe fitting mfg.....	2	29	6	494	15 180	378	766	9 345	31 905	22 063	54 796	1 466
332998	Enameled iron & metal sanitary ware mfg ...	—	8	6	1 400	36 764	1 050	1 864	21 030	118 390	89 275	204 419	3 827
332999	All other miscellaneous fabricated metal product mfg.....	2	113	31	2 038	56 066	1 491	2 880	34 208	132 146	109 389	240 393	6 762
333	Machinery mfg.....	1	957	311	27 855	1 019 461	18 035	35 620	530 897	2 227 836	1 792 285	4 007 047	131 664
3331	Agriculture, construction, & mining machinery mfg....	—	36	18	1 019	39 804	625	1 277	16 747	73 462	96 808	171 546	8 148
33311	Agricultural implement mfg.....	—	8	6	424	17 725	292	596	5 896	35 705	47 025	79 923	1 833
33312	Construction machinery mfg.....	2	14	6	371	13 515	178	379	6 190	19 176	34 802	58 928	3 696
333120	Construction machinery mfg.....	2	14	6	371	13 515	178	379	6 190	19 176	34 802	58 928	3 696
3332	Industrial machinery mfg ..	2	121	41	3 124	107 962	1 780	3 435	50 395	248 806	198 851	440 843	12 137
33329	Other industrial machinery mfg.....	2	97	38	2 899	100 204	1 635	3 150	45 892	232 937	181 600	407 225	11 597
333294	Food product machinery mfg.....	2	24	10	767	22 482	478	828	11 827	48 034	40 426	88 092	3 436
333295	Semiconductor machinery mfg.....	1	7	5	425	16 260	235	480	7 427	40 532	26 273	64 220	1 225
333298	All other industrial machinery mfg.....	3	48	21	1 500	55 403	792	1 575	23 289	128 924	107 949	232 278	6 601
3333	Commercial & service industry machinery mfg ..	2	150	54	4 569	155 730	2 961	6 071	78 621	347 124	274 369	618 029	21 077
33331	Commercial & service industry machinery mfg.....	2	150	54	4 569	155 730	2 961	6 071	78 621	347 124	274 369	618 029	21 077
333314	Optical instrument & lens mfg.....	2	20	9	f	D	D	D	D	D	D	D	D
333315	Photographic & photocopying equipment mfg.....	3	45	13	1 115	48 287	748	1 682	26 296	67 331	69 528	137 293	4 969
333319	Other commercial & service industry machinery mfg.....	1	68	29	2 772	86 150	1 727	3 478	40 024	231 548	168 172	394 238	12 573
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	2	50	25	2 424	75 031	1 785	3 652	41 698	162 707	143 831	305 123	6 682
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	2	50	25	2 424	75 031	1 785	3 652	41 698	162 707	143 831	305 123	6 682
333414	Heating equipment (except warm air furnaces) mfg.....	4	11	6	941	30 484	642	1 316	14 311	71 333	49 178	117 800	2 386
333415	AC & warm air heating & commercial/ industrial refig equip mfg.....	1	27	14	1 242	37 039	958	1 946	22 994	69 038	80 590	151 315	3 903
3335	Metalworking machinery mfg.....	1	335	74	5 767	207 511	4 245	7 975	128 832	397 331	317 572	725 655	23 560
33351	Metalworking machinery mfg.....	1	335	74	5 767	207 511	4 245	7 975	128 832	397 331	317 572	725 655	23 560
333511	Industrial mold mfg ...	1	98	24	1 836	76 302	1 452	2 734	50 072	138 925	56 873	196 580	6 406
333512	Machine tool (metal cutting types) mfg ...	—	8	5	567	20 443	393	791	11 765	54 442	140 413	196 407	3 942
333513	Machine tool (metal forming types) mfg...	2	8	4	317	14 043	188	341	7 244	30 621	48 504	85 182	1 366
333514	Special die & tool, die set, jig, & fixture mfg ..	2	130	20	1 538	49 135	1 172	2 146	33 094	94 500	28 462	122 973	4 517
333515	Cutting tool & machine tool accessory mfg ..	2	75	17	1 231	37 774	884	1 696	22 606	62 256	30 522	94 889	5 965
333518	Other metalworking machinery mfg.....	2	15	4	e	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg.....	—	29	11	1 912	89 995	1 265	2 631	42 600	237 885	189 256	427 012	27 138
33361	Engine, turbine, & power transmission equipment mfg.....	—	29	11	1 912	89 995	1 265	2 631	42 600	237 885	189 256	427 012	27 138
333618	Other engine equipment mfg.....	—	12	7	1 547	72 634	1 045	2 162	34 893	205 814	173 599	379 723	D

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

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	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Los Angeles—Long Beach, CA PMSA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3339	Other general-purpose machinery mfg	1	236	88	9 040	343 428	5 374	10 579	172 004	760 521	571 598	1 318 839	32 922
33391	Pump & compressor mfg	1	37	19	1 836	83 858	1 024	1 971	36 801	172 363	190 511	356 842	8 435
333911	Pump & pumping equipment mfg	—	22	11	1 283	62 886	701	1 386	27 095	118 536	145 580	260 756	5 428
333912	Air & gas compressor mfg	4	9	4	389	15 762	205	337	6 565	37 887	31 934	67 471	2 394
33392	Material handling equipment mfg	2	49	16	1 293	40 404	806	1 509	22 241	73 410	77 936	152 330	4 576
333922	Conveyor & conveying equipment mfg	1	22	10	810	25 741	485	800	13 009	38 974	40 922	81 867	1 485
33399	All other general-purpose machinery mfg	—	150	53	5 911	219 166	3 544	7 099	112 962	514 748	303 151	809 667	19 911
333991	Power-driven handtool mfg	—	10	4	301	9 456	231	463	6 171	22 911	12 650	35 251	1 140
333992	Welding & soldering equipment mfg	—	10	7	596	24 363	361	654	12 413	58 772	44 282	100 705	2 481
333993	Packaging machinery mfg	1	26	10	1 364	56 975	756	1 526	25 801	113 720	49 260	162 451	4 297
333995	Fluid power cylinder & actuator mfg	—	23	9	1 724	69 494	880	1 914	37 946	171 216	70 565	236 860	3 759
333999	All other miscellaneous general-purpose machinery mfg	1	58	19	1 586	48 153	1 102	2 088	24 875	116 332	109 295	224 388	6 031
334	Computer & electronic product mfg	1	856	359	61 598	2 952 183	28 492	55 777	884 399	7 784 696	3 843 238	11 584 681	475 076
3341	Computer & peripheral equipment mfg	3	84	34	2 796	119 586	1 295	2 790	56 687	341 609	309 458	666 981	22 862
33411	Computer & peripheral equipment mfg	3	84	34	2 796	119 586	1 295	2 790	56 687	341 609	309 458	666 981	22 862
334111	Electronic computer mfg	3	16	8	e	D	D	D	D	D	D	D	D
334112	Computer storage device mfg	9	13	4	542	32 626	297	816	23 379	67 585	66 677	144 007	12 342
334119	Other computer peripheral equipment mfg	1	52	20	1 691	68 568	736	1 509	26 453	228 296	206 032	440 794	7 533
3342	Communications equipment mfg	—	106	57	12 494	737 432	2 697	5 151	83 860	1 957 435	1 147 962	3 060 323	128 323
33421	Telephone apparatus mfg	1	21	13	1 144	50 616	353	654	13 064	214 058	149 560	336 886	8 949
334210	Telephone apparatus mfg	1	21	13	1 144	50 616	353	654	13 064	214 058	149 560	336 886	8 949
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	61	34	10 720	666 819	2 037	3 955	64 858	1 681 192	951 106	2 612 079	117 748
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	61	34	10 720	666 819	2 037	3 955	64 858	1 681 192	951 106	2 612 079	117 748
33429	Other communications equipment mfg	2	24	10	630	19 997	307	542	5 938	62 185	47 296	111 358	1 626
334290	Other communications equipment mfg	2	24	10	630	19 997	307	542	5 938	62 185	47 296	111 358	1 626
3343	Audio & video equipment mfg	1	55	15	1 999	69 251	1 371	2 567	25 787	123 648	241 821	371 582	11 463
33431	Audio & video equipment mfg	1	55	15	1 999	69 251	1 371	2 567	25 787	123 648	241 821	371 582	11 463
334310	Audio & video equipment mfg	1	55	15	1 999	69 251	1 371	2 567	25 787	123 648	241 821	371 582	11 463
3344	Semiconductor & other electronic component mfg	1	286	139	17 889	579 128	12 950	25 924	335 826	1 316 657	782 839	2 090 905	141 527
33441	Semiconductor & other electronic component mfg	1	286	139	17 889	579 128	12 950	25 924	335 826	1 316 657	782 839	2 090 905	141 527
334411	Electron tube mfg	—	7	4	1 251	64 075	977	2 272	51 591	97 585	73 850	164 631	D
334412	Bare printed circuit board mfg	3	66	26	2 162	63 596	1 709	3 619	40 066	147 194	78 050	226 876	10 912
334413	Semiconductor & related device mfg ...	2	45	15	4 159	144 637	2 653	4 936	78 326	337 856	182 948	525 059	75 920
334414	Electronic capacitor mfg	—	12	8	1 010	23 625	860	1 655	14 710	49 576	21 427	70 822	3 394
334416	Electronic coil, transformer, & other inductor mfg	3	26	11	730	17 456	560	994	9 684	33 853	13 700	47 214	D
334417	Electronic connector mfg	—	22	18	2 798	90 930	2 132	4 565	52 422	204 481	108 072	313 239	13 015

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	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Los Angeles—Long Beach, CA PMSA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg—Con.												
33441	Semiconductor & other electronic component mfg—Con.												
334418	Printed circuit assembly (electronic assembly) mfg	—	12	10	1 719	53 799	1 247	2 426	27 436	124 031	145 457	264 769	8 855
334419	Other electronic component mfg	2	90	43	3 824	115 248	2 615	5 022	57 918	307 768	155 894	460 463	14 446
3345	Navigational, measuring, medical, & control instruments mfg	—	207	81	23 300	1 358 440	7 797	14 976	322 957	3 798 110	1 205 504	4 988 556	133 878
33451	Navigational, measuring, medical, & control instruments mfg	—	207	81	23 300	1 358 440	7 797	14 976	322 957	3 798 110	1 205 504	4 988 556	133 878
334510	Electromedical & electrotherapeutic apparatus mfg	—	18	5	1 238	77 832	448	945	12 079	396 209	84 726	465 680	11 272
334511	Search, detection, navigation, & guidance instrument mfg	—	40	21	15 327	1 015 655	3 855	7 121	213 026	2 664 903	642 027	3 302 473	89 760
334512	Automatic environmental control mfg	—	9	2	685	21 993	465	946	13 781	93 162	55 789	148 565	3 764
334513	Industrial process control instrument mfg	2	42	17	1 976	73 773	1 010	1 993	26 098	154 854	73 351	231 320	6 909
334515	Electricity measuring & testing instrument mfg	2	35	13	1 935	94 524	844	1 717	30 648	332 364	204 559	538 315	17 130
334516	Analytical laboratory instrument mfg	1	14	2	285	14 841	88	181	2 795	17 662	9 791	26 506	778
334517	Irradiation apparatus mfg	—	8	5	332	12 623	152	352	4 449	38 889	60 273	97 938	661
334518	Watch, clock, & part mfg	—	5	3	260	5 437	223	433	2 891	13 614	12 513	25 716	266
334519	Other measuring & controlling device mfg	—	32	11	1 152	37 786	619	1 167	15 618	79 916	56 444	139 515	3 142
3346	Mfg & reproducing magnetic & optical media	4	118	33	3 120	88 346	2 382	4 369	59 282	247 237	155 654	406 334	37 023
33461	Mfg & reproducing magnetic & optical media	4	118	33	3 120	88 346	2 382	4 369	59 282	247 237	155 654	406 334	37 023
334611	Software reproducing	5	7	5	294	12 303	220	460	7 763	52 552	28 447	82 020	12 140
334612	Prerecorded CD (except software), tape, & record reproducing	3	91	25	2 564	69 947	1 942	3 578	47 352	182 586	110 812	295 310	22 527
334613	Magnetic & optical recording media mfg	5	20	3	262	6 096	220	331	4 167	12 099	16 395	29 004	2 356
335	Electrical equipment, appliance, & component mfg	1	361	158	15 925	493 844	10 933	21 453	239 646	1 372 074	1 156 311	2 530 781	68 862
3351	Electric lighting equipment mfg	1	136	57	4 953	132 192	3 364	6 581	64 800	418 932	339 358	754 586	D
33512	Lighting fixture mfg	1	132	56	4 895	129 903	3 312	6 467	62 811	412 581	335 587	744 364	D
335121	Residential electric lighting fixture mfg	1	64	22	1 922	39 607	1 302	2 609	20 337	123 343	117 507	242 019	D
335122	Commercial/industrial/institutional electric lighting fixture mfg	1	39	20	1 653	50 687	1 128	2 206	24 779	186 250	146 378	329 567	6 073
335129	Other lighting equipment mfg	—	29	14	1 320	39 609	882	1 652	17 695	102 988	71 702	172 778	4 266
3352	Household appliance mfg	—	13	8	961	24 538	730	1 436	13 736	121 847	93 272	211 191	D
33521	Small electrical appliance mfg	1	8	4	e	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg	1	8	4	e	D	D	D	D	D	D	D	D
33522	Major appliance mfg	—	5	4	f	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg	—	2	2	e	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Los Angeles—Long Beach, CA PMSA—Con.												
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg—Con.												
3353	Electrical equipment mfg ..	2	107	42	4 145	128 221	2 832	5 525	60 076	277 861	208 909	492 813	15 355
33531	Electrical equipment mfg	2	107	42	4 145	128 221	2 832	5 525	60 076	277 861	208 909	492 813	15 355
335311	Power, distribution, & specialty transformer mfg	6	16	6	422	11 634	303	653	7 540	25 491	24 086	49 888	1 311
335312	Motor & generator mfg	3	30	13	1 075	35 655	793	1 649	17 039	65 687	57 745	125 769	8 217
335313	Switchgear & switchboard apparatus mfg	1	23	9	1 092	30 760	827	1 619	15 576	62 224	56 491	119 925	2 488
335314	Relay & industrial control mfg	2	38	14	1 556	50 172	909	1 604	19 921	124 459	70 587	197 231	3 339
3359	Other electrical equipment & component mfg	1	105	51	5 866	208 893	4 007	7 911	101 034	553 434	514 772	1 072 191	32 490
33591	Battery mfg	—	10	6	907	30 953	732	1 629	22 137	87 505	107 518	193 149	7 136
335911	Storage battery mfg ...	—	9	6	f	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg	—	6	6	264	8 612	203	417	5 908	18 831	21 463	39 382	2 280
335929	Other communication & energy wire mfg ...	—	6	6	264	8 612	203	417	5 908	18 831	21 463	39 382	2 280
33593	Wiring device mfg	—	32	14	2 138	68 141	1 536	2 937	37 852	217 335	224 997	444 449	10 906
335931	Current-carrying wiring device mfg	—	17	7	1 030	32 851	666	1 170	16 402	90 352	41 732	133 387	3 186
335932	Noncurrent-carrying wiring device mfg	—	15	7	1 108	35 290	870	1 767	21 450	126 983	183 265	311 062	7 720
33599	All other electrical equipment & component mfg	2	57	25	2 557	101 187	1 536	2 928	35 137	229 763	160 794	395 211	12 168
335999	All other miscellaneous electrical equipment & component mfg	3	54	24	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	587	257	86 062	4 139 588	44 000	84 428	1 547 514	8 358 690	8 929 715	17 828 677	552 035
3361	Motor vehicle mfg	9	9	3	e	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	9	3	2	e	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	9	3	2	e	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	—	54	28	3 228	87 911	2 432	4 435	51 697	607 447	1 931 594	2 537 826	40 303
33621	Motor vehicle body & trailer mfg	—	54	28	3 228	87 911	2 432	4 435	51 697	607 447	1 931 594	2 537 826	40 303
336211	Motor vehicle body mfg	—	33	17	g	D	D	D	D	D	D	D	D
336212	Truck trailer mfg	1	5	3	f	D	D	D	D	D	D	D	D
336213	Motor home mfg	1	3	2	e	D	D	D	D	D	D	D	D
336214	Travel trailer & camper mfg	1	13	6	939	14 791	767	1 444	10 185	32 363	43 382	74 545	1 012
3363	Motor vehicle parts mfg ...	2	285	115	13 795	361 200	10 950	21 828	237 652	816 126	811 575	1 638 995	62 781
33631	Motor vehicle gasoline engine & engine parts mfg	1	64	24	2 453	59 088	1 935	3 367	34 076	134 991	105 882	239 023	10 982
336311	Carburetor, piston, piston ring, & valve mfg	1	20	11	1 007	23 920	832	1 471	14 862	45 456	24 416	69 801	2 190
336312	Gasoline engine & engine parts mfg	1	44	13	1 446	35 168	1 103	1 896	19 214	89 535	81 466	169 222	8 792
33632	Motor vehicle electrical & electronic equipment mfg	6	48	17	1 535	35 978	1 229	2 338	23 747	70 023	63 764	135 377	4 680
336322	Other motor vehicle electrical & electronic equipment mfg	6	44	15	1 356	29 613	1 095	2 080	19 501	54 555	50 866	106 803	D
33635	Motor vehicle transmission & power train parts mfg	3	28	8	586	18 762	439	821	10 044	50 154	53 442	103 654	3 423
336350	Motor vehicle transmission & power train parts mfg	3	28	8	586	18 762	439	821	10 044	50 154	53 442	103 654	3 423
33636	Motor vehicle seating & interior trim mfg	1	26	9	1 185	23 072	960	1 686	16 007	44 466	40 632	84 911	3 332
336360	Motor vehicle seating & interior trim mfg ...	1	26	9	1 185	23 072	960	1 686	16 007	44 466	40 632	84 911	3 332
33637	Motor vehicle metal stamping	7	13	7	1 448	32 888	1 210	2 982	24 720	60 044	68 945	128 903	7 576
336370	Motor vehicle metal stamping	7	13	7	1 448	32 888	1 210	2 982	24 720	60 044	68 945	128 903	7 576

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Los Angeles—Long Beach, CA PMSA—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3363	Motor vehicle parts mfg—Con.												
33639	Other motor vehicle parts mfg	1	92	45	6 303	181 877	4 966	10 207	123 928	432 058	453 724	897 771	31 422
336399	All other motor vehicle parts mfg	2	87	43	i	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	—	161	84	66 388	3 599 072	28 490	53 939	1 191 247	6 766 130	5 974 176	13 261 358	440 493
33641	Aerospace product & parts mfg	—	161	84	66 388	3 599 072	28 490	53 939	1 191 247	6 766 130	5 974 176	13 261 358	440 493
336411	Aircraft mfg	—	11	7	k	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg	2	17	10	g	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	—	114	54	20 590	909 244	8 424	18 079	378 984	2 227 981	1 052 998	3 073 200	143 389
336414	Guided missile & space vehicle mfg ...	—	3	3	j	D	D	D	D	D	D	D	D
336415	Guided missile & space vehicle propulsion unit & parts mfg	—	5	4	i	D	D	D	D	D	D	D	D
336419	Other guided missile & space vehicle parts & auxiliary equip mfg...	1	11	6	1 379	54 762	959	2 207	34 425	102 716	98 856	198 632	20 520
3366	Ship & boat building	6	28	9	f	D	D	D	D	D	D	D	1 640
33661	Ship & boat building	6	28	9	f	D	D	D	D	D	D	D	1 640
336611	Ship building & repairing	2	18	6	e	D	D	D	D	D	D	D	D
336612	Boat building	9	10	3	e	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	1	49	17	1 523	57 811	1 160	2 269	40 291	86 062	97 562	192 085	D
33699	Other transportation equipment mfg	1	49	17	1 523	57 811	1 160	2 269	40 291	86 062	97 562	192 085	D
336991	Motorcycle, bicycle, & parts mfg	2	38	13	812	22 710	588	1 202	12 193	65 901	56 058	121 707	D
336992	Military armored vehicle, tank, & tank component mfg	—	3	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	999	321	29 180	662 936	23 418	43 283	432 726	1 474 926	1 335 272	2 801 612	53 195
3371	Household & institutional furniture & kitchen cabinet mfg	2	690	188	18 740	392 184	15 293	28 405	268 115	804 217	806 323	1 607 981	28 264
33711	Wood kitchen cabinet & counter top mfg	4	175	17	1 627	39 466	1 238	2 203	24 849	71 501	51 010	122 593	2 326
337110	Wood kitchen cabinet & counter top mfg ...	4	175	17	1 627	39 466	1 238	2 203	24 849	71 501	51 010	122 593	2 326
33712	Household & institutional furniture mfg	2	515	171	17 113	352 718	14 055	26 202	243 266	732 716	755 313	1 485 388	25 938
337121	Upholstered household furniture mfg	2	158	59	5 008	106 188	4 193	8 054	77 500	208 709	237 695	450 001	4 244
337122	Nonupholstered wood household furniture mfg	3	231	70	6 787	120 964	5 838	9 911	88 131	240 186	266 282	504 589	9 184
337124	Metal household furniture mfg	1	57	24	3 239	71 677	2 497	5 379	45 478	160 701	141 257	295 833	9 138
337127	Institutional furniture mfg	1	48	16	1 926	50 871	1 404	2 638	29 956	117 777	103 059	222 433	2 951
3372	Office furniture (including fixtures) mfg	2	232	106	7 696	201 509	6 103	11 019	124 298	471 375	326 675	793 146	16 302
33721	Office furniture (including fixtures) mfg	2	232	106	7 696	201 509	6 103	11 019	124 298	471 375	326 675	793 146	16 302
337211	Wood office furniture mfg	3	41	22	1 524	28 350	1 268	2 147	18 683	56 183	39 155	90 180	2 088
337212	Custom architectural woodwork & millwork mfg	—	36	14	1 058	31 989	787	1 383	19 566	62 271	29 370	92 181	1 395
337214	Office furniture (except wood) mfg	1	30	20	1 419	44 729	1 155	2 645	33 165	130 896	106 595	237 530	5 330
337215	Showcase, partition, shelving, & locker mfg	2	125	50	3 695	96 441	2 893	4 844	52 884	222 025	151 555	373 255	7 489
3379	Other furniture related product mfg	1	77	27	2 744	69 243	2 022	3 859	40 313	199 334	202 274	400 485	8 629
33791	Mattress mfg	1	56	17	1 715	45 106	1 365	2 531	27 617	144 479	143 343	285 407	7 513
337910	Mattress mfg	1	56	17	1 715	45 106	1 365	2 531	27 617	144 479	143 343	285 407	7 513
33792	Blind & shade mfg	1	21	10	1 029	24 137	657	1 328	12 696	54 855	58 931	115 078	1 116
337920	Blind & shade mfg	1	21	10	1 029	24 137	657	1 328	12 696	54 855	58 931	115 078	1 116

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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Los Angeles—Long Beach, CA PMSA—Con.												
31-33	Manufacturing—Con.												
339	Miscellaneous mfg.....	2	1 372	275	29 383	836 858	21 093	39 968	439 969	2 044 493	1 333 226	3 375 154	110 928
3391	Medical equipment & supplies mfg.....	1	462	71	9 432	320 391	6 287	10 665	140 360	780 341	349 293	1 131 670	47 135
33911	Medical equipment & supplies mfg.....	1	462	71	9 432	320 391	6 287	10 665	140 360	780 341	349 293	1 131 670	47 135
339111	Laboratory apparatus & furniture mfg.....	1	13	5	629	17 108	460	878	8 766	42 698	19 909	63 446	2 624
339112	Surgical & medical instrument mfg.....	2	51	15	2 303	89 113	1 328	2 093	32 269	193 556	93 406	281 979	14 740
339113	Surgical appliance & supplies mfg.....	1	66	21	2 821	98 618	2 073	3 908	40 653	227 737	129 505	352 868	12 766
339114	Dental equipment & supplies mfg.....	-	40	10	1 688	62 958	1 113	1 666	29 931	179 774	49 775	238 431	8 444
339115	Ophthalmic goods mfg.....	1	19	6	604	17 439	292	567	8 363	61 446	26 889	88 888	6 217
339116	Dental laboratories...	5	273	14	1 387	35 155	1 021	1 553	20 378	75 130	29 809	106 058	2 344
3399	Other miscellaneous mfg...	2	910	204	19 951	516 467	14 806	29 303	299 609	1 264 152	983 933	2 243 484	63 793
33991	Jewelry & silverware mfg.....	2	327	46	4 938	106 915	3 679	6 366	60 123	320 390	289 193	604 907	8 210
339911	Jewelry (except costume) mfg.....	3	257	37	3 302	73 429	2 530	3 607	39 016	214 558	248 477	463 842	7 037
339914	Costume jewelry & novelty mfg.....	1	41	6	1 399	28 996	964	2 524	18 461	93 965	24 504	113 357	816
33992	Sporting & athletic goods mfg.....	2	92	23	2 536	73 026	1 738	4 165	32 854	144 193	130 229	276 264	12 482
339920	Sporting & athletic goods mfg.....	2	92	23	2 536	73 026	1 738	4 165	32 854	144 193	130 229	276 264	12 482
33993	Doll, toy, & game mfg...	4	36	7	1 061	24 456	886	1 756	16 974	72 870	48 677	121 563	2 461
339932	Game, toy, & children's vehicle mfg.....	4	29	7	1 018	23 835	854	1 706	16 463	70 553	47 352	117 829	2 452
33994	Office supplies (except paper) mfg.....	-	51	12	1 474	51 101	1 093	2 262	39 422	143 199	123 574	257 566	16 244
339941	Pen & mechanical pencil mfg.....	-	7	2	f	D	D	D	D	D	D	D	D
339944	Carbon paper & inked ribbon mfg.....	-	4	3	290	5 882	217	305	3 460	16 347	15 833	32 022	1 914
33995	Sign mfg.....	1	158	28	2 267	71 286	1 564	2 943	33 857	155 275	92 908	249 337	3 884
339950	Sign mfg.....	1	158	28	2 267	71 286	1 564	2 943	33 857	155 275	92 908	249 337	3 884
33999	All other miscellaneous mfg.....	2	246	88	7 675	189 683	5 846	11 811	116 379	428 225	299 352	733 847	20 512
339991	Gasket, packing, & sealing device mfg...	3	41	21	1 991	54 636	1 447	3 310	33 282	114 608	63 437	177 970	7 462
339992	Musical instrument mfg.....	1	29	4	680	17 158	515	900	8 861	28 131	26 246	56 477	1 628
339994	Broom, brush, & mop mfg.....	-	15	8	448	15 369	335	653	8 017	27 205	20 505	48 625	743
339999	All other miscellaneous mfg.....	3	142	50	4 338	97 610	3 384	6 618	63 230	246 720	181 988	431 946	10 173
	Orange County, CA PMSA												
31-33	Manufacturing....	1	5 767	1 829	215 936	7 643 649	142 728	290 020	3 654 144	21 157 753	18 055 718	39 134 147	2 173 597
311	Food mfg.....	2	254	71	8 227	219 998	6 269	12 402	140 757	947 485	1 243 559	2 192 966	75 673
3114	Fruit & vegetable preserving & specialty food mfg.....	2	25	15	2 517	64 514	2 069	4 386	47 358	248 200	518 924	774 628	27 882
31141	Frozen food mfg.....	-	12	6	1 221	22 903	1 015	2 000	16 402	84 349	101 125	185 649	3 990
311411	Frozen fruit, juice, & vegetable mfg.....	-	5	3	392	5 179	301	497	3 334	37 985	38 405	76 641	1 359
311412	Frozen specialty food mfg.....	-	7	3	829	17 724	714	1 503	13 068	46 364	62 720	109 008	2 631
31142	Fruit & vegetable canning, pickling, & drying.....	3	13	9	1 296	41 611	1 054	2 386	30 956	163 851	417 799	588 979	23 892
311421	Fruit & vegetable canning.....	7	8	6	f	D	D	D	D	D	D	D	D
311423	Dried & dehydrated food mfg.....	-	4	3	e	D	D	D	D	D	D	D	D
3115	Dairy product mfg.....	3	13	7	737	27 436	467	807	13 109	129 399	219 202	348 349	5 758
31151	Dairy product (except frozen) mfg.....	3	9	5	f	D	D	D	D	D	D	D	D
311511	Fluid milk mfg.....	3	5	3	548	22 945	326	604	10 081	106 492	182 799	288 777	3 833
3116	Meat product mfg.....	1	5	4	365	10 821	209	467	3 723	16 737	43 581	61 253	740
31161	Animal slaughtering & processing.....	1	5	4	365	10 821	209	467	3 723	16 737	43 581	61 253	740

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Orange County, CA PMSA—Con.												
31-33	Manufacturing—Con.												
311	Food mfg—Con.												
3118	Bakeries & tortilla mfg	1	139	26	2 640	63 666	1 970	3 567	42 163	274 190	148 789	422 607	20 422
31181	Bread & bakery product mfg	2	124	22	2 102	44 257	1 538	2 677	27 979	150 650	93 027	243 744	D
311811	Retail bakeries	5	96	3	479	5 617	308	360	3 125	12 143	7 744	19 908	D
311812	Commercial bakeries	2	23	14	1 219	30 275	875	1 531	17 865	116 518	57 379	173 821	10 484
311813	Frozen cakes, pies, & other pastries mfg	—	5	5	404	8 365	355	786	6 989	21 989	27 904	50 015	2 180
31182	Cookie, cracker, & pasta mfg	1	11	3	476	18 475	390	840	13 720	120 917	53 649	174 120	D
311821	Cookie & cracker mfg	—	4	2	e	D	D	D	D	D	D	D	D
3119	Other food mfg	1	50	17	1 823	49 947	1 451	2 977	31 932	245 695	248 669	490 990	20 406
31194	Seasoning & dressing mfg	—	10	3	308	12 050	224	518	6 633	39 286	71 281	107 250	1 662
31199	All other food mfg	1	29	11	1 281	30 917	1 066	2 213	22 418	185 833	152 795	338 125	17 719
311991	Perishable prepared food mfg	—	14	6	832	16 437	746	1 447	13 350	126 100	89 139	214 731	D
311999	All other miscellaneous food mfg	3	15	5	449	14 480	320	766	9 068	59 733	63 656	123 394	D
312	Beverage & tobacco product mfg	—	12	7	902	29 726	503	1 080	13 598	119 755	211 557	331 958	17 057
3121	Beverage mfg	—	12	7	902	29 726	503	1 080	13 598	119 755	211 557	331 958	17 057
31211	Soft drink & ice mfg	—	11	7	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg	—	6	4	779	25 961	412	868	10 675	106 653	197 358	304 757	D
313	Textile mills	2	38	12	1 217	31 071	959	2 052	17 470	66 429	75 922	149 784	18 471
3133	Textile & fabric finishing & fabric coating mills	2	24	7	864	24 411	653	1 486	12 502	48 824	47 176	103 528	D
31331	Textile & fabric finishing mills	—	16	5	674	17 344	544	1 137	8 940	38 934	22 918	62 150	D
313311	Broadwoven fabric finishing mills	—	13	5	656	16 873	529	1 107	8 698	37 569	22 360	60 216	11 239
314	Textile product mills	—	128	36	3 628	80 926	2 711	4 990	46 930	172 977	249 548	419 929	7 365
3141	Textile furnishings mills	—	67	20	2 421	60 320	1 747	3 430	33 138	142 027	207 469	347 658	5 946
31411	Carpet & rug mills	—	9	5	1 159	34 434	716	1 475	16 032	79 046	142 606	224 613	4 241
314110	Carpet & rug mills	—	9	5	1 159	34 434	716	1 475	16 032	79 046	142 606	224 613	4 241
31412	Curtain & linen mills	—	58	15	1 262	25 886	1 031	1 955	17 106	62 981	64 863	123 045	1 705
314121	Curtain & drapery mills	1	38	5	473	9 061	358	648	5 392	18 493	13 459	31 925	596
314129	Other household textile product mills	—	20	10	789	16 825	673	1 307	11 714	44 488	51 404	91 120	1 109
3149	Other textile product mills	2	61	16	1 207	20 606	964	1 560	13 792	30 950	42 079	72 271	1 419
31491	Textile bag & canvas mills	5	23	5	356	6 233	303	471	4 215	7 598	6 505	14 113	546
31499	All other textile product mills	1	38	11	851	14 373	661	1 089	9 577	23 352	35 574	58 158	873
314999	All other miscellaneous textile product mills	—	35	10	810	13 447	629	1 025	9 028	21 419	34 336	54 992	800
315	Apparel mfg	1	405	96	8 494	160 284	6 861	11 702	95 099	425 167	401 690	821 156	25 169
3152	Cut & sew apparel mfg	1	366	84	7 673	145 878	6 166	10 434	85 319	397 616	381 156	773 340	23 530
31521	Cut & sew apparel contractors	5	257	38	2 945	30 922	2 786	4 061	27 137	58 014	11 806	69 716	2 157
315211	Men's & boys' cut & sew apparel contractors	2	22	10	541	7 258	501	870	5 655	16 153	2 541	18 652	466
315212	Women's, girls', & infants' cut & sew apparel contractors	6	235	28	2 404	23 664	2 285	3 191	21 482	41 861	9 265	51 064	1 691
31522	Men's & boys' cut & sew apparel mfg	—	31	21	1 550	44 536	920	1 681	14 597	132 270	136 009	261 341	11 859
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	1	13	8	f	D	D	D	D	D	D	D	7 123
315228	Men's & boys' cut & sew other outerwear mfg	—	13	9	640	22 347	379	611	6 176	87 431	82 108	162 911	4 656
31523	Women's & girls' cut & sew apparel mfg	1	69	23	3 047	67 535	2 354	4 462	41 455	201 622	230 607	433 730	9 263
315232	Women's & girls' cut & sew blouse & shirt mfg	2	17	6	e	D	D	D	D	D	D	D	D
315233	Women's & girls' cut & sew dress mfg	1	14	4	g	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	—	35	12	1 026	25 324	659	1 205	9 086	63 415	76 890	140 692	876

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Orange County, CA PMSA—Con.												
31-33	Manufacturing—Con.												
315	Apparel mfg—Con.												
3159	Apparel accessories & other apparel mfg	5	32	9	675	12 082	557	1 025	7 890	23 039	16 713	39 498	D
31599	Apparel accessories & other apparel mfg	5	32	9	675	12 082	557	1 025	7 890	23 039	16 713	39 498	D
315999	Other apparel accessories & other apparel mfg	6	28	7	477	8 298	378	628	4 986	17 389	14 139	31 266	D
316	Leather & allied product mfg .	9	22	5	f	D	D	D	D	D	D	D	1 504
3169	Other leather & allied product mfg	9	15	3	545	12 224	438	922	7 346	36 724	31 359	66 633	D
31699	Other leather & allied product mfg	9	15	3	545	12 224	438	922	7 346	36 724	31 359	66 633	D
316991	Luggage mfg	9	6	2	461	10 838	368	782	6 306	33 638	29 373	61 580	1 322
321	Wood product mfg	1	93	29	1 789	39 251	1 370	2 407	25 169	78 468	132 945	212 172	3 317
3219	Other wood product mfg ...	1	83	24	1 414	31 848	1 044	1 879	19 367	58 985	96 367	155 905	2 136
32191	Millwork	1	45	15	966	22 496	686	1 242	13 225	41 850	79 703	121 590	1 498
321911	Wood window & door mfg	2	21	5	255	7 184	168	308	4 072	17 760	17 461	35 343	670
321918	Other millwork (including flooring) ...	3	16	5	492	9 940	330	584	5 254	15 546	7 460	23 367	386
322	Paper mfg	-	71	39	4 795	171 174	3 421	7 093	108 524	498 353	755 782	1 231 857	46 498
3221	Pulp, paper, & paperboard mills	-	1	1	e	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	e	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	e	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	70	38	h	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	28	24	2 742	97 976	2 048	4 383	65 350	259 245	388 973	650 081	29 271
322211	Corrugated & solid fiber box mfg	-	23	20	2 107	74 009	1 542	3 219	47 586	182 968	315 346	500 563	26 443
322212	Folding paperboard box mfg	-	4	3	f	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	19	7	985	29 712	549	1 124	11 919	65 917	153 183	218 177	9 728
322222	Coated & laminated paper mfg	-	15	5	f	D	D	D	D	D	D	D	8 975
32223	Stationery product mfg ..	4	15	4	e	D	D	D	D	D	D	D	D
322231	Die-cut paper & paperboard office supplies mfg	8	8	3	260	7 970	186	411	5 309	22 852	32 900	56 881	D
323	Printing & related support activities.....	1	699	126	11 287	359 077	7 762	14 712	201 234	783 383	500 313	1 284 533	64 067
3231	Printing & related support activities.....	1	699	126	11 287	359 077	7 762	14 712	201 234	783 383	500 313	1 284 533	64 067
32311	Printing	1	632	115	9 988	316 031	6 854	12 940	175 601	719 111	489 853	1 209 602	56 032
323110	Commercial lithographic printing ..	1	278	52	4 935	177 657	3 434	7 019	101 118	383 867	262 811	647 675	33 883
323112	Commercial flexographic printing .	-	22	8	636	20 027	308	598	7 152	39 651	32 154	72 340	3 353
323113	Commercial screen printing.....	1	85	27	1 836	42 259	1 454	2 568	24 639	76 642	42 345	119 525	8 414
323114	Quick printing	3	157	4	687	16 314	501	792	9 944	35 643	20 235	55 809	2 318
323116	Manifold business form printing.....	-	15	6	397	13 667	309	578	8 413	27 776	18 574	46 029	1 073
323118	Blankbook, looseleaf binder, & device mfg .	-	5	2	e	D	D	D	D	D	D	D	D
323119	Other commercial printing.....	3	45	10	683	22 251	455	686	14 563	50 223	23 392	73 709	3 280
32312	Support activities for printing.....	2	67	11	1 299	43 046	908	1 772	25 633	64 272	10 460	74 931	8 035
323122	Prepress services	2	50	7	1 072	38 577	747	1 511	23 290	56 789	9 471	66 418	7 714
325	Chemical mfg	1	181	61	7 082	298 248	4 720	9 748	129 181	1 778 167	1 399 988	3 173 675	101 130
3254	Pharmaceutical & medicine mfg	1	52	27	4 743	205 847	3 179	6 679	81 897	1 389 441	961 290	2 345 800	77 828
32541	Pharmaceutical & medicine mfg	1	52	27	4 743	205 847	3 179	6 679	81 897	1 389 441	961 290	2 345 800	77 828
325412	Pharmaceutical preparation mfg	1	30	18	3 843	167 827	2 680	5 763	65 145	1 237 278	903 064	2 123 645	57 579
325413	In-vitro diagnostic substance mfg	-	15	7	664	28 994	366	678	12 322	125 338	31 995	169 100	11 850
3255	Paint, coating, & adhesive mfg	2	25	7	726	31 825	459	1 064	15 648	126 756	160 147	285 938	5 825
32551	Paint & coating mfg	2	15	5	557	26 102	387	909	13 503	103 680	134 549	237 661	4 438
325510	Paint & coating mfg ...	2	15	5	557	26 102	387	909	13 503	103 680	134 549	237 661	4 438

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Orange County, CA PMSA—Con.												
31-33	Manufacturing—Con.												
325	Chemical mfg—Con.												
3256	Soap, cleaning compound, & toilet preparation mfg ..	4	40	11	718	25 669	472	911	13 569	119 944	118 075	237 496	8 087
32561	Soap & cleaning compound mfg	2	21	6	283	9 905	167	336	4 794	35 623	60 448	96 801	3 494
32562	Toilet preparation mfg ...	5	19	5	435	15 764	305	575	8 775	84 321	57 627	140 695	4 593
325620	Toilet preparation mfg .	5	19	5	435	15 764	305	575	8 775	84 321	57 627	140 695	4 593
3259	Other chemical product mfg	4	32	8	495	16 404	333	516	8 072	73 042	79 430	152 690	6 039
32599	All other chemical product & preparation mfg	4	28	7	453	14 318	300	445	6 508	70 707	70 869	141 769	D
326	Plastics & rubber products mfg	2	311	160	18 235	464 804	14 125	27 850	297 939	1 279 371	1 012 628	2 301 476	70 446
3261	Plastics product mfg	3	280	146	15 923	408 622	12 296	24 293	264 118	1 161 327	927 977	2 098 716	66 361
32611	Unsupported plastics film, sheet, & bag mfg ..	3	21	10	855	22 063	684	1 065	12 444	72 733	71 222	143 680	5 053
326111	Unsupported plastics bag mfg	1	9	7	f	D	D	D	D	D	D	D	2 837
326113	Unsupported plastics film & sheet (except packaging) mfg	3	11	3	290	11 681	197	385	5 826	37 405	35 649	72 690	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	1	28	13	932	22 728	704	1 232	14 209	56 453	63 631	119 523	4 441
326121	Unsupported plastics profile shape mfg	2	16	6	291	8 205	239	520	5 621	23 306	15 437	38 472	1 032
326122	Plastics pipe & pipe fitting mfg	—	12	7	641	14 523	465	712	8 588	33 147	48 194	81 051	3 409
32613	Laminated plastics plate, sheet, & shape mfg	2	8	4	576	14 092	406	896	10 265	50 118	42 761	93 554	2 030
326130	Laminated plastics plate, sheet, & shape mfg	2	8	4	576	14 092	406	896	10 265	50 118	42 761	93 554	2 030
32615	Urethane & other foam product (except polystyrene) mfg	6	21	10	746	20 302	587	1 042	13 426	45 120	66 664	112 154	3 632
326150	Urethane & other foam product (except polystyrene) mfg	6	21	10	746	20 302	587	1 042	13 426	45 120	66 664	112 154	3 632
32616	Plastics bottle mfg	1	11	8	1 007	27 640	665	1 417	18 643	74 662	67 446	145 866	5 379
326160	Plastics bottle mfg	1	11	8	1 007	27 640	665	1 417	18 643	74 662	67 446	145 866	5 379
32619	Other plastics product mfg	3	184	98	11 686	298 552	9 161	18 454	192 984	851 964	606 362	1 463 857	45 140
326191	Plastics plumbing fixture mfg	—	12	7	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	3	171	91	10 517	272 138	8 136	16 445	173 144	733 720	517 697	1 255 486	44 204
3262	Rubber product mfg	—	31	14	2 312	56 182	1 829	3 557	33 821	118 044	84 651	202 760	4 085
32629	Other rubber product mfg	—	26	12	2 127	50 666	1 675	3 232	29 747	105 958	70 239	176 455	3 336
326291	Rubber product mfg for mechanical use	—	12	7	1 266	34 180	1 023	2 069	21 367	70 587	36 628	107 386	1 062
326299	All other rubber product mfg	1	14	5	861	16 486	652	1 163	8 380	35 371	33 611	69 069	2 274
327	Nonmetallic mineral product mfg	1	141	48	3 020	93 661	2 271	4 420	60 330	249 940	248 104	497 966	17 888
3271	Clay product & refractory mfg	1	26	13	812	21 436	612	1 140	13 713	54 491	21 062	75 451	5 199
32711	Pottery, ceramics, & plumbing fixture mfg ...	1	23	13	792	20 757	597	1 108	13 239	52 995	20 287	73 175	5 049
327112	Vitreous china, fine earthenware, & other pottery product mfg ..	—	18	10	599	14 853	450	821	9 737	41 178	15 792	56 865	4 623
3272	Glass & glass product mfg .	3	42	8	524	14 364	400	780	9 773	36 619	20 566	58 085	2 896
32721	Glass & glass product mfg	3	42	8	524	14 364	400	780	9 773	36 619	20 566	58 085	2 896
327215	Glass product mfg made of purchased glass	3	28	7	421	10 412	320	605	6 540	19 808	15 081	35 365	2 410
3273	Cement & concrete product mfg	2	40	18	967	32 081	785	1 580	25 167	80 683	100 917	180 785	6 549
32732	Ready-mix concrete mfg .	2	28	12	508	17 990	436	856	15 479	50 437	75 839	126 327	5 600
327320	Ready-mix concrete mfg	2	28	12	508	17 990	436	856	15 479	50 437	75 839	126 327	5 600
32739	Other concrete product mfg	—	7	4	313	9 699	238	458	6 512	14 508	11 245	26 014	395
327390	Other concrete product mfg	—	7	4	313	9 699	238	458	6 512	14 508	11 245	26 014	395

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	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Orange County, CA PMSA—Con.												
31-33	Manufacturing—Con.												
327	Nonmetallic mineral product mfg—Con.												
3274	Lime & gypsum product mfg	1	8	3	315	11 544	243	480	5 829	30 407	53 831	84 480	491
32742	Gypsum product mfg	1	8	3	315	11 544	243	480	5 829	30 407	53 831	84 480	491
327420	Gypsum product mfg	1	8	3	315	11 544	243	480	5 829	30 407	53 831	84 480	491
3279	Other nonmetallic mineral product mfg	1	25	6	402	14 236	231	440	5 848	47 740	51 728	99 165	2 753
32799	All other nonmetallic mineral product mfg	1	23	5	e	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	36	18	1 582	51 700	1 252	2 762	33 675	156 368	161 772	315 842	17 373
3313	Alumina & aluminum production & processing	—	4	4	620	20 276	539	1 285	14 324	55 409	39 781	94 110	D
33131	Alumina & aluminum production & processing	—	4	4	620	20 276	539	1 285	14 324	55 409	39 781	94 110	D
331316	Aluminum extruded product mfg	—	3	3	f	D	D	D	D	D	D	D	D
3315	Foundries	2	21	9	729	21 830	553	1 186	15 302	45 943	29 195	74 156	5 177
33152	Nonferrous metal foundries	2	15	7	581	18 873	428	946	12 694	43 284	24 623	66 749	5 062
331521	Aluminum die-casting foundries	1	6	3	291	8 725	197	389	5 038	14 865	9 898	24 228	D
332	Fabricated metal product mfg	1	1 105	325	27 951	953 434	21 121	46 334	579 979	2 079 578	1 139 249	3 186 741	162 776
3321	Forging & stamping	—	62	28	2 766	89 165	2 220	5 178	61 837	185 513	116 576	302 658	10 743
33211	Forging & stamping	—	62	28	2 766	89 165	2 220	5 178	61 837	185 513	116 576	302 658	10 743
332111	Iron & steel forging	1	5	3	384	8 120	313	790	6 399	9 765	23 836	34 120	342
332112	Nonferrous forging	—	4	4	813	32 786	700	1 771	24 909	70 217	24 694	95 173	D
332116	Metal stamping	1	48	18	1 385	42 607	1 062	2 343	27 271	92 196	61 223	153 368	4 319
3322	Cutlery & handtool mfg	2	30	9	599	22 356	457	970	12 321	44 690	25 844	70 550	2 216
33221	Cutlery & handtool mfg	2	30	9	599	22 356	457	970	12 321	44 690	25 844	70 550	2 216
332212	Hand & edge tool mfg	2	27	9	572	20 880	437	935	11 867	42 002	23 872	65 935	D
3323	Architectural & structural metals mfg	1	137	60	4 113	127 822	2 976	6 042	73 904	284 359	190 081	470 849	18 798
33231	Plate work & fabricated structural product mfg	—	32	8	755	30 601	529	1 077	19 464	86 113	45 921	130 004	4 406
332312	Fabricated structural metal mfg	—	21	5	581	24 222	413	847	16 284	71 502	34 753	103 746	3 301
33232	Ornamental & architectural metal products mfg	1	105	52	3 358	97 221	2 447	4 965	54 440	198 246	144 160	340 845	14 392
332322	Sheet metal work mfg	1	76	44	2 877	84 395	2 211	4 508	48 913	168 940	113 704	280 977	13 865
332323	Ornamental & architectural metal work mfg	1	20	5	276	7 291	147	268	3 595	16 592	16 693	34 087	384
3324	Boiler, tank, & shipping container mfg	—	11	6	778	24 868	530	1 134	13 491	54 235	46 856	96 709	6 316
33242	Metal tank (heavy gauge) mfg	—	3	1	e	D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) mfg	—	3	1	e	D	D	D	D	D	D	D	D
33243	Metal can, box, & other metal container (light gauge) mfg	—	6	3	337	9 202	263	618	5 580	19 641	17 669	36 275	D
3325	Hardware mfg	1	21	10	2 493	90 634	1 759	3 459	46 374	197 255	139 660	322 555	24 945
33251	Hardware mfg	1	21	10	2 493	90 634	1 759	3 459	46 374	197 255	139 660	322 555	24 945
332510	Hardware mfg	1	21	10	2 493	90 634	1 759	3 459	46 374	197 255	139 660	322 555	24 945
3326	Spring & wire product mfg	2	34	12	830	21 408	620	1 142	11 555	45 766	36 044	80 755	2 504
33261	Spring & wire product mfg	2	34	12	830	21 408	620	1 142	11 555	45 766	36 044	80 755	2 504
332618	Other fabricated wire product mfg	3	21	8	621	14 297	499	914	7 919	32 182	28 633	60 784	1 499
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	577	116	9 513	356 411	7 458	18 180	234 459	770 063	343 096	1 111 587	68 833
33271	Machine shops	1	503	83	5 311	189 320	4 162	9 444	123 870	395 597	169 174	561 831	26 972
332710	Machine shops	1	503	83	5 311	189 320	4 162	9 444	123 870	395 597	169 174	561 831	26 972
33272	Turned product & screw, nut, & bolt mfg	—	74	33	4 202	167 091	3 296	8 736	110 589	374 466	173 922	549 756	41 861
332721	Precision turned product mfg	—	50	21	1 286	44 976	1 017	2 315	31 717	104 717	34 626	138 898	10 618
332722	Bolt, nut, screw, rivet, & washer mfg	—	24	12	2 916	122 115	2 279	6 421	78 872	269 749	139 296	410 858	31 243

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Orange County, CA PMSA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3328	Coating, engraving, heat treating, & allied activities	1	158	62	4 337	118 283	3 551	6 949	76 787	236 651	79 769	317 405	14 554
33281	Coating, engraving, heat treating, & allied activities	1	158	62	4 337	118 283	3 551	6 949	76 787	236 651	79 769	317 405	14 554
332811	Metal heat treating	—	12	6	404	14 071	335	614	9 777	38 568	6 921	45 552	4 298
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	2	43	14	992	27 157	814	1 574	16 662	57 687	26 317	84 258	3 398
332813	Electroplating, plating, polishing, anodizing, & coloring	1	103	42	2 941	77 055	2 402	4 761	50 348	140 396	46 531	187 595	6 858
3329	Other fabricated metal product mfg	1	75	22	2 522	102 487	1 550	3 280	49 251	261 046	161 323	413 673	13 867
33291	Metal valve mfg	1	18	9	1 564	65 685	844	1 775	26 795	174 236	115 867	284 374	4 794
332911	Industrial valve mfg	2	8	4	860	32 032	468	906	12 731	87 570	60 840	147 319	3 143
332912	Fluid power valve & hose fitting mfg	—	8	4	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	1	57	13	958	36 802	706	1 505	22 456	86 810	45 456	129 299	9 073
332999	All other miscellaneous fabricated metal product mfg	—	37	8	696	27 805	514	1 118	16 795	58 894	34 456	90 990	8 191
333	Machinery mfg	1	417	141	15 013	609 084	8 356	17 035	240 650	1 227 522	1 120 650	2 321 386	94 997
3331	Agriculture, construction, & mining machinery mfg	—	20	5	876	35 139	412	605	8 149	123 048	88 796	207 849	1 038
33313	Mining & oil & gas field machinery mfg	—	7	3	f	D	D	D	D	D	D	D	440
333132	Oil & gas field machinery & equipment mfg	—	5	2	f	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg	2	68	26	2 127	78 380	1 253	2 487	32 780	157 557	167 544	315 190	10 833
33329	Other industrial machinery mfg	2	58	25	2 037	75 804	1 204	2 428	31 806	152 013	159 950	302 086	10 548
333293	Printing machinery & equipment mfg	—	12	4	278	14 649	157	322	4 984	31 271	18 814	49 115	914
333295	Semiconductor machinery mfg	—	5	3	371	18 931	216	442	6 630	35 261	20 970	57 004	1 368
333298	All other industrial machinery mfg	2	31	15	1 226	37 478	724	1 485	17 648	77 560	113 453	181 369	8 156
3333	Commercial & service industry machinery mfg	—	71	27	3 589	167 365	1 475	3 022	41 539	238 179	338 644	573 223	37 186
33331	Commercial & service industry machinery mfg	—	71	27	3 589	167 365	1 475	3 022	41 539	238 179	338 644	573 223	37 186
333314	Optical instrument & lens mfg	—	20	11	1 854	98 776	600	1 203	19 508	65 102	120 788	185 608	18 228
333315	Photographic & photocopying equipment mfg	—	11	6	1 083	44 807	479	1 003	11 161	121 932	173 099	291 535	16 443
333319	Other commercial & service industry machinery mfg	1	32	6	383	14 147	237	478	6 793	33 819	30 047	63 038	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	1	23	14	1 463	47 970	974	2 077	22 865	117 288	98 549	215 132	3 609
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	1	23	14	1 463	47 970	974	2 077	22 865	117 288	98 549	215 132	3 609
333414	Heating equipment (except warm air furnaces) mfg	3	10	5	672	18 170	463	927	7 064	52 893	32 991	85 305	1 068
333415	AC & warm air heating & commercial/industrial refrig equip mfg	—	6	4	515	19 433	316	759	9 843	44 148	43 021	86 823	1 694
3335	Metalworking machinery mfg	1	124	31	2 171	81 767	1 590	3 276	51 833	180 963	80 484	254 458	20 226
33351	Metalworking machinery mfg	1	124	31	2 171	81 767	1 590	3 276	51 833	180 963	80 484	254 458	20 226
333511	Industrial mold mfg	—	29	5	313	14 154	230	489	9 570	32 676	12 560	42 834	3 705
333514	Special die & tool, die set, jig, & fixture mfg	2	52	14	675	25 781	525	991	17 785	45 256	23 108	67 550	2 708
333515	Cutting tool & machine tool accessory mfg	—	33	10	998	31 746	738	1 582	20 650	81 334	35 164	117 086	13 116

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Orange County, CA PMSA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3336	Engine, turbine, & power transmission equipment mfg	3	14	6	442	14 990	336	600	10 186	36 806	22 930	58 638	2 147
33361	Engine, turbine, & power transmission equipment mfg	3	14	6	442	14 990	336	600	10 186	36 806	22 930	58 638	2 147
3339	Other general-purpose machinery mfg	—	97	32	4 345	183 473	2 316	4 968	73 298	373 681	323 703	696 896	19 958
33391	Pump & compressor mfg	—	10	4	925	29 603	456	1 195	9 921	79 862	65 964	143 841	4 277
333911	Pump & pumping equipment mfg	—	6	3	801	24 846	412	1 077	8 359	71 902	57 646	127 689	4 118
33392	Material handling equipment mfg	1	17	6	586	22 916	372	815	12 141	33 060	97 491	139 681	2 763
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	1	8	3	382	14 619	249	520	8 113	22 971	79 505	111 862	2 166
33399	All other general-purpose machinery mfg	—	70	22	2 834	130 954	1 488	2 958	51 236	260 759	160 248	413 374	12 918
333994	Industrial process furnace & oven mfg ..	—	9	3	560	25 315	251	485	8 461	70 290	55 143	136 277	D
333995	Fluid power cylinder & actuator mfg	—	4	2	f	D	D	D	D	D	D	D	D
333996	Fluid power pump & motor mfg	—	5	2	295	21 391	136	270	4 525	36 729	12 266	49 489	307
333999	All other miscellaneous general-purpose machinery mfg	1	35	9	654	23 865	410	822	12 568	61 218	34 136	92 370	5 571
334	Computer & electronic product mfg	1	650	289	49 383	2 174 703	25 114	55 143	733 630	6 954 981	5 589 444	12 330 873	1 165 835
3341	Computer & peripheral equipment mfg	2	95	41	8 208	416 140	2 924	7 460	103 493	1 271 159	2 487 029	3 720 445	392 591
33411	Computer & peripheral equipment mfg	2	95	41	8 208	416 140	2 924	7 460	103 493	1 271 159	2 487 029	3 720 445	392 591
334111	Electronic computer mfg	2	24	12	3 134	138 990	1 635	4 382	56 921	616 417	1 763 543	2 322 915	304 873
334112	Computer storage device mfg	3	14	7	2 051	142 795	250	623	10 864	377 150	231 078	605 317	52 150
334119	Other computer peripheral equipment mfg	—	52	22	3 000	133 330	1 030	2 435	35 283	276 106	490 812	789 041	35 476
3342	Communications equipment mfg	1	53	21	3 179	175 935	1 524	3 100	52 476	482 692	324 421	799 844	28 704
33421	Telephone apparatus mfg	1	14	8	1 826	110 474	790	1 619	30 049	322 223	208 995	527 224	18 491
334210	Telephone apparatus mfg	1	14	8	1 826	110 474	790	1 619	30 049	322 223	208 995	527 224	18 491
33422	Radio & TV broadcasting & wireless communications equipment mfg	2	29	8	961	50 598	564	1 126	17 579	117 472	82 902	197 292	8 549
334220	Radio & TV broadcasting & wireless communications equipment mfg	2	29	8	961	50 598	564	1 126	17 579	117 472	82 902	197 292	8 549
33429	Other communications equipment mfg	1	10	5	392	14 863	170	355	4 848	42 997	32 524	75 328	1 664
334290	Other communications equipment mfg	1	10	5	392	14 863	170	355	4 848	42 997	32 524	75 328	1 664
3343	Audio & video equipment mfg	—	27	11	1 449	43 492	732	1 542	15 215	145 997	157 990	293 860	6 342
33431	Audio & video equipment mfg	—	27	11	1 449	43 492	732	1 542	15 215	145 997	157 990	293 860	6 342
334310	Audio & video equipment mfg	—	27	11	1 449	43 492	732	1 542	15 215	145 997	157 990	293 860	6 342
3344	Semiconductor & other electronic component mfg	1	294	140	22 970	840 242	14 292	31 297	334 846	3 342 279	1 774 640	4 945 698	622 776

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
31-33	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.													
	Orange County, CA PMSA—Con.													
	Manufacturing—Con.													
	334	Computer & electronic product mfg—Con.												
	3344	Semiconductor & other electronic component mfg—Con.												
	33441	Semiconductor & other electronic component mfg	1	294	140	22 970	840 242	14 292	31 297	334 846	3 342 279	1 774 640	4 945 698	622 776
	334412	Bare printed circuit board mfg	—	96	45	6 104	171 891	4 685	10 097	117 617	469 539	281 185	747 345	98 778
	334413	Semiconductor & related device mfg ...	1	32	13	5 211	264 914	2 199	3 602	52 550	1 470 206	377 213	1 684 235	465 262
	334415	Electronic resistor mfg	—	7	5	714	22 179	443	711	11 346	42 591	52 185	94 147	4 368
	334416	Electronic coil, transformer, & other inductor mfg	2	14	4	435	10 141	360	826	6 318	23 214	16 193	38 869	981
	334417	Electronic connector mfg	—	20	12	2 887	90 627	2 201	5 774	40 115	210 615	104 938	320 606	14 762
	334418	Printed circuit assembly (electronic assembly) mfg	—	33	26	3 555	142 234	1 802	5 153	52 634	792 232	706 534	1 497 185	17 581
	334419	Other electronic component mfg	1	83	33	3 965	135 246	2 532	4 994	52 732	326 343	232 514	552 194	20 693
	3345	Navigational, measuring, medical, & control instruments mfg	—	151	66	11 359	629 025	4 292	9 055	188 814	1 476 914	675 035	2 164 645	69 972
	33451	Navigational, measuring, medical, & control instruments mfg	—	151	66	11 359	629 025	4 292	9 055	188 814	1 476 914	675 035	2 164 645	69 972
	334510	Electromedical & electrotherapeutic apparatus mfg	—	23	14	1 485	84 517	751	1 596	33 554	249 606	74 025	323 081	13 095
	334511	Search, detection, navigation, & guidance instrument mfg	—	21	8	5 013	313 767	1 547	3 238	90 710	775 386	251 382	1 042 003	41 507
	334513	Industrial process control instrument mfg	1	21	11	920	35 888	469	1 010	14 992	90 621	36 855	127 967	1 849
	334515	Electricity measuring & testing instrument mfg	3	30	11	989	52 556	530	1 175	22 924	121 014	120 975	239 268	6 140
	334516	Analytical laboratory instrument mfg	—	20	9	1 965	107 874	420	856	13 834	148 557	127 207	275 520	3 927
	334519	Other measuring & controlling device mfg	—	21	7	572	20 589	320	647	7 570	57 758	27 994	86 454	2 137
	3346	Mfg & reproducing magnetic & optical media .	1	30	10	2 218	69 869	1 350	2 689	38 786	235 940	170 329	406 381	45 450
	33461	Mfg & reproducing magnetic & optical media	1	30	10	2 218	69 869	1 350	2 689	38 786	235 940	170 329	406 381	45 450
	334612	Prerecorded CD (except software), tape, & record reproducing	3	15	5	552	17 552	448	779	13 409	84 212	52 998	137 734	10 425
	334613	Magnetic & optical recording media mfg .	—	10	3	1 553	48 780	819	1 717	22 988	130 669	107 187	237 326	D
	335	Electrical equipment, appliance, & component mfg	1	146	62	7 047	254 087	4 710	9 619	132 566	757 153	538 387	1 264 611	36 550
	3351	Electric lighting equipment mfg	1	34	13	876	21 859	627	1 200	10 899	75 843	35 245	106 413	1 837
	33511	Electric lamp bulb & part mfg	—	2	2	e	D	D	D	D	D	D	D	D
	335110	Electric lamp bulb & part mfg	—	2	2	e	D	D	D	D	D	D	D	D
	33512	Lighting fixture mfg	1	32	11	f	D	D	D	D	D	D	D	D
	335122	Commercial/industrial/institutional electric lighting fixture mfg ...	—	10	5	279	6 816	189	395	3 317	30 453	16 365	46 591	870
	3352	Household appliance mfg ..	—	8	4	726	17 672	591	1 173	9 263	64 758	38 844	104 646	1 581
	33522	Major appliance mfg	—	5	3	f	D	D	D	D	D	D	D	D
335221	Household cooking appliance mfg	—	3	2	e	D	D	D	D	D	D	D	D	
3353	Electrical equipment mfg ..	1	49	16	1 730	56 551	1 072	2 247	26 453	128 791	83 067	209 024	3 627	
33531	Electrical equipment mfg	1	49	16	1 730	56 551	1 072	2 247	26 453	128 791	83 067	209 024	3 627	
335314	Relay & industrial control mfg	—	26	10	1 363	45 259	819	1 760	20 170	103 593	65 167	166 131	2 535	

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Orange County, CA PMSA—Con.												
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg—Con.												
3359	Other electrical equipment & component mfg	1	55	29	3 715	158 005	2 420	4 999	85 951	487 761	381 231	844 528	29 505
33591	Battery mfg	—	3	2	f	D	D	D	D	D	D	D	D
335911	Storage battery mfg...	—	3	2	f	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg	—	4	4	297	11 836	225	444	6 039	53 214	81 855	136 777	D
335929	Other communication & energy wire mfg ...	—	4	4	297	11 836	225	444	6 039	53 214	81 855	136 777	D
33593	Wiring device mfg	3	21	8	f	D	D	D	D	D	D	D	3 061
335931	Current-carrying wiring device mfg	2	16	8	797	28 625	531	1 156	15 502	60 755	30 027	91 266	2 878
33599	All other electrical equipment & component mfg	1	27	15	1 987	90 267	1 089	2 352	40 494	289 888	208 621	472 467	22 613
335999	All other miscellaneous electrical equipment & component mfg	1	26	14	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	225	88	18 992	781 018	11 869	22 736	350 521	1 151 417	1 575 013	2 980 000	135 143
3361	Motor vehicle mfg	7	14	5	f	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	7	13	5	f	D	D	D	D	D	D	D	D
336111	Automobile mfg	7	10	5	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	3	107	42	5 817	149 004	4 576	8 758	90 171	283 575	313 716	596 701	30 943
33631	Motor vehicle gasoline engine & engine parts mfg	2	21	7	473	15 676	322	557	6 834	26 189	27 459	52 259	2 422
336312	Gasoline engine & engine parts mfg	2	19	6	e	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	2	26	10	2 180	52 814	1 751	3 786	35 218	107 508	56 517	159 322	10 476
336322	Other motor vehicle electrical & electronic equipment mfg	2	24	10	g	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	—	4	3	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	—	4	3	f	D	D	D	D	D	D	D	D
33636	Motor vehicle seating & interior trim mfg	—	6	3	336	10 500	230	483	4 962	22 594	13 475	35 601	502
336360	Motor vehicle seating & interior trim mfg ...	—	6	3	336	10 500	230	483	4 962	22 594	13 475	35 601	502
33639	Other motor vehicle parts mfg	4	35	15	1 938	47 961	1 524	2 366	28 547	112 857	140 173	253 102	14 179
336399	All other motor vehicle parts mfg	4	35	15	1 938	47 961	1 524	2 366	28 547	112 857	140 173	253 102	14 179
3364	Aerospace product & parts mfg	—	45	23	10 915	561 773	5 669	10 820	216 522	707 537	1 058 807	2 018 276	97 227
33641	Aerospace product & parts mfg	—	45	23	10 915	561 773	5 669	10 820	216 522	707 537	1 058 807	2 018 276	97 227
336411	Aircraft mfg	—	2	1	g	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg	1	5	2	e	D	D	D	D	D	D	D	985
336413	Other aircraft part & auxiliary equipment mfg	—	36	18	2 971	110 618	1 959	3 723	56 874	226 137	122 448	356 980	D
336414	Guided missile & space vehicle mfg ...	—	1	1	i	D	D	D	D	D	D	D	D
3366	Ship & boat building	2	23	6	f	D	D	D	D	D	D	D	D
33661	Ship & boat building	2	23	6	f	D	D	D	D	D	D	D	D
336612	Boat building.....	2	16	5	e	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	5	23	9	868	23 193	570	1 076	12 858	55 353	47 238	102 961	D
33699	Other transportation equipment mfg	5	23	9	868	23 193	570	1 076	12 858	55 353	47 238	102 961	D
336991	Motorcycle, bicycle, & parts mfg	5	20	8	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Orange County, CA PMSA—Con.												
31-33	Manufacturing—Con.												
337	Furniture & related product mfg	1	248	81	9 876	264 366	7 988	16 181	179 231	827 143	499 755	1 318 374	24 402
3371	Household & institutional furniture & kitchen cabinet mfg	1	166	46	5 025	127 216	4 154	8 479	84 311	350 276	263 230	606 660	9 172
33711	Wood kitchen cabinet & counter top mfg	1	74	8	899	23 564	688	1 495	14 233	81 618	64 482	146 304	3 861
337110	Wood kitchen cabinet & counter top mfg ...	1	74	8	899	23 564	688	1 495	14 233	81 618	64 482	146 304	3 861
33712	Household & institutional furniture mfg	1	92	38	4 126	103 652	3 466	6 984	70 078	268 658	198 748	460 356	5 311
337121	Upholstered household furniture mfg	-	23	6	792	21 668	664	1 470	15 125	88 515	59 252	147 642	886
337122	Nonupholstered wood household furniture mfg	5	41	14	1 285	23 308	1 131	2 209	17 908	49 548	47 834	95 448	1 941
337124	Metal household furniture mfg	-	4	2	e	D	D	D	D	D	D	D	D
337125	Household furniture (except wood & metal) mfg	-	3	1	e	D	D	D	D	D	D	D	D
337127	Institutional furniture mfg	-	14	10	1 082	36 965	817	1 661	21 510	76 599	31 004	101 315	1 595
337129	Wood television, radio, & sewing machine cabinet mfg	-	7	5	381	6 542	339	640	4 616	15 243	20 063	35 696	379
3372	Office furniture (including fixtures) mfg	1	63	28	3 578	110 213	2 851	5 504	78 611	365 617	142 221	506 366	10 156
33721	Office furniture (including fixtures) mfg	1	63	28	3 578	110 213	2 851	5 504	78 611	365 617	142 221	506 366	10 156
337211	Wood office furniture mfg	4	14	7	650	17 488	522	1 014	11 635	36 462	20 664	56 635	1 062
337212	Custom architectural woodwork & millwork mfg	2	10	3	346	7 177	268	333	5 104	13 697	6 880	20 668	303
337214	Office furniture (except wood) mfg	-	11	6	1 557	56 679	1 263	2 747	43 749	258 499	70 899	329 274	4 516
337215	Showcase, partition, shelving, & locker mfg	2	28	12	1 025	28 869	798	1 410	18 123	56 959	43 778	99 789	4 275
3379	Other furniture related product mfg	2	19	7	1 273	26 937	983	2 198	16 309	111 250	94 304	205 348	5 074
33792	Blind & shade mfg	2	9	6	1 145	23 561	879	1 949	14 076	97 080	76 390	173 933	D
337920	Blind & shade mfg	2	9	6	1 145	23 561	879	1 949	14 076	97 080	76 390	173 933	D
339	Miscellaneous mfg	1	573	134	16 652	586 932	10 740	20 516	255 369	1 541 715	1 107 043	2 645 508	86 487
3391	Medical equipment & supplies mfg	-	256	62	9 856	396 288	5 827	12 122	164 610	1 127 501	748 209	1 871 683	67 964
33911	Medical equipment & supplies mfg	-	256	62	9 856	396 288	5 827	12 122	164 610	1 127 501	748 209	1 871 683	67 964
339111	Laboratory apparatus & furniture mfg	-	9	4	952	47 600	278	559	10 474	101 203	78 551	175 262	8 075
339112	Surgical & medical instrument mfg	1	61	21	2 672	107 684	1 487	3 050	38 231	171 318	167 424	342 060	14 053
339113	Surgical appliance & supplies mfg	-	47	22	2 976	118 078	1 919	3 656	47 677	435 372	315 035	749 896	26 822
339114	Dental equipment & supplies mfg	-	18	5	864	40 592	504	1 134	20 090	193 477	60 034	244 326	4 690
339115	Ophthalmic goods mfg	1	9	5	1 072	44 421	763	1 618	23 331	177 532	111 514	295 083	12 684
339116	Dental laboratories ...	3	112	5	1 320	37 913	876	2 105	24 807	48 599	15 651	65 056	1 640
3399	Other miscellaneous mfg ..	2	317	72	6 796	190 644	4 913	8 394	90 759	414 214	358 834	773 825	18 523
33991	Jewelry & silverware mfg	-	25	3	539	14 348	383	810	7 397	29 142	24 736	53 829	1 081
33992	Sporting & athletic goods mfg	1	103	23	2 332	65 157	1 658	2 877	28 812	160 616	173 231	334 003	6 381
339920	Sporting & athletic goods mfg	1	103	23	2 332	65 157	1 658	2 877	28 812	160 616	173 231	334 003	6 381
33994	Office supplies (except paper) mfg	1	15	3	252	5 276	206	296	3 828	11 525	16 212	27 634	896
33995	Sign mfg	2	86	11	1 002	27 725	670	1 146	14 916	47 906	32 570	80 591	1 973
339950	Sign mfg	2	86	11	1 002	27 725	670	1 146	14 916	47 906	32 570	80 591	1 973
33999	All other miscellaneous mfg	3	70	29	2 438	72 573	1 808	2 889	32 426	152 279	102 813	255 952	7 852
339991	Gasket, packing, & sealing device mfg ...	3	15	9	900	30 468	644	1 242	16 013	63 570	30 873	94 097	2 217
339999	All other miscellaneous mfg	3	48	17	1 336	37 269	990	1 290	12 854	79 814	60 917	142 232	5 285

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Riverside—San Bernardino, CA PMSA												
31-33	Manufacturing	1	3 412	1 107	109 582	3 159 516	83 254	164 000	1 977 072	9 494 407	9 875 342	19 354 632	850 161
311	Food mfg	2	177	55	6 822	178 682	4 886	10 121	115 228	927 312	1 226 693	2 159 063	74 556
3111	Animal food mfg	2	12	8	526	20 427	310	650	9 290	73 457	258 276	333 443	4 267
31111	Animal food mfg	2	12	8	526	20 427	310	650	9 290	73 457	258 276	333 443	4 267
311119	Other animal food mfg	2	11	7	e	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg	1	19	4	684	9 585	390	674	7 026	21 381	23 254	45 513	3 541
31134	Nonchocolate confectionery mfg	2	9	2	425	4 325	164	341	2 643	9 900	6 651	17 292	2 142
311340	Nonchocolate confectionery mfg ...	2	9	2	425	4 325	164	341	2 643	9 900	6 651	17 292	2 142
3114	Fruit & vegetable preserving & specialty food mfg	3	18	12	2 144	48 592	1 437	2 978	33 960	194 850	240 805	435 437	28 431
31141	Frozen food mfg	5	5	5	1 474	26 872	898	1 847	20 546	115 607	122 743	238 402	10 574
311411	Frozen fruit, juice, & vegetable mfg	6	3	3	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	-	2	2	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	-	13	7	670	21 720	539	1 131	13 414	79 243	118 062	197 035	17 857
311421	Fruit & vegetable canning	-	10	5	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg	5	13	5	552	23 322	389	943	14 286	67 016	319 984	388 106	5 515
31151	Dairy product (except frozen) mfg	5	11	5	f	D	D	D	D	D	D	D	D
311513	Cheese mfg	6	4	4	371	14 222	279	731	9 319	40 792	254 474	296 332	D
3116	Meat product mfg	8	16	2	348	7 393	279	467	4 737	17 440	39 902	57 422	755
31161	Animal slaughtering & processing	8	16	2	348	7 393	279	467	4 737	17 440	39 902	57 422	755
311611	Animal (except poultry) slaughtering	8	7	2	252	5 622	212	358	3 618	10 854	30 383	41 300	392
3118	Bakeries & tortilla mfg	1	71	11	1 294	27 012	1 042	2 122	19 179	110 196	72 593	182 843	13 258
31181	Bread & bakery product mfg	2	61	7	580	11 048	415	703	6 838	32 695	24 312	56 904	D
31183	Tortilla mfg	-	5	2	f	D	D	D	D	D	D	D	D
311830	Tortilla mfg	-	5	2	f	D	D	D	D	D	D	D	D
3119	Other food mfg	-	22	11	1 173	39 244	972	2 162	25 424	430 739	230 237	662 149	17 687
31191	Snack food mfg	-	7	3	706	25 615	583	1 336	15 604	94 256	115 601	210 556	D
311919	Other snack food mfg .	-	6	3	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	1	20	8	752	21 391	392	721	9 815	92 551	151 167	244 848	9 647
3121	Beverage mfg	1	20	8	752	21 391	392	721	9 815	92 551	151 167	244 848	9 647
31211	Soft drink & ice mfg	-	11	5	537	17 022	309	628	8 291	78 128	135 462	213 462	6 348
312111	Soft drink mfg	-	4	3	441	15 220	249	533	7 564	73 688	130 713	204 274	5 899
313	Textile mills	3	19	3	422	9 137	373	781	6 748	17 884	15 207	32 994	2 304
3133	Textile & fabric finishing & fabric coating mills	3	15	3	412	8 995	364	769	6 630	17 643	14 886	32 434	D
31331	Textile & fabric finishing mills	3	12	2	349	8 077	310	719	6 054	15 264	13 650	28 828	D
313311	Broadwoven fabric finishing mills	3	11	2	e	D	D	D	D	D	D	D	2 213
314	Textile product mills	6	60	12	812	16 135	625	1 071	8 959	44 103	38 209	79 699	2 142
3149	Other textile product mills ..	6	41	10	701	13 932	526	895	7 332	41 611	35 418	74 415	2 102
31491	Textile bag & canvas mills	7	21	5	351	7 849	244	406	3 545	28 657	25 316	51 419	1 459
314912	Canvas & related product mills	8	17	4	276	6 309	184	306	2 683	25 874	22 336	45 656	1 386
31499	All other textile product mills	3	20	5	350	6 083	282	489	3 787	12 954	10 102	22 996	643
314999	All other miscellaneous textile product mills ..	3	20	5	350	6 083	282	489	3 787	12 954	10 102	22 996	643
315	Apparel mfg	4	73	10	858	10 317	777	1 297	8 351	17 426	16 518	33 684	D
3152	Cut & sew apparel mfg	4	62	9	782	9 030	717	1 195	7 456	15 647	14 349	29 628	D
31521	Cut & sew apparel contractors	8	48	6	640	6 540	602	1 002	5 892	10 340	1 457	11 773	D
315212	Women's, girls', & infants' cut & sew apparel contractors ..	9	45	4	f	D	D	D	D	D	D	D	D
316	Leather & allied product mfg .	-	14	3	355	7 514	279	562	4 281	20 194	16 759	37 105	D
3169	Other leather & allied product mfg	-	8	1	252	5 707	196	435	3 154	15 051	7 690	22 295	D
31699	Other leather & allied product mfg	-	8	1	252	5 707	196	435	3 154	15 051	7 690	22 295	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Riverside—San Bernardino, CA PMSA—Con.												
31-33	Manufacturing—Con.												
321	Wood product mfg	2	136	50	5 208	123 675	4 402	8 605	84 914	302 116	380 554	677 117	12 640
3212	Veneer, plywood, & engineered wood product mfg	—	25	14	1 181	29 875	975	2 018	19 589	71 947	80 602	152 688	2 310
32121	Veneer, plywood, & engineered wood product mfg	—	25	14	1 181	29 875	975	2 018	19 589	71 947	80 602	152 688	2 310
321214	Truss mfg	—	21	11	1 090	27 077	898	1 864	18 090	61 994	62 841	124 240	1 810
3219	Other wood product mfg	2	102	35	3 953	92 164	3 363	6 459	64 075	226 442	296 137	516 888	9 978
32191	Millwork	4	38	11	983	20 055	842	1 558	14 398	55 029	106 127	155 892	3 745
321911	Wood window & door mfg	9	10	3	292	7 078	217	451	4 450	24 837	41 007	63 711	1 018
321912	Cut stock, resawing lumber, & planing	—	11	4	493	9 519	455	885	7 214	23 466	57 745	78 042	2 368
32192	Wood container & pallet mfg	4	29	5	390	7 790	331	637	5 751	20 215	23 100	42 883	1 170
321920	Wood container & pallet mfg	4	29	5	390	7 790	331	637	5 751	20 215	23 100	42 883	1 170
32199	All other wood product mfg	1	35	19	2 580	64 319	2 190	4 264	43 926	151 198	166 910	318 113	5 063
321991	Manufactured home (mobile home) mfg	—	9	9	1 616	45 372	1 407	2 718	30 663	98 967	130 901	230 503	1 651
321999	All other miscellaneous wood product mfg	—	20	8	771	14 242	639	1 269	10 297	42 520	22 716	64 517	2 870
322	Paper mfg	1	47	33	2 293	79 922	1 739	3 743	49 685	216 848	332 548	549 868	19 097
3222	Converted paper product mfg	1	45	31	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	1	24	15	972	31 947	765	1 680	20 999	71 260	141 693	212 104	7 469
322211	Corrugated & solid fiber box mfg	—	11	8	533	18 582	417	920	11 701	40 562	113 750	153 666	5 154
322212	Folding paperboard box mfg	2	7	6	347	10 968	267	605	7 490	24 542	19 741	44 072	2 111
32222	Paper bag & coated & treated paper mfg	—	6	6	344	12 973	244	562	7 002	41 174	58 122	100 358	4 127
32223	Stationery product mfg	—	5	2	e	D	D	D	D	D	D	D	D
322232	Envelope mfg	—	3	2	e	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	4	10	8	516	13 685	405	829	9 269	39 316	54 783	94 441	2 164
322299	All other converted paper product mfg	2	8	6	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	2	301	45	4 346	113 905	3 317	5 799	74 517	298 878	223 656	523 528	16 394
3231	Printing & related support activities	2	301	45	4 346	113 905	3 317	5 799	74 517	298 878	223 656	523 528	16 394
32311	Printing	2	275	38	3 398	95 705	2 492	4 402	60 068	259 927	213 539	474 802	15 111
323110	Commercial lithographic printing	2	124	19	1 903	56 581	1 418	2 566	34 919	146 523	125 467	271 710	7 489
323114	Quick printing	3	76	3	402	8 711	296	408	5 384	19 056	9 792	28 847	1 431
323116	Manifold business form printing	1	13	8	576	18 592	406	792	12 678	68 710	62 319	132 947	1 534
32312	Support activities for printing	5	26	7	948	18 200	825	1 397	14 449	38 951	10 117	48 726	1 283
323121	Tradebinding & related work	4	14	6	836	13 156	743	1 214	10 984	25 483	7 074	32 212	720
324	Petroleum & coal products mfg	2	17	3	324	15 734	263	566	11 945	72 431	113 097	185 344	3 237
3241	Petroleum & coal products mfg	2	17	3	324	15 734	263	566	11 945	72 431	113 097	185 344	3 237
32412	Asphalt paving, roofing, & saturated materials mfg	3	15	2	e	D	D	D	D	D	D	D	D
325	Chemical mfg	1	115	39	2 987	100 925	1 846	3 750	53 036	513 797	436 076	958 654	32 792
3251	Basic chemical mfg	—	16	7	471	19 416	304	639	11 139	131 327	106 856	248 594	8 335
32518	Other basic inorganic chemical mfg	—	9	4	288	13 470	192	393	8 373	38 269	74 321	124 793	D
325188	All other basic inorganic chemical mfg	—	9	4	288	13 470	192	393	8 373	38 269	74 321	124 793	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	4	10	6	335	12 641	200	508	6 422	60 058	76 228	136 089	4 179
32521	Resin & synthetic rubber mfg	4	10	6	335	12 641	200	508	6 422	60 058	76 228	136 089	4 179
325211	Plastics material & resin mfg	3	8	6	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Riverside—San Bernardino, CA PMSA—Con.												
31-33	Manufacturing—Con.												
325	Chemical mfg—Con.												
3254	Pharmaceutical & medicine mfg	-	10	3	617	24 003	391	808	12 908	137 580	64 403	199 982	9 181
32541	Pharmaceutical & medicine mfg	-	10	3	617	24 003	391	808	12 908	137 580	64 403	199 982	9 181
325412	Pharmaceutical preparation mfg	-	5	2	f	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	-	30	9	621	18 670	345	648	8 435	85 463	88 514	175 083	3 264
32551	Paint & coating mfg	1	24	6	363	11 351	222	446	6 072	58 511	63 190	124 517	1 958
325510	Paint & coating mfg	1	24	6	363	11 351	222	446	6 072	58 511	63 190	124 517	1 958
32552	Adhesive mfg	-	6	3	258	7 319	123	202	2 363	26 952	25 324	50 566	1 306
325520	Adhesive mfg	-	6	3	258	7 319	123	202	2 363	26 952	25 324	50 566	1 306
3256	Soap, cleaning compound, & toilet preparation mfg ..	6	20	5	507	13 042	339	604	6 979	42 043	47 961	90 515	3 272
32561	Soap & cleaning compound mfg	7	10	2	262	7 140	180	330	3 735	14 720	26 712	41 742	1 549
3259	Other chemical product mfg	1	25	6	330	11 040	190	393	5 565	42 610	44 330	85 837	2 233
32599	All other chemical product & preparation mfg	1	23	6	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	253	141	13 116	353 584	10 594	20 569	231 875	1 070 866	984 009	2 054 018	94 587
3261	Plastics product mfg	1	217	123	11 986	324 335	9 722	18 883	213 642	961 891	876 470	1 837 408	90 063
32611	Unsupported plastics film, sheet, & bag mfg ..	-	17	13	967	26 961	770	1 640	16 894	91 472	123 033	211 083	6 170
326111	Unsupported plastics bag mfg	-	8	6	405	10 248	338	770	6 309	37 804	43 400	80 381	3 734
326113	Unsupported plastics film & sheet (except packaging) mfg	-	9	7	562	16 713	432	870	10 585	53 668	79 633	130 702	2 436
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	-	14	4	378	11 133	294	582	6 868	40 263	58 999	92 175	3 235
32613	Laminated plastics plate, sheet, & shape mfg	1	6	2	320	9 032	257	405	4 832	23 147	17 873	41 141	1 854
326130	Laminated plastics plate, sheet, & shape mfg	1	6	2	320	9 032	257	405	4 832	23 147	17 873	41 141	1 854
32614	Polystyrene foam product mfg	1	8	5	707	20 708	604	1 285	15 848	89 802	87 419	177 591	6 595
326140	Polystyrene foam product mfg	1	8	5	707	20 708	604	1 285	15 848	89 802	87 419	177 591	6 595
32615	Urethane & other foam product (except polystyrene) mfg	3	14	10	962	21 528	817	1 619	16 861	72 385	88 721	158 304	3 424
326150	Urethane & other foam product (except polystyrene) mfg	3	14	10	962	21 528	817	1 619	16 861	72 385	88 721	158 304	3 424
32616	Plastics bottle mfg	2	15	13	1 093	31 884	913	1 879	24 488	114 476	136 673	250 597	22 782
326160	Plastics bottle mfg	2	15	13	1 093	31 884	913	1 879	24 488	114 476	136 673	250 597	22 782
32619	Other plastics product mfg	-	143	76	7 559	203 089	6 067	11 473	127 851	530 346	363 752	906 517	46 003
326191	Plastics plumbing fixture mfg	-	10	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	132	73	7 032	190 773	5 657	10 482	120 127	494 708	321 115	828 910	44 743
3262	Rubber product mfg	1	36	18	1 130	29 249	872	1 686	18 233	108 975	107 539	216 610	4 524
32621	Tire mfg	-	11	4	295	8 813	213	429	5 559	54 323	56 267	110 859	1 165
32629	Other rubber product mfg	2	22	14	821	20 076	647	1 235	12 377	53 005	50 112	102 965	3 262
326291	Rubber product mfg for mechanical use	4	7	6	429	9 869	383	749	6 978	24 817	10 759	35 555	1 911
326299	All other rubber product mfg	2	15	8	392	10 207	264	486	5 399	28 188	39 353	67 410	1 351

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Riverside—San Bernardino, CA PMSA—Con.												
31-33	Manufacturing—Con.												
327	Nonmetallic mineral product mfg	1	190	80	7 203	234 062	5 494	11 235	158 438	749 029	571 444	1 332 011	76 948
3271	Clay product & refractory mfg	1	30	15	1 236	30 198	923	1 906	18 465	65 439	34 768	103 223	2 550
32711	Pottery, ceramics, & plumbing fixture mfg ...	2	18	7	740	17 091	556	1 127	10 056	32 954	15 387	48 130	1 414
327112	Vitreous china, fine earthenware, & other pottery product mfg ..	2	16	6	f	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg	—	12	8	496	13 107	367	779	8 409	32 485	19 381	55 093	1 136
327123	Other structural clay product mfg	—	6	6	308	8 347	229	503	5 354	15 581	14 406	34 148	486
3272	Glass & glass product mfg .	—	16	3	366	14 019	295	604	10 968	56 354	26 926	82 909	D
32721	Glass & glass product mfg	—	16	3	366	14 019	295	604	10 968	56 354	26 926	82 909	D
3273	Cement & concrete product mfg	1	115	52	4 709	161 257	3 586	7 396	109 469	508 593	440 800	954 720	66 207
32731	Cement mfg	—	6	5	852	41 428	646	1 369	27 791	181 323	179 150	362 647	37 902
327310	Cement mfg	—	6	5	852	41 428	646	1 369	27 791	181 323	179 150	362 647	37 902
32732	Ready-mix concrete mfg .	5	48	12	1 075	35 349	778	1 613	25 091	99 889	117 909	217 934	9 836
327320	Ready-mix concrete mfg	5	48	12	1 075	35 349	778	1 613	25 091	99 889	117 909	217 934	9 836
32733	Concrete pipe, brick, & block mfg	2	25	16	1 035	29 299	833	1 625	20 490	58 536	51 536	112 741	3 819
327331	Concrete block & brick mfg	3	14	8	436	10 415	333	718	6 487	33 446	23 190	56 357	1 726
327332	Concrete pipe mfg	1	11	8	599	18 884	500	907	14 003	25 090	28 346	56 384	2 093
32739	Other concrete product mfg	—	36	19	1 747	55 181	1 329	2 789	36 097	168 845	92 205	261 398	14 650
327390	Other concrete product mfg	—	36	19	1 747	55 181	1 329	2 789	36 097	168 845	92 205	261 398	14 650
3279	Other nonmetallic mineral product mfg	2	24	9	f	D	D	D	D	D	D	D	6 398
32799	All other nonmetallic mineral product mfg ...	2	16	4	546	19 370	425	877	14 521	71 595	35 920	107 487	5 426
327993	Mineral wool mfg	2	4	3	434	16 392	358	744	12 666	51 509	28 829	80 161	4 532
331	Primary metal mfg	—	60	28	3 408	143 790	2 828	6 300	105 007	486 994	979 740	1 459 937	76 990
3311	Iron & steel mills & ferroalloy mfg	—	5	2	g	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	—	5	2	g	D	D	D	D	D	D	D	D
331111	Iron & steel mills	—	5	2	g	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	—	9	6	399	15 923	330	686	9 558	36 934	85 806	120 583	D
3313	Alumina & aluminum production & processing ..	—	13	11	888	31 827	741	2 010	22 385	102 767	270 474	368 664	6 801
33131	Alumina & aluminum production & processing	—	13	11	888	31 827	741	2 010	22 385	102 767	270 474	368 664	6 801
331314	Secondary smelting & alloying of aluminum .	—	6	6	395	14 469	332	750	9 076	74 578	208 953	276 713	D
331316	Aluminum extruded product mfg	—	6	4	e	D	D	D	D	D	D	D	D
3315	Foundries	—	23	9	f	D	D	D	D	D	D	D	2 216
33152	Nonferrous metal foundries	1	16	7	590	14 417	488	1 033	9 482	37 214	19 717	57 924	2 095
331524	Aluminum foundries (except die-casting) ..	—	8	4	438	10 874	383	803	7 178	26 616	15 007	42 602	1 894
332	Fabricated metal product mfg	—	701	206	17 466	537 578	13 386	26 889	341 788	1 243 913	1 460 379	2 681 553	200 896
3321	Forging & stamping	—	43	18	1 481	56 347	1 121	2 466	33 413	144 248	211 875	347 442	8 356
33211	Forging & stamping	—	43	18	1 481	56 347	1 121	2 466	33 413	144 248	211 875	347 442	8 356
332111	Iron & steel forging ...	—	4	3	f	D	D	D	D	D	D	D	D
332116	Metal stamping	1	24	8	408	14 890	289	647	8 301	33 502	31 179	64 730	1 828
3322	Cutlery & handtool mfg	1	20	10	770	21 536	562	948	11 712	53 591	42 496	98 206	D
33221	Cutlery & handtool mfg ..	1	20	10	770	21 536	562	948	11 712	53 591	42 496	98 206	D
332211	Cutlery & flatware (except precious) mfg	—	3	2	e	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg .	4	14	7	427	10 211	308	496	5 981	19 168	14 924	34 292	D

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	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Riverside—San Bernardino, CA PMSA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3323	Architectural & structural metals mfg	-	146	59	5 058	137 321	3 865	7 707	85 332	318 807	393 073	711 874	11 537
33231	Plate work & fabricated structural product mfg ..	1	52	18	1 693	50 983	1 315	2 718	33 332	124 078	141 194	265 680	3 945
332311	Prefabricated metal building & component mfg	-	10	7	584	15 926	459	971	10 551	37 570	44 359	84 141	1 694
332312	Fabricated structural metal mfg	2	33	9	833	25 551	670	1 343	17 162	64 712	74 887	137 336	1 537
332313	Plate work mfg	-	9	2	276	9 506	186	404	5 619	21 796	21 948	44 203	714
33232	Ornamental & architectural metal products mfg	-	94	41	3 365	86 338	2 550	4 989	52 000	194 729	251 879	446 194	7 592
332321	Metal window & door mfg	-	26	14	1 458	33 034	1 182	2 138	20 066	73 358	77 653	150 635	2 260
332322	Sheet metal work mfg ..	-	54	24	1 642	44 541	1 190	2 488	26 864	102 970	122 148	224 934	4 764
332323	Ornamental & architectural metal work mfg	-	14	3	265	8 763	178	363	5 070	18 401	52 078	70 625	568
3324	Boiler, tank, & shipping container mfg	1	26	11	1 060	44 510	817	1 785	31 318	85 406	284 182	366 214	13 580
33242	Metal tank (heavy gauge) mfg	-	6	4	409	15 368	287	648	8 765	38 059	33 324	72 441	D
332420	Metal tank (heavy gauge) mfg	-	6	4	409	15 368	287	648	8 765	38 059	33 324	72 441	D
33243	Metal can, box, & other metal container (light gauge) mfg	-	15	5	505	24 933	420	945	19 867	39 369	243 353	278 299	11 066
332431	Metal can mfg	-	7	4	393	22 022	335	764	17 709	31 835	234 105	261 643	10 886
3325	Hardware mfg	1	20	7	721	18 953	569	1 124	11 321	40 436	29 125	69 057	4 984
33251	Hardware mfg	1	20	7	721	18 953	569	1 124	11 321	40 436	29 125	69 057	4 984
332510	Hardware mfg	1	20	7	721	18 953	569	1 124	11 321	40 436	29 125	69 057	4 984
3326	Spring & wire product mfg .	-	27	7	703	19 102	446	929	11 563	86 467	53 421	138 482	3 618
33261	Spring & wire product mfg	-	27	7	703	19 102	446	929	11 563	86 467	53 421	138 482	3 618
332618	Other fabricated wire product mfg	-	19	6	578	14 536	358	748	8 708	52 475	43 113	94 571	3 136
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	304	52	3 784	120 298	3 029	5 808	83 027	225 713	121 548	345 556	18 636
33271	Machine shops	2	258	32	2 453	80 012	1 967	3 546	53 653	154 820	64 052	218 575	10 658
332710	Machine shops	2	258	32	2 453	80 012	1 967	3 546	53 653	154 820	64 052	218 575	10 658
33272	Turned product & screw, nut, & bolt mfg	-	46	20	1 331	40 286	1 062	2 262	29 374	70 893	57 496	126 981	7 978
332721	Precision turned product mfg	-	36	16	1 126	34 194	893	1 901	25 081	61 251	50 622	110 441	7 712
3328	Coating, engraving, heat treating, & allied activities.	-	52	22	1 450	44 008	1 234	2 708	32 361	112 101	172 641	276 793	D
33281	Coating, engraving, heat treating, & allied activities	-	52	22	1 450	44 008	1 234	2 708	32 361	112 101	172 641	276 793	D
332812	Metal coating engraving (exc jewelry/silverware)/ allied services	-	25	14	1 061	33 740	913	2 146	25 949	90 522	163 797	246 372	D
332813	Electroplating, plating, polishing, anodizing, & coloring	3	26	8	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	63	20	2 439	75 503	1 743	3 414	41 741	177 144	152 018	327 929	10 117
33291	Metal valve mfg	-	13	8	1 044	35 528	729	1 459	20 054	88 437	78 389	165 792	6 693
332912	Fluid power valve & hose fitting mfg	-	3	2	e	D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting & trim mfg	-	4	4	519	13 969	430	911	9 518	45 265	44 440	88 838	D
33299	All other fabricated metal product mfg	1	50	12	1 395	39 975	1 014	1 955	21 687	88 707	73 629	162 137	3 424
332999	All other miscellaneous fabricated metal product mfg	1	32	9	1 038	27 493	795	1 499	16 227	52 900	63 435	116 670	2 308

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	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Riverside—San Bernardino, CA PMSA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg	2	297	72	6 254	207 999	4 397	8 930	118 800	462 061	386 816	849 525	30 640
3331	Agriculture, construction, & mining machinery mfg.	2	21	4	268	9 866	158	311	4 209	20 756	21 600	41 720	D
3332	Industrial machinery mfg	6	29	6	619	26 774	353	760	11 853	52 017	41 046	90 779	3 920
33329	Other industrial machinery mfg	6	25	5	461	23 087	249	516	9 883	45 679	37 218	80 559	D
333298	All other industrial machinery mfg	8	13	3	291	16 412	156	341	7 146	35 892	24 646	59 092	3 347
3333	Commercial & service industry machinery mfg	1	37	12	883	27 306	568	1 062	13 277	60 870	65 122	126 641	3 802
33331	Commercial & service industry machinery mfg	1	37	12	883	27 306	568	1 062	13 277	60 870	65 122	126 641	3 802
333319	Other commercial & service industry machinery mfg	1	22	7	586	16 480	387	718	7 822	30 951	48 003	80 404	1 898
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	2	24	10	1 605	47 034	1 294	2 883	31 280	104 518	113 678	222 222	7 618
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	2	24	10	1 605	47 034	1 294	2 883	31 280	104 518	113 678	222 222	7 618
333414	Heating equipment (except warm air furnaces) mfg	1	6	3	443	11 008	335	649	5 820	23 415	22 084	47 443	1 095
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	—	11	5	954	26 211	804	1 914	19 554	58 730	69 621	128 988	5 593
3335	Metalworking machinery mfg	2	114	18	1 226	43 591	945	1 851	30 567	81 834	31 710	112 385	6 067
33351	Metalworking machinery mfg	2	114	18	1 226	43 591	945	1 851	30 567	81 834	31 710	112 385	6 067
333511	Industrial mold mfg	1	53	9	569	21 753	452	878	16 002	38 388	14 821	52 474	3 819
333514	Special die & tool, die set, jig, & fixture mfg	4	39	6	419	14 679	327	628	10 189	27 960	9 391	37 038	1 526
3339	Other general-purpose machinery mfg	1	68	21	1 605	52 294	1 044	2 006	26 877	139 925	111 808	251 739	8 155
33391	Pump & compressor mfg	—	10	4	455	18 321	305	655	10 003	60 083	48 953	109 042	3 440
333911	Pump & pumping equipment mfg	—	5	3	e	D	D	D	D	D	D	D	3 068
33399	All other general-purpose machinery mfg	2	45	13	933	24 726	586	1 025	11 903	61 929	42 833	104 330	3 338
333999	All other miscellaneous general-purpose machinery mfg	2	16	5	354	6 611	204	305	3 024	13 645	11 189	24 746	1 314
334	Computer & electronic product mfg	1	151	54	6 618	201 547	4 307	7 919	81 755	531 247	352 462	884 320	52 658
3341	Computer & peripheral equipment mfg	4	20	4	761	16 873	568	1 209	11 209	37 120	108 895	145 499	4 607
33411	Computer & peripheral equipment mfg	4	20	4	761	16 873	568	1 209	11 209	37 120	108 895	145 499	4 607
334119	Other computer peripheral equipment mfg	4	13	3	687	14 721	536	1 148	9 803	32 420	102 856	134 332	3 919
3342	Communications equipment mfg	—	14	7	976	35 380	439	871	10 098	110 220	46 348	155 719	3 822
33429	Other communications equipment mfg	—	8	4	666	22 309	279	534	6 264	80 176	30 615	109 817	2 048
334290	Other communications equipment mfg	—	8	4	666	22 309	279	534	6 264	80 176	30 615	109 817	2 048
3344	Semiconductor & other electronic component mfg	—	62	27	3 894	116 749	2 691	4 738	46 313	307 550	149 210	458 270	41 502
33441	Semiconductor & other electronic component mfg	—	62	27	3 894	116 749	2 691	4 738	46 313	307 550	149 210	458 270	41 502
334412	Bare printed circuit board mfg	2	9	4	265	8 792	192	357	4 083	26 554	15 625	41 553	2 084
334413	Semiconductor & related device mfg	—	7	4	1 112	32 788	630	1 208	12 437	123 088	78 867	202 241	D
334415	Electronic resistor mfg	—	3	3	e	D	D	D	D	D	D	D	D
334417	Electronic connector mfg	—	8	5	g	D	D	D	D	D	D	D	D
334419	Other electronic component mfg	4	22	7	592	22 024	336	608	5 620	15 105	14 213	32 170	942

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	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Riverside—San Bernardino, CA PMSA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3345	Navigational, measuring, medical, & control instruments mfg	3	43	13	828	27 423	537	959	12 427	63 228	31 694	95 307	2 185
33451	Navigational, measuring, medical, & control instruments mfg	3	43	13	828	27 423	537	959	12 427	63 228	31 694	95 307	2 185
335	Electrical equipment, appliance, & component mfg	—	51	19	2 233	61 959	1 804	3 453	38 062	244 013	173 306	415 731	4 809
3351	Electric lighting equipment mfg	—	15	9	1 294	33 724	1 077	2 291	23 207	157 093	103 401	260 169	2 419
33512	Lighting fixture mfg	—	15	9	1 294	33 724	1 077	2 291	23 207	157 093	103 401	260 169	2 419
335129	Other lighting equipment mfg	—	6	5	1 008	27 770	860	1 910	19 733	138 218	86 451	224 488	D
3359	Other electrical equipment & component mfg	—	13	7	633	18 615	512	787	10 000	41 271	48 421	91 541	1 518
336	Transportation equipment mfg	1	211	97	11 161	324 839	9 028	17 134	227 250	715 514	1 185 826	1 894 346	65 069
3362	Motor vehicle body & trailer mfg	—	45	26	4 126	102 160	3 447	6 751	76 776	264 353	506 897	768 936	9 492
33621	Motor vehicle body & trailer mfg	—	45	26	4 126	102 160	3 447	6 751	76 776	264 353	506 897	768 936	9 492
336211	Motor vehicle body mfg	1	16	8	718	18 240	606	1 159	12 844	40 571	71 512	111 269	D
336213	Motor home mfg	—	3	3	1 670	36 368	1 424	2 986	30 356	127 227	260 554	385 324	D
336214	Travel trailer & camper mfg	1	23	14	1 649	45 347	1 337	2 436	31 718	93 555	167 139	261 649	2 666
3363	Motor vehicle parts mfg ...	4	82	37	3 648	91 059	2 930	5 436	58 113	208 680	259 463	466 797	23 222
33632	Motor vehicle electrical & electronic equipment mfg	1	11	3	416	9 323	340	588	6 642	15 705	41 190	57 182	D
336322	Other motor vehicle electrical & electronic equipment mfg	1	10	3	e	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	—	7	3	448	12 080	283	559	4 959	17 459	13 962	32 152	2 198
336350	Motor vehicle transmission & power train parts mfg	—	7	3	448	12 080	283	559	4 959	17 459	13 962	32 152	2 198
33639	Other motor vehicle parts mfg	6	35	22	2 251	52 959	1 874	3 495	35 816	129 414	161 184	287 602	13 127
336399	All other motor vehicle parts mfg	6	35	22	2 251	52 959	1 874	3 495	35 816	129 414	161 184	287 602	13 127
3364	Aerospace product & parts mfg	—	38	20	2 248	100 773	1 723	2 949	70 807	168 812	345 102	512 457	D
33641	Aerospace product & parts mfg	—	38	20	2 248	100 773	1 723	2 949	70 807	168 812	345 102	512 457	D
336412	Aircraft engine & engine parts mfg	—	2	1	f	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	2	32	18	g	D	D	D	D	D	D	D	D
3366	Ship & boat building	3	13	4	502	13 265	413	909	9 946	28 179	30 857	58 983	D
33661	Ship & boat building	3	13	4	502	13 265	413	909	9 946	28 179	30 857	58 983	D
336612	Boat building	3	9	4	479	12 543	392	868	9 365	26 889	29 896	56 732	D
3369	Other transportation equipment mfg	2	25	7	e	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	2	25	7	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	251	88	9 444	200 244	7 357	14 301	136 043	423 784	446 515	884 714	18 656
3371	Household & institutional furniture & kitchen cabinet mfg	—	178	51	6 543	134 738	5 500	10 880	96 292	269 149	290 211	572 092	12 699
33711	Wood kitchen cabinet & counter top mfg	1	77	7	1 220	26 857	825	1 645	15 600	59 884	34 565	94 773	1 696
337110	Wood kitchen cabinet & counter top mfg ...	1	77	7	1 220	26 857	825	1 645	15 600	59 884	34 565	94 773	1 696

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	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Riverside—San Bernardino, CA PMSA—Con.												
31-33	Manufacturing—Con.												
337	Furniture & related product mfg—Con.												
3371	Household & institutional furniture & kitchen cabinet mfg—Con.												
33712	Household & institutional furniture mfg	-	101	44	5 323	107 881	4 675	9 235	80 692	209 265	255 646	477 319	11 003
337121	Upholstered household furniture mfg	-	25	13	2 172	47 494	1 934	3 786	38 239	95 369	118 816	213 602	1 567
337122	Nonupholstered wood household furniture mfg	-	46	18	2 028	36 454	1 777	3 644	26 042	66 941	94 919	175 537	7 267
337127	Institutional furniture mfg	-	16	7	698	14 910	608	1 161	10 083	31 299	25 659	56 479	1 085
3372	Office furniture (including fixtures) mfg	3	58	29	2 472	54 445	1 541	2 804	32 629	116 682	125 563	243 736	4 234
33721	Office furniture (including fixtures) mfg	3	58	29	2 472	54 445	1 541	2 804	32 629	116 682	125 563	243 736	4 234
337212	Custom architectural woodwork & millwork mfg	-	9	5	285	7 769	171	323	5 059	14 168	10 607	25 203	378
337214	Office furniture (except wood) mfg	9	9	7	896	13 434	416	776	9 358	34 952	41 526	76 803	1 959
337215	Showcase, partition, shelving, & locker mfg	-	31	15	1 096	29 031	801	1 385	15 178	59 234	66 726	126 694	1 580
3379	Other furniture related product mfg	1	15	8	429	11 061	316	617	7 122	37 953	30 741	68 886	1 723
339	Miscellaneous mfg	-	268	61	7 500	216 577	5 160	10 254	110 575	1 043 446	384 361	1 416 573	55 211
3391	Medical equipment & supplies mfg	-	111	22	3 287	103 363	2 040	4 460	46 362	763 517	146 798	905 373	11 221
33911	Medical equipment & supplies mfg	-	111	22	3 287	103 363	2 040	4 460	46 362	763 517	146 798	905 373	11 221
339112	Surgical & medical instrument mfg	-	19	7	g	D	D	D	D	D	D	D	2 471
339113	Surgical appliance & supplies mfg	-	21	12	1 643	48 746	992	1 893	20 309	148 299	94 259	242 121	8 258
3399	Other miscellaneous mfg ..	1	157	39	4 213	113 214	3 120	5 794	64 213	279 929	237 563	511 200	43 990
33992	Sporting & athletic goods mfg	1	41	10	948	20 349	744	1 334	11 630	66 336	45 085	107 595	6 998
339920	Sporting & athletic goods mfg	1	41	10	948	20 349	744	1 334	11 630	66 336	45 085	107 595	6 998
33993	Doll, toy, & game mfg ...	-	9	3	262	7 663	199	322	3 495	17 771	9 003	26 872	592
339932	Game, toy, & children's vehicle mfg	-	7	3	e	D	D	D	D	D	D	D	592
33994	Office supplies (except paper) mfg	1	11	3	269	7 256	137	218	2 523	16 291	13 365	29 410	195
33995	Sign mfg	1	40	8	537	13 928	357	619	7 577	22 241	13 671	35 906	846
339950	Sign mfg	1	40	8	537	13 928	357	619	7 577	22 241	13 671	35 906	846
33999	All other miscellaneous mfg	-	46	15	2 140	62 990	1 638	3 239	38 349	154 739	154 809	307 238	35 274
339991	Gasket, packing, & sealing device mfg ...	1	10	4	515	18 611	343	746	10 278	40 821	21 032	60 369	D
339992	Musical instrument mfg	-	5	2	e	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg	-	27	8	1 047	29 418	740	1 358	14 059	96 921	118 932	214 963	26 584
	Ventura, CA PMSA												
31-33	Manufacturing	1	1 008	321	33 562	1 136 298	22 137	45 077	555 545	3 352 437	2 860 860	6 163 377	232 091
311	Food mfg	5	61	20	1 357	29 206	1 151	1 857	22 092	104 347	112 164	216 465	11 519
3114	Fruit & vegetable preserving & specialty food mfg	6	10	7	573	15 920	477	890	11 826	63 049	77 962	139 969	4 521
31141	Frozen food mfg	7	6	4	421	11 756	363	647	9 020	46 654	64 560	112 233	3 874
311411	Frozen fruit, juice, & vegetable mfg	7	6	4	421	11 756	363	647	9 020	46 654	64 560	112 233	3 874
3118	Bakeries & tortilla mfg	1	31	5	324	7 008	279	536	5 682	20 809	10 417	30 145	D
31181	Bread & bakery product mfg	1	28	4	e	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Ventura, CA PMSA—Con.												
31-33	Manufacturing—Con.												
315	Apparel mfg	-	20	5	684	12 517	598	1 277	8 179	33 873	39 972	73 012	D
3152	Cut & sew apparel mfg ...	-	17	5	681	12 472	595	1 273	8 144	33 768	39 903	72 839	D
31522	Men's & boys' cut & sew apparel mfg	-	4	2	e	D	D	D	D	D	D	D	D
315225	Men's & boys' cut & sew work clothing mfg	-	1	1	e	D	D	D	D	D	D	D	D
322	Paper mfg	-	10	6	1 082	44 121	873	1 817	33 942	247 278	350 696	590 336	19 812
3221	Pulp, paper, & paperboard mills	-	2	2	e	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	8	4	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	5	3	e	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	-	4	2	e	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	-	2	1	e	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg	-	1	1	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	89	16	1 057	32 470	753	1 421	19 501	87 690	47 390	134 568	8 731
3231	Printing & related support activities	-	89	16	1 057	32 470	753	1 421	19 501	87 690	47 390	134 568	8 731
32311	Printing	-	83	16	1 031	31 562	745	1 410	19 332	85 915	46 979	132 380	8 712
323110	Commercial lithographic printing ..	-	35	7	440	15 580	293	596	9 287	42 577	23 729	66 062	5 507
325	Chemical mfg	2	33	14	1 607	67 392	560	1 099	19 744	165 473	87 211	247 132	18 536
3254	Pharmaceutical & medicine mfg	-	2	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	-	2	2	f	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) mfg	-	1	1	e	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg ..	1	12	4	636	22 517	179	280	3 999	72 085	34 063	105 208	5 411
32562	Toilet preparation mfg ...	1	9	4	630	22 385	174	274	3 924	71 560	33 615	104 226	5 384
325620	Toilet preparation mfg .	1	9	4	630	22 385	174	274	3 924	71 560	33 615	104 226	5 384
326	Plastics & rubber products mfg	1	55	30	2 529	74 519	1 961	4 078	40 467	180 618	103 897	282 457	7 720
3261	Plastics product mfg	1	52	29	g	D	D	D	D	D	D	D	7 631
32619	Other plastics product mfg	1	41	24	2 103	63 532	1 642	3 324	34 445	152 729	86 389	237 299	6 718
326199	All other plastics product mfg	-	39	23	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	28	15	1 124	31 866	831	1 768	20 467	74 852	78 907	155 439	5 343
3273	Cement & concrete product mfg	1	11	6	301	11 175	180	352	6 096	23 027	30 057	53 469	3 410
3279	Other nonmetallic mineral product mfg	-	9	7	f	D	D	D	D	D	D	D	1 844
32791	Abrasive product mfg ...	-	5	4	300	8 299	228	457	4 474	29 488	20 731	50 590	1 127
327910	Abrasive product mfg .	-	5	4	300	8 299	228	457	4 474	29 488	20 731	50 590	1 127
32799	All other nonmetallic mineral product mfg ...	-	4	3	e	D	D	D	D	D	D	D	717
327993	Mineral wool mfg	-	3	2	e	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	10	6	307	7 701	259	417	5 149	16 359	11 717	28 426	283
3315	Foundries	-	9	5	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	189	48	3 479	122 981	2 379	4 965	64 080	296 307	161 471	458 872	17 530
3322	Cutlery & handtool mfg ...	-	13	6	607	23 740	268	575	7 274	55 369	28 587	86 857	4 648
33221	Cutlery & handtool mfg ..	-	13	6	607	23 740	268	575	7 274	55 369	28 587	86 857	4 648
332212	Hand & edge tool mfg .	-	11	4	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	28	15	704	21 859	505	1 125	12 446	44 676	39 748	84 770	4 395
33232	Ornamental & architectural metal products mfg	-	20	11	585	18 177	430	983	10 644	38 169	30 276	68 696	4 113
332321	Metal window & door mfg	-	3	3	282	8 126	203	504	4 337	18 734	17 594	36 431	1 363
332322	Sheet metal work mfg .	1	14	7	269	9 384	201	426	5 923	17 686	11 279	29 111	2 701

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	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Ventura, CA PMSA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	100	10	952	34 123	731	1 441	19 951	66 789	23 971	90 571	4 943
33271	Machine shops	3	94	9	772	24 365	608	1 139	16 716	43 223	19 087	62 564	4 740
332710	Machine shops	3	94	9	772	24 365	608	1 139	16 716	43 223	19 087	62 564	4 740
3329	Other fabricated metal product mfg	—	17	6	564	20 141	409	874	11 652	59 375	16 977	75 901	1 214
33299	All other fabricated metal product mfg	—	13	5	394	13 600	293	620	7 838	38 730	12 203	51 118	858
333	Machinery mfg	1	95	31	3 704	138 777	2 279	4 575	64 752	381 706	337 698	722 764	19 887
3332	Industrial machinery mfg ..	—	20	6	815	27 361	473	957	11 122	54 464	51 204	108 655	5 992
33329	Other industrial machinery mfg	—	17	6	788	26 508	456	920	10 650	52 908	49 203	104 886	5 923
333293	Printing machinery & equipment mfg	—	2	1	e	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg	—	5	2	356	9 438	301	643	6 581	13 911	10 523	23 925	D
3333	Commercial & service industry machinery mfg ..	7	15	4	446	15 682	261	603	6 839	31 639	52 091	85 064	4 982
33331	Commercial & service industry machinery mfg	7	15	4	446	15 682	261	603	6 839	31 639	52 091	85 064	4 982
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	8	3	453	17 171	228	449	6 269	47 198	30 825	77 822	1 070
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	—	8	3	453	17 171	228	449	6 269	47 198	30 825	77 822	1 070
333414	Heating equipment (except warm air furnaces) mfg	—	2	1	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	—	21	5	798	37 359	593	1 231	21 047	143 625	135 225	279 299	1 469
33351	Metalworking machinery mfg	—	21	5	798	37 359	593	1 231	21 047	143 625	135 225	279 299	1 469
333512	Machine tool (metal cutting types) mfg ...	—	3	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	—	22	10	834	29 233	486	866	12 318	73 409	49 133	122 957	3 731
33399	All other general-purpose machinery mfg	—	17	7	661	23 595	371	669	9 650	60 773	36 647	98 083	3 382
333999	All other miscellaneous general-purpose machinery mfg	—	12	6	593	20 362	323	584	8 074	55 463	32 443	87 421	3 274
334	Computer & electronic product mfg	—	154	68	10 583	395 195	6 479	13 887	171 572	1 239 745	1 108 679	2 314 221	101 123
3341	Computer & peripheral equipment mfg	4	26	9	1 482	52 940	764	1 496	18 699	100 045	139 781	233 631	11 610
33411	Computer & peripheral equipment mfg	4	26	9	1 482	52 940	764	1 496	18 699	100 045	139 781	233 631	11 610
334119	Other computer peripheral equipment mfg	3	18	7	1 037	38 933	415	643	10 168	68 935	105 327	172 246	9 584
3342	Communications equipment mfg	—	27	15	1 476	69 160	639	1 247	19 455	106 485	117 638	226 363	8 977
33421	Telephone apparatus mfg	1	6	2	e	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg	1	6	2	e	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	17	11	1 029	41 168	513	984	14 407	60 111	56 585	118 170	5 292
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	17	11	1 029	41 168	513	984	14 407	60 111	56 585	118 170	5 292
3343	Audio & video equipment mfg	1	6	2	e	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg	1	6	2	e	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg	1	6	2	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Ventura, CA PMSA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg	1	63	27	4 280	159 924	2 485	5 329	63 892	387 247	316 294	709 441	53 386
33441	Semiconductor & other electronic component mfg	1	63	27	4 280	159 924	2 485	5 329	63 892	387 247	316 294	709 441	53 386
334413	Semiconductor & related device mfg ...	—	16	7	1 274	66 831	640	1 598	26 240	126 923	75 871	206 170	41 800
334418	Printed circuit assembly (electronic assembly) mfg	7	5	3	373	8 740	233	401	3 951	14 458	28 313	47 047	D
334419	Other electronic component mfg	—	26	9	1 858	56 741	1 034	2 156	17 650	167 948	183 904	350 536	6 559
3345	Navigational, measuring, medical, & control instruments mfg	—	28	11	1 213	54 747	668	1 497	20 922	322 197	337 431	625 434	8 002
33451	Navigational, measuring, medical, & control instruments mfg	—	28	11	1 213	54 747	668	1 497	20 922	322 197	337 431	625 434	8 002
334515	Electricity measuring & testing instrument mfg	—	4	2	e	D	D	D	D	D	D	D	D
334519	Other measuring & controlling device mfg	—	8	4	530	24 656	255	607	7 938	51 898	37 654	91 061	2 054
3346	Mfg & reproducing magnetic & optical media .	—	4	4	g	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media	—	4	4	g	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing	—	3	3	g	D	D	D	D	D	D	D	D
334613	Magnetic & optical recording media mfg .	—	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	2	29	15	1 445	49 939	859	1 904	18 983	123 955	105 598	225 673	3 415
3351	Electric lighting equipment mfg	—	9	5	659	18 299	403	883	6 355	55 780	46 655	100 029	478
33512	Lighting fixture mfg	—	8	5	f	D	D	D	D	D	D	D	478
335129	Other lighting equipment mfg	—	4	3	529	16 047	291	662	4 779	50 328	44 447	92 764	D
3353	Electrical equipment mfg ..	—	9	5	425	13 469	292	651	8 225	33 777	22 885	55 117	1 344
33531	Electrical equipment mfg	—	9	5	425	13 469	292	651	8 225	33 777	22 885	55 117	1 344
3359	Other electrical equipment & component mfg	7	11	5	361	18 171	164	370	4 403	34 398	36 058	70 527	1 593
33599	All other electrical equipment & component mfg	8	6	3	e	D	D	D	D	D	D	D	1 243
335999	All other miscellaneous electrical equipment & component mfg	8	6	3	e	D	D	D	D	D	D	D	1 243
336	Transportation equipment mfg	1	45	15	1 462	51 611	895	1 781	26 263	166 452	174 435	337 446	D
3363	Motor vehicle parts mfg ...	4	21	8	687	21 501	420	904	11 799	56 631	38 480	93 923	D
33639	Other motor vehicle parts mfg	5	4	3	262	6 807	179	315	4 443	21 991	7 584	30 247	D
336399	All other motor vehicle parts mfg	5	4	3	262	6 807	179	315	4 443	21 991	7 584	30 247	D
3364	Aerospace product & parts mfg	—	16	5	687	28 251	398	741	13 052	106 631	132 822	237 186	D
33641	Aerospace product & parts mfg	—	16	5	687	28 251	398	741	13 052	106 631	132 822	237 186	D
336411	Aircraft mfg	—	1	1	e	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	1	14	3	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	34	6	613	12 315	471	877	7 783	28 358	20 799	48 814	553
3371	Household & institutional furniture & kitchen cabinet mfg	—	28	5	564	10 724	431	798	6 800	25 755	19 090	44 500	478
33712	Household & institutional furniture mfg	—	14	4	474	8 130	360	664	5 334	22 503	16 527	38 725	143
337122	Nonupholstered wood household furniture mfg	—	7	1	307	4 639	279	506	3 538	11 455	8 763	20 313	68

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES—RIVERSIDE—ORANGE COUNTY, CA CMSA—Con.												
	Ventura, CA PMSA—Con.												
31-33	Manufacturing—Con.												
339	Miscellaneous mfg.....	1	115	22	2 103	56 764	1 438	2 666	26 149	186 133	89 652	277 902	7 510
3391	Medical equipment & supplies mfg.....	1	59	12	941	31 547	553	954	11 683	108 033	41 522	151 706	3 915
33911	Medical equipment & supplies mfg.....	1	59	12	941	31 547	553	954	11 683	108 033	41 522	151 706	3 915
339113	Surgical appliance & supplies mfg.....	—	13	4	498	17 242	283	449	5 543	76 368	25 581	103 779	2 427
3399	Other miscellaneous mfg ..	1	56	10	1 162	25 217	885	1 712	14 466	78 100	48 130	126 196	3 595
33992	Sporting & athletic goods mfg.....	1	15	2	473	9 290	396	832	6 352	17 519	16 760	34 185	1 274
339920	Sporting & athletic goods mfg.....	1	15	2	473	9 290	396	832	6 352	17 519	16 760	34 185	1 274
33999	All other miscellaneous mfg.....	1	15	4	322	8 815	239	485	4 895	45 284	19 075	64 467	1 501
	MERCED, CA MSA												
31-33	Manufacturing	1	123	51	8 381	198 183	6 660	13 568	146 654	665 306	1 869 859	2 431 480	73 832
311	Food mfg.....	1	28	15	4 600	101 367	3 904	8 118	81 784	391 099	1 229 652	1 609 603	52 110
3114	Fruit & vegetable preserving & specialty food mfg.....	3	6	5	1 779	42 893	1 482	3 297	33 949	166 479	248 887	411 723	D
31141	Frozen food mfg.....	9	1	1	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg.....	9	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying.....	3	5	4	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning.....	3	4	3	f	D	D	D	D	D	D	D	7 019
3115	Dairy product mfg.....	—	6	5	707	22 121	547	1 220	18 415	114 983	654 409	763 641	22 187
31151	Dairy product (except frozen) mfg.....	—	6	5	707	22 121	547	1 220	18 415	114 983	654 409	763 641	22 187
311513	Cheese mfg.....	—	3	3	e	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	—	5	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	—	5	3	g	D	D	D	D	D	D	D	D
311615	Poultry processing.....	—	1	1	g	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg.....	3	3	3	519	12 040	264	449	6 296	41 672	385 885	343 914	D
3121	Beverage mfg.....	3	3	3	519	12 040	264	449	6 296	41 672	385 885	343 914	D
31211	Soft drink & ice mfg.....	9	2	2	e	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	—	9	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	—	9	2	f	D	D	D	D	D	D	D	D
32311	Printing.....	—	9	2	f	D	D	D	D	D	D	D	D
323112	Commercial flexographic printing ..	—	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	—	17	8	798	18 799	540	1 040	11 457	59 132	29 649	86 866	1 685
3323	Architectural & structural metals mfg.....	—	5	4	508	10 595	291	587	4 980	17 511	17 151	33 059	923
33232	Ornamental & architectural metal products mfg.....	—	3	3	e	D	D	D	D	D	D	D	D
332321	Metal window & door mfg.....	—	2	2	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	1	13	8	476	13 643	404	718	9 605	29 703	41 743	69 994	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MODESTO, CA MSA													
31-33	Manufacturing	1	435	163	25 056	823 113	18 871	38 437	524 340	3 081 137	3 829 750	6 886 621	170 399
311	Food mfg	1	74	46	11 227	346 263	9 449	19 779	257 424	1 661 747	2 009 195	3 682 675	93 364
3111	Animal food mfg	—	13	7	422	16 258	254	609	7 696	43 511	364 378	408 137	5 377
31111	Animal food mfg	—	13	7	422	16 258	254	609	7 696	43 511	364 378	408 137	5 377
311119	Other animal food mfg	—	13	7	422	16 258	254	609	7 696	43 511	364 378	408 137	5 377
3113	Sugar & confectionery product mfg	3	3	2	g	D	D	D	D	D	D	D	D
31132	Chocolate & confectionery mfg from cacao beans	3	2	2	g	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans	3	2	2	g	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	—	13	11	4 882	157 948	4 312	8 808	121 798	659 896	542 032	1 214 057	25 948
31141	Frozen food mfg	—	2	1	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg	—	2	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	—	11	10	h	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	—	6	6	3 240	110 108	2 951	6 450	92 815	566 792	405 924	978 982	22 510
311423	Dried & dehydrated food mfg	—	3	3	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg	1	15	10	862	32 545	682	1 506	23 842	88 570	422 296	508 319	8 437
31151	Dairy product (except frozen) mfg	1	12	9	f	D	D	D	D	D	D	D	D
311514	Dry, condensed, & evaporated dairy product mfg	—	2	2	e	D	D	D	D	D	D	D	D
3116	Meat product mfg	1	12	9	2 589	54 614	2 310	4 764	45 174	319 533	241 935	562 242	6 593
31161	Animal slaughtering & processing	1	12	9	2 589	54 614	2 310	4 764	45 174	319 533	241 935	562 242	6 593
311615	Poultry processing	—	4	4	2 293	45 678	2 074	4 228	39 294	299 308	177 489	477 501	5 646
3119	Other food mfg	—	9	5	1 065	32 452	776	1 696	20 515	198 412	185 027	391 815	18 857
31191	Snack food mfg	—	4	4	1 008	31 181	734	1 629	19 724	193 592	178 600	380 568	D
311911	Roasted nuts & peanut butter mfg	—	2	2	e	D	D	D	D	D	D	D	D
311919	Other snack food mfg	—	2	2	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	—	5	5	h	D	D	D	D	D	D	D	3 023
3121	Beverage mfg	—	5	5	h	D	D	D	D	D	D	D	3 023
31213	Wineries	—	2	2	h	D	D	D	D	D	D	D	D
312130	Wineries	—	2	2	h	D	D	D	D	D	D	D	D
321	Wood product mfg	3	29	16	1 299	30 283	1 081	2 005	21 423	87 938	133 386	220 478	4 517
3219	Other wood product mfg	3	21	12	1 062	24 809	896	1 647	17 751	74 084	108 806	181 999	3 549
32192	Wood container & pallet mfg	—	11	5	271	5 668	237	483	3 927	24 188	27 448	51 155	D
321920	Wood container & pallet mfg	—	11	5	271	5 668	237	483	3 927	24 188	27 448	51 155	D
32199	All other wood product mfg	4	7	4	699	17 627	583	1 068	12 753	46 791	74 860	121 329	2 738
321991	Manufactured home (mobile home) mfg	4	2	2	e	D	D	D	D	D	D	D	D
321992	Prefabricated wood building mfg	9	3	1	e	D	D	D	D	D	D	D	D
322	Paper mfg	—	8	8	1 324	57 691	1 085	2 396	44 788	257 886	306 812	574 333	17 847
3222	Converted paper product mfg	—	8	8	1 324	57 691	1 085	2 396	44 788	257 886	306 812	574 333	17 847
32221	Paperboard container mfg	—	5	5	f	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	—	4	4	735	34 546	568	1 383	25 837	56 370	152 766	212 318	D
32229	Other converted paper product mfg	—	2	2	e	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg	—	1	1	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	5	31	6	483	13 557	363	660	9 478	37 018	18 246	55 089	2 360
3231	Printing & related support activities	5	31	6	483	13 557	363	660	9 478	37 018	18 246	55 089	2 360
32311	Printing	5	30	5	e	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	—	17	4	251	7 042	181	344	4 614	15 721	8 909	24 687	1 375
326	Plastics & rubber products mfg	2	20	7	502	13 551	379	815	8 818	55 298	41 543	97 184	5 297
3261	Plastics product mfg	1	14	6	355	10 408	277	596	6 859	47 458	34 025	81 716	D

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31-33	MODESTO, CA MSA— Con. Manufacturing— Con.												
327	Nonmetallic mineral product mfg	—	17	5	1 103	38 078	926	1 967	31 447	75 471	88 509	161 987	5 478
3272	Glass & glass product mfg	—	3	2	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	—	3	2	f	D	D	D	D	D	D	D	D
327213	Glass container mfg	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	86	29	2 485	84 604	1 909	3 628	59 136	181 405	319 600	499 393	15 025
3323	Architectural & structural metals mfg	—	26	15	958	29 082	675	1 277	17 079	61 018	72 290	133 138	2 437
33231	Plate work & fabricated structural product mfg	1	8	4	368	11 332	259	419	6 565	28 768	37 362	66 388	523
332312	Fabricated structural metal mfg	1	6	2	e	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	—	18	11	590	17 750	416	858	10 514	32 250	34 928	66 750	1 914
332321	Metal window & door mfg	—	5	5	e	D	D	D	D	D	D	D	1 335
332322	Sheet metal work mfg	—	11	5	285	9 328	212	425	6 095	16 686	15 455	32 157	D
3324	Boiler, tank, & shipping container mfg	—	8	6	854	33 718	705	1 385	28 727	70 188	215 571	284 412	D
33243	Metal can, box, & other metal container (light gauge) mfg	—	7	6	f	D	D	D	D	D	D	D	D
332431	Metal can mfg	—	6	6	f	D	D	D	D	D	D	D	9 204
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	34	2	e	D	D	D	D	D	D	D	D
33271	Machine shops	1	30	2	267	7 647	217	356	5 326	14 379	5 785	20 203	651
332710	Machine shops	1	30	2	267	7 647	217	356	5 326	14 379	5 785	20 203	651
333	Machinery mfg	2	46	13	1 022	30 716	672	1 108	17 713	65 483	80 000	144 404	5 684
3339	Other general-purpose machinery mfg	1	18	4	439	13 017	262	451	7 347	32 246	31 346	62 942	1 536
33399	All other general-purpose machinery mfg	—	12	3	345	9 539	192	328	4 970	25 334	24 334	48 859	1 253
334	Computer & electronic product mfg	8	11	4	251	8 155	177	374	4 926	18 779	12 601	31 670	3 180
336	Transportation equipment mfg	1	10	8	840	24 491	549	1 260	13 745	57 480	45 145	101 709	4 912
3362	Motor vehicle body & trailer mfg	2	6	5	328	8 306	267	441	5 571	16 452	21 653	37 667	D
33621	Motor vehicle body & trailer mfg	2	6	5	328	8 306	267	441	5 571	16 452	21 653	37 667	D
3363	Motor vehicle parts mfg	1	4	3	512	16 185	282	819	8 174	41 028	23 492	64 042	D
33639	Other motor vehicle parts mfg	—	2	2	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	—	2	2	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	26	6	533	11 498	426	841	7 796	22 336	18 653	40 710	1 960
3371	Household & institutional furniture & kitchen cabinet mfg	3	21	5	490	10 167	396	778	7 024	18 501	17 337	35 530	D
33712	Household & institutional furniture mfg	—	8	3	259	5 328	205	353	3 594	10 396	9 670	19 851	D
339	Miscellaneous mfg	1	40	4	363	9 201	267	452	5 611	18 579	13 276	31 863	741
	REDDING, CA MSA												
31-33	Manufacturing	1	177	32	3 526	118 739	2 549	4 955	79 515	261 675	375 777	635 027	20 828
321	Wood product mfg	1	23	11	1 066	33 992	891	1 952	26 816	97 394	195 017	290 602	7 589
3211	Sawmills & wood preservation	1	9	6	697	27 440	572	1 286	21 776	82 312	158 767	238 459	6 921
32111	Sawmills & wood preservation	1	9	6	697	27 440	572	1 286	21 776	82 312	158 767	238 459	6 921
321113	Sawmills	1	9	6	697	27 440	572	1 286	21 776	82 312	158 767	238 459	6 921
3219	Other wood product mfg	2	12	4	e	D	D	D	D	D	D	D	D
32191	Millwork	2	5	4	283	4 482	255	550	3 654	11 011	31 587	43 323	D
322	Paper mfg	—	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	—	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	—	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	REDDING, CA MSA— Con. Manufacturing— Con.												
327	Nonmetallic mineral product mfg	-	10	5	288	11 082	218	438	8 195	39 585	19 548	59 811	3 361
3273	Cement & concrete product mfg	-	8	5	e	D	D	D	D	D	D	D	D
31-33	SACRAMENTO-YOLO, CA CMSA Manufacturing	-	1 489	363	47 690	1 688 680	29 516	57 293	756 920	7 670 386	6 985 287	14 550 771	415 020
311	Food mfg	-	114	35	6 663	228 663	4 620	9 038	135 200	1 153 489	1 055 553	2 232 463	54 840
312	Beverage & tobacco product mfg	-	23	13	g	D	D	D	D	D	D	D	D
314	Textile product mills	2	30	4	e	D	D	D	D	D	D	D	D
315	Apparel mfg	4	34	2	e	D	D	D	D	D	D	D	D
321	Wood product mfg	1	75	39	3 505	94 310	2 891	5 922	69 280	255 711	382 268	637 938	15 589
322	Paper mfg	-	18	10	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	2	230	30	2 958	80 288	2 187	4 033	51 862	196 866	126 504	323 373	19 640
325	Chemical mfg	1	40	12	1 104	47 061	582	1 136	18 107	246 483	379 821	608 056	16 501
326	Plastics & rubber products mfg	-	65	21	1 699	49 468	1 305	2 501	32 680	122 901	155 487	276 666	D
327	Nonmetallic mineral product mfg	1	68	23	1 214	41 540	828	1 632	26 421	99 593	76 612	177 494	9 044
332	Fabricated metal product mfg	1	223	46	3 317	105 836	2 460	4 840	68 270	241 958	293 348	531 102	11 648
333	Machinery mfg	1	79	22	2 165	71 521	1 353	2 705	36 681	159 668	208 785	357 767	28 392
334	Computer & electronic product mfg	-	91	35	14 548	619 321	7 081	13 984	164 842	4 320 698	3 624 695	7 962 158	D
335	Electrical equipment, appliance, & component mfg	-	16	6	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	74	20	3 193	156 917	1 558	3 019	46 705	329 396	240 650	453 519	D
337	Furniture & related product mfg	3	113	21	1 633	38 687	1 342	2 181	26 737	71 727	63 700	135 416	D
339	Miscellaneous mfg	2	162	23	1 709	51 176	1 162	2 081	25 038	99 327	73 396	172 650	D
31-33	Sacramento, CA PMSA Manufacturing	-	1 314	310	41 512	1 476 703	25 302	48 766	640 492	7 038 386	6 079 128	13 035 853	363 013
311	Food mfg	-	93	22	4 951	171 090	3 197	6 161	92 912	1 012 159	617 913	1 630 942	30 902
3114	Fruit & vegetable preserving & specialty food mfg	-	5	2	g	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	-	3	2	g	D	D	D	D	D	D	D	D
311422	Specialty canning	-	1	1	g	D	D	D	D	D	D	D	D
3115	Dairy product mfg	2	7	4	f	D	D	D	D	D	D	D	1 530
31151	Dairy product (except frozen) mfg	2	5	3	e	D	D	D	D	D	D	D	D
311511	Fluid milk mfg	2	4	3	e	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	50	11	1 812	64 835	751	1 333	18 149	138 096	69 774	208 192	5 305
31181	Bread & bakery product mfg	-	45	7	1 541	58 993	595	1 051	16 386	122 088	63 318	185 737	4 336
311812	Commercial bakeries	-	11	6	1 354	56 960	482	921	15 341	117 131	60 273	177 726	4 075
3119	Other food mfg	-	8	2	g	D	D	D	D	D	D	D	D
31191	Snack food mfg	-	1	1	g	D	D	D	D	D	D	D	D
311911	Roasted nuts & peanut butter mfg	-	1	1	g	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	-	21	12	1 512	30 733	375	694	8 611	150 504	106 799	259 537	10 048
3121	Beverage mfg	-	21	12	1 512	30 733	375	694	8 611	150 504	106 799	259 537	10 048
31211	Soft drink & ice mfg	-	8	7	1 324	28 112	311	607	7 574	137 650	99 032	239 255	7 293
312111	Soft drink mfg	-	4	4	1 213	24 693	260	509	6 416	128 849	95 106	225 564	D

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31-33	SACRAMENTO-YOLO, CA CMSA—Con. Sacramento, CA PMSA—Con. Manufacturing—Con.												
314	Textile product mills.....	2	26	4	331	6 378	241	435	3 723	14 944	12 915	26 738	513
315	Apparel mfg	3	31	2	261	3 396	228	345	2 187	8 865	2 228	11 070	D
321	Wood product mfg	1	59	34	2 667	70 510	2 174	4 531	53 132	196 155	320 782	516 997	14 693
3211	Sawmills & wood preservation	-	4	3	f	D	D	D	D	D	D	D	D
32111	Sawmills & wood preservation	-	4	3	f	D	D	D	D	D	D	D	D
321113	Sawmills	-	4	3	f	D	D	D	D	D	D	D	D
3212	Veneer, plywood, & engineered wood product mfg	-	10	9	e	D	D	D	D	D	D	D	3 922
32121	Veneer, plywood, & engineered wood product mfg	-	10	9	e	D	D	D	D	D	D	D	3 922
321219	Reconstituted wood product mfg	-	3	3	325	12 069	297	642	8 575	27 215	32 016	60 420	3 536
3219	Other wood product mfg ...	2	45	22	1 649	33 958	1 284	2 550	24 872	98 924	164 590	255 413	D
32191	Millwork	-	30	13	1 025	21 496	835	1 586	15 320	58 963	111 109	162 941	2 115
321911	Wood window & door mfg	1	13	5	375	8 200	315	651	6 184	22 966	32 660	55 609	976
321918	Other millwork (including flooring) ...	-	13	6	572	11 368	468	849	8 170	30 820	69 843	93 514	D
32199	All other wood product mfg	5	11	6	532	10 752	372	816	8 351	36 156	48 062	83 390	D
321992	Prefabricated wood building mfg	5	5	4	444	9 568	300	701	7 377	31 642	37 971	70 152	D
322	Paper mfg	-	14	9	588	20 942	463	965	14 296	65 236	63 115	130 800	7 351
3222	Converted paper product mfg	-	14	9	588	20 942	463	965	14 296	65 236	63 115	130 800	7 351
32221	Paperboard container mfg	-	6	5	406	15 199	306	640	9 800	30 575	42 260	75 021	6 238
322211	Corrugated & solid fiber box mfg	-	4	3	e	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	3	209	29	2 534	69 313	1 837	3 382	43 995	167 625	91 983	259 230	14 887
3231	Printing & related support activities.....	3	209	29	2 534	69 313	1 837	3 382	43 995	167 625	91 983	259 230	14 887
32311	Printing	3	186	28	2 378	64 934	1 722	3 184	41 048	157 536	89 602	246 757	14 434
323110	Commercial lithographic printing ..	3	80	19	1 501	42 701	1 078	1 958	26 939	109 489	56 947	166 263	11 534
323114	Quick printing	3	64	3	331	8 176	240	371	4 979	19 292	8 229	27 492	1 139
325	Chemical mfg	-	28	7	443	16 849	296	533	10 785	114 017	273 662	371 474	7 188
326	Plastics & rubber products mfg	-	57	19	1 561	45 541	1 221	2 301	30 880	112 385	146 379	258 042	8 443
3261	Plastics product mfg	-	49	17	1 444	42 602	1 142	2 141	28 835	98 036	137 523	234 639	7 688
32613	Laminated plastics plate, sheet, & shape mfg	-	2	1	e	D	D	D	D	D	D	D	D
326130	Laminated plastics plate, sheet, & shape mfg	-	2	1	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	30	12	643	16 146	496	827	9 052	36 472	41 638	77 737	1 517
326199	All other plastics product mfg	1	25	11	591	14 551	465	767	8 332	33 412	39 808	72 874	D
327	Nonmetallic mineral product mfg	1	61	20	936	32 158	656	1 272	21 143	71 986	62 207	135 846	8 367
3273	Cement & concrete product mfg	1	39	15	633	22 631	438	841	15 068	44 838	52 169	97 967	4 965
32732	Ready-mix concrete mfg	-	26	11	442	17 393	313	604	11 319	33 295	43 497	78 855	4 741
327320	Ready-mix concrete mfg	-	26	11	442	17 393	313	604	11 319	33 295	43 497	78 855	4 741
332	Fabricated metal product mfg	1	200	39	2 794	86 149	2 159	4 194	59 081	186 518	225 342	408 328	10 905
3323	Architectural & structural metals mfg	1	55	18	1 178	33 752	878	1 836	21 774	66 730	67 712	134 586	2 799
33232	Ornamental & architectural metal products mfg	1	39	14	929	26 802	703	1 487	17 713	49 749	50 874	100 973	1 868
332321	Metal window & door mfg	-	7	5	441	13 501	341	757	8 597	18 244	25 103	43 455	474
332322	Sheet metal work mfg	2	26	9	451	12 588	336	684	8 653	30 202	24 983	55 424	1 346
3324	Boiler, tank, & shipping container mfg	-	5	2	e	D	D	D	D	D	D	D	D
33243	Metal can, box, & other metal container (light gauge) mfg	-	5	2	e	D	D	D	D	D	D	D	D
332431	Metal can mfg	-	2	2	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SACRAMENTO-YOLO, CA CMSA—Con.												
	Sacramento, CA PMSA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	84	12	892	27 525	716	1 322	19 114	55 570	23 984	79 247	4 806
33271	Machine shops	1	74	9	718	21 229	567	998	14 425	44 422	19 640	63 927	4 172
332710	Machine shops	1	74	9	718	21 229	567	998	14 425	44 422	19 640	63 927	4 172
333	Machinery mfg	1	69	18	1 877	59 938	1 200	2 399	31 590	137 678	180 656	309 695	26 882
3333	Commercial & service industry machinery mfg ..	1	19	4	527	22 197	365	755	11 594	42 832	20 780	63 299	2 412
33331	Commercial & service industry machinery mfg	1	19	4	527	22 197	365	755	11 594	42 832	20 780	63 299	2 412
333314	Optical instrument & lens mfg	1	7	1	361	16 762	260	533	9 122	32 648	12 135	44 312	2 132
3335	Metalworking machinery mfg	—	10	5	281	8 894	191	382	4 844	23 075	7 543	30 209	2 113
33351	Metalworking machinery mfg	—	10	5	281	8 894	191	382	4 844	23 075	7 543	30 209	2 113
3339	Other general-purpose machinery mfg	—	19	4	648	17 540	340	738	8 093	44 688	122 744	158 883	D
33392	Material handling equipment mfg	—	2	1	e	D	D	D	D	D	D	D	D
333922	Conveyor & conveying equipment mfg	—	2	1	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	86	32	14 385	611 532	7 013	13 841	162 744	4 304 738	3 615 202	7 936 682	207 984
3341	Computer & peripheral equipment mfg	—	18	8	9 970	424 702	4 455	8 933	87 665	3 704 123	3 270 821	7 000 157	62 924
33411	Computer & peripheral equipment mfg	—	18	8	9 970	424 702	4 455	8 933	87 665	3 704 123	3 270 821	7 000 157	62 924
334111	Electronic computer mfg	—	9	5	9 668	412 622	4 326	8 705	83 982	3 672 184	3 208 162	6 901 138	60 089
3342	Communications equipment mfg	1	12	5	679	28 084	457	980	19 119	54 915	27 938	84 295	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	9	5	666	27 485	450	967	18 955	53 568	26 687	81 667	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	9	5	666	27 485	450	967	18 955	53 568	26 687	81 667	D
3344	Semiconductor & other electronic component mfg	—	22	11	2 932	131 519	1 701	3 218	46 709	485 137	270 047	742 986	D
33441	Semiconductor & other electronic component mfg	—	22	11	2 932	131 519	1 701	3 218	46 709	485 137	270 047	742 986	D
334413	Semiconductor & related device mfg ..	—	4	3	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	2	22	5	588	22 663	241	440	6 625	49 530	27 442	79 229	D
33451	Navigational, measuring, medical, & control instruments mfg	2	22	5	588	22 663	241	440	6 625	49 530	27 442	79 229	D
335	Electrical equipment, appliance, & component mfg	—	15	5	623	21 778	460	972	13 762	54 635	44 315	97 931	D
3353	Electrical equipment mfg ..	—	9	3	474	16 350	338	708	9 699	33 638	25 799	58 468	298
33531	Electrical equipment mfg	—	9	3	474	16 350	338	708	9 699	33 638	25 799	58 468	298
335314	Relay & industrial control mfg	—	7	3	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	59	15	2 638	136 780	1 210	2 321	36 559	261 029	157 739	344 926	3 646
3363	Motor vehicle parts mfg ...	3	26	7	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	4	8	3	e	D	D	D	D	D	D	D	672
336322	Other motor vehicle electrical & electronic equipment mfg	4	7	3	e	D	D	D	D	D	D	D	D

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	SACRAMENTO-YOLO, CA CMSA—Con.													
	Sacramento, CA PMSA—Con.													
31-33	Manufacturing—Con.													
336	Transportation equipment mfg—Con.													
3364	Aerospace product & parts mfg	-	11	4	g	D	D	D	D	D	D	D	D	
33641	Aerospace product & parts mfg	-	11	4	g	D	D	D	D	D	D	D	D	
336415	Guided missile & space vehicle propulsion unit & parts mfg	-	1	1	g	D	D	D	D	D	D	D	D	
337	Furniture & related product mfg	3	105	20		1 553	36 573	1 275	2 067	25 367	68 141	61 870	130 006	3 867
3371	Household & institutional furniture & kitchen cabinet mfg	3	78	13		986	20 082	844	1 302	14 156	38 180	33 421	71 772	2 099
33711	Wood kitchen cabinet & counter top mfg	4	57	6		496	11 182	423	683	7 838	17 769	16 973	34 878	1 291
337110	Wood kitchen cabinet & counter top mfg ...	4	57	6		496	11 182	423	683	7 838	17 769	16 973	34 878	1 291
33712	Household & institutional furniture mfg	1	21	7		490	8 900	421	619	6 318	20 411	16 448	36 894	808
337122	Nonupholstered wood household furniture mfg	-	14	6		436	7 840	373	530	5 462	18 535	14 451	33 019	715
3372	Office furniture (including fixtures) mfg	-	20	5		366	12 123	286	485	8 569	20 449	17 135	37 581	1 410
33721	Office furniture (including fixtures) mfg	-	20	5		366	12 123	286	485	8 569	20 449	17 135	37 581	1 410
339	Miscellaneous mfg	2	149	22		1 628	49 287	1 106	1 997	24 014	95 127	71 441	166 490	4 261
3391	Medical equipment & supplies mfg	2	83	12		925	28 982	615	1 019	13 988	54 147	40 872	95 479	2 434
33911	Medical equipment & supplies mfg	2	83	12		925	28 982	615	1 019	13 988	54 147	40 872	95 479	2 434
339112	Surgical & medical instrument mfg	-	5	4		279	12 034	162	295	4 426	17 104	23 851	40 784	1 151
339116	Dental laboratories	6	55	2		303	7 053	214	320	4 202	16 240	5 941	22 383	456
3399	Other miscellaneous mfg ..	2	66	10		703	20 305	491	978	10 026	40 980	30 569	71 011	1 827
33995	Sign mfg	3	25	5		276	9 536	164	332	3 902	15 847	7 837	23 621	674
339950	Sign mfg	3	25	5		276	9 536	164	332	3 902	15 847	7 837	23 621	674
33999	All other miscellaneous mfg	-	18	3		304	7 674	240	496	4 607	17 267	13 886	30 642	615
	Yolo, CA PMSA													
31-33	Manufacturing	1	175	53		6 178	211 977	4 214	8 527	116 428	632 000	906 159	1 514 918	52 007
311	Food mfg	1	21	13		1 712	57 573	1 423	2 877	42 288	141 330	437 640	601 521	23 938
3112	Grain & oilseed milling	-	5	5		599	23 382	460	979	16 645	99 240	235 883	346 958	10 774
31121	Flour milling & malt mfg .	-	5	5		599	23 382	460	979	16 645	99 240	235 883	346 958	10 774
311212	Rice milling	-	5	5		599	23 382	460	979	16 645	99 240	235 883	346 958	10 774
3114	Fruit & vegetable preserving & specialty food mfg	2	3	3	e	D	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	2	3	3	e	D	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	2	2	2	e	D	D	D	D	D	D	D	D	D
3119	Other food mfg	9	8	3		400	8 926	326	515	6 046	31 828	34 604	66 524	2 193
31191	Snack food mfg	9	3	2		329	7 029	272	413	4 851	24 436	25 051	49 578	D
311911	Roasted nuts & peanut butter mfg	9	3	2		329	7 029	272	413	4 851	24 436	25 051	49 578	D
321	Wood product mfg	-	16	5		838	23 800	717	1 391	16 148	59 556	61 486	120 941	896
3219	Other wood product mfg ...	-	12	4		789	22 418	678	1 303	15 079	54 647	58 883	113 423	549
32199	All other wood product mfg	-	6	3		703	20 299	612	1 187	14 044	46 985	53 689	100 788	452
321991	Manufactured home (mobile home) mfg ..	-	3	3		681	19 893	592	1 149	13 739	45 548	52 821	98 472	D
323	Printing & related support activities	-	21	1		424	10 975	350	651	7 867	29 241	34 521	64 143	4 753
3231	Printing & related support activities	-	21	1		424	10 975	350	651	7 867	29 241	34 521	64 143	4 753
32311	Printing	-	19	1	e	D	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	11	1		378	10 143	318	613	7 343	27 888	32 351	60 621	4 412

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SACRAMENTO-YOLO, CA CMSA—Con.												
	Yolo, CA PMSA—Con.												
31-33	Manufacturing—Con.												
325	Chemical mfg	2	12	5	661	30 212	286	603	7 322	132 466	106 159	236 582	9 313
3254	Pharmaceutical & medicine mfg	—	7	2	503	22 712	228	459	5 626	105 530	62 684	166 351	8 483
32541	Pharmaceutical & medicine mfg	—	7	2	503	22 712	228	459	5 626	105 530	62 684	166 351	8 483
325413	In-vitro diagnostic substance mfg	—	3	1	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	7	3	278	9 382	172	360	5 278	27 607	14 405	41 648	677
3273	Cement & concrete product mfg	—	4	3	254	8 721	153	322	4 824	26 404	13 398	39 430	D
332	Fabricated metal product mfg	—	23	7	523	19 687	301	646	9 189	55 440	68 006	122 774	743
333	Machinery mfg	—	10	4	288	11 583	153	306	5 091	21 990	28 129	48 072	1 510
336	Transportation equipment mfg	—	15	5	555	20 137	348	698	10 146	68 367	82 911	108 593	D
3365	Railroad rolling stock mfg ..	—	1	1	e	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	—	1	1	e	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	—	1	1	e	D	D	D	D	D	D	D	D
	SALINAS, CA MSA												
31-33	Manufacturing	3	302	67	7 070	223 735	5 110	9 720	132 527	698 433	654 291	1 329 405	64 562
311	Food mfg	3	65	15	2 619	69 819	2 104	4 030	48 704	334 795	300 040	635 846	26 339
3114	Fruit & vegetable preserving & specialty food mfg	5	9	5	1 286	36 911	1 084	2 266	27 461	121 296	145 739	269 235	21 620
31141	Frozen food mfg	9	2	1	e	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg	9	1	1	e	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	3	7	4	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	9	5	2	e	D	D	D	D	D	D	D	D
311423	Dried & dehydrated food mfg	—	2	2	f	D	D	D	D	D	D	D	D
3117	Seafood product preparation & packaging ..	8	6	2	330	6 014	283	387	4 136	15 745	35 916	51 661	963
31171	Seafood product preparation & packaging	8	6	2	330	6 014	283	387	4 136	15 745	35 916	51 661	963
311712	Fresh & frozen seafood processing ..	8	6	2	330	6 014	283	387	4 136	15 745	35 916	51 661	963
3119	Other food mfg	—	8	6	745	21 970	575	1 114	14 567	184 185	101 821	284 702	2 557
31194	Seasoning & dressing mfg	—	2	2	e	D	D	D	D	D	D	D	D
311942	Spice & extract mfg	—	2	2	e	D	D	D	D	D	D	D	D
31199	All other food mfg	1	5	3	e	D	D	D	D	D	D	D	1 847
312	Beverage & tobacco product mfg	2	15	4	327	14 585	236	421	10 001	74 952	31 424	80 201	13 319
3121	Beverage mfg	2	15	4	327	14 585	236	421	10 001	74 952	31 424	80 201	13 319
31213	Wineries	2	13	3	e	D	D	D	D	D	D	D	D
312130	Wineries	2	13	3	e	D	D	D	D	D	D	D	D
315	Apparel mfg	9	5	1	e	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg	9	2	1	e	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	9	2	1	e	D	D	D	D	D	D	D	D
315993	Men's & boys' neckwear mfg	9	2	1	e	D	D	D	D	D	D	D	D
322	Paper mfg	—	3	3	370	16 412	302	653	11 822	33 167	90 781	124 561	D
3222	Converted paper product mfg	—	3	3	370	16 412	302	653	11 822	33 167	90 781	124 561	D
32221	Paperboard container mfg	—	2	2	e	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	—	2	2	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	29	3	281	8 100	206	401	4 853	16 064	9 669	25 507	2 053
3231	Printing & related support activities	1	29	3	281	8 100	206	401	4 853	16 064	9 669	25 507	2 053
32311	Printing	1	27	3	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SALINAS, CA MSA—Con.													
31-33	Manufacturing—Con.												
327	Nonmetallic mineral product mfg	1	20	5	308	10 846	235	478	8 221	28 222	28 183	56 271	1 681
332	Fabricated metal product mfg	2	34	5	305	8 058	234	378	4 778	17 865	7 202	25 239	896
333	Machinery mfg	—	20	4	479	15 436	281	560	7 154	25 343	31 694	58 537	2 182
3339	Other general-purpose machinery mfg	—	5	2	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	5	20	9	1 088	44 619	511	1 015	13 686	71 789	41 262	113 503	11 645
3344	Semiconductor & other electronic component mfg	9	5	3	562	23 341	277	542	7 327	46 208	13 391	59 990	D
33441	Semiconductor & other electronic component mfg	9	5	3	562	23 341	277	542	7 327	46 208	13 391	59 990	D
334413	Semiconductor & related device mfg ...	9	1	1	e	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	—	8	5	466	19 304	210	434	5 739	23 011	26 464	49 429	D
33451	Navigational, measuring, medical, & control instruments mfg	—	8	5	466	19 304	210	434	5 739	23 011	26 464	49 429	D
334513	Industrial process control instrument mfg	—	3	2	e	D	D	D	D	D	D	D	D
SAN DIEGO, CA MSA													
31-33	Manufacturing	1	3 407	953	118 868	4 223 506	73 111	144 405	1 868 764	10 999 196	11 403 094	22 233 599	919 402
311	Food mfg	2	191	45	4 279	110 975	2 871	5 324	59 828	290 947	264 102	567 504	30 184
3114	Fruit & vegetable preserving & specialty food mfg	—	7	5	1 001	20 461	833	1 537	12 084	62 526	64 872	127 435	D
31141	Frozen food mfg	—	5	3	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	—	4	3	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg	—	6	3	288	9 020	98	189	3 198	16 308	40 222	56 609	1 459
31151	Dairy product (except frozen) mfg	—	4	3	e	D	D	D	D	D	D	D	D
311511	Fluid milk mfg	—	2	2	e	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	4	134	28	2 028	43 866	1 283	2 267	24 421	106 185	66 161	172 181	6 234
31181	Bread & bakery product mfg	4	117	23	1 715	38 642	1 052	1 871	20 566	93 048	56 516	149 361	5 536
311811	Retail bakeries	4	78	5	e	D	D	D	D	D	D	D	731
311812	Commercial bakeries ..	5	35	16	1 034	26 491	586	1 136	13 527	63 889	35 688	99 595	4 311
3119	Other food mfg	1	25	6	757	31 984	497	1 066	16 332	71 513	45 795	129 372	6 668
31199	All other food mfg	1	17	4	682	30 829	449	1 013	15 676	65 329	40 622	117 987	6 465
311999	All other miscellaneous food mfg	—	10	2	517	26 611	311	772	13 036	57 113	26 409	95 691	D
312	Beverage & tobacco product mfg	3	22	7	822	23 646	344	673	9 487	97 101	142 207	237 852	5 052
3121	Beverage mfg	3	21	7	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	3	10	5	731	21 024	289	594	7 940	90 315	136 392	225 360	4 369
312111	Soft drink mfg	3	3	2	f	D	D	D	D	D	D	D	D
314	Textile product mills	3	99	16	1 219	23 075	973	1 633	13 806	51 044	39 986	90 902	1 809
3149	Other textile product mills...	2	67	13	986	19 339	769	1 295	11 118	42 732	31 774	74 239	1 552
31491	Textile bag & canvas mills	1	32	5	385	8 023	307	516	4 461	16 250	13 593	29 807	524
31499	All other textile product mills	3	35	8	601	11 316	462	779	6 657	26 482	18 181	44 432	1 028
314999	All other miscellaneous textile product mills ..	3	33	8	f	D	D	D	D	D	D	D	D
315	Apparel mfg	3	159	52	5 661	87 602	4 554	8 757	59 436	243 988	182 884	426 277	8 959
3151	Apparel knitting mills	—	4	2	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SAN DIEGO, CA MSA—Con.												
31-33	Manufacturing—Con.												
315	Apparel mfg—Con.												
3152	Cut & sew apparel mfg	3	125	42	4 648	70 084	3 756	7 348	49 582	200 367	139 079	339 673	D
31521	Cut & sew apparel contractors	4	76	20	1 973	25 671	1 633	3 253	21 565	41 608	9 935	50 240	1 678
315211	Men's & boys' cut & sew apparel contractors	1	14	7	540	8 099	414	778	5 820	12 808	2 104	14 991	185
315212	Women's, girls', & infants' cut & sew apparel contractors	5	62	13	1 433	17 572	1 219	2 475	15 745	28 800	7 831	35 249	1 493
31522	Men's & boys' cut & sew apparel mfg	4	24	13	1 927	30 813	1 627	3 231	20 453	115 722	86 275	203 204	3 640
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	6	11	5	1 135	16 955	935	2 064	10 374	69 652	45 456	120 273	1 885
315228	Men's & boys' cut & sew other outerwear mfg	1	7	4	459	7 622	418	756	5 845	24 084	29 694	49 900	1 241
31523	Women's & girls' cut & sew apparel mfg	1	17	6	e	D	D	D	D	D	D	D	D
31529	Other cut & sew apparel mfg	—	8	3	e	D	D	D	D	D	D	D	D
315299	All other cut & sew apparel mfg	—	5	2	e	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg	—	30	8	f	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	—	30	8	f	D	D	D	D	D	D	D	D
315991	Hat, cap, & millinery mfg	—	4	3	386	8 264	302	506	3 508	13 477	5 930	19 349	1 208
315999	Other apparel accessories & other apparel mfg	2	23	4	271	3 871	203	303	2 318	4 342	3 937	8 422	D
316	Leather & allied product mfg	1	18	5	714	13 151	574	1 359	8 572	31 783	30 392	62 743	928
3162	Footwear mfg	—	1	1	e	D	D	D	D	D	D	D	D
31621	Footwear mfg	—	1	1	e	D	D	D	D	D	D	D	D
316211	Rubber & plastics footwear mfg	—	1	1	e	D	D	D	D	D	D	D	D
3169	Other leather & allied product mfg	1	15	4	e	D	D	D	D	D	D	D	D
31699	Other leather & allied product mfg	1	15	4	e	D	D	D	D	D	D	D	D
321	Wood product mfg	2	54	12	710	16 691	549	1 007	10 323	30 795	33 685	63 502	2 083
3219	Other wood product mfg	2	44	10	595	13 529	460	851	8 362	23 982	22 186	45 280	1 695
32191	Millwork	1	21	4	275	8 092	204	410	4 809	13 326	13 125	25 626	1 106
32192	Wood container & pallet mfg	2	13	6	267	4 897	215	392	3 166	9 307	7 804	17 041	549
321920	Wood container & pallet mfg	2	13	6	267	4 897	215	392	3 166	9 307	7 804	17 041	549
322	Paper mfg	1	26	10	756	21 009	575	1 174	12 232	54 879	66 582	120 353	2 218
3222	Converted paper product mfg	1	26	10	756	21 009	575	1 174	12 232	54 879	66 582	120 353	2 218
32221	Paperboard container mfg	1	9	6	538	14 346	410	839	7 854	37 520	47 272	83 711	1 091
322211	Corrugated & solid fiber box mfg	2	7	4	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	4	432	67	5 500	158 528	3 838	7 223	94 124	354 097	230 717	584 767	36 751
3231	Printing & related support activities	4	432	67	5 500	158 528	3 838	7 223	94 124	354 097	230 717	584 767	36 751
32311	Printing	3	388	58	4 725	136 797	3 392	6 415	82 827	292 710	192 894	485 499	30 730
323110	Commercial lithographic printing	3	177	36	2 656	84 832	1 858	3 686	50 525	180 000	118 394	298 269	23 593
323113	Commercial screen printing	5	56	11	823	19 903	607	1 030	10 711	38 280	28 263	66 712	2 833
323114	Quick printing	4	90	1	422	9 225	293	429	5 646	20 199	10 724	30 964	1 457
323119	Other commercial printing	4	33	3	276	8 650	208	448	6 183	14 739	7 936	22 714	531
32312	Support activities for printing	7	44	9	775	21 731	446	808	11 297	61 387	37 823	99 268	6 021
323122	Prepress services	8	29	6	586	17 973	289	542	8 547	52 507	36 611	89 164	5 054

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SAN DIEGO, CA MSA—Con.												
	Manufacturing—Con.												
325	Chemical mfg	1	124	42	4 957	204 801	2 349	4 595	66 864	595 108	376 174	977 852	95 896
3251	Basic chemical mfg	3	10	2	403	16 587	192	460	5 803	62 610	34 106	100 255	D
32512	Industrial gas mfg	—	3	1	e	D	D	D	D	D	D	D	D
325120	Industrial gas mfg	—	3	1	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg	1	58	28	3 547	153 056	1 568	3 138	47 703	388 809	186 418	578 091	69 571
32541	Pharmaceutical & medicine mfg	1	58	28	3 547	153 056	1 568	3 138	47 703	388 809	186 418	578 091	69 571
325411	Medicinal & botanical mfg	4	12	5	509	19 966	110	198	3 424	25 170	14 895	42 054	6 659
325412	Pharmaceutical preparation mfg	6	12	5	301	11 353	182	351	4 671	39 266	18 324	55 371	2 497
325413	In-vitro diagnostic substance mfg	—	15	11	2 001	83 616	1 002	1 983	29 661	244 833	92 526	333 821	43 775
325414	Biological product (except diagnostic) mfg	1	19	7	736	38 121	274	606	9 947	79 540	60 673	146 845	16 640
3255	Paint, coating, & adhesive mfg	—	8	3	277	14 338	126	161	2 890	73 533	81 566	155 592	D
32551	Paint & coating mfg	—	7	3	e	D	D	D	D	D	D	D	D
325510	Paint & coating mfg	—	7	3	e	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg ..	4	20	6	476	13 519	315	599	6 615	44 236	37 345	81 792	2 727
32562	Toilet preparation mfg	2	7	4	347	9 553	250	467	4 868	32 432	22 727	55 143	1 478
325620	Toilet preparation mfg	2	7	4	347	9 553	250	467	4 868	32 432	22 727	55 143	1 478
326	Plastics & rubber products mfg	3	161	58	4 578	130 515	3 327	6 198	68 198	331 234	305 858	632 720	32 200
3261	Plastics product mfg	3	135	49	3 985	113 623	2 919	5 498	59 879	288 014	267 530	551 299	30 131
32611	Unsupported plastics film, sheet, & bag mfg ..	5	8	2	355	13 202	257	495	6 678	42 161	39 275	79 112	2 803
326113	Unsupported plastics film & sheet (except packaging) mfg	5	5	2	339	12 932	242	468	6 438	41 678	38 639	77 998	2 769
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	1	12	3	423	16 692	319	592	8 173	35 862	27 992	63 572	5 714
326122	Plastics pipe & pipe fitting mfg	—	3	2	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	3	103	39	3 012	79 459	2 192	4 142	42 071	197 439	187 848	383 450	20 681
326191	Plastics plumbing fixture mfg	—	6	3	773	22 284	476	1 013	10 716	64 891	73 722	139 998	2 440
326199	All other plastics product mfg	4	97	36	2 239	57 175	1 716	3 129	31 355	132 548	114 126	243 452	18 241
3262	Rubber product mfg	4	26	9	593	16 892	408	700	8 319	43 220	38 328	81 421	2 069
32629	Other rubber product mfg	4	19	7	451	12 015	334	565	6 835	35 751	26 046	61 402	1 679
326299	All other rubber product mfg	3	16	6	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	3	93	23	1 842	53 390	1 204	2 256	35 098	129 795	147 610	277 910	9 262
3271	Clay product & refractory mfg	3	13	3	459	6 351	259	407	4 383	14 635	7 799	22 539	516
32711	Pottery, ceramics, & plumbing fixture mfg ...	3	12	3	e	D	D	D	D	D	D	D	516
327112	Vitreous china, fine earthenware, & other pottery product mfg ..	3	10	3	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	3	42	15	1 006	36 823	692	1 382	24 622	92 142	120 201	212 564	7 178
32732	Ready-mix concrete mfg ..	3	26	11	801	30 534	555	1 086	20 919	76 889	105 699	182 869	6 445
327320	Ready-mix concrete mfg	3	26	11	801	30 534	555	1 086	20 919	76 889	105 699	182 869	6 445
332	Fabricated metal product mfg	1	495	134	10 655	328 921	7 478	14 329	195 141	759 470	411 936	1 171 062	48 284
3321	Forging & stamping	—	14	7	509	18 397	374	764	10 837	37 709	40 866	77 333	3 372
33211	Forging & stamping	—	14	7	509	18 397	374	764	10 837	37 709	40 866	77 333	3 372
3322	Cutlery & handtool mfg	7	16	2	470	15 267	308	447	7 992	49 213	14 293	63 163	4 897
33221	Cutlery & handtool mfg ..	7	16	2	470	15 267	308	447	7 992	49 213	14 293	63 163	4 897
332211	Cutlery & flatware (except precious) mfg	9	5	1	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	—	91	32	2 806	88 567	1 757	3 459	46 420	202 277	122 729	323 715	8 414
33231	Plate work & fabricated structural product mfg ..	—	21	9	808	26 015	625	1 186	16 791	63 812	48 232	111 088	2 145
332312	Fabricated structural metal mfg	—	18	9	777	25 140	601	1 140	16 233	62 371	47 069	108 444	2 105
33232	Ornamental & architectural metal products mfg	—	70	23	1 998	62 552	1 132	2 273	29 629	138 465	74 497	212 627	6 269
332322	Sheet metal work mfg ..	—	49	20	1 674	53 637	923	1 851	25 073	119 625	61 580	181 090	5 536

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SAN DIEGO, CA MSA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3324	Boiler, tank, & shipping container mfg	1	14	3	540	13 206	339	757	8 065	34 270	46 956	79 600	1 165
33242	Metal tank (heavy gauge) mfg	—	4	2	e	D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) mfg	—	4	2	e	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	235	55	3 511	112 768	2 790	5 214	77 747	223 721	85 755	310 573	17 777
33271	Machine shops	1	211	44	2 791	92 181	2 234	4 108	62 891	181 318	69 208	252 205	14 332
332710	Machine shops	1	211	44	2 791	92 181	2 234	4 108	62 891	181 318	69 208	252 205	14 332
33272	Turned product & screw, nut, & bolt mfg	2	24	11	720	20 587	556	1 106	14 856	42 403	16 547	58 368	3 445
332721	Precision turned product mfg	—	18	9	579	16 597	452	925	12 050	32 023	12 247	44 477	2 365
3328	Coating, engraving, heat treating, & allied activities.	2	59	17	873	20 140	686	1 230	12 799	38 559	14 386	51 980	2 109
33281	Coating, engraving, heat treating, & allied activities	2	59	17	873	20 140	686	1 230	12 799	38 559	14 386	51 980	2 109
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	3	19	6	270	6 842	222	390	4 329	12 183	6 367	18 148	D
332813	Electroplating, plating, polishing, anodizing, & coloring	3	37	9	538	11 121	413	730	7 068	21 468	6 467	27 378	1 069
3329	Other fabricated metal product mfg	—	49	12	1 610	50 781	993	2 014	26 294	154 805	70 553	229 146	9 777
33291	Metal valve mfg	—	5	2	f	D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting & trim mfg	—	2	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	2	44	10	f	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg	2	33	7	550	16 680	400	828	10 434	29 395	17 499	48 001	1 743
333	Machinery mfg	—	204	53	8 954	369 382	5 174	10 451	163 304	1 289 085	797 339	2 064 665	70 016
3331	Agriculture, construction, & mining machinery mfg	3	10	4	e	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	1	5	1	e	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg	—	1	1	e	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	—	38	9	1 788	54 876	1 439	2 787	37 576	424 655	95 159	515 112	15 940
33329	Other industrial machinery mfg	—	32	8	1 669	50 739	1 360	2 632	35 518	415 297	86 594	497 562	15 342
333295	Semiconductor machinery mfg	—	7	4	g	D	D	D	D	D	D	D	D
333298	All other industrial machinery mfg	—	18	3	528	16 859	331	603	6 594	39 314	30 862	69 998	D
3333	Commercial & service industry machinery mfg ..	1	40	12	1 187	42 300	637	1 274	17 410	107 997	89 162	196 605	5 012
33331	Commercial & service industry machinery mfg	1	40	12	1 187	42 300	637	1 274	17 410	107 997	89 162	196 605	5 012
333314	Optical instrument & lens mfg	1	15	5	e	D	D	D	D	D	D	D	3 399
333315	Photographic & photocopying equipment mfg	—	6	3	399	14 462	164	351	3 705	32 842	42 940	76 091	791
333319	Other commercial & service industry machinery mfg	1	17	3	285	7 966	172	304	2 936	38 021	28 073	65 514	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	4	16	4	e	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	4	16	4	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	1	50	10	858	29 409	614	1 156	18 308	82 909	40 288	121 465	5 138
33351	Metalworking machinery mfg	1	50	10	858	29 409	614	1 156	18 308	82 909	40 288	121 465	5 138
333514	Special die & tool, die set, jig, & fixture mfg ..	1	20	6	330	11 060	271	573	8 247	42 261	12 008	53 332	2 632

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
	SAN DIEGO, CA MSA—Con.													
31-33	Manufacturing—Con.													
333	Machinery mfg—Con.													
3336	Engine, turbine, & power transmission equipment mfg	—	5	2	h	D	D	D	D	D	D	D	D	
33361	Engine, turbine, & power transmission equipment mfg	—	5	2	h	D	D	D	D	D	D	D	D	
333611	Turbine & turbine generator set unit mfg	—	2	2	h	D	D	D	D	D	D	D	D	
3339	Other general-purpose machinery mfg	1	45	12		1 010	34 126	599	1 263	15 594	76 872	79 772	155 526	D
33399	All other general-purpose machinery mfg	1	34	10		851	28 997	521	1 107	13 363	63 729	65 800	127 626	2 346
333992	Welding & soldering equipment mfg	—	5	3		272	9 916	181	373	5 432	23 402	22 859	46 139	658
333999	All other miscellaneous general-purpose machinery mfg	1	20	6		409	14 122	244	539	5 946	32 107	35 703	66 657	1 209
334	Computer & electronic product mfg	1	414	196		30 825	1 373 848	13 861	27 875	404 879	3 317 227	5 550 764	8 730 916	334 995
3341	Computer & peripheral equipment mfg	—	63	27		8 192	431 119	2 679	5 671	84 294	1 008 756	3 809 245	4 663 199	94 542
33411	Computer & peripheral equipment mfg	—	63	27		8 192	431 119	2 679	5 671	84 294	1 008 756	3 809 245	4 663 199	94 542
334111	Electronic computer mfg	—	15	6		812	38 479	324	759	10 217	539 104	230 044	734 438	11 014
334112	Computer storage device mfg	—	3	3	f		D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	—	42	17		6 641	376 717	2 280	4 768	70 836	432 832	3 529 741	3 842 157	79 723
3342	Communications equipment mfg	2	62	43		5 064	222 330	1 993	3 786	54 792	420 544	504 464	929 970	66 616
33421	Telephone apparatus mfg	—	9	7		1 239	62 393	322	609	9 163	51 984	103 226	156 759	4 812
334210	Telephone apparatus mfg	—	9	7		1 239	62 393	322	609	9 163	51 984	103 226	156 759	4 812
33422	Radio & TV broadcasting & wireless communications equipment mfg	1	43	30		3 377	144 936	1 493	2 889	41 825	331 191	333 870	661 838	57 858
334220	Radio & TV broadcasting & wireless communications equipment mfg	1	43	30		3 377	144 936	1 493	2 889	41 825	331 191	333 870	661 838	57 858
33429	Other communications equipment mfg	6	10	6		448	15 001	178	288	3 804	37 369	67 368	111 373	3 946
334290	Other communications equipment mfg	6	10	6		448	15 001	178	288	3 804	37 369	67 368	111 373	3 946
3343	Audio & video equipment mfg	2	12	4		274	8 670	207	395	4 728	6 646	14 231	21 207	1 090
33431	Audio & video equipment mfg	2	12	4		274	8 670	207	395	4 728	6 646	14 231	21 207	1 090
334310	Audio & video equipment mfg	2	12	4		274	8 670	207	395	4 728	6 646	14 231	21 207	1 090
3344	Semiconductor & other electronic component mfg	3	140	58		7 465	248 229	4 810	9 642	114 193	591 366	410 075	1 012 670	101 554
33441	Semiconductor & other electronic component mfg	3	140	58		7 465	248 229	4 810	9 642	114 193	591 366	410 075	1 012 670	101 554
334412	Bare printed circuit board mfg	1	35	17		2 083	53 816	1 718	3 441	35 753	147 776	116 064	262 637	16 984
334413	Semiconductor & related device mfg	5	23	13		1 325	62 279	724	1 493	23 982	172 297	70 868	250 622	63 036
334414	Electronic capacitor mfg	2	8	6		855	30 143	504	1 013	14 387	55 642	43 498	100 171	4 077
334417	Electronic connector mfg	—	6	6		854	23 186	722	1 462	13 535	75 855	17 622	90 143	3 492
334418	Printed circuit assembly (electronic assembly) mfg	5	19	10		1 715	56 659	714	1 492	17 167	89 882	125 785	221 028	10 806
334419	Other electronic component mfg	6	40	6		553	19 798	371	627	8 154	45 219	32 539	79 490	2 841
3345	Navigational, measuring, medical, & control instruments mfg	—	124	59		9 381	450 874	3 886	7 892	139 858	1 245 875	693 875	1 942 005	68 965

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SAN DIEGO, CA MSA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3345	Navigational, measuring, medical, & control instruments mfg—Con.												
33451	Navigational, measuring, medical, & control instruments mfg	-	124	59	9 381	450 874	3 886	7 892	139 858	1 245 875	693 875	1 942 005	68 965
334510	Electromedical & electrotherapeutic apparatus mfg	-	13	9	670	50 915	359	968	11 800	58 164	67 821	131 969	11 111
334511	Search, detection, navigation, & guidance instrument mfg	-	22	15	4 595	218 029	1 541	2 988	54 239	523 578	212 770	740 645	17 983
334512	Automatic environmental control mfg	-	3	2	e	D	D	D	D	D	D	D	D
334513	Industrial process control instrument mfg	-	15	7	773	31 032	249	528	7 819	100 273	59 625	158 686	3 418
334514	Totalizing fluid meter & counting device mfg .	-	3	1	e	D	D	D	D	D	D	D	D
334515	Electricity measuring & testing instrument mfg	-	30	15	1 851	81 194	961	1 885	32 925	271 036	205 226	474 853	29 833
334519	Other measuring & controlling device mfg	1	21	6	506	24 020	244	406	7 927	61 910	26 045	88 107	1 113
3346	Mfg & reproducing magnetic & optical media .	1	13	5	449	12 626	286	489	7 014	44 040	118 874	161 865	2 228
33461	Mfg & reproducing magnetic & optical media	1	13	5	449	12 626	286	489	7 014	44 040	118 874	161 865	2 228
335	Electrical equipment, appliance, & component mfg	-	66	31	3 263	131 032	1 943	4 186	63 287	375 743	361 886	717 274	58 534
3351	Electric lighting equipment mfg	4	15	4	e	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	4	14	4	e	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	24	11	1 152	36 986	730	1 587	18 449	85 499	65 558	146 964	4 123
33531	Electrical equipment mfg	-	24	11	1 152	36 986	730	1 587	18 449	85 499	65 558	146 964	4 123
335312	Motor & generator mfg	-	9	7	631	17 084	408	936	9 299	46 553	33 921	79 790	1 790
335314	Relay & industrial control mfg	-	10	3	390	14 731	235	482	6 899	25 651	24 009	46 562	1 668
3359	Other electrical equipment & component mfg	-	25	15	1 623	80 766	918	2 066	39 539	238 327	183 686	407 892	50 008
33599	All other electrical equipment & component mfg	-	18	9	1 300	71 252	699	1 614	34 131	222 337	149 091	357 549	D
335999	All other miscellaneous electrical equipment & component mfg	-	15	7	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	139	50	14 688	558 939	10 759	21 726	338 668	1 131 708	1 113 668	2 253 448	76 461
3362	Motor vehicle body & trailer mfg	-	10	2	266	5 997	223	478	3 540	35 382	28 451	47 745	D
33621	Motor vehicle body & trailer mfg	-	10	2	266	5 997	223	478	3 540	35 382	28 451	47 745	D
3363	Motor vehicle parts mfg ...	6	50	16	956	29 739	689	1 161	16 647	50 964	67 858	119 979	5 728
33632	Motor vehicle electrical & electronic equipment mfg	8	15	6	270	8 439	160	303	3 321	15 992	12 495	29 394	D
336322	Other motor vehicle electrical & electronic equipment mfg	8	15	6	270	8 439	160	303	3 321	15 992	12 495	29 394	D
3364	Aerospace product & parts mfg	-	31	15	6 232	292 855	4 213	7 477	168 395	604 736	624 917	1 252 472	59 566
33641	Aerospace product & parts mfg	-	31	15	6 232	292 855	4 213	7 477	168 395	604 736	624 917	1 252 472	59 566
336411	Aircraft mfg	-	1	1	e	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg	-	5	2	g	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	-	22	10	4 262	222 900	2 804	4 591	113 396	426 146	531 518	992 383	48 158
336414	Guided missile & space vehicle mfg ...	-	1	1	e	D	D	D	D	D	D	D	D
3366	Ship & boat building	-	21	13	6 874	220 818	5 371	12 102	145 056	423 670	374 865	798 612	8 575
33661	Ship & boat building	-	21	13	6 874	220 818	5 371	12 102	145 056	423 670	374 865	798 612	8 575
336611	Ship building & repairing	-	16	11	6 759	217 422	5 298	11 955	143 386	416 309	370 115	786 424	D

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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
	SAN DIEGO, CA MSA—Con.													
31-33	Manufacturing—Con.													
336	Transportation equipment mfg—Con.													
3369	Other transportation equipment mfg	2	24	4	e	D	D	D	D	D	D	D	1 967	
33699	Other transportation equipment mfg	2	24	4	e	D	D	D	D	D	D	D	1 967	
337	Furniture & related product mfg	1	185	32		3 511	75 071	2 790	5 140	48 926	145 632	166 337	313 068	5 107
3371	Household & institutional furniture & kitchen cabinet mfg	1	132	16		1 887	37 003	1 580	2 784	26 645	66 175	67 597	133 103	2 273
33711	Wood kitchen cabinet & counter top mfg	3	63	4		468	10 826	386	699	7 402	18 134	15 144	33 239	752
337110	Wood kitchen cabinet & counter top mfg	3	63	4		468	10 826	386	699	7 402	18 134	15 144	33 239	752
33712	Household & institutional furniture mfg	1	69	12		1 419	26 177	1 194	2 085	19 243	48 041	52 453	99 864	1 521
337122	Nonupholstered wood household furniture mfg	—	34	8		1 117	19 056	957	1 671	14 592	34 407	43 857	77 821	1 090
3372	Office furniture (including fixtures) mfg	—	41	11		1 065	25 726	831	1 769	16 730	48 581	45 483	95 762	1 768
33721	Office furniture (including fixtures) mfg	—	41	11		1 065	25 726	831	1 769	16 730	48 581	45 483	95 762	1 768
337211	Wood office furniture mfg	—	9	4		400	7 854	320	684	5 109	13 355	20 869	35 504	279
337215	Showcase, partition, shelving, & locker mfg	—	16	3		411	11 581	346	789	8 496	25 758	19 148	44 776	1 209
3379	Other furniture related product mfg	—	12	5		559	12 342	379	587	5 551	30 876	53 257	84 203	1 066
33792	Blind & shade mfg	—	8	4		472	10 568	322	487	4 659	26 031	46 023	72 133	827
337920	Blind & shade mfg	—	8	4		472	10 568	322	487	4 659	26 031	46 023	72 133	827
339	Miscellaneous mfg	1	477	110		15 288	518 781	9 591	19 839	207 783	1 668 787	1 076 281	2 736 169	96 094
3391	Medical equipment & supplies mfg	1	196	42		6 101	221 751	3 345	6 413	71 519	554 738	340 995	913 047	36 594
33911	Medical equipment & supplies mfg	1	196	42		6 101	221 751	3 345	6 413	71 519	554 738	340 995	913 047	36 594
339112	Surgical & medical instrument mfg	1	49	20		2 860	120 625	1 255	2 243	24 082	223 395	133 499	358 196	23 099
339113	Surgical appliance & supplies mfg	—	20	7		1 154	38 840	671	1 260	16 225	130 230	60 188	194 723	5 511
339114	Dental equipment & supplies mfg	—	19	3		438	17 064	212	411	5 685	51 373	82 040	134 107	1 661
339115	Ophthalmic goods mfg	—	14	4		1 141	31 157	856	1 916	19 086	120 756	51 056	182 700	4 531
339116	Dental laboratories ...	6	83	5		346	7 763	271	416	4 719	17 607	6 813	24 657	619
3399	Other miscellaneous mfg ..	—	281	68		9 187	297 030	6 246	13 426	136 264	1 114 049	735 286	1 823 122	59 500
33991	Jewelry & silverware mfg	3	23	4		270	6 847	219	410	4 569	16 907	41 402	57 956	281
33992	Sporting & athletic goods mfg	—	110	31		6 648	224 214	4 537	10 101	98 700	924 108	584 813	1 483 027	54 006
339920	Sporting & athletic goods mfg	—	110	31		6 648	224 214	4 537	10 101	98 700	924 108	584 813	1 483 027	54 006
33995	Sign mfg	3	67	12		692	20 157	449	961	10 917	40 198	19 891	60 023	966
339950	Sign mfg	3	67	12		692	20 157	449	961	10 917	40 198	19 891	60 023	966
33999	All other miscellaneous mfg	1	55	19		1 404	41 183	920	1 722	19 556	114 889	74 359	189 279	3 964
339991	Gasket, packing, & sealing device mfg ..	—	4	2	e	D	D	D	D	D	D	D	D	674
339999	All other miscellaneous mfg	2	37	14		814	21 111	476	775	9 145	62 590	39 786	103 116	2 776
	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA													
31-33	Manufacturing	1	11 035	3 331		479 063	22 173 668	264 910	528 059	8 613 791	71 348 918	59 766 409	130 726 883	6 942 626
311	Food mfg	2	841	278		30 532	879 763	21 568	40 323	522 532	3 046 172	3 889 097	6 961 737	190 636
312	Beverage & tobacco product mfg	2	305	114	j	D	D	D	D	D	D	D	D	D
313	Textile mills	1	53	4	f	D	D	D	D	D	D	D	D	D
314	Textile product mills	3	179	29	g	D	D	D	D	D	D	D	D	D
315	Apparel mfg	—	549	214	j	D	D	D	D	D	D	D	D	D
316	Leather & allied product mfg .	1	42	13	g	D	D	D	D	D	D	D	D	D
321	Wood product mfg	2	198	53		3 929	107 683	3 117	6 260	71 601	225 884	299 099	520 073	D

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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
31-33	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.													
	Manufacturing—Con.													
322	Paper mfg	1	111	63	i	D	D	D	D	D	D	D	D	
323	Printing & related support activities	2	1 403	232		19 497	682 651	13 918	26 309	411 259	1 410 235	867 554	2 283 399	125 905
324	Petroleum & coal products mfg	2	46	17	h	D	D	D	D	D	D	D	D	
325	Chemical mfg	1	332	119		16 326	927 964	7 541	14 951	274 938	3 339 239	1 486 829	4 782 346	387 161
326	Plastics & rubber products mfg	2	325	135		13 696	537 552	9 412	17 855	247 957	1 338 490	974 383	2 296 812	135 024
327	Nonmetallic mineral product mfg	1	353	109		9 188	350 458	7 288	15 421	251 160	1 050 663	805 023	1 842 679	97 941
331	Primary metal mfg	—	73	33	h	D	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	1 798	486		37 923	1 399 655	29 157	58 455	910 433	3 003 938	2 210 233	5 201 594	208 473
333	Machinery mfg	1	636	208		30 291	1 366 161	15 412	31 072	512 046	3 391 183	3 777 662	7 106 157	469 142
334	Computer & electronic product mfg	—	1 729	818		210 661	11 647 767	92 296	190 779	3 464 058	40 440 683	27 153 443	67 452 958	D
335	Electrical equipment, appliance, & component mfg	1	221	90	i	D	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	231	61	k	D	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	3	571	87		6 976	205 911	5 338	10 254	127 601	446 866	321 534	765 935	D
339	Miscellaneous mfg	1	1 039	168		19 782	794 079	10 853	20 821	297 422	2 326 672	950 733	3 244 848	137 138
	Oakland, CA PMSA													
31-33	Manufacturing	1	3 230	1 020		113 175	4 692 006	72 683	143 400	2 413 842	14 194 822	19 984 736	33 982 568	1 616 377
311	Food mfg	2	245	99		12 243	383 436	8 194	16 023	218 231	1 395 368	1 571 390	2 948 633	89 692
3113	Sugar & confectionery product mfg	1	21	12		2 258	81 465	1 781	3 336	55 299	280 436	507 314	780 848	18 844
31131	Sugar mfg	—	2	1	f	D	D	D	D	D	D	D	D	D
311312	Cane sugar refining	—	1	1	f	D	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate	4	9	6		1 004	27 363	763	1 202	14 731	90 913	90 946	176 009	9 042
311330	Confectionery mfg from purchased chocolate	4	9	6		1 004	27 363	763	1 202	14 731	90 913	90 946	176 009	9 042
31134	Nonchocolate confectionery mfg	—	8	4	f	D	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg	—	8	4	f	D	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	2	13	8		813	34 186	667	1 318	21 214	110 179	102 133	215 114	D
31141	Frozen food mfg	—	6	5		348	14 284	262	456	4 989	49 193	24 077	73 241	D
311412	Frozen specialty food mfg	—	6	5		348	14 284	262	456	4 989	49 193	24 077	73 241	D
31142	Fruit & vegetable canning, pickling, & drying	3	7	3		465	19 902	405	862	16 225	60 986	78 056	141 873	3 547
311421	Fruit & vegetable canning	3	7	3		465	19 902	405	862	16 225	60 986	78 056	141 873	3 547
3115	Dairy product mfg	1	15	6		645	27 539	394	926	16 346	158 315	256 480	413 830	6 020
31151	Dairy product (except frozen) mfg	1	10	5	e	D	D	D	D	D	D	D	D	5 314
311511	Fluid milk mfg	1	8	5		457	18 569	244	535	9 604	104 705	196 307	301 153	D
3116	Meat product mfg	5	20	9		1 036	27 792	800	1 329	16 568	77 771	95 843	171 319	14 166
31161	Animal slaughtering & processing	5	20	9		1 036	27 792	800	1 329	16 568	77 771	95 843	171 319	14 166
311612	Meat processed from carcasses	4	14	8		970	26 265	743	1 232	15 634	73 736	82 252	153 693	14 032

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	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	Oakland, CA PMSA—Con.												
31-33	Manufacturing—Con.												
311	Food mfg—Con.												
3118	Bakeries & tortilla mfg	3	125	40	5 713	156 369	3 296	6 273	72 796	419 838	249 906	668 034	26 212
31181	Bread & bakery product mfg	5	102	29	4 154	102 667	2 438	4 731	54 240	241 088	136 611	375 761	17 087
311811	Retail bakeries	3	56	4	418	6 460	256	329	3 181	14 074	7 020	21 118	D
311812	Commercial bakeries	5	42	22	3 529	92 110	2 001	4 004	48 152	217 262	116 489	333 553	14 691
31182	Cookie, cracker, & pasta mfg	1	19	7	1 307	47 252	687	1 190	15 062	170 560	106 080	276 925	8 684
311821	Cookie & cracker mfg	—	10	4	f	D	D	D	D	D	D	D	6 371
311822	Flour mixes & dough mfg from purchased flour	3	5	3	308	7 033	266	481	5 557	17 367	47 807	63 675	2 149
31183	Tortilla mfg	2	4	4	252	6 450	171	352	3 494	8 190	7 215	15 348	441
311830	Tortilla mfg	2	4	4	252	6 450	171	352	3 494	8 190	7 215	15 348	441
3119	Other food mfg	1	38	20	1 516	46 249	1 079	2 489	29 593	297 040	275 835	570 010	14 705
31191	Snack food mfg	—	8	4	283	7 788	216	553	5 434	35 305	40 486	74 212	973
31192	Coffee & tea mfg	—	6	3	436	13 622	314	829	8 460	198 468	174 101	372 124	9 230
311920	Coffee & tea mfg	—	6	3	436	13 622	314	829	8 460	198 468	174 101	372 124	9 230
31194	Seasoning & dressing mfg	3	6	5	326	11 396	191	477	6 549	23 332	23 083	45 832	1 637
31199	All other food mfg	4	18	8	471	13 443	358	630	9 150	39 935	38 165	77 842	2 865
311999	All other miscellaneous food mfg	3	14	6	e	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	6	31	12	987	34 033	705	1 414	23 634	278 991	403 722	673 005	16 258
3121	Beverage mfg	6	31	12	987	34 033	705	1 414	23 634	278 991	403 722	673 005	16 258
31211	Soft drink & ice mfg	6	12	7	740	27 005	539	1 164	19 118	240 087	371 820	608 604	14 113
312111	Soft drink mfg	6	8	5	648	23 667	456	962	16 531	235 050	363 204	594 792	13 742
313	Textile mills	—	14	2	280	9 505	224	444	5 629	22 124	51 804	72 060	D
314	Textile product mills	3	60	13	679	12 950	514	993	7 918	20 494	22 852	43 580	D
3149	Other textile product mills	2	36	11	520	9 565	412	810	6 331	15 128	16 859	32 296	D
31499	All other textile product mills	—	13	7	314	5 230	245	484	3 608	6 502	8 986	15 601	D
314999	All other miscellaneous textile product mills	—	13	7	314	5 230	245	484	3 608	6 502	8 986	15 601	D
315	Apparel mfg	3	142	45	2 375	35 868	2 058	3 598	25 040	69 040	40 803	109 666	D
3152	Cut & sew apparel mfg	4	128	40	2 029	29 300	1 801	3 024	21 194	55 872	28 058	83 995	D
31521	Cut & sew apparel contractors	7	91	23	1 421	17 199	1 332	2 143	14 746	26 521	6 715	33 184	D
315212	Women's, girls', & infants' cut & sew apparel contractors	7	88	21	1 344	16 375	1 261	2 043	14 127	24 744	6 386	31 108	D
31523	Women's & girls' cut & sew apparel mfg	—	33	14	515	10 056	413	782	5 854	22 674	14 565	36 991	D
316	Leather & allied product mfg	1	11	4	348	7 079	285	542	4 991	17 200	9 966	27 349	D
3169	Other leather & allied product mfg	—	8	3	e	D	D	D	D	D	D	D	D
31699	Other leather & allied product mfg	—	8	3	e	D	D	D	D	D	D	D	D
316993	Personal leather good (except women's handbag & purse) mfg	—	3	2	e	D	D	D	D	D	D	D	D
321	Wood product mfg	3	63	14	943	26 890	782	1 750	18 844	54 690	68 388	118 360	D
3219	Other wood product mfg	3	60	14	936	26 740	777	1 741	18 740	54 370	67 937	117 595	D
32192	Wood container & pallet mfg	3	29	7	408	8 795	338	692	6 128	18 751	27 246	46 256	D
321920	Wood container & pallet mfg	3	29	7	408	8 795	338	692	6 128	18 751	27 246	46 256	D
32199	All other wood product mfg	2	12	5	386	13 379	336	855	9 861	27 368	31 023	53 356	D
321999	All other miscellaneous wood product mfg	—	10	4	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	Oakland, CA PMSA—Con.												
31-33	Manufacturing—Con.												
322	Paper mfg	1	50	32	2 930	123 093	2 065	4 378	76 234	282 355	441 990	724 011	23 657
3221	Pulp, paper, & paperboard mills	—	3	3	323	17 567	256	560	12 928	60 792	98 349	158 571	6 753
32213	Paperboard mills	—	3	3	323	17 567	256	560	12 928	60 792	98 349	158 571	6 753
322130	Paperboard mills	—	3	3	323	17 567	256	560	12 928	60 792	98 349	158 571	6 753
3222	Converted paper product mfg	1	47	29	2 607	105 526	1 809	3 818	63 306	221 563	343 641	565 440	16 904
32221	Paperboard container mfg	1	26	21	1 910	77 809	1 377	2 959	46 968	150 452	262 823	413 113	14 476
322211	Corrugated & solid fiber box mfg	2	19	17	1 633	67 498	1 150	2 498	40 180	121 094	241 792	362 559	12 949
32222	Paper bag & coated & treated paper mfg	—	10	6	552	23 730	316	649	13 469	60 499	66 406	127 242	1 960
322222	Coated & laminated paper mfg	—	8	5	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	393	56	5 150	165 256	3 659	6 480	96 608	351 712	304 752	660 311	29 406
3231	Printing & related support activities	1	393	56	5 150	165 256	3 659	6 480	96 608	351 712	304 752	660 311	29 406
32311	Printing	1	348	50	4 716	150 253	3 330	5 857	87 043	321 140	298 761	623 820	27 711
323110	Commercial lithographic printing ..	1	180	30	2 757	91 552	1 931	3 511	54 840	195 488	224 256	418 724	14 576
323113	Commercial screen printing	1	31	7	746	22 688	541	819	9 824	47 130	19 313	68 166	3 050
323114	Quick printing	1	91	4	525	15 090	378	706	9 626	38 346	20 956	59 467	2 592
32312	Support activities for printing	2	45	6	434	15 003	329	623	9 565	30 572	5 991	36 491	1 695
323122	Prepress services	2	32	5	309	12 107	222	421	7 394	25 504	4 628	30 049	1 280
324	Petroleum & coal products mfg	2	27	13	4 093	235 548	2 781	6 490	160 487	1 770 710	5 586 212	7 269 608	290 734
3241	Petroleum & coal products mfg	2	27	13	4 093	235 548	2 781	6 490	160 487	1 770 710	5 586 212	7 269 608	290 734
32411	Petroleum refineries	2	7	5	3 689	217 739	2 510	5 903	148 483	1 648 091	5 416 462	6 974 045	284 672
324110	Petroleum refineries ..	2	7	5	3 689	217 739	2 510	5 903	148 483	1 648 091	5 416 462	6 974 045	284 672
32412	Asphalt paving, roofing, & saturated materials mfg	1	16	5	289	12 828	210	433	9 319	57 436	104 998	162 578	4 617
325	Chemical mfg	1	144	59	7 646	430 607	3 658	7 392	146 681	1 332 584	866 109	2 186 332	139 156
3251	Basic chemical mfg	—	28	18	1 401	78 143	828	1 778	46 150	452 621	323 001	778 375	27 429
32518	Other basic inorganic chemical mfg	—	14	8	479	24 270	267	615	13 144	101 780	116 558	221 692	18 763
325188	All other basic inorganic chemical mfg	—	13	8	e	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	—	5	3	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	—	5	3	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg	1	25	12	4 163	266 555	1 569	2 879	53 797	591 681	118 323	692 924	94 953
32541	Pharmaceutical & medicine mfg	1	25	12	4 163	266 555	1 569	2 879	53 797	591 681	118 323	692 924	94 953
325413	In-vitro diagnostic substance mfg	—	4	3	423	22 280	95	233	3 469	48 959	9 814	52 848	D
325414	Biological product (except diagnostic) mfg	—	8	4	3 431	231 250	1 277	2 289	42 759	473 428	86 469	552 851	57 900
3255	Paint, coating, & adhesive mfg	—	22	9	745	32 671	368	803	13 419	133 377	149 633	283 167	4 866
32551	Paint & coating mfg	—	16	6	508	19 572	260	547	8 948	89 430	120 280	210 661	3 640
325510	Paint & coating mfg ...	—	16	6	508	19 572	260	547	8 948	89 430	120 280	210 661	3 640
3256	Soap, cleaning compound, & toilet preparation mfg ..	4	23	7	346	14 437	231	558	7 331	50 191	42 115	92 074	1 947
3259	Other chemical product mfg	—	37	12	850	30 139	558	1 142	19 951	116 385	85 129	201 062	7 850
32599	All other chemical product & preparation mfg	1	26	7	669	22 569	466	950	15 843	98 560	47 387	145 875	6 980
325998	All other miscellaneous chemical product & preparation mfg	—	17	6	596	20 409	404	847	14 226	91 544	39 812	131 238	6 600

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con. Oakland, CA PMSA—Con. Manufacturing—Con.												
326	Plastics & rubber products mfg	2	127	54	4 276	116 594	3 337	6 463	74 057	317 719	292 171	609 821	30 248
3261	Plastics product mfg	2	114	49	4 044	108 814	3 160	6 089	68 673	299 356	274 284	572 170	29 303
32611	Unsupported plastics film, sheet, & bag mfg ..	1	24	14	1 001	27 194	798	1 597	18 368	65 721	97 260	165 659	12 270
326111	Unsupported plastics bag mfg	1	14	7	529	10 711	457	817	8 170	26 857	48 799	76 220	5 584
32615	Urethane & other foam product (except polystyrene) mfg	2	9	6	456	10 802	344	647	7 282	41 648	57 555	97 969	3 753
326150	Urethane & other foam product (except polystyrene) mfg	2	9	6	456	10 802	344	647	7 282	41 648	57 555	97 969	3 753
32619	Other plastics product mfg	3	68	24	2 301	63 484	1 804	3 452	38 774	174 593	104 155	275 733	12 352
326199	All other plastics product mfg	3	61	21	2 081	56 768	1 646	3 176	35 890	162 710	97 775	257 478	11 843
327	Nonmetallic mineral product mfg	-	109	39	3 631	155 521	2 943	6 426	110 463	455 741	355 587	793 474	34 670
3271	Clay product & refractory mfg	-	16	3	455	20 773	386	921	13 396	38 841	15 429	53 837	4 655
32711	Pottery, ceramics, & plumbing fixture mfg ...	-	14	3	e	D	D	D	D	D	D	D	D
327113	Porcelain electrical supply mfg	-	5	3	401	19 717	342	838	12 632	36 844	14 753	51 077	D
3272	Glass & glass product mfg .	-	32	10	1 516	66 062	1 308	2 846	49 502	201 517	138 237	323 822	14 003
32721	Glass & glass product mfg	-	32	10	1 516	66 062	1 308	2 846	49 502	201 517	138 237	323 822	14 003
327213	Glass container mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass	-	19	8	f	D	D	D	D	D	D	D	8 572
3273	Cement & concrete product mfg	1	43	18	1 192	48 510	897	1 846	34 031	151 114	126 997	276 424	7 908
32732	Ready-mix concrete mfg.	-	24	11	604	25 844	470	934	19 335	101 172	87 038	186 994	5 719
327320	Ready-mix concrete mfg	-	24	11	604	25 844	470	934	19 335	101 172	87 038	186 994	5 719
32739	Other concrete product mfg	1	15	6	538	20 631	388	834	13 324	44 584	35 597	79 689	1 698
327390	Other concrete product mfg	1	15	6	538	20 631	388	834	13 324	44 584	35 597	79 689	1 698
3274	Lime & gypsum product mfg	1	5	4	280	13 753	215	538	9 634	44 751	61 332	106 793	6 601
32742	Gypsum product mfg	1	5	4	280	13 753	215	538	9 634	44 751	61 332	106 793	6 601
327420	Gypsum product mfg ..	1	5	4	280	13 753	215	538	9 634	44 751	61 332	106 793	6 601
331	Primary metal mfg	-	35	20	3 125	138 445	2 476	5 454	103 457	511 514	766 113	1 266 624	31 169
3312	Steel product mfg from purchased steel	-	4	4	g	D	D	D	D	D	D	D	D
33122	Rolling & drawing of purchased steel	-	4	4	g	D	D	D	D	D	D	D	D
331221	Cold-rolled steel shape mfg	-	1	1	f	D	D	D	D	D	D	D	D
331222	Steel wire drawing	-	3	3	e	D	D	D	D	D	D	D	D
3315	Foundries	-	26	14	1 796	69 908	1 491	3 201	52 717	183 418	101 733	282 956	D
33151	Ferrous metal foundries .	-	13	6	1 246	46 449	1 020	2 193	36 010	143 303	71 838	212 788	6 741
331511	Iron foundries	-	7	3	582	22 508	462	974	16 235	92 752	40 566	132 161	4 879
331513	Steel foundries (except investment)	-	5	2	e	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	13	8	550	23 459	471	1 008	16 707	40 115	29 895	70 168	D
331521	Aluminum die-casting foundries	-	5	5	273	11 787	229	479	9 116	16 612	16 682	33 367	1 152
331524	Aluminum foundries (except die-casting) ..	-	5	3	251	10 688	223	475	7 007	21 474	12 554	34 112	520
332	Fabricated metal product mfg	1	565	174	13 504	517 861	9 950	19 641	318 774	1 156 865	1 083 820	2 226 203	83 772
3321	Forging & stamping	2	23	11	1 326	40 816	1 062	2 331	27 567	63 006	115 149	181 504	19 087
33211	Forging & stamping	2	23	11	1 326	40 816	1 062	2 331	27 567	63 006	115 149	181 504	19 087
332116	Metal stamping	2	14	7	936	27 964	785	1 836	19 647	51 943	82 827	135 129	12 293
3322	Cutlery & handtool mfg	-	16	4	464	29 336	193	347	7 633	87 695	39 077	124 850	3 915
33221	Cutlery & handtool mfg ..	-	16	4	464	29 336	193	347	7 633	87 695	39 077	124 850	3 915
332212	Hand & edge tool mfg .	-	15	3	e	D	D	D	D	D	D	D	D

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	Oakland, CA PMSA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3323	Architectural & structural metals mfg	1	132	40	3 086	110 991	2 248	4 212	69 398	280 193	182 287	456 351	12 118
33231	Plate work & fabricated structural product mfg ..	—	34	12	917	39 711	658	1 282	24 692	115 211	72 525	188 185	3 498
332312	Fabricated structural metal mfg	—	20	8	673	28 653	485	915	18 892	97 886	57 848	156 121	2 867
33232	Ornamental & architectural metal products mfg	1	98	28	2 169	71 280	1 590	2 930	44 706	164 982	109 762	268 166	8 620
332321	Metal window & door mfg	1	20	7	429	12 186	293	593	6 706	25 820	25 715	51 306	1 284
332322	Sheet metal work mfg ..	1	62	21	1 628	55 913	1 221	2 187	36 125	127 956	80 660	202 228	7 096
3324	Boiler, tank, & shipping container mfg	1	18	12	1 155	49 892	970	2 041	40 312	150 954	292 171	426 528	4 840
33243	Metal can, box, & other metal container (light gauge) mfg	1	15	11	1 114	47 975	941	1 990	39 389	147 569	289 856	420 660	4 766
332431	Metal can mfg	—	7	5	703	35 438	610	1 307	30 499	121 875	253 480	358 539	3 332
332439	Other metal container mfg	6	8	6	411	12 537	331	683	8 890	25 694	36 376	62 121	1 434
3325	Hardware mfg	—	9	6	617	22 141	467	928	13 571	46 480	31 300	77 960	1 286
33251	Hardware mfg	—	9	6	617	22 141	467	928	13 571	46 480	31 300	77 960	1 286
332510	Hardware mfg	—	9	6	617	22 141	467	928	13 571	46 480	31 300	77 960	1 286
3326	Spring & wire product mfg ..	—	14	3	262	10 168	169	378	5 329	17 473	17 313	34 536	4 491
33261	Spring & wire product mfg	—	14	3	262	10 168	169	378	5 329	17 473	17 313	34 536	4 491
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	248	55	3 598	141 142	2 711	5 281	87 614	278 958	129 060	408 821	24 360
33271	Machine shops	1	223	44	3 087	121 878	2 341	4 448	75 593	236 569	111 204	347 987	20 646
332710	Machine shops	1	223	44	3 087	121 878	2 341	4 448	75 593	236 569	111 204	347 987	20 646
33272	Turned product & screw, nut, & bolt mfg	—	25	11	511	19 264	370	833	12 021	42 389	17 856	60 834	3 714
332721	Precision turned product mfg	1	19	6	375	14 154	267	636	8 791	31 709	9 605	41 563	2 390
3328	Coating, engraving, heat treating, & allied activities.	1	55	21	1 203	43 611	885	1 692	25 629	96 159	151 990	247 104	6 287
33281	Coating, engraving, heat treating, & allied activities	1	55	21	1 203	43 611	885	1 692	25 629	96 159	151 990	247 104	6 287
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	—	22	7	507	21 852	328	671	10 678	53 550	139 220	191 548	D
332813	Electroplating, plating, polishing, anodizing, & coloring	4	27	11	591	17 687	479	859	12 188	33 673	10 693	44 534	D
3329	Other fabricated metal product mfg	1	50	22	1 793	69 764	1 245	2 431	41 721	135 947	125 473	268 549	7 388
33291	Metal valve mfg	2	17	9	887	38 514	608	1 168	23 134	42 314	37 363	89 071	4 795
332911	Industrial valve mfg	2	10	8	824	36 639	568	1 091	22 032	37 535	34 187	81 131	D
33299	All other fabricated metal product mfg	—	33	13	906	31 250	637	1 263	18 587	93 633	88 110	179 478	2 593
332999	All other miscellaneous fabricated metal product mfg	—	25	10	745	25 973	508	1 015	14 943	79 652	80 610	157 991	2 316
333	Machinery mfg	—	205	73	10 096	445 812	4 131	7 813	158 644	1 039 990	1 116 872	2 124 390	86 585
3332	Industrial machinery mfg ..	—	53	24	6 690	292 700	2 102	3 823	83 026	717 526	864 980	1 562 856	68 662
33329	Other industrial machinery mfg	—	52	23	i	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg	—	23	16	6 085	263 897	1 727	3 154	71 914	635 651	815 164	1 433 301	64 458
333298	All other industrial machinery mfg	2	16	6	431	22 445	273	469	7 786	72 324	37 884	108 079	3 516
3333	Commercial & service industry machinery mfg ..	3	31	9	676	30 885	368	710	14 201	61 531	31 731	93 308	4 007
33331	Commercial & service industry machinery mfg	3	31	9	676	30 885	368	710	14 201	61 531	31 731	93 308	4 007
333314	Optical instrument & lens mfg	4	9	5	364	18 647	181	353	8 530	37 137	13 813	51 852	2 483
3335	Metalworking machinery mfg	—	46	14	964	43 893	793	1 462	31 539	85 925	38 539	122 328	5 002
33351	Metalworking machinery mfg	—	46	14	964	43 893	793	1 462	31 539	85 925	38 539	122 328	5 002
333512	Machine tool (metal cutting types) mfg ...	—	3	2	e	D	D	D	D	D	D	D	D
333514	Special die & tool, die set, jig, & fixture mfg ..	—	24	5	341	16 396	276	487	10 781	29 221	11 591	40 706	3 230

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	Oakland, CA PMSA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3339	Other general-purpose machinery mfg	2	55	19	1 355	64 291	624	1 344	22 812	133 201	156 167	279 175	7 410
33392	Material handling equipment mfg	2	15	4	e	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	1	38	14	1 003	46 337	432	929	16 040	92 956	132 909	216 425	6 614
333993	Packaging machinery mfg	—	6	3	428	21 955	133	272	5 365	48 135	101 002	139 286	1 655
333999	All other miscellaneous general-purpose machinery mfg	3	14	6	324	13 724	187	428	6 843	25 656	17 916	43 136	4 080
334	Computer & electronic product mfg	1	397	183	24 007	1 127 559	12 591	24 777	383 179	3 638 479	3 998 466	7 645 403	410 466
3341	Computer & peripheral equipment mfg	1	66	29	2 979	174 175	1 049	2 033	50 862	834 750	1 277 496	2 111 751	38 730
33411	Computer & peripheral equipment mfg	1	66	29	2 979	174 175	1 049	2 033	50 862	834 750	1 277 496	2 111 751	38 730
334111	Electronic computer mfg	—	27	11	1 400	79 763	550	1 096	21 799	679 380	942 155	1 621 353	14 036
334119	Other computer peripheral equipment mfg	3	30	15	1 313	78 037	423	779	25 609	134 976	301 974	439 014	20 648
3342	Communications equipment mfg	1	57	29	3 182	191 303	1 022	2 082	34 612	744 043	558 924	1 280 393	88 284
33421	Telephone apparatus mfg	—	25	12	1 815	136 517	441	941	17 598	615 424	471 120	1 066 023	80 015
334210	Telephone apparatus mfg	—	25	12	1 815	136 517	441	941	17 598	615 424	471 120	1 066 023	80 015
33422	Radio & TV broadcasting & wireless communications equipment mfg	4	21	12	953	35 712	346	762	12 547	83 966	52 492	133 342	6 332
334220	Radio & TV broadcasting & wireless communications equipment mfg	4	21	12	953	35 712	346	762	12 547	83 966	52 492	133 342	6 332
33429	Other communications equipment mfg	1	11	5	414	19 074	235	379	4 467	44 653	35 312	81 028	1 937
334290	Other communications equipment mfg	1	11	5	414	19 074	235	379	4 467	44 653	35 312	81 028	1 937
3344	Semiconductor & other electronic component mfg	2	139	59	7 247	257 086	5 174	9 558	135 821	624 515	1 039 854	1 699 304	117 137
33441	Semiconductor & other electronic component mfg	2	139	59	7 247	257 086	5 174	9 558	135 821	624 515	1 039 854	1 699 304	117 137
334412	Bare printed circuit board mfg	—	33	15	2 161	66 028	1 736	3 067	44 012	150 714	148 297	297 130	38 429
334413	Semiconductor & related device mfg	2	39	12	1 115	50 496	623	1 154	15 728	168 770	133 224	296 606	33 982
334417	Electronic connector mfg	6	3	2	e	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	1	25	17	2 695	88 730	2 019	3 794	50 877	182 199	673 924	900 876	21 433
334419	Other electronic component mfg	5	32	12	943	40 538	584	1 114	19 527	101 966	71 749	170 114	20 279
3345	Navigational, measuring, medical, & control instruments mfg	1	99	47	5 364	278 980	2 043	4 055	64 590	737 337	464 327	1 199 884	46 132
33451	Navigational, measuring, medical, & control instruments mfg	1	99	47	5 364	278 980	2 043	4 055	64 590	737 337	464 327	1 199 884	46 132
334510	Electromedical & electrotherapeutic apparatus mfg	—	8	4	614	30 958	236	457	7 329	79 774	41 435	123 092	6 849
334515	Electricity measuring & testing instrument mfg	3	23	14	1 323	73 132	504	1 104	19 381	240 136	133 391	374 857	12 735
334516	Analytical laboratory instrument mfg	—	21	13	1 841	97 255	661	1 380	20 729	266 959	143 214	406 245	12 281
334517	Irradiation apparatus mfg	—	4	1	e	D	D	D	D	D	D	D	D
334519	Other measuring & controlling device mfg	1	14	7	553	25 627	208	370	6 128	55 809	29 046	86 133	2 759

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	Oakland, CA PMSA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3346	Mfg & reproducing magnetic & optical media	2	28	15	5 047	218 888	3 198	6 830	94 677	684 094	632 476	1 313 414	119 859
33461	Mfg & reproducing magnetic & optical media	2	28	15	5 047	218 888	3 198	6 830	94 677	684 094	632 476	1 313 414	119 859
334611	Software reproducing	1	9	5	541	18 297	443	1 083	12 549	63 819	33 180	96 999	11 406
334612	Prerecorded CD (except software), tape, & record reproducing	3	6	4	890	25 685	757	1 616	17 865	129 819	83 769	216 021	8 195
334613	Magnetic & optical recording media mfg	2	13	6	3 616	174 906	1 998	4 131	64 263	490 456	515 527	1 000 394	100 258
335	Electrical equipment, appliance, & component mfg	—	65	26	2 264	92 223	1 285	2 456	33 942	230 769	177 068	409 431	12 723
3351	Electric lighting equipment mfg	—	23	10	1 037	39 893	576	1 145	14 826	93 787	63 459	159 420	5 009
33512	Lighting fixture mfg	—	23	10	1 037	39 893	576	1 145	14 826	93 787	63 459	159 420	5 009
335122	Commercial/industrial/institutional electric lighting fixture mfg	—	10	6	656	27 116	357	722	9 762	67 202	31 395	101 059	3 018
335129	Other lighting equipment mfg	—	4	2	e	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg	2	22	6	478	22 771	250	428	8 238	65 242	44 257	109 556	2 221
33531	Electrical equipment mfg	2	22	6	478	22 771	250	428	8 238	65 242	44 257	109 556	2 221
335314	Relay & industrial control mfg	2	12	4	267	14 407	102	189	3 013	38 503	21 027	59 421	1 206
3359	Other electrical equipment & component mfg	—	20	10	749	29 559	459	883	10 878	71 740	69 352	140 455	5 493
33593	Wiring device mfg	—	5	3	e	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	—	14	7	456	18 227	243	422	6 696	34 269	40 044	73 629	2 433
335999	All other miscellaneous electrical equipment & component mfg	—	13	7	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	81	23	7 331	389 738	6 334	11 725	329 153	761 606	2 511 199	3 275 307	D
3361	Motor vehicle mfg	—	2	2	i	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	—	1	1	h	D	D	D	D	D	D	D	D
336111	Automobile mfg	—	1	1	h	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg	—	1	1	f	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg	—	1	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg	2	40	13	1 078	35 223	797	1 717	20 652	90 778	153 392	246 470	D
33632	Motor vehicle electrical & electronic equipment mfg	4	13	6	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	3	12	5	e	D	D	D	D	D	D	D	D
33636	Motor vehicle seating & interior trim mfg	—	3	1	e	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg	—	3	1	e	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	—	7	2	e	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	7	2	e	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg	—	2	2	e	D	D	D	D	D	D	D	D
3366	Ship & boat building	2	21	2	416	14 811	354	726	12 464	25 602	11 916	37 535	D
33661	Ship & boat building	2	21	2	416	14 811	354	726	12 464	25 602	11 916	37 535	D
336611	Ship building & repairing	1	16	2	386	13 927	330	685	11 796	23 138	11 093	34 231	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	Oakland, CA PMSA—Con.												
31-33	Manufacturing—Con.												
337	Furniture & related product mfg	1	168	32	2 319	64 604	1 845	3 525	43 179	153 730	112 638	265 445	4 468
3371	Household & institutional furniture & kitchen cabinet mfg	4	121	9	870	21 374	734	1 361	16 038	43 639	36 193	80 034	1 800
33711	Wood kitchen cabinet & counter top mfg	3	70	3	376	10 335	309	603	7 798	22 986	15 197	38 184	900
337110	Wood kitchen cabinet & counter top mfg ...	3	70	3	376	10 335	309	603	7 798	22 986	15 197	38 184	900
33712	Household & institutional furniture mfg	5	51	6	494	11 039	425	758	8 240	20 653	20 996	41 850	900
3372	Office furniture (including fixtures) mfg	1	37	18	1 001	31 159	779	1 466	19 727	59 466	32 188	90 602	1 584
33721	Office furniture (including fixtures) mfg	1	37	18	1 001	31 159	779	1 466	19 727	59 466	32 188	90 602	1 584
337211	Wood office furniture mfg	1	12	6	496	13 349	418	749	9 446	22 891	14 946	37 794	891
337215	Showcase, partition, shelving, & locker mfg	2	14	8	271	9 771	199	387	5 947	22 340	9 277	31 492	326
3379	Other furniture related product mfg	—	10	5	448	12 071	332	698	7 414	50 625	44 257	94 809	1 084
33791	Mattress mfg	—	7	4	403	10 881	297	628	6 801	49 184	42 826	91 922	D
337910	Mattress mfg	—	7	4	403	10 881	297	628	6 801	49 184	42 826	91 922	D
339	Miscellaneous mfg	2	298	47	4 948	179 384	2 866	5 616	74 697	333 141	202 814	533 555	21 467
3391	Medical equipment & supplies mfg	1	158	25	2 921	123 928	1 504	3 032	47 051	212 182	124 136	333 232	16 381
33911	Medical equipment & supplies mfg	1	158	25	2 921	123 928	1 504	3 032	47 051	212 182	124 136	333 232	16 381
339112	Surgical & medical instrument mfg	—	27	9	1 641	84 547	622	1 385	24 027	128 989	91 910	217 625	12 104
339116	Dental laboratories ...	4	96	5	789	24 665	590	1 040	15 450	47 480	13 303	61 200	1 359
3399	Other miscellaneous mfg ..	2	140	22	2 027	55 456	1 362	2 584	27 646	120 959	78 678	200 323	5 086
33994	Office supplies (except paper) mfg	1	13	3	505	10 815	404	918	7 785	27 731	11 947	39 520	246
339943	Marking device mfg ...	—	10	3	e	D	D	D	D	D	D	D	230
33995	Sign mfg	1	38	6	576	22 242	294	522	7 455	41 153	22 591	64 880	1 229
339950	Sign mfg	1	38	6	576	22 242	294	522	7 455	41 153	22 591	64 880	1 229
33999	All other miscellaneous mfg	4	43	8	534	12 010	382	635	7 162	30 098	22 010	51 699	2 246
339999	All other miscellaneous mfg	4	31	6	434	9 463	317	506	5 653	24 879	18 344	42 849	2 095
	San Francisco, CA PMSA												
31-33	Manufacturing	2	2 607	637	64 080	2 451 959	42 062	80 298	1 097 095	6 696 333	4 674 991	11 325 192	486 316
311	Food mfg	3	280	76	6 679	193 944	4 607	8 238	104 960	607 380	484 095	1 095 516	28 760
3113	Sugar & confectionery product mfg	—	23	7	1 187	39 096	951	1 844	25 394	171 717	120 042	293 128	6 871
31132	Chocolate & confectionery mfg from cacao beans	—	3	2	e	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans ...	—	3	2	e	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate ...	—	16	4	875	26 875	724	1 366	18 084	125 696	59 379	186 046	3 817
311330	Confectionery mfg from purchased chocolate	—	16	4	875	26 875	724	1 366	18 084	125 696	59 379	186 046	3 817
3116	Meat product mfg	3	18	11	661	19 755	505	920	13 026	91 515	101 744	195 512	4 020
31161	Animal slaughtering & processing	3	18	11	661	19 755	505	920	13 026	91 515	101 744	195 512	4 020
311612	Meat processed from carcasses	3	16	10	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	5	148	35	3 368	96 381	2 028	3 311	42 563	232 640	114 027	346 839	10 718
31181	Bread & bakery product mfg	5	132	31	3 076	90 680	1 797	2 969	38 731	217 640	99 577	317 481	9 929
311811	Retail bakeries	7	88	7	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ...	5	41	22	2 258	77 391	1 194	2 090	30 512	186 883	82 306	269 485	8 497
3119	Other food mfg	2	45	13	794	19 996	606	1 142	11 699	51 705	77 587	130 248	2 929
31199	All other food mfg	3	27	9	596	11 933	459	863	7 762	30 054	21 957	52 046	1 724
311991	Perishable prepared food mfg	1	7	5	326	4 852	248	458	3 123	6 858	10 915	17 805	871
311999	All other miscellaneous food mfg	3	20	4	270	7 081	211	405	4 639	23 196	11 042	34 241	853

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	San Francisco, CA PMSA—Con.												
31-33	Manufacturing—Con.												
312	Beverage & tobacco product mfg	—	19	6	599	23 111	317	659	15 803	215 314	110 999	325 781	5 386
3121	Beverage mfg	—	19	6	599	23 111	317	659	15 803	215 314	110 999	325 781	5 386
314	Textile product mills	4	72	10	772	14 737	549	992	8 314	28 687	28 813	58 139	1 214
3141	Textile furnishings mills	3	36	4	334	6 228	220	399	3 231	11 009	14 299	25 448	385
31412	Curtain & linen mills	2	34	4	e	D	D	D	D	D	D	D	D
3149	Other textile product mills	5	36	6	438	8 509	329	593	5 083	17 678	14 514	32 691	829
31499	All other textile product mills	5	20	6	357	6 999	266	483	4 154	14 233	11 323	25 856	530
314999	All other miscellaneous textile product mills	5	19	5	e	D	D	D	D	D	D	D	D
315	Apparel mfg	—	359	158	12 626	242 643	10 721	20 022	158 025	1 059 422	1 379 473	2 421 451	12 507
3151	Apparel knitting mills	—	8	7	739	14 381	657	1 548	10 988	25 286	15 796	42 763	665
31519	Other apparel knitting mills	—	8	7	739	14 381	657	1 548	10 988	25 286	15 796	42 763	665
315191	Outerwear knitting mills	—	8	7	739	14 381	657	1 548	10 988	25 286	15 796	42 763	665
3152	Cut & sew apparel mfg	—	327	149	11 566	218 340	9 820	17 980	142 796	1 008 983	1 340 732	2 332 447	10 897
31521	Cut & sew apparel contractors	5	204	91	5 211	68 197	4 840	8 925	60 738	104 988	21 984	126 800	2 989
315211	Men's & boys' cut & sew apparel contractors	1	11	7	429	6 501	408	801	5 529	11 316	3 622	14 938	211
315212	Women's, girls', & infants' cut & sew apparel contractors	6	193	84	4 782	61 696	4 432	8 124	55 209	93 672	18 362	111 862	2 778
31522	Men's & boys' cut & sew apparel mfg	—	23	17	g	D	D	D	D	D	D	D	1 065
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	—	5	4	f	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	—	4	3	f	D	D	D	D	D	D	D	D
315225	Men's & boys' cut & sew work clothing mfg	6	4	3	e	D	D	D	D	D	D	D	D
315228	Men's & boys' cut & sew other outerwear mfg	—	5	5	e	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	—	84	36	3 531	92 387	2 443	4 017	37 707	201 518	312 153	512 202	6 273
315232	Women's & girls' cut & sew blouse & shirt mfg	—	29	15	1 594	39 489	1 194	1 669	16 142	82 137	143 467	221 419	4 243
315233	Women's & girls' cut & sew dress mfg	—	17	7	1 059	33 600	624	1 203	11 455	77 865	125 255	207 937	D
315234	Women's & girls' cut & sew suit, coat, skirt mfg	1	13	5	e	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	2	22	7	509	11 734	349	632	6 447	25 121	28 263	51 758	383
31529	Other cut & sew apparel mfg	8	16	5	e	D	D	D	D	D	D	D	570
3159	Apparel accessories & other apparel mfg	—	24	2	321	9 922	244	494	4 241	25 153	22 945	46 241	945
31599	Apparel accessories & other apparel mfg	—	24	2	321	9 922	244	494	4 241	25 153	22 945	46 241	945
315999	Other apparel accessories & other apparel mfg	—	20	1	282	9 237	215	445	3 849	24 655	22 336	45 125	D
316	Leather & allied product mfg	1	15	5	398	9 110	317	634	6 140	16 759	13 943	30 866	D
3169	Other leather & allied product mfg	—	10	3	305	5 575	240	463	3 599	12 284	8 349	20 760	D
31699	Other leather & allied product mfg	—	10	3	305	5 575	240	463	3 599	12 284	8 349	20 760	D
321	Wood product mfg	1	36	5	314	10 496	233	492	6 725	18 941	20 932	39 780	1 097
3219	Other wood product mfg	1	36	5	314	10 496	233	492	6 725	18 941	20 932	39 780	1 097
322	Paper mfg	2	23	10	925	34 676	737	1 465	23 408	66 965	98 665	165 401	6 899
3222	Converted paper product mfg	2	23	10	925	34 676	737	1 465	23 408	66 965	98 665	165 401	6 899
32221	Paperboard container mfg	—	8	3	343	14 465	287	545	9 360	27 450	54 595	82 137	4 229
322211	Corrugated & solid fiber box mfg	—	5	3	322	13 938	269	509	8 946	26 174	51 788	77 983	D
32223	Stationery product mfg	5	11	6	f	D	D	D	D	D	D	D	D
322232	Envelope mfg	5	5	5	412	13 753	325	657	9 545	24 199	31 889	55 743	1 488

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	San Francisco, CA PMSA—Con.												
31-33	Manufacturing—Con.												
323	Printing & related support activities.....	2	487	92	6 969	266 412	4 902	9 675	160 283	519 106	265 165	785 528	44 208
3231	Printing & related support activities.....	2	487	92	6 969	266 412	4 902	9 675	160 283	519 106	265 165	785 528	44 208
32311	Printing.....	3	405	73	5 595	211 095	3 894	7 635	123 761	410 298	242 237	652 743	37 331
323110	Commercial lithographic printing ..	3	231	50	3 784	155 415	2 599	5 252	92 996	294 978	172 761	467 848	30 720
323113	Commercial screen printing.....	6	32	5	391	10 179	312	593	6 317	19 272	18 557	37 411	1 109
323114	Quick printing.....	2	88	5	650	15 296	451	763	9 237	32 577	16 028	46 789	2 347
323117	Book printing.....	—	10	6	381	17 364	269	522	8 576	35 924	17 747	53 977	930
323119	Other commercial printing.....	7	30	5	256	6 430	173	339	4 017	13 179	8 126	21 329	806
32312	Support activities for printing.....	1	82	19	1 374	55 317	1 008	2 040	36 522	108 808	22 928	132 785	6 877
323121	Tradebinding & related work.....	1	18	6	366	10 233	327	679	8 122	21 203	4 515	25 968	1 046
323122	Prepress services.....	1	64	13	1 008	45 084	681	1 361	28 400	87 605	18 413	106 817	5 831
325	Chemical mfg.....	1	79	20	4 542	282 528	1 793	3 752	48 678	1 003 110	224 934	1 207 000	173 692
3254	Pharmaceutical & medicine mfg.....	—	29	10	3 846	256 326	1 361	2 892	31 829	879 853	87 498	942 411	D
32541	Pharmaceutical & medicine mfg.....	—	29	10	3 846	256 326	1 361	2 892	31 829	879 853	87 498	942 411	D
325412	Pharmaceutical preparation mfg.....	—	11	4	h	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) mfg.....	7	10	4	439	16 225	310	737	10 239	31 948	22 962	54 468	3 777
3255	Paint, coating, & adhesive mfg.....	—	9	5	351	13 510	205	405	9 086	69 526	102 127	177 752	2 262
32551	Paint & coating mfg.....	—	9	5	351	13 510	205	405	9 086	69 526	102 127	177 752	2 262
325510	Paint & coating mfg.....	—	9	5	351	13 510	205	405	9 086	69 526	102 127	177 752	2 262
326	Plastics & rubber products mfg.....	1	60	20	4 472	254 998	2 366	3 972	72 988	603 602	320 162	910 393	55 983
3261	Plastics product mfg.....	1	51	19	4 306	251 293	2 232	3 694	70 115	584 918	311 447	883 124	55 777
32619	Other plastics product mfg.....	1	41	17	4 034	243 538	1 985	3 192	63 397	563 658	296 930	847 022	52 238
326199	All other plastics product mfg.....	1	40	17	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	5	72	16	1 081	39 940	856	1 805	29 444	84 429	93 485	178 127	5 943
3271	Clay product & refractory mfg.....	3	18	5	304	8 305	232	459	5 266	14 627	5 637	20 176	622
3273	Cement & concrete product mfg.....	4	21	9	584	25 520	469	1 019	19 773	54 731	76 897	131 706	4 107
32732	Ready-mix concrete mfg.....	5	13	6	453	21 502	356	800	16 570	46 639	69 032	115 814	3 759
327320	Ready-mix concrete mfg.....	5	13	6	453	21 502	356	800	16 570	46 639	69 032	115 814	3 759
331	Primary metal mfg.....	—	10	2	784	25 399	596	1 021	10 994	32 688	53 000	83 939	4 179
3314	Nonferrous metal (except aluminum) production & processing.....	—	3	2	f	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, & alloying ...	—	1	1	e	D	D	D	D	D	D	D	D
331422	Copper wire (except mechanical) drawing.	—	1	1	e	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying ...	—	1	1	e	D	D	D	D	D	D	D	D
331491	Other nonferrous metal rolling, drawing, & extruding.....	—	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	1	294	60	4 710	177 177	3 634	7 077	116 916	394 666	203 436	598 564	22 374
3321	Forging & stamping.....	—	14	5	550	22 357	401	851	15 392	67 718	24 395	91 964	3 453
33211	Forging & stamping.....	—	14	5	550	22 357	401	851	15 392	67 718	24 395	91 964	3 453
332116	Metal stamping.....	—	11	4	517	21 082	380	808	14 781	64 841	22 411	87 116	D
3323	Architectural & structural metals mfg.....	2	68	13	772	25 964	530	1 014	15 378	52 479	33 687	86 167	2 919
33232	Ornamental & architectural metal products mfg.....	2	55	12	678	22 147	473	888	13 518	45 024	25 874	70 947	2 452
332322	Sheet metal work mfg.....	2	26	8	410	13 559	298	578	8 981	27 712	14 968	42 548	1 718
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	2	119	18	1 398	58 236	1 116	2 190	39 568	103 497	39 772	142 474	8 123
33271	Machine shops.....	2	106	15	1 167	48 246	930	1 827	32 505	84 401	30 677	114 395	6 412
332710	Machine shops.....	2	106	15	1 167	48 246	930	1 827	32 505	84 401	30 677	114 395	6 412

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	San Francisco, CA PMSA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3328	Coating, engraving, heat treating, & allied activities.	2	38	11	810	25 370	637	1 299	18 199	62 199	55 844	119 564	3 784
33281	Coating, engraving, heat treating, & allied activities.	2	38	11	810	25 370	637	1 299	18 199	62 199	55 844	119 564	3 784
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	—	16	5	296	9 074	225	422	6 000	27 028	43 858	72 258	D
332813	Electroplating, plating, polishing, anodizing, & coloring	3	20	5	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	—	30	9	702	28 454	562	994	16 087	50 709	25 330	75 706	2 622
33299	All other fabricated metal product mfg	—	27	8	f	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg	—	18	7	468	16 582	382	708	10 299	30 650	18 056	49 027	1 364
333	Machinery mfg	4	89	15	1 241	53 565	706	1 439	22 316	112 424	95 836	207 603	6 639
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	4	13	4	264	10 814	183	403	5 295	26 339	20 362	46 446	1 005
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	4	13	4	264	10 814	183	403	5 295	26 339	20 362	46 446	1 005
3339	Other general-purpose machinery mfg	1	25	5	400	15 453	226	442	6 472	40 272	27 341	66 483	2 851
33399	All other general-purpose machinery mfg	—	17	3	310	11 740	164	320	4 303	32 367	19 885	51 017	2 268
334	Computer & electronic product mfg	2	145	55	9 969	529 387	4 433	8 907	172 136	1 253 121	892 485	2 157 551	82 556
3341	Computer & peripheral equipment mfg	9	18	9	444	22 736	136	288	5 668	45 220	28 217	73 453	2 346
33411	Computer & peripheral equipment mfg	9	18	9	444	22 736	136	288	5 668	45 220	28 217	73 453	2 346
3342	Communications equipment mfg	5	25	10	3 083	182 682	945	1 880	29 138	530 439	257 080	807 944	29 587
33421	Telephone apparatus mfg	7	11	5	1 718	118 103	280	599	12 839	332 181	164 786	518 256	19 373
334210	Telephone apparatus mfg	7	11	5	1 718	118 103	280	599	12 839	332 181	164 786	518 256	19 373
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	12	5	g	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	12	5	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	1	42	15	2 426	81 288	1 641	3 507	48 638	155 159	124 525	279 114	11 355
33441	Semiconductor & other electronic component mfg	1	42	15	2 426	81 288	1 641	3 507	48 638	155 159	124 525	279 114	11 355
334411	Electron tube mfg	—	3	2	882	34 855	647	1 445	27 249	65 916	30 475	95 314	4 822
334418	Printed circuit assembly (electronic assembly) mfg	—	3	3	808	17 831	533	961	7 678	36 792	51 687	87 247	1 358
334419	Other electronic component mfg	3	13	3	317	9 841	154	202	2 801	20 033	23 094	44 654	1 038
3345	Navigational, measuring, medical, & control instruments mfg	—	46	17	3 842	236 697	1 592	2 985	85 763	513 100	463 540	968 315	37 234
33451	Navigational, measuring, medical, & control instruments mfg	—	46	17	3 842	236 697	1 592	2 985	85 763	513 100	463 540	968 315	37 234
334510	Electromedical & electrotherapeutic apparatus mfg	—	8	5	1 266	80 414	383	593	16 208	136 693	148 966	282 520	11 134
334511	Search, detection, navigation, & guidance instrument mfg	—	6	4	783	42 870	394	734	20 638	79 165	43 045	120 513	1 812
334516	Analytical laboratory instrument mfg	—	12	4	1 516	101 015	693	1 439	44 617	272 081	261 207	529 330	23 033

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	San Francisco, CA PMSA—Con.												
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	3	34	12	1 141	58 210	657	1 290	21 819	94 286	74 696	166 432	6 580
3353	Electrical equipment mfg ..	—	10	3	291	12 911	199	394	7 285	24 737	22 115	44 634	420
33531	Electrical equipment mfg	—	10	3	291	12 911	199	394	7 285	24 737	22 115	44 634	420
3359	Other electrical equipment & component mfg	4	9	6	708	40 960	370	752	12 607	56 607	41 001	97 137	5 953
33593	Wiring device mfg	8	3	2	e	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	2	5	4	e	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment & component mfg	2	4	3	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	5	43	9	893	32 256	708	1 399	23 319	71 928	46 859	118 719	2 932
3366	Ship & boat building	9	8	3	402	16 739	340	781	14 184	34 947	12 252	47 218	D
33661	Ship & boat building	9	8	3	402	16 739	340	781	14 184	34 947	12 252	47 218	D
336611	Ship building & repairing	9	5	3	378	16 002	321	738	13 667	33 380	10 412	43 792	D
337	Furniture & related product mfg	3	163	21	1 807	60 288	1 387	2 707	35 901	122 558	71 385	192 520	4 738
3371	Household & institutional furniture & kitchen cabinet mfg	4	126	12	1 100	34 991	829	1 685	21 368	64 428	42 855	106 754	D
33711	Wood kitchen cabinet & counter top mfg	3	67	5	469	16 345	315	566	8 528	27 631	13 166	40 750	1 131
337110	Wood kitchen cabinet & counter top mfg	3	67	5	469	16 345	315	566	8 528	27 631	13 166	40 750	1 131
33712	Household & institutional furniture mfg	5	59	7	631	18 646	514	1 119	12 840	36 797	29 689	66 004	D
3372	Office furniture (including fixtures) mfg	1	32	7	630	23 483	498	912	13 364	55 105	25 097	79 270	2 174
33721	Office furniture (including fixtures) mfg	1	32	7	630	23 483	498	912	13 364	55 105	25 097	79 270	2 174
337211	Wood office furniture mfg	—	5	2	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	2	298	42	3 916	134 610	2 370	4 449	54 033	367 904	161 512	523 714	18 468
3391	Medical equipment & supplies mfg	2	136	13	1 972	85 665	1 106	2 068	29 626	250 338	87 810	336 720	13 851
33911	Medical equipment & supplies mfg	2	136	13	1 972	85 665	1 106	2 068	29 626	250 338	87 810	336 720	13 851
339112	Surgical & medical instrument mfg	4	24	5	675	35 224	303	602	9 378	79 067	34 224	112 731	4 037
339113	Surgical appliance & supplies mfg	1	8	3	397	21 557	226	437	7 339	36 955	20 427	58 557	3 737
339115	Ophthalmic goods mfg	—	3	1	e	D	D	D	D	D	D	D	D
339116	Dental laboratories	5	88	1	340	8 616	257	397	5 128	19 407	8 350	28 095	733
3399	Other miscellaneous mfg ..	3	162	29	1 944	48 945	1 264	2 381	24 407	117 566	73 702	186 994	4 617
33991	Jewelry & silverware mfg	6	56	4	401	8 188	284	451	4 533	17 689	13 394	30 707	622
33999	All other miscellaneous mfg	1	45	13	792	21 609	560	1 175	11 288	42 215	26 577	68 256	1 749
339999	All other miscellaneous mfg	1	32	10	671	18 224	485	1 030	9 603	34 826	22 200	56 571	1 484
	San Jose, CA PMSA												
31-33	Manufacturing	—	3 464	1 199	249 947	13 093 977	116 800	240 863	4 149 520	44 011 275	28 486 651	72 528 275	4 246 704
311	Food mfg	2	142	39	5 082	136 832	3 952	7 238	93 228	496 315	815 822	1 335 826	21 174
3114	Fruit & vegetable preserving & specialty food mfg	—	17	13	2 886	80 979	2 365	4 457	57 370	287 986	408 871	721 127	8 783
31141	Frozen food mfg	—	4	3	265	7 316	200	473	5 321	47 109	21 748	68 847	1 017
31142	Fruit & vegetable canning, pickling, & drying	—	13	10	2 621	73 663	2 165	3 984	52 049	240 877	387 123	652 280	7 766
311421	Fruit & vegetable canning	—	9	7	1 231	31 152	1 101	1 898	25 272	164 358	170 982	335 224	3 485
311423	Dried & dehydrated food mfg	1	4	3	1 390	42 511	1 064	2 086	26 777	76 519	216 141	317 056	4 281
3115	Dairy product mfg	5	8	4	650	18 353	532	1 031	14 508	83 585	246 938	329 815	6 598
31151	Dairy product (except frozen) mfg	6	5	3	591	16 762	493	973	13 461	77 471	233 482	310 305	D
311513	Cheese mfg	7	2	2	f	D	D	D	D	D	D	D	D

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	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	San Jose, CA PMSA—Con.												
31-33	Manufacturing—Con.												
311	Food mfg—Con.												
3116	Meat product mfg.....	2	12	5	266	7 647	192	396	4 581	28 508	41 676	69 893	1 191
31161	Animal slaughtering & processing.....	2	12	5	266	7 647	192	396	4 581	28 508	41 676	69 893	1 191
3118	Bakeries & tortilla mfg.....	3	76	10	665	12 833	402	667	6 615	33 003	15 453	48 524	1 313
31181	Bread & bakery product mfg.....	2	71	10	641	12 401	381	639	6 294	31 713	14 355	46 121	1 175
311811	Retail bakeries.....	4	52	3	316	5 290	190	268	3 057	13 111	5 934	19 101	320
3119	Other food mfg.....	2	19	5	426	11 131	323	480	7 396	50 829	42 505	93 233	2 476
312	Beverage & tobacco product mfg.....	3	21	4	390	13 587	130	187	3 579	36 689	39 644	74 013	7 308
3121	Beverage mfg.....	3	21	4	390	13 587	130	187	3 579	36 689	39 644	74 013	7 308
315	Apparel mfg.....	1	20	6	345	7 050	249	423	3 368	13 895	15 072	29 022	D
321	Wood product mfg.....	6	26	9	677	18 794	520	983	11 408	39 230	30 310	69 208	2 308
3219	Other wood product mfg...	6	23	8	651	18 164	499	950	10 920	37 035	28 113	64 759	D
32192	Wood container & pallet mfg.....	7	9	4	340	9 008	271	537	5 410	18 041	12 296	29 823	513
321920	Wood container & pallet mfg.....	7	9	4	340	9 008	271	537	5 410	18 041	12 296	29 823	513
322	Paper mfg.....	1	28	19	1 625	63 241	1 236	2 496	42 476	168 106	241 587	406 700	11 897
3221	Pulp, paper, & paperboard mills.....	—	2	2	e	D	D	D	D	D	D	D	D
32213	Paperboard mills.....	—	2	2	e	D	D	D	D	D	D	D	D
322130	Paperboard mills.....	—	2	2	e	D	D	D	D	D	D	D	D
3222	Converted paper product mfg.....	1	26	17	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg.....	1	15	14	1 138	45 340	857	1 732	30 522	104 579	179 402	281 061	9 278
322211	Corrugated & solid fiber box mfg.....	1	10	10	865	35 666	635	1 266	23 517	78 857	142 272	219 866	9 108
323	Printing & related support activities.....	3	344	58	5 488	188 576	3 997	7 459	117 067	394 647	214 710	610 556	40 832
3231	Printing & related support activities.....	3	344	58	5 488	188 576	3 997	7 459	117 067	394 647	214 710	610 556	40 832
32311	Printing.....	3	302	50	4 889	170 458	3 586	6 698	106 636	362 350	207 387	570 914	39 044
323110	Commercial lithographic printing..	3	135	24	1 754	58 823	1 301	2 462	36 002	117 940	67 989	185 349	15 958
323111	Commercial gravure printing.....	5	4	2	f	D	D	D	D	D	D	D	D
323112	Commercial flexographic printing..	—	7	3	283	9 291	181	382	4 715	15 539	6 270	21 754	423
323113	Commercial screen printing.....	3	27	3	463	15 433	309	715	8 300	35 282	14 625	49 913	1 544
323114	Quick printing.....	2	81	7	580	19 067	395	667	10 912	37 917	21 214	59 157	2 356
323116	Manifold business form printing.....	—	3	2	e	D	D	D	D	D	D	D	D
323117	Book printing.....	3	13	7	466	20 516	376	793	11 819	42 019	29 942	73 505	3 415
32312	Support activities for printing.....	3	42	8	599	18 118	411	761	10 431	32 297	7 323	39 642	1 788
323121	Tradebinding & related work.....	5	10	4	282	6 545	230	416	4 671	11 335	2 613	13 963	690
323122	Prepress services.....	2	32	4	317	11 573	181	345	5 760	20 962	4 710	25 679	1 098
325	Chemical mfg.....	—	58	23	2 164	136 193	906	1 775	46 689	557 023	173 040	732 250	41 449
3254	Pharmaceutical & medicine mfg.....	—	20	11	1 543	114 453	508	1 025	35 790	351 035	107 137	459 262	29 858
32541	Pharmaceutical & medicine mfg.....	—	20	11	1 543	114 453	508	1 025	35 790	351 035	107 137	459 262	29 858
325412	Pharmaceutical preparation mfg.....	1	8	6	347	18 809	244	496	9 126	126 270	61 789	190 205	D
325413	In-vitro diagnostic substance mfg.....	—	6	3	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	6	82	34	3 380	117 930	2 491	4 989	72 884	281 246	236 912	515 165	34 816
3261	Plastics product mfg.....	6	67	30	3 028	108 292	2 193	4 441	65 991	263 106	214 578	474 643	33 469
32619	Other plastics product mfg.....	6	50	24	2 666	97 161	1 908	3 877	58 000	239 156	171 564	408 104	28 574
326199	All other plastics product mfg.....	6	48	23	g	D	D	D	D	D	D	D	D
3262	Rubber product mfg.....	1	15	4	352	9 638	298	548	6 893	18 140	22 334	40 522	1 347
32629	Other rubber product mfg.....	1	9	3	252	8 056	208	387	5 604	14 738	17 572	32 469	D

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	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	San Jose, CA PMSA—Con.												
31-33	Manufacturing—Con.												
327	Nonmetallic mineral product mfg.....	-	73	31	2 422	90 425	1 839	3 905	65 697	306 916	201 706	511 615	25 579
3272	Glass & glass product mfg.	2	20	4	310	11 849	223	385	7 603	21 075	13 133	34 803	1 446
32721	Glass & glass product mfg.....	2	20	4	310	11 849	223	385	7 603	21 075	13 133	34 803	1 446
327215	Glass product mfg made of purchased glass.....	1	16	4	283	10 627	205	341	6 640	17 556	11 760	29 895	1 104
3273	Cement & concrete product mfg.....	-	28	17	1 039	42 243	821	1 809	30 186	167 181	129 083	295 778	14 328
32731	Cement mfg.....	-	4	1	e	D	D	D	D	D	D	D	D
327310	Cement mfg.....	-	4	1	e	D	D	D	D	D	D	D	D
32732	Ready-mix concrete mfg.	-	10	7	346	16 040	301	735	13 537	52 268	64 319	116 657	3 374
327320	Ready-mix concrete mfg.....	-	10	7	346	16 040	301	735	13 537	52 268	64 319	116 657	3 374
32739	Other concrete product mfg.....	1	9	6	308	7 675	250	495	5 667	22 285	11 139	34 333	2 924
327390	Other concrete product mfg.....	1	9	6	308	7 675	250	495	5 667	22 285	11 139	34 333	2 924
3279	Other nonmetallic mineral product mfg.....	1	10	5	834	29 388	601	1 354	23 129	104 193	51 560	157 985	8 895
32799	All other nonmetallic mineral product mfg....	-	8	3	f	D	D	D	D	D	D	D	D
327993	Mineral wool mfg.....	-	2	1	e	D	D	D	D	D	D	D	D
327999	All other miscellaneous nonmetallic mineral product mfg.....	-	4	2	e	D	D	D	D	D	D	D	D
331	Primary metal mfg.....	1	19	8	405	13 512	327	673	9 747	27 892	21 814	49 410	1 395
3315	Foundries.....	1	11	6	260	9 196	208	498	6 888	16 237	11 603	27 735	1 207
332	Fabricated metal product mfg.....	1	764	220	16 647	593 639	13 176	27 186	397 402	1 192 471	656 083	1 846 767	82 791
3321	Forging & stamping.....	3	21	11	696	24 779	551	1 190	15 806	44 077	43 104	88 101	3 878
33211	Forging & stamping.....	3	21	11	696	24 779	551	1 190	15 806	44 077	43 104	88 101	3 878
332116	Metal stamping.....	3	18	11	670	23 868	528	1 149	15 153	42 299	41 384	84 593	D
3323	Architectural & structural metals mfg.....	1	120	56	5 159	181 048	3 977	8 457	116 801	340 077	278 142	617 868	20 716
33231	Plate work & fabricated structural product mfg..	2	19	5	320	11 619	249	502	7 885	27 124	16 270	43 375	824
33232	Ornamental & architectural metal products mfg.....	1	101	51	4 839	169 429	3 728	7 955	108 916	312 953	261 872	574 493	19 892
332322	Sheet metal work mfg.	1	84	48	4 648	163 568	3 574	7 675	105 541	300 975	253 329	554 285	19 623
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	1	474	96	7 006	266 624	5 678	11 498	185 542	538 520	210 207	744 429	38 923
33271	Machine shops.....	1	441	81	6 186	233 575	5 018	10 200	160 656	471 958	182 394	652 675	33 969
332710	Machine shops.....	1	441	81	6 186	233 575	5 018	10 200	160 656	471 958	182 394	652 675	33 969
33272	Turned product & screw, nut, & bolt mfg.....	1	33	15	820	33 049	660	1 298	24 886	66 562	27 813	91 754	4 954
332721	Precision turned product mfg.....	1	31	14	f	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, & allied activities.	1	86	40	2 769	84 515	2 182	4 577	56 999	170 962	69 029	242 197	10 465
33281	Coating, engraving, heat treating, & allied activities.....	1	86	40	2 769	84 515	2 182	4 577	56 999	170 962	69 029	242 197	10 465
332812	Metal coating/engraving (exc jewelry/silverware)/allied services.....	5	28	8	574	17 438	456	867	11 817	35 447	12 964	48 363	D
332813	Electroplating, plating, polishing, anodizing, & coloring.....	-	54	30	2 126	64 129	1 675	3 596	43 513	128 914	54 472	185 642	8 102
3329	Other fabricated metal product mfg.....	3	35	8	418	15 658	318	596	9 286	33 334	23 356	56 229	4 008
33299	All other fabricated metal product mfg.....	3	31	6	338	11 873	265	474	7 293	23 180	16 121	38 975	3 693

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	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	San Jose, CA PMSA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg	1	245	82	13 844	658 338	7 577	15 733	247 946	1 702 686	2 191 327	3 872 043	341 473
3332	Industrial machinery mfg ..	1	97	46	9 928	466 872	5 663	12 032	178 588	1 346 807	1 908 640	3 221 933	321 415
33329	Other industrial machinery mfg	1	95	44	i	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg	1	58	29	8 107	401 700	4 411	9 081	142 610	1 210 942	1 782 198	2 959 883	311 088
333298	All other industrial machinery mfg	6	26	14	1 571	56 046	1 103	2 661	31 325	124 633	106 542	230 541	8 797
3333	Commercial & service industry machinery mfg ..	3	52	17	1 282	60 373	704	1 455	24 085	104 950	106 818	216 090	8 310
33331	Commercial & service industry machinery mfg	3	52	17	1 282	60 373	704	1 455	24 085	104 950	106 818	216 090	8 310
333314	Optical instrument & lens mfg	2	20	7	416	22 367	183	386	6 459	40 621	23 575	64 796	1 384
333319	Other commercial & service industry machinery mfg	—	17	4	490	20 221	326	638	9 682	31 946	55 677	90 651	3 660
3335	Metalworking machinery mfg	2	55	11	714	26 451	544	1 099	18 391	49 297	15 482	63 882	D
33351	Metalworking machinery mfg	2	55	11	714	26 451	544	1 099	18 391	49 297	15 482	63 882	D
333514	Special die & tool, die set, jig, & fixture mfg .	2	34	6	366	14 440	294	683	10 279	29 523	8 448	37 724	2 158
3336	Engine, turbine, & power transmission equipment mfg	1	2	2	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	1	2	2	g	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg	—	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	1	33	5	793	35 261	363	648	11 966	63 770	63 351	131 264	D
33399	All other general-purpose machinery mfg	1	26	3	604	27 954	275	519	8 926	41 604	45 234	93 039	4 042
333999	All other miscellaneous general-purpose machinery mfg	—	14	2	485	23 921	184	344	6 113	33 319	38 438	77 661	3 527
334	Computer & electronic product mfg	—	1 068	531	166 578	9 490 567	69 308	145 766	2 691 273	33 955 967	21 263 192	55 077 331	3 215 033
3341	Computer & peripheral equipment mfg	—	165	48	32 876	2 041 315	11 001	26 701	531 340	8 537 067	7 831 692	16 421 348	731 586
33411	Computer & peripheral equipment mfg	—	165	48	32 876	2 041 315	11 001	26 701	531 340	8 537 067	7 831 692	16 421 348	731 586
334111	Electronic computer mfg	—	50	16	15 873	1 127 754	2 650	7 670	154 242	5 874 916	3 510 709	9 417 090	231 436
334112	Computer storage device mfg	—	31	11	9 923	433 380	5 244	11 775	174 036	1 602 958	2 737 907	4 350 215	398 641
334113	Computer terminal mfg	—	9	4	542	38 009	222	483	7 121	103 386	169 957	270 677	3 622
334119	Other computer peripheral equipment mfg	—	75	17	6 538	442 172	2 885	6 773	195 941	955 807	1 413 119	2 383 366	97 887
3342	Communications equipment mfg	1	137	90	36 058	1 971 548	11 286	21 219	470 422	9 833 314	4 723 594	14 466 612	338 293
33421	Telephone apparatus mfg	1	49	37	23 234	1 325 520	4 796	9 679	230 356	7 473 630	3 786 006	11 157 542	226 227
334210	Telephone apparatus mfg	1	49	37	23 234	1 325 520	4 796	9 679	230 356	7 473 630	3 786 006	11 157 542	226 227
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	82	51	12 735	642 297	6 444	11 467	238 875	2 348 840	929 918	3 290 476	111 739
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	82	51	12 735	642 297	6 444	11 467	238 875	2 348 840	929 918	3 290 476	111 739
3343	Audio & video equipment mfg	2	11	7	631	23 747	343	740	8 739	41 471	41 943	83 236	1 920
33431	Audio & video equipment mfg	2	11	7	631	23 747	343	740	8 739	41 471	41 943	83 236	1 920
334310	Audio & video equipment mfg	2	11	7	631	23 747	343	740	8 739	41 471	41 943	83 236	1 920

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	San Jose, CA PMSA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg	-	510	256	64 795	3 626 229	33 650	71 050	1 164 070	11 080 652	6 353 092	17 430 347	1 754 256
33441	Semiconductor & other electronic component mfg	-	510	256	64 795	3 626 229	33 650	71 050	1 164 070	11 080 652	6 353 092	17 430 347	1 754 256
334411	Electron tube mfg	-	9	5	842	42 204	589	1 007	22 099	90 687	55 895	145 587	3 837
334412	Bare printed circuit board mfg	-	99	48	7 466	322 272	4 691	9 417	132 399	1 040 373	662 557	1 729 701	110 412
334413	Semiconductor & related device mfg	-	215	110	35 975	2 507 377	15 476	31 485	657 198	7 750 606	3 860 210	11 547 131	1 518 640
334416	Electronic coil, transformer, & other inductor mfg	3	17	7	378	12 166	293	616	7 555	29 827	13 316	43 091	962
334418	Printed circuit assembly (electronic assembly) mfg	-	65	52	14 447	486 961	9 335	21 529	244 773	1 737 448	1 592 509	3 363 086	87 751
334419	Other electronic component mfg	1	93	29	5 179	234 620	2 956	6 338	91 299	393 123	147 914	543 199	30 832
3345	Navigational, measuring, medical, & control instruments mfg	-	202	112	28 054	1 644 857	10 093	20 895	451 553	4 074 921	2 023 164	5 998 425	238 164
33451	Navigational, measuring, medical, & control instruments mfg	-	202	112	28 054	1 644 857	10 093	20 895	451 553	4 074 921	2 023 164	5 998 425	238 164
334510	Electromedical & electrotherapeutic apparatus mfg	-	17	9	3 061	189 336	1 389	2 390	63 716	603 767	260 867	837 835	21 609
334511	Search, detection, navigation, & guidance instrument mfg	-	15	7	3 416	216 406	1 679	3 394	85 803	438 223	123 173	562 632	44 968
334513	Industrial process control instrument mfg	1	25	16	2 704	103 771	856	1 731	31 913	191 139	108 495	305 943	12 940
334515	Electricity measuring & testing instrument mfg	-	76	42	11 399	711 813	3 840	8 719	172 633	1 664 218	726 417	2 336 304	107 271
334516	Analytical laboratory instrument mfg	-	31	16	3 184	190 871	1 032	2 058	43 275	615 294	308 027	916 313	18 825
334517	Irradiation apparatus mfg	-	9	6	2 777	150 676	837	1 643	38 359	338 662	392 495	718 626	24 764
334519	Other measuring & controlling device mfg	-	23	13	1 373	76 464	393	858	14 642	213 908	95 110	302 248	7 098
3346	Mfg & reproducing magnetic & optical media	2	43	18	4 164	182 871	2 935	5 161	65 149	388 542	289 707	677 363	150 814
33461	Mfg & reproducing magnetic & optical media	2	43	18	4 164	182 871	2 935	5 161	65 149	388 542	289 707	677 363	150 814
334613	Magnetic & optical recording media mfg	3	29	12	3 839	173 178	2 718	4 755	58 852	358 465	273 085	630 685	145 290
335	Electrical equipment, appliance, & component mfg	-	85	37	4 343	204 409	2 454	4 751	84 507	434 857	308 114	722 882	26 465
3353	Electrical equipment mfg	1	31	9	922	42 032	555	948	20 644	94 855	58 123	138 192	4 336
33531	Electrical equipment mfg	1	31	9	922	42 032	555	948	20 644	94 855	58 123	138 192	4 336
335311	Power, distribution, & specialty transformer mfg	-	6	1	e	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg	3	19	6	367	17 227	141	250	3 467	34 294	25 121	58 625	2 141
3359	Other electrical equipment & component mfg	-	50	27	3 302	158 735	1 854	3 708	62 736	332 843	246 974	574 539	22 060
33592	Communication & energy wire & cable mfg	-	7	7	781	30 164	515	926	10 103	60 264	58 687	121 731	4 341
335929	Other communication & energy wire mfg	-	7	7	781	30 164	515	926	10 103	60 264	58 687	121 731	4 341
33599	All other electrical equipment & component mfg	-	34	18	2 396	123 448	1 243	2 582	49 900	262 112	182 641	436 637	16 926
335999	All other miscellaneous electrical equipment & component mfg	-	33	18	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	San Jose, CA PMSA—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg	—	62	20	16 824	931 621	3 586	7 495	116 101	3 066 350	1 528 722	4 782 764	D
3363	Motor vehicle parts mfg . . .	8	38	11	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	8	27	11	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	8	26	11	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	—	7	3	j	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	7	3	j	D	D	D	D	D	D	D	D
336414	Guided missile & space vehicle mfg . . .	—	1	1	j	D	D	D	D	D	D	D	D
336415	Guided missile & space vehicle propulsion unit & parts mfg	—	1	1	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	—	11	5	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	—	11	5	g	D	D	D	D	D	D	D	D
336991	Motorcycle, bicycle, & parts mfg	1	7	3	f	D	D	D	D	D	D	D	D
336992	Military armored vehicle, tank, & tank component mfg	—	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	3	120	21	1 742	50 813	1 241	2 336	28 973	103 958	80 832	184 971	3 991
3371	Household & institutional furniture & kitchen cabinet mfg	5	90	17	1 087	29 392	839	1 612	18 986	57 051	41 658	99 491	2 207
33711	Wood kitchen cabinet & counter top mfg	4	48	6	430	12 727	318	659	8 478	22 394	14 223	37 247	859
337110	Wood kitchen cabinet & counter top mfg . . .	4	48	6	430	12 727	318	659	8 478	22 394	14 223	37 247	859
33712	Household & institutional furniture mfg	6	42	11	657	16 665	521	953	10 508	34 657	27 435	62 244	1 348
3372	Office furniture (including fixtures) mfg	2	28	3	e	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	2	28	3	e	D	D	D	D	D	D	D	D
3379	Other furniture related product mfg	—	2	1	e	D	D	D	D	D	D	D	D
33792	Blind & shade mfg	—	2	1	e	D	D	D	D	D	D	D	D
337920	Blind & shade mfg	—	2	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	270	54	7 668	368 170	3 576	7 000	111 271	1 218 903	444 035	1 670 041	71 321
3391	Medical equipment & supplies mfg	1	181	41	6 412	329 113	2 752	5 400	93 592	1 143 628	392 850	1 535 607	67 413
33911	Medical equipment & supplies mfg	1	181	41	6 412	329 113	2 752	5 400	93 592	1 143 628	392 850	1 535 607	67 413
339111	Laboratory apparatus & furniture mfg	—	10	6	692	23 842	314	603	11 966	62 728	44 364	117 357	1 986
339112	Surgical & medical instrument mfg	—	51	29	5 021	282 093	1 996	4 020	70 502	1 022 915	316 380	1 325 900	63 714
339116	Dental laboratories . . .	7	102	2	405	10 553	299	472	6 455	22 430	9 344	32 223	839
3399	Other miscellaneous mfg . .	5	89	13	1 256	39 057	824	1 600	17 679	75 275	51 185	134 434	3 908
33995	Sign mfg	1	31	5	309	9 114	200	399	4 410	19 067	9 704	28 884	808
339950	Sign mfg	1	31	5	309	9 114	200	399	4 410	19 067	9 704	28 884	808
33999	All other miscellaneous mfg	7	29	7	777	22 843	523	1 008	11 325	49 893	35 943	86 679	2 738
339999	All other miscellaneous mfg	7	22	5	695	19 956	471	906	10 243	44 940	31 894	77 638	2 479

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	Santa Cruz—Watsonville, CA PMSA												
31-33	Manufacturing	1	387	89	10 011	315 177	6 213	11 946	152 898	1 139 974	956 809	2 134 950	82 832
311	Food mfg.....	-	51	18	2 272	59 473	1 792	3 318	42 583	195 543	180 219	393 398	15 771
3113	Sugar & confectionery product mfg.....	-	6	3	262	8 188	172	352	4 457	37 133	32 637	71 817	D
3114	Fruit & vegetable preserving & specialty food mfg.....	-	10	7	g	D	D	D	D	D	D	D	6 512
31141	Frozen food mfg.....	-	7	5	1 296	24 652	1 174	2 191	19 699	74 917	83 544	174 027	D
311411	Frozen fruit, juice, & vegetable mfg.....	-	7	5	1 296	24 652	1 174	2 191	19 699	74 917	83 544	174 027	D
3118	Bakeries & tortilla mfg.....	2	27	6	417	7 912	237	399	3 841	19 520	8 891	28 442	1 515
31181	Bread & bakery product mfg.....	2	22	5	368	7 037	207	347	3 371	16 156	7 349	23 516	1 425
311812	Commercial bakeries ..	3	11	4	258	5 355	133	253	2 418	10 704	3 732	14 436	1 233
321	Wood product mfg.....	1	10	4	266	8 961	216	406	5 997	12 866	19 451	32 494	563
323	Printing & related support activities.....	2	45	8	449	12 873	288	581	7 233	32 977	22 424	55 207	2 199
3231	Printing & related support activities.....	2	45	8	449	12 873	288	581	7 233	32 977	22 424	55 207	2 199
32311	Printing.....	2	43	8	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	8	14	5	269	10 294	205	356	4 775	25 000	36 500	62 959	4 726
3261	Plastics product mfg.....	8	11	5	250	9 948	189	335	4 535	24 058	35 662	61 168	D
327	Nonmetallic mineral product mfg.....	-	25	3	298	13 218	234	494	9 521	59 165	37 401	98 661	7 643
332	Fabricated metal product mfg.....	2	38	4	324	11 978	239	462	7 367	25 757	12 005	36 737	2 246
333	Machinery mfg.....	-	16	5	1 198	41 043	613	1 284	10 623	139 020	142 126	283 867	5 840
3339	Other general-purpose machinery mfg.....	-	6	4	1 094	38 406	534	1 176	9 048	134 869	139 660	277 209	D
33399	All other general-purpose machinery mfg.....	-	4	2	f	D	D	D	D	D	D	D	D
333994	Industrial process furnace & oven mfg..	-	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	1	52	23	3 124	106 928	1 464	2 855	38 943	532 575	378 408	928 901	34 884
3342	Communications equipment mfg.....	7	6	3	673	22 776	166	333	3 895	92 894	61 233	153 976	D
33421	Telephone apparatus mfg.....	7	2	2	f	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg.....	7	2	2	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	-	19	9	1 697	52 745	907	1 581	19 836	363 766	248 830	627 376	26 080
33441	Semiconductor & other electronic component mfg.....	-	19	9	1 697	52 745	907	1 581	19 836	363 766	248 830	627 376	26 080
334412	Bare printed circuit board mfg.....	-	8	3	e	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg...	-	5	3	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg.....	-	2	2	e	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	3	20	8	e	D	D	D	D	D	D	D	2 486
33451	Navigational, measuring, medical, & control instruments mfg.....	3	20	8	e	D	D	D	D	D	D	D	2 486
339	Miscellaneous mfg.....	2	40	3	346	9 502	161	247	2 430	24 765	17 039	40 602	2 531
3399	Other miscellaneous mfg..	1	27	3	312	8 212	140	208	1 916	21 435	15 279	35 474	2 364

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	Santa Rosa, CA PMSA												
31-33	Manufacturing	1	793	218	24 209	968 796	15 754	29 805	464 947	2 883 722	2 393 144	5 119 819	239 962
311	Food mfg.....	—	72	28	2 215	51 746	1 485	2 724	27 010	149 453	556 599	705 146	16 922
3114	Fruit & vegetable preserving & specialty food mfg.....	—	8	4	573	12 876	428	833	7 158	29 904	40 768	70 091	3 849
31142	Fruit & vegetable canning, pickling, & drying.....	—	7	3	e	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	—	4	3	266	7 545	203	443	4 198	15 215	51 154	66 227	404
31161	Animal slaughtering & processing.....	—	4	3	266	7 545	203	443	4 198	15 215	51 154	66 227	404
3118	Bakeries & tortilla mfg.....	1	22	9	610	10 526	461	683	6 284	24 433	13 714	38 185	1 376
31181	Bread & bakery product mfg.....	1	20	8	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	—	13	8	527	8 663	399	579	5 157	21 491	7 461	28 969	883
3119	Other food mfg.....	3	17	5	318	9 136	160	273	3 016	30 420	29 993	60 861	4 583
312	Beverage & tobacco product mfg.....	2	90	35	2 934	111 226	1 449	2 652	41 335	564 446	580 843	1 066 339	78 041
3121	Beverage mfg.....	2	90	35	2 934	111 226	1 449	2 652	41 335	564 446	580 843	1 066 339	78 041
31213	Wineries	2	84	34	2 849	109 341	1 418	2 597	40 401	556 691	575 019	1 052 772	77 625
312130	Wineries	2	84	34	2 849	109 341	1 418	2 597	40 401	556 691	575 019	1 052 772	77 625
321	Wood product mfg.....	—	43	14	1 057	25 494	801	1 541	16 265	62 877	76 640	139 824	2 599
3212	Veneer, plywood, & engineered wood product mfg.....	—	6	1	339	8 680	230	493	5 915	17 544	24 251	41 839	D
32121	Veneer, plywood, & engineered wood product mfg.....	—	6	1	339	8 680	230	493	5 915	17 544	24 251	41 839	D
321213	Engineered wood member (except truss) mfg.....	—	1	1	e	D	D	D	D	D	D	D	D
3219	Other wood product mfg...	1	32	9	523	12 152	419	749	7 508	34 585	33 840	68 750	1 589
323	Printing & related support activities.....	2	91	14	971	33 322	695	1 360	19 250	71 974	42 708	114 718	5 607
3231	Printing & related support activities.....	2	91	14	971	33 322	695	1 360	19 250	71 974	42 708	114 718	5 607
32311	Printing	2	81	14	913	31 895	653	1 289	18 296	68 895	41 848	110 810	5 464
323110	Commercial lithographic printing ..	4	37	7	431	15 577	315	583	9 303	31 794	17 545	49 443	2 520
325	Chemical mfg.....	3	21	6	450	16 856	287	536	9 169	47 935	41 697	87 678	5 846
326	Plastics & rubber products mfg.....	1	23	10	606	17 860	473	934	10 164	45 871	21 184	67 056	3 927
3261	Plastics product mfg.....	1	23	10	606	17 860	473	934	10 164	45 871	21 184	67 056	3 927
32619	Other plastics product mfg.....	—	18	9	556	16 682	436	876	9 476	42 735	17 995	60 740	3 636
326199	All other plastics product mfg.....	—	18	9	556	16 682	436	876	9 476	42 735	17 995	60 740	3 636
327	Nonmetallic mineral product mfg.....	5	43	9	578	16 802	455	831	11 720	38 436	42 205	81 557	3 109
3273	Cement & concrete product mfg.....	5	17	4	290	9 831	237	462	7 016	24 174	34 564	58 781	1 940
332	Fabricated metal product mfg.....	1	77	13	1 257	38 111	1 007	1 917	25 782	76 131	59 428	135 678	7 380
3321	Forging & stamping.....	—	6	3	343	13 055	252	522	8 045	19 966	24 012	44 646	2 697
33211	Forging & stamping.....	—	6	3	343	13 055	252	522	8 045	19 966	24 012	44 646	2 697
3323	Architectural & structural metals mfg.....	—	15	3	325	8 255	278	588	5 917	19 346	12 335	30 835	1 927
33232	Ornamental & architectural metal products mfg.....	—	13	3	e	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg.....	—	7	3	293	7 195	254	537	5 244	16 440	10 312	25 896	1 853
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	2	30	6	397	11 152	343	563	8 532	24 736	8 940	34 134	1 431

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	Santa Rosa, CA PMSA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg	1	48	22	2 660	118 757	1 640	3 263	50 501	285 021	147 871	425 647	23 629
3332	Industrial machinery mfg ..	4	14	8	546	24 255	269	525	8 339	64 211	28 825	92 136	3 072
33329	Other industrial machinery mfg	5	11	7	e	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg	7	4	4	309	14 560	99	185	2 270	44 949	12 493	56 126	2 300
3333	Commercial & service industry machinery mfg ..	—	9	6	1 364	64 544	859	1 788	26 916	154 964	68 499	219 949	14 532
33331	Commercial & service industry machinery mfg	—	9	6	1 364	64 544	859	1 788	26 916	154 964	68 499	219 949	14 532
333314	Optical instrument & lens mfg	—	4	3	1 101	52 977	729	1 518	22 404	125 669	48 692	172 979	D
3339	Other general-purpose machinery mfg	—	15	6	503	22 224	336	604	10 862	57 202	40 448	94 848	5 693
334	Computer & electronic product mfg	—	47	21	6 665	380 186	4 264	7 997	170 964	1 029 166	590 075	1 580 611	62 302
3342	Communications equipment mfg	—	11	6	1 044	103 287	266	584	8 422	178 011	153 563	308 628	20 901
33421	Telephone apparatus mfg	—	3	3	f	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg	—	3	3	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	1	11	6	391	14 751	272	525	8 233	34 470	16 836	51 718	D
33441	Semiconductor & other electronic component mfg	1	11	6	391	14 751	272	525	8 233	34 470	16 836	51 718	D
3345	Navigational, measuring, medical, & control instruments mfg	—	17	5	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	—	17	5	h	D	D	D	D	D	D	D	D
334515	Electricity measuring & testing instrument mfg	—	1	1	h	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	1	21	8	645	23 960	396	768	8 593	61 938	44 475	107 067	2 434
3353	Electrical equipment mfg ..	1	9	2	343	16 194	174	331	4 637	50 555	33 438	83 379	1 127
33531	Electrical equipment mfg	1	9	2	343	16 194	174	331	4 637	50 555	33 438	83 379	1 127
335314	Relay & industrial control mfg	—	6	1	263	13 608	118	234	3 630	44 400	28 339	72 057	946
336	Transportation equipment mfg	1	24	5	587	18 546	430	954	10 554	40 786	35 222	76 045	D
3363	Motor vehicle parts mfg ...	1	7	3	371	11 679	279	688	6 769	29 161	17 715	46 757	2 051
337	Furniture & related product mfg	6	61	4	380	9 461	301	561	6 218	20 917	16 323	36 870	1 021
3371	Household & institutional furniture & kitchen cabinet mfg	5	49	2	250	6 134	201	378	4 157	12 521	9 592	21 669	523
339	Miscellaneous mfg	—	89	18	2 519	91 158	1 613	3 087	49 820	355 397	106 425	431 141	22 361
3391	Medical equipment & supplies mfg	—	36	5	1 662	68 400	1 031	2 058	37 107	304 661	69 721	344 317	19 142
33911	Medical equipment & supplies mfg	—	36	5	1 662	68 400	1 031	2 058	37 107	304 661	69 721	344 317	19 142
339113	Surgical appliance & supplies mfg	—	3	1	e	D	D	D	D	D	D	D	D
339115	Ophthalmic goods mfg	—	3	2	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	1	53	13	857	22 758	582	1 029	12 713	50 736	36 704	86 824	3 219
33999	All other miscellaneous mfg	—	17	4	312	8 768	218	436	6 230	17 320	14 592	31 015	1 087
339999	All other miscellaneous mfg	—	8	3	270	7 815	191	384	5 638	15 460	13 487	28 061	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	Vallejo—Fairfield—Napa, CA PMSA												
31-33	Manufacturing	—	554	168	17 641	651 753	11 398	21 747	335 489	2 422 792	3 270 078	5 636 079	270 435
311	Food mfg.....	2	51	18	2 041	54 332	1 538	2 782	36 520	202 113	280 972	483 218	18 317
3113	Sugar & confectionery product mfg.....	—	4	2	e	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg.....	5	9	7	1 012	23 181	871	1 503	18 929	74 115	84 370	159 134	8 355
31142	Fruit & vegetable canning, pickling, & drying.....	6	6	6	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning.....	2	4	4	e	D	D	D	D	D	D	D	D
311422	Specialty canning.....	9	1	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	—	3	3	e	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	—	3	3	e	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg.....	—	132	53	4 963	213 435	2 102	3 834	76 441	853 626	750 442	1 557 981	128 928
3121	Beverage mfg.....	—	132	53	4 963	213 435	2 102	3 834	76 441	853 626	750 442	1 557 981	128 928
31211	Soft drink & ice mfg.....	—	5	4	e	D	D	D	D	D	D	D	D
31212	Breweries.....	—	2	1	f	D	D	D	D	D	D	D	D
312120	Breweries.....	—	2	1	f	D	D	D	D	D	D	D	D
31213	Wineries.....	—	124	48	4 161	171 994	1 631	2 940	52 499	632 025	559 207	1 146 691	106 901
312130	Wineries.....	—	124	48	4 161	171 994	1 631	2 940	52 499	632 025	559 207	1 146 691	106 901
315	Apparel mfg.....	—	7	1	e	D	D	D	D	D	D	D	211
321	Wood product mfg.....	—	20	7	672	17 048	565	1 088	12 362	37 280	83 378	120 407	1 729
3212	Veneer, plywood, & engineered wood product mfg.....	1	5	2	340	7 857	293	534	5 956	17 524	26 310	43 461	861
32121	Veneer, plywood, & engineered wood product mfg.....	1	5	2	340	7 857	293	534	5 956	17 524	26 310	43 461	861
321214	Truss mfg.....	—	4	2	e	D	D	D	D	D	D	D	861
3219	Other wood product mfg...	—	15	5	332	9 191	272	554	6 406	19 756	57 068	76 946	868
323	Printing & related support activities.....	1	43	4	470	16 212	377	754	10 818	39 819	17 795	57 079	3 653
3231	Printing & related support activities.....	1	43	4	470	16 212	377	754	10 818	39 819	17 795	57 079	3 653
32311	Printing.....	2	41	4	e	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing..	—	20	3	338	12 371	273	571	8 210	32 132	12 512	44 155	2 933
324	Petroleum & coal products mfg.....	—	3	1	e	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg.....	—	3	1	e	D	D	D	D	D	D	D	D
32411	Petroleum refineries....	—	1	1	e	D	D	D	D	D	D	D	D
324110	Petroleum refineries..	—	1	1	e	D	D	D	D	D	D	D	D
325	Chemical mfg.....	—	21	8	1 340	55 406	824	1 377	22 056	384 754	168 789	542 867	26 554
3254	Pharmaceutical & medicine mfg.....	—	3	2	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg.....	—	3	2	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg.....	—	2	2	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	1	19	12	693	19 876	540	1 141	13 089	65 052	67 454	131 418	5 324
3261	Plastics product mfg.....	1	15	11	649	18 903	507	1 084	12 483	61 635	65 587	126 249	D
32619	Other plastics product mfg.....	—	9	6	368	10 454	261	557	5 659	32 753	32 765	64 772	3 496
326199	All other plastics product mfg.....	—	9	6	368	10 454	261	557	5 659	32 753	32 765	64 772	3 496
327	Nonmetallic mineral product mfg.....	2	31	11	1 178	34 552	961	1 960	24 315	105 976	74 639	179 245	20 997
3273	Cement & concrete product mfg.....	1	16	9	983	29 915	810	1 700	21 212	94 804	67 154	160 551	19 703
32739	Other concrete product mfg.....	—	6	5	677	17 877	569	1 230	12 672	53 048	25 239	76 859	D
327390	Other concrete product mfg.....	—	6	5	677	17 877	569	1 230	12 672	53 048	25 239	76 859	D

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	SAN FRANCISCO—OAKLAND—SAN JOSE, CA CMSA—Con.												
	Vallejo—Fairfield—Napa, CA PMSA—Con.												
31-33	Manufacturing—Con.												
331	Primary metal mfg	—	3	2	e	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	—	2	1	e	D	D	D	D	D	D	D	D
33121	Iron & steel pipes & tubes mfg from purchased steel	—	2	1	e	D	D	D	D	D	D	D	D
331210	Iron & steel pipes & tubes mfg from purchased steel	—	2	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	60	15	1 481	60 889	1 151	2 172	44 192	158 048	195 461	357 645	9 910
3323	Architectural & structural metals mfg	—	21	5	531	19 657	407	713	13 274	40 368	29 353	69 279	1 834
33232	Ornamental & architectural metal products mfg	—	10	3	395	14 737	305	521	10 200	31 384	19 902	50 823	1 382
3324	Boiler, tank, & shipping container mfg	—	6	5	555	27 224	446	911	21 401	91 077	153 888	249 521	6 234
33243	Metal can, box, & other metal container (light gauge) mfg	—	4	3	e	D	D	D	D	D	D	D	D
332431	Metal can mfg	—	3	3	318	18 829	260	544	15 276	72 809	140 184	216 778	5 792
333	Machinery mfg	—	33	11	1 252	48 646	745	1 540	22 016	112 042	83 630	192 607	4 976
3332	Industrial machinery mfg . .	—	6	2	588	26 975	277	565	9 999	45 646	47 789	91 461	885
33329	Other industrial machinery mfg	—	6	2	588	26 975	277	565	9 999	45 646	47 789	91 461	885
333295	Semiconductor machinery mfg	—	3	1	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	—	12	4	251	9 589	141	256	3 667	20 225	17 236	36 361	3 054
334	Computer & electronic product mfg	3	20	5	318	13 140	236	477	7 563	31 375	30 817	63 161	D
335	Electrical equipment, appliance, & component mfg	—	7	4	411	15 312	303	553	6 718	62 494	29 119	91 920	7 850
336	Transportation equipment mfg	—	8	2	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	—	1	1	e	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	1	1	e	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	—	1	1	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	34	8	583	17 221	460	946	11 263	39 120	35 137	74 349	2 098
3371	Household & institutional furniture & kitchen cabinet mfg	2	26	5	296	8 427	252	452	6 096	15 918	14 856	30 748	1 270
339	Miscellaneous mfg	2	44	4	385	11 255	267	422	5 171	26 562	18 908	45 795	990
3399	Other miscellaneous mfg . .	1	23	3	276	7 238	189	296	3 189	18 838	13 843	32 844	532
	SAN LUIS OBISPO—ATASCADERO—PASO ROBLES, CA MSA												
31-33	Manufacturing	4	323	69	6 322	182 321	4 157	7 650	94 401	619 697	533 953	1 156 257	52 082
311	Food mfg	6	32	5	392	7 870	264	481	4 353	22 956	20 211	42 912	1 326
312	Beverage & tobacco product mfg	1	21	4	280	6 974	180	216	3 421	59 166	58 993	116 039	7 587
3121	Beverage mfg	1	21	4	280	6 974	180	216	3 421	59 166	58 993	116 039	7 587
315	Apparel mfg	3	9	5	307	5 357	234	479	3 338	11 950	8 414	20 910	1 000
3152	Cut & sew apparel mfg	3	8	5	e	D	D	D	D	D	D	D	1 000
323	Printing & related support activities	—	32	7	605	17 755	411	744	10 394	47 471	32 226	78 935	5 175
3231	Printing & related support activities	—	32	7	605	17 755	411	744	10 394	47 471	32 226	78 935	5 175
32311	Printing	—	30	7	f	D	D	D	D	D	D	D	D
323116	Manifold business form printing	—	5	4	370	11 701	246	461	6 840	35 641	23 781	58 621	4 189

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SAN LUIS OBISPO-ATASCADERO-PASO ROBLES, CA MSA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg.....	—	51	7	817	22 034	646	1 323	14 865	64 685	45 612	109 392	3 491
3329	Other fabricated metal product mfg.....	—	5	3	267	7 073	200	392	3 685	30 217	26 641	57 746	D
333	Machinery mfg.....	7	17	6	680	29 399	327	524	10 077	71 305	74 468	143 535	5 333
3332	Industrial machinery mfg ..	9	4	2	e	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg ..	9	4	2	e	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg ..	9	1	1	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	2	26	11	1 346	40 214	728	1 492	18 225	95 051	49 136	141 105	9 987
3341	Computer & peripheral equipment mfg ..	4	4	3	279	9 483	90	192	3 548	21 128	18 905	38 403	1 989
33411	Computer & peripheral equipment mfg ..	4	4	3	279	9 483	90	192	3 548	21 128	18 905	38 403	1 989
3344	Semiconductor & other electronic component mfg ..	—	9	5	822	22 349	527	1 086	12 116	53 473	21 297	73 260	5 285
33441	Semiconductor & other electronic component mfg ..	—	9	5	822	22 349	527	1 086	12 116	53 473	21 297	73 260	5 285
334417	Electronic connector mfg ..	—	2	2	e	D	D	D	D	D	D	D	D
334419	Other electronic component mfg ..	—	5	3	387	8 379	189	377	2 681	23 117	11 146	32 009	3 030
339	Miscellaneous mfg.....	2	38	4	612	14 058	480	773	8 840	41 351	15 829	57 380	2 331
3399	Other miscellaneous mfg ..	1	25	2	408	8 570	343	505	5 653	27 269	10 056	37 404	1 503
33999	All other miscellaneous mfg ..	—	9	2	335	6 956	295	422	4 753	23 628	7 366	31 058	1 313
339992	Musical instrument mfg ..	—	6	2	319	6 728	282	410	4 621	23 141	7 142	30 348	D
	SANTA BARBARA-SANTA MARIA-LOMPOC, CA MSA												
31-33	Manufacturing	1	502	135	14 985	584 227	8 254	14 895	205 117	1 463 893	1 149 280	2 770 418	88 096
311	Food mfg.....	1	35	7	839	14 545	717	1 037	8 853	89 347	67 939	156 893	4 440
3114	Fruit & vegetable preserving & specialty food mfg ..	—	4	2	f	D	D	D	D	D	D	D	D
31141	Frozen food mfg.....	—	2	2	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg.....	—	2	2	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg.....	3	20	7	337	8 965	177	313	4 000	36 079	27 780	58 511	3 058
3121	Beverage mfg.....	3	20	7	337	8 965	177	313	4 000	36 079	27 780	58 511	3 058
31213	Wineries ..	3	18	6	e	D	D	D	D	D	D	D	D
312130	Wineries ..	3	18	6	e	D	D	D	D	D	D	D	D
316	Leather & allied product mfg ..	—	6	3	252	7 953	155	291	3 295	38 759	18 241	57 999	D
323	Printing & related support activities.....	3	59	8	513	12 184	385	606	7 899	26 624	18 337	44 979	1 422
3231	Printing & related support activities.....	3	59	8	513	12 184	385	606	7 899	26 624	18 337	44 979	1 422
32311	Printing ..	3	53	8	494	11 579	369	578	7 491	25 384	18 083	43 486	1 382
323110	Commercial lithographic printing ..	3	33	7	395	9 506	292	445	6 142	19 812	12 260	32 055	1 153
325	Chemical mfg.....	—	11	6	862	26 311	431	531	6 816	114 426	42 274	155 306	5 233
3256	Soap, cleaning compound, & toilet preparation mfg ..	—	3	2	e	D	D	D	D	D	D	D	D
32561	Soap & cleaning compound mfg ..	—	1	1	e	D	D	D	D	D	D	D	D
325611	Soap & other detergent mfg ..	—	1	1	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg ..	—	16	6	928	26 324	659	1 424	13 587	67 600	53 170	119 182	2 894
3261	Plastics product mfg ..	—	11	4	763	20 403	550	1 279	11 942	55 186	44 056	98 086	D
32614	Polystyrene foam product mfg ..	—	1	1	e	D	D	D	D	D	D	D	D
326140	Polystyrene foam product mfg ..	—	1	1	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg ..	—	7	2	292	9 201	219	510	5 171	18 967	17 162	36 428	1 849
326199	All other plastics product mfg ..	—	7	2	292	9 201	219	510	5 171	18 967	17 162	36 428	1 849

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SANTA BARBARA— SANTA MARIA— LOMPOC, CA MSA— Con. Manufacturing— Con.												
327	Nonmetallic mineral product mfg	1	24	5	440	12 490	303	576	7 743	37 025	22 232	60 289	1 813
332	Fabricated metal product mfg	2	65	15	815	23 803	660	1 166	15 074	48 572	22 770	71 233	3 716
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	36	8	439	12 757	358	636	8 913	25 822	7 967	33 766	1 983
33271	Machine shops	2	33	6	344	11 179	280	549	7 784	22 052	6 448	28 507	1 670
332710	Machine shops	2	33	6	344	11 179	280	549	7 784	22 052	6 448	28 507	1 670
333	Machinery mfg	3	37	12	916	37 303	544	1 082	16 981	74 046	64 552	141 620	5 194
334	Computer & electronic product mfg	—	60	28	5 457	285 105	2 056	3 666	64 313	592 277	578 619	1 337 501	42 259
3342	Communications equipment mfg	—	14	7	1 691	87 934	717	1 042	17 406	339 404	415 864	754 307	D
33421	Telephone apparatus mfg	—	3	2	e	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg	—	3	2	e	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	7	5	g	D	D	D	D	D	D	D	17 146
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	7	5	g	D	D	D	D	D	D	D	17 146
3344	Semiconductor & other electronic component mfg	1	19	7	942	35 292	484	993	16 515	81 015	37 376	118 769	3 613
33441	Semiconductor & other electronic component mfg	1	19	7	942	35 292	484	993	16 515	81 015	37 376	118 769	3 613
334414	Electronic capacitor mfg	—	1	1	e	D	D	D	D	D	D	D	D
334419	Other electronic component mfg	—	10	4	425	13 654	290	533	6 959	40 966	18 626	59 816	D
3345	Navigational, measuring, medical, & control instruments mfg	—	19	12	2 641	153 170	735	1 390	26 031	131 515	112 246	412 215	12 024
33451	Navigational, measuring, medical, & control instruments mfg	—	19	12	2 641	153 170	735	1 390	26 031	131 515	112 246	412 215	12 024
334511	Search, detection, navigation, & guidance instrument mfg	—	5	4	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	17	5	575	27 324	305	649	9 525	83 734	83 542	165 474	5 384
3359	Other electrical equipment & component mfg	—	8	3	357	19 212	199	438	6 898	56 137	69 793	124 411	4 349
33592	Communication & energy wire & cable mfg	—	3	2	288	16 233	162	373	5 807	52 710	68 143	119 339	4 223
336	Transportation equipment mfg	3	19	5	420	17 012	299	583	10 256	49 395	20 101	70 432	1 853
339	Miscellaneous mfg	—	74	15	1 856	66 808	996	2 018	27 084	159 267	66 696	222 208	7 266
3391	Medical equipment & supplies mfg	—	30	9	1 328	53 600	718	1 498	21 700	135 029	48 181	179 438	6 240
33911	Medical equipment & supplies mfg	—	30	9	1 328	53 600	718	1 498	21 700	135 029	48 181	179 438	6 240
339112	Surgical & medical instrument mfg	—	5	3	506	19 290	233	365	6 250	55 812	27 083	79 910	2 893
339113	Surgical appliance & supplies mfg	—	8	3	670	27 795	386	963	12 770	66 842	15 028	81 148	D
3399	Other miscellaneous mfg ..	3	44	6	528	13 208	278	520	5 384	24 238	18 515	42 770	1 026
33999	All other miscellaneous mfg	—	13	4	270	7 365	92	204	2 043	13 885	7 607	21 235	581

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
STOCKTON-LODI, CA MSA													
31-33	Manufacturing	1	553	210	24 646	749 607	19 276	39 038	527 168	2 900 786	3 199 752	5 879 062	208 588
311	Food mfg	1	84	42	7 744	221 522	6 334	12 319	168 145	1 213 281	1 414 422	2 557 997	70 065
3112	Grain & oilseed milling	1	3	3	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal mfg	-	1	1	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg	-	1	1	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg	-	5	2	e	D	D	D	D	D	D	D	D
31131	Sugar mfg	-	2	2	e	D	D	D	D	D	D	D	D
311313	Beet sugar mfg	-	2	2	e	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	1	19	15	h	D	D	D	D	D	D	D	D
31141	Frozen food mfg	8	2	1	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg	8	2	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	-	17	14	3 282	94 105	2 974	5 820	78 604	370 386	408 381	749 286	24 358
311421	Fruit & vegetable canning	-	17	14	3 282	94 105	2 974	5 820	78 604	370 386	408 381	749 286	24 358
3115	Dairy product mfg	-	5	3	405	15 558	282	657	9 549	71 170	150 060	221 696	3 685
31151	Dairy product (except frozen) mfg	-	3	3	e	D	D	D	D	D	D	D	D
311513	Cheese mfg	-	2	2	e	D	D	D	D	D	D	D	D
3116	Meat product mfg	2	10	6	475	12 652	411	744	10 906	73 072	117 128	179 057	4 592
31161	Animal slaughtering & processing	2	10	6	475	12 652	411	744	10 906	73 072	117 128	179 057	4 592
3118	Bakeries & tortilla mfg	-	20	6	515	12 492	376	592	8 164	35 438	32 694	68 191	2 243
31181	Bread & bakery product mfg	-	17	5	449	10 835	316	484	7 188	27 394	26 904	54 315	1 623
311812	Commercial bakeries	-	3	3	339	9 320	257	409	6 469	23 743	25 618	49 369	D
3119	Other food mfg	-	10	4	727	21 418	566	1 274	12 407	85 225	174 520	242 589	5 604
31191	Snack food mfg	-	3	2	e	D	D	D	D	D	D	D	D
311911	Roasted nuts & peanut butter mfg	-	2	1	e	D	D	D	D	D	D	D	D
31199	All other food mfg	-	3	2	e	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	-	13	8	1 115	38 171	723	1 558	23 688	413 562	420 432	687 186	36 606
3121	Beverage mfg	-	13	8	1 115	38 171	723	1 558	23 688	413 562	420 432	687 186	36 606
31213	Wineries	-	12	8	g	D	D	D	D	D	D	D	D
312130	Wineries	-	12	8	g	D	D	D	D	D	D	D	D
314	Textile product mills	-	12	3	533	12 554	460	1 005	9 368	34 258	41 263	75 966	1 191
3149	Other textile product mills	-	6	2	e	D	D	D	D	D	D	D	D
31499	All other textile product mills	-	2	2	e	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills	-	2	2	e	D	D	D	D	D	D	D	D
321	Wood product mfg	1	28	17	1 981	45 111	1 682	3 091	34 192	99 860	191 217	291 912	6 335
3219	Other wood product mfg	1	25	14	1 886	43 026	1 607	2 968	32 920	95 300	185 659	281 790	D
32191	Millwork	2	11	7	760	17 419	653	1 310	13 997	43 301	91 524	136 715	4 308
321912	Cut stock, resawing lumber, & planing	4	5	5	519	12 674	473	951	10 406	28 291	56 822	87 207	D
32192	Wood container & pallet mfg	-	10	6	e	D	D	D	D	D	D	D	D
321920	Wood container & pallet mfg	-	10	6	e	D	D	D	D	D	D	D	D
32199	All other wood product mfg	-	4	1	f	D	D	D	D	D	D	D	D
321999	All other miscellaneous wood product mfg	-	4	1	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	10	8	1 144	44 744	936	2 086	33 208	111 818	158 747	271 527	11 361
3221	Pulp, paper, & paperboard mills	-	2	2	e	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	8	6	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	8	6	f	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	-	5	3	287	11 710	223	492	8 370	22 500	61 985	84 596	1 303
322212	Folding paperboard box mfg	-	2	2	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	2	50	7	688	17 907	477	818	11 410	33 121	21 457	55 485	2 787
3231	Printing & related support activities	2	50	7	688	17 907	477	818	11 410	33 121	21 457	55 485	2 787
32311	Printing	2	47	6	661	17 410	454	776	11 094	32 241	21 317	54 465	D
325	Chemical mfg	1	19	7	465	14 659	285	612	7 355	87 018	82 817	166 934	4 778
3253	Pesticide, fertilizer, & other agricultural chemical mfg	1	4	3	266	9 889	184	429	5 117	64 660	57 855	119 005	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	STOCKTON-LODI, CA MSA—Con.												
	Manufacturing—Con.												
326	Plastics & rubber products mfg	-	38	17	1 387	38 131	1 068	1 909	25 861	130 779	141 369	271 508	8 564
3261	Plastics product mfg	-	29	16	1 248	34 503	960	1 686	23 600	121 943	135 191	256 590	7 733
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	-	5	3	280	8 974	178	361	5 171	37 083	55 852	94 194	5 165
32619	Other plastics product mfg	-	16	8	503	13 426	378	741	8 113	31 558	21 501	53 012	1 607
326199	All other plastics product mfg	-	13	7	451	12 303	345	679	7 517	29 724	20 277	49 956	D
327	Nonmetallic mineral product mfg	-	33	10	1 563	61 548	1 279	2 686	49 716	197 829	144 193	343 373	14 773
3272	Glass & glass product mfg	-	3	2	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	3	2	f	D	D	D	D	D	D	D	D
327211	Flat glass mfg	-	1	1	e	D	D	D	D	D	D	D	D
327213	Glass container mfg ..	-	1	1	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	-	23	7	659	21 001	501	996	15 803	47 878	56 970	103 794	4 560
32739	Other concrete product mfg	-	10	3	341	10 832	256	500	8 683	24 275	30 462	54 417	1 378
327390	Other concrete product mfg	-	10	3	341	10 832	256	500	8 683	24 275	30 462	54 417	1 378
332	Fabricated metal product mfg	1	92	33	2 758	84 894	2 099	4 352	56 556	209 349	262 213	467 251	10 091
3323	Architectural & structural metals mfg	-	27	18	1 412	42 368	1 004	2 166	26 655	126 638	105 879	230 171	3 566
33231	Plate work & fabricated structural product mfg ..	-	15	11	1 124	32 772	798	1 750	21 147	92 564	88 958	179 936	2 694
332312	Fabricated structural metal mfg	-	11	7	1 012	29 050	713	1 568	18 540	85 977	75 836	159 898	2 122
33232	Ornamental & architectural metal products mfg	1	12	7	288	9 596	206	416	5 508	34 074	16 921	50 235	872
3327	Machine shops, turned product, & screw, nut, & bolt mfg	3	34	3	261	7 659	198	336	5 495	14 835	5 926	20 644	863
3329	Other fabricated metal product mfg	-	12	5	337	9 897	291	538	6 271	22 620	20 210	42 697	363
33299	All other fabricated metal product mfg	-	12	5	337	9 897	291	538	6 271	22 620	20 210	42 697	363
333	Machinery mfg	2	36	15	826	28 669	549	1 102	16 441	57 418	52 823	110 980	3 715
3331	Agriculture, construction, & mining machinery mfg	5	11	5	269	7 683	197	404	5 001	19 682	13 222	30 917	1 939
3332	Industrial machinery mfg ..	-	9	6	252	10 588	170	322	5 805	14 479	20 146	35 930	697
334	Computer & electronic product mfg	1	13	6	1 025	34 299	932	2 349	25 548	60 087	47 589	107 539	20 697
3344	Semiconductor & other electronic component mfg	1	11	6	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	1	11	6	g	D	D	D	D	D	D	D	D
334412	Bare printed circuit board mfg	-	4	2	f	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	1	2	2	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	20	10	954	30 514	748	1 780	22 234	66 711	70 329	136 941	5 497
3363	Motor vehicle parts mfg ...	1	7	3	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	1	1	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	1	1	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	37	11	1 179	39 181	870	1 869	23 732	73 659	71 932	145 563	3 770
3371	Household & institutional furniture & kitchen cabinet mfg	2	27	4	579	18 201	373	842	9 802	28 391	28 788	56 511	1 696
33712	Household & institutional furniture mfg	-	4	2	330	10 402	187	391	4 637	15 572	20 447	35 337	1 220
3372	Office furniture (including fixtures) mfg	-	7	6	545	19 848	453	955	13 170	42 233	38 617	81 525	1 987
33721	Office furniture (including fixtures) mfg	-	7	6	545	19 848	453	955	13 170	42 233	38 617	81 525	1 987
337215	Showcase, partition, shelving, & locker mfg	-	5	4	e	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments			All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
31-33	STOCKTON-LODI, CA MSA—Con.													
	Manufacturing—Con.													
339	Miscellaneous mfg.....	1	46	8	875	24 917	545	906	12 096	70 671	27 701	97 978	3 464	
3391	Medical equipment & supplies mfg.....	—	21	4	441	12 604	277	372	4 995	38 988	10 604	45 851	2 451	
33911	Medical equipment & supplies mfg.....	—	21	4	441	12 604	277	372	4 995	38 988	10 604	45 851	2 451	
339113	Surgical appliance & supplies mfg.....	—	3	2	330	10 093	194	223	3 533	32 919	8 010	37 293	D	
3399	Other miscellaneous mfg..	2	25	4	434	12 313	268	534	7 101	31 683	17 097	52 127	1 013	
33995	Sign mfg.....	2	11	2	305	9 644	173	381	5 654	25 953	9 618	39 007	718	
339950	Sign mfg.....	2	11	2	305	9 644	173	381	5 654	25 953	9 618	39 007	718	
31-33	VISALIA-TULARE-PORTERVILLE, CA MSA													
	Manufacturing	1	282	101	11 439	314 453	8 825	18 107	214 641	1 109 550	2 094 858	3 167 304	94 983	
311	Food mfg.....	—	47	26	3 979	113 698	3 157	6 914	83 453	506 388	1 501 136	1 980 227	53 109	
3114	Fruit & vegetable preserving & specialty food mfg.....	3	10	7	1 695	30 574	1 277	2 633	21 076	160 388	126 695	273 802	7 304	
31141	Frozen food mfg.....	8	5	4	1 026	19 652	830	1 837	12 679	74 687	51 254	125 879	5 209	
311412	Frozen specialty food mfg.....	9	1	1	f	D	D	D	D	D	D	D	D	
31142	Fruit & vegetable canning, pickling, & drying.....	—	5	3	669	10 922	447	796	8 397	85 701	75 441	147 923	2 095	
311421	Fruit & vegetable canning.....	—	3	2	f	D	D	D	D	D	D	D	D	
3115	Dairy product mfg.....	—	7	7	1 309	50 142	1 117	2 685	40 965	183 733	1 006 294	1 178 085	38 501	
31151	Dairy product (except frozen) mfg.....	—	6	6	g	D	D	D	D	D	D	D	D	
311511	Fluid milk mfg.....	—	2	2	e	D	D	D	D	D	D	D	D	
311513	Cheese mfg.....	—	3	3	392	9 498	335	652	7 573	62 673	170 944	227 339	D	
311514	Dry, condensed, & evaporated dairy product mfg.....	—	1	1	e	D	D	D	D	D	D	D	D	
3119	Other food mfg.....	—	6	6	531	15 553	474	992	12 717	59 266	67 445	122 326	4 569	
31191	Snack food mfg.....	—	3	3	e	D	D	D	D	D	D	D	D	
321	Wood product mfg.....	—	14	8	792	20 606	613	1 169	12 164	49 803	92 660	143 091	546	
3219	Other wood product mfg...	—	8	5	399	9 880	310	587	6 200	26 373	40 572	66 916	D	
32199	All other wood product mfg.....	—	4	2	287	7 319	242	465	4 860	18 945	21 348	40 271	57	
322	Paper mfg.....	—	6	3	354	9 444	219	473	5 159	27 677	40 079	68 904	4 301	
3222	Converted paper product mfg.....	—	6	3	354	9 444	219	473	5 159	27 677	40 079	68 904	4 301	
32221	Paperboard container mfg.....	—	5	3	e	D	D	D	D	D	D	D	D	
323	Printing & related support activities.....	3	26	9	1 536	42 935	1 187	2 346	31 712	175 878	80 375	259 466	7 067	
3231	Printing & related support activities.....	3	26	9	1 536	42 935	1 187	2 346	31 712	175 878	80 375	259 466	7 067	
32311	Printing.....	3	26	9	1 536	42 935	1 187	2 346	31 712	175 878	80 375	259 466	7 067	
323110	Commercial lithographic printing..	—	9	2	334	10 364	218	505	5 626	30 242	8 825	41 990	D	
323116	Manifold business form printing.....	6	4	4	423	15 690	338	738	12 783	90 596	60 538	149 747	3 938	
323117	Book printing.....	—	1	1	f	D	D	D	D	D	D	D	D	
326	Plastics & rubber products mfg.....	—	19	11	1 036	25 107	896	1 764	20 086	76 013	101 742	180 670	16 496	
3261	Plastics product mfg.....	—	17	11	g	D	D	D	D	D	D	D	D	
32619	Other plastics product mfg.....	—	8	5	603	14 149	542	1 001	11 234	43 664	34 867	77 939	8 358	
326199	All other plastics product mfg.....	—	8	5	603	14 149	542	1 001	11 234	43 664	34 867	77 939	8 358	
332	Fabricated metal product mfg.....	1	45	13	1 295	37 687	866	1 810	21 176	80 794	85 013	163 379	3 167	
3323	Architectural & structural metals mfg.....	—	11	6	627	18 870	409	871	9 532	36 040	53 595	89 130	480	
33231	Plate work & fabricated structural product mfg..	—	2	2	e	D	D	D	D	D	D	D	D	
33232	Ornamental & architectural metal products mfg.....	—	9	4	e	D	D	D	D	D	D	D	D	
332321	Metal window & door mfg.....	—	4	2	e	D	D	D	D	D	D	D	110	
3329	Other fabricated metal product mfg.....	5	6	3	e	D	D	D	D	D	D	D	D	
33291	Metal valve mfg.....	5	3	3	e	D	D	D	D	D	D	D	D	
332911	Industrial valve mfg...	8	2	2	e	D	D	D	D	D	D	D	D	
333	Machinery mfg.....	2	37	10	535	16 951	330	661	8 575	47 132	30 379	62 608	1 989	

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	VISALIA-TULARE-PORTERVILLE, CA MSA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg.....	-	6	4	431	10 732	353	601	7 202	21 224	24 215	45 533	693
3344	Semiconductor & other electronic component mfg.....	-	3	2	e	D	D	D	D	D	D	D	485
33441	Semiconductor & other electronic component mfg.....	-	3	2	e	D	D	D	D	D	D	D	485
	YUBA CITY, CA MSA												
31-33	Manufacturing	1	114	31	2 792	76 132	2 226	4 628	52 361	239 095	368 203	602 235	18 036
311	Food mfg.....	1	19	10	1 037	33 593	855	2 113	23 171	146 618	194 197	335 316	10 635
3114	Fruit & vegetable preserving & specialty food mfg.....	1	11	9	776	27 545	635	1 571	18 429	130 538	153 784	275 341	9 500
31142	Fruit & vegetable canning, pickling, & drying.....	1	11	9	776	27 545	635	1 571	18 429	130 538	153 784	275 341	9 500
311423	Dried & dehydrated food mfg.....	1	9	8	f	D	D	D	D	D	D	D	D
321	Wood product mfg.....	-	19	9	807	18 371	693	1 282	13 962	38 679	117 031	153 989	2 435
3219	Other wood product mfg....	-	16	7	681	15 308	592	1 074	11 930	28 338	102 775	131 766	2 175
32191	Millwork.....	-	9	5	519	11 299	450	803	9 100	19 475	81 723	102 105	701
321918	Other millwork (including flooring)...	-	5	4	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	13	3	270	7 118	208	379	4 760	19 538	18 025	37 079	495

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

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

Table 3. Industry Statistics for Counties: 1997

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	ALAMEDA COUNTY, CA												
31-33	Manufacturing	1	2 507	862	93 809	3 803 028	60 299	117 493	1 914 328	10 363 294	12 063 270	22 337 780	1 201 766
311	Food mfg.....	2	188	82	10 322	311 508	6 766	12 996	164 457	1 146 020	1 079 222	2 212 982	75 192
3113	Sugar & confectionery product mfg.....	3	16	11	g	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate...	4	8	6	f	D	D	D	D	D	D	D	9 042
311330	Confectionery mfg from purchased chocolate.....	4	8	6	f	D	D	D	D	D	D	D	9 042
31134	Nonchocolate confectionery mfg.....	-	6	4	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg....	-	6	4	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg.....	1	13	5	f	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	5	17	8	f	D	D	D	D	D	D	D	13 979
31161	Animal slaughtering & processing.....	5	17	8	f	D	D	D	D	D	D	D	13 979
311612	Meat processed from carcasses.....	4	12	7	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ALAMEDA COUNTY, CA—Con.												
	Manufacturing—Con.												
311	Food mfg—Con.												
3118	Bakeries & tortilla mfg	3	96	34	i	D	D	D	D	D	D	D	24 411
31181	Bread & bakery product mfg	4	77	25		3 816	94 650	2 181	4 279	48 097	217 800	118 810	334 667
311812	Commercial bakeries	5	34	19		3 296	85 478	1 805	3 618	42 698	197 162	100 300	297 262
31182	Cookie, cracker, & pasta mfg	—	15	5	g	D	D	D	D	D	D	D	7 911
311821	Cookie & cracker mfg	—	8	3	f	D	D	D	D	D	D	D	D
3119	Other food mfg	—	30	17	g	D	D	D	D	D	D	D	13 822
312	Beverage & tobacco product mfg	6	26	10		864	29 684	603	1 222	20 053	258 206	361 402	614 098
3121	Beverage mfg	6	26	10		864	29 684	603	1 222	20 053	258 206	361 402	614 098
31211	Soft drink & ice mfg	6	9	6	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg	7	6	4	f	D	D	D	D	D	D	D	D
314	Textile product mills	3	38	11	f	D	D	D	D	D	D	D	D
315	Apparel mfg	3	134	44	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	4	122	39	g	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	7	87	23	g	D	D	D	D	D	D	D	D
315212	Women's, girls', & infants' cut & sew apparel contractors	7	84	21	g	D	D	D	D	D	D	D	D
321	Wood product mfg	2	46	12	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg	2	46	12	f	D	D	D	D	D	D	D	D
322	Paper mfg	1	43	29		2 462	101 430	1 697	3 586	60 474	219 383	337 842	557 015
3222	Converted paper product mfg	1	41	27	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	2	24	19	g	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	2	18	16	g	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	—	10	6		552	23 730	316	649	13 469	60 499	66 406	127 242
323	Printing & related support activities	1	278	44		4 043	133 422	2 928	5 165	78 419	285 227	236 546	525 355
3231	Printing & related support activities	1	278	44		4 043	133 422	2 928	5 165	78 419	285 227	236 546	525 355
32311	Printing	1	244	41		3 766	122 781	2 726	4 778	71 954	263 191	232 456	499 362
323110	Commercial lithographic printing	1	124	24		2 084	72 266	1 521	2 816	44 711	158 995	171 325	329 204
323113	Commercial screen printing	—	21	7		727	22 358	526	799	9 636	46 437	18 705	66 864
325	Chemical mfg	1	101	42		6 080	341 859	2 735	5 437	97 316	881 757	551 409	1 417 720
3254	Pharmaceutical & medicine mfg	1	19	10	h	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	1	19	10	h	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) mfg	—	7	4	h	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	—	19	8	f	D	D	D	D	D	D	D	D
32551	Paint & coating mfg	—	15	6	f	D	D	D	D	D	D	D	3 640
325510	Paint & coating mfg	—	15	6	f	D	D	D	D	D	D	D	3 640
3259	Other chemical product mfg	—	27	10		758	27 105	494	1 032	17 966	106 907	75 811	182 338
32599	All other chemical product & preparation mfg	1	19	5	f	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product & preparation mfg	—	12	4		527	18 130	357	763	12 724	83 364	32 264	115 559
326	Plastics & rubber products mfg	2	111	51		4 004	108 005	3 113	5 958	68 487	297 509	280 604	578 942
3261	Plastics product mfg	2	98	46		3 772	100 225	2 936	5 584	63 103	279 146	262 717	541 291
32611	Unsupported plastics film, sheet, & bag mfg	1	23	14	f	D	D	D	D	D	D	D	D
326111	Unsupported plastics bag mfg	1	14	7		529	10 711	457	817	8 170	26 857	48 799	76 220
32619	Other plastics product mfg	3	57	22		2 088	56 601	1 628	3 020	34 352	157 358	96 198	251 467
326199	All other plastics product mfg	3	53	20		1 940	52 263	1 526	2 857	32 611	149 830	92 086	239 815

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
31-33	ALAMEDA COUNTY, CA—Con.												
	Manufacturing—Con.												
327	Nonmetallic mineral product mfg	—	80	32	3 119	133 967	2 524	5 545	94 259	389 542	283 932	655 544	27 418
3272	Glass & glass product mfg	—	28	10	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	—	28	10	g	D	D	D	D	D	D	D	D
327213	Glass container mfg	—	2	2	f	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass	—	18	8	f	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	1	30	15	977	40 453	723	1 532	27 938	127 284	95 762	221 384	4 385
32739	Other concrete product mfg	1	14	6	f	D	D	D	D	D	D	D	1 698
327390	Other concrete product mfg	1	14	6	f	D	D	D	D	D	D	D	1 698
331	Primary metal mfg	—	28	19	g	D	D	D	D	D	D	D	D
3315	Foundries	—	20	14	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	—	10	6	g	D	D	D	D	D	D	D	D
331511	Iron foundries	—	6	3	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	—	10	8	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	470	148	11 519	441 079	8 570	16 998	276 345	977 213	832 640	1 792 711	76 402
3321	Forging & stamping	2	19	11	g	D	D	D	D	D	D	D	D
33211	Forging & stamping	2	19	11	g	D	D	D	D	D	D	D	D
332116	Metal stamping	1	12	7	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	1	102	30	2 578	92 609	1 870	3 436	58 828	214 702	150 102	362 252	10 890
33231	Plate work & fabricated structural product mfg	—	24	9	717	31 170	513	986	20 210	99 367	60 211	159 983	2 841
332312	Fabricated structural metal mfg	—	13	8	618	26 917	443	839	17 791	91 775	53 846	145 997	2 694
33232	Ornamental & architectural metal products mfg	1	78	21	1 861	61 439	1 357	2 450	38 618	115 335	89 891	202 269	8 049
332322	Sheet metal work mfg	1	50	15	1 377	48 122	1 024	1 773	31 130	86 865	63 842	147 910	6 612
3324	Boiler, tank, & shipping container mfg	1	16	10	g	D	D	D	D	D	D	D	D
33243	Metal can, box, & other metal container (light gauge) mfg	1	13	9	f	D	D	D	D	D	D	D	D
332431	Metal can mfg	—	7	5	703	35 438	610	1 307	30 499	121 875	253 480	358 539	3 332
3325	Hardware mfg	—	6	5	515	18 622	382	752	11 485	37 311	26 245	63 709	D
33251	Hardware mfg	—	6	5	515	18 622	382	752	11 485	37 311	26 245	63 709	D
332510	Hardware mfg	—	6	5	515	18 622	382	752	11 485	37 311	26 245	63 709	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	219	54	h	D	D	D	D	D	D	D	D
33271	Machine shops	1	195	43	2 943	117 566	2 233	4 286	72 960	228 476	108 853	337 595	20 261
332710	Machine shops	1	195	43	2 943	117 566	2 233	4 286	72 960	228 476	108 853	337 595	20 261
33272	Turned product & screw, nut, & bolt mfg	—	24	11	f	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, & allied activities	3	46	19	f	D	D	D	D	D	D	D	5 649
33281	Coating, engraving, heat treating, & allied activities	3	46	19	f	D	D	D	D	D	D	D	5 649
332813	Electroplating, plating, polishing, anodizing, & coloring	4	24	11	579	17 280	468	837	11 927	32 707	10 313	43 181	D
3329	Other fabricated metal product mfg	1	36	13	1 000	39 194	725	1 502	24 440	88 249	60 348	148 038	3 194
33299	All other fabricated metal product mfg	1	23	7	632	22 364	448	883	13 031	54 749	39 964	94 557	D
332999	All other miscellaneous fabricated metal product mfg	—	16	5	f	D	D	D	D	D	D	D	D
333	Machinery mfg	—	167	65	9 388	416 993	3 678	6 883	142 610	969 228	1 077 927	2 015 832	80 061
3332	Industrial machinery mfg	—	41	22	6 439	282 228	1 922	3 477	77 501	688 711	850 874	1 519 416	66 302
33329	Other industrial machinery mfg	—	41	22	6 439	282 228	1 922	3 477	77 501	688 711	850 874	1 519 416	66 302
333295	Semiconductor machinery mfg	—	22	16	i	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg	4	26	7	550	24 737	268	519	9 346	47 723	24 821	72 330	D
33331	Commercial & service industry machinery mfg	4	26	7	550	24 737	268	519	9 346	47 723	24 821	72 330	D
3335	Metalworking machinery mfg	—	41	14	f	D	D	D	D	D	D	D	4 918
33351	Metalworking machinery mfg	—	41	14	f	D	D	D	D	D	D	D	4 918

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ALAMEDA COUNTY, CA—Con.												
	Manufacturing—Con.												
333	Machinery mfg—Con.												
3339	Other general-purpose machinery mfg	1	45	15	1 061	53 267	479	1 007	18 004	109 048	139 903	240 656	D
33399	All other general-purpose machinery mfg	1	30	11	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	1	329	160	20 218	936 041	11 089	21 872	335 242	3 161 352	3 678 245	6 853 791	384 432
3341	Computer & peripheral equipment mfg	1	58	28	2 815	167 819	968	1 864	48 125	821 110	1 264 604	2 085 155	D
33411	Computer & peripheral equipment mfg	1	58	28	2 815	167 819	968	1 864	48 125	821 110	1 264 604	2 085 155	D
334111	Electronic computer mfg	—	22	10	g	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	3	27	15	g	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	1	50	27	h	D	D	D	D	D	D	D	87 864
33421	Telephone apparatus mfg	—	22	11	1 735	129 912	407	875	15 900	601 948	458 264	1 039 305	D
334210	Telephone apparatus mfg	—	22	11	1 735	129 912	407	875	15 900	601 948	458 264	1 039 305	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	5	18	11	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	5	18	11	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	2	122	56	6 838	241 599	4 865	8 952	124 635	591 059	1 021 985	1 648 530	113 504
33441	Semiconductor & other electronic component mfg	2	122	56	6 838	241 599	4 865	8 952	124 635	591 059	1 021 985	1 648 530	113 504
334412	Bare printed circuit board mfg	—	30	14	2 113	65 173	1 697	3 020	43 475	149 540	147 353	294 993	D
334413	Semiconductor & related device mfg ...	2	36	12	1 102	49 850	615	1 138	15 467	166 747	132 296	293 643	33 356
334418	Printed circuit assembly (electronic assembly) mfg	1	23	17	h	D	D	D	D	D	D	D	D
334419	Other electronic component mfg	6	25	10	627	27 812	349	637	9 832	75 075	61 263	133 349	17 473
3345	Navigational, measuring, medical, & control instruments mfg	1	70	31	2 504	124 372	1 125	2 315	37 731	340 913	202 988	548 356	26 348
33451	Navigational, measuring, medical, & control instruments mfg	1	70	31	2 504	124 372	1 125	2 315	37 731	340 913	202 988	548 356	26 348
334515	Electricity measuring & testing instrument mfg	1	17	10	874	49 525	356	893	14 607	166 331	99 922	270 651	8 182
334516	Analytical laboratory instrument mfg	2	14	9	f	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media .	2	23	14	4 947	215 968	3 115	6 663	92 667	675 893	627 247	1 299 925	118 289
33461	Mfg & reproducing magnetic & optical media	2	23	14	4 947	215 968	3 115	6 663	92 667	675 893	627 247	1 299 925	118 289
334612	Prerecorded CD (except software), tape, & record reproducing	3	5	4	f	D	D	D	D	D	D	D	D
334613	Magnetic & optical recording media mfg .	2	12	6	h	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	56	22	1 983	79 739	1 144	2 187	29 880	193 048	159 779	354 938	11 702
3351	Electric lighting equipment mfg	—	20	9	f	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	—	20	9	f	D	D	D	D	D	D	D	D
335122	Commercial/industrial/institutional electric lighting fixture mfg ...	—	9	5	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	—	17	9	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ALAMEDA COUNTY, CA—Con.													
31-33	Manufacturing—Con.												
336	Transportation equipment mfg	—	64	21	7 156	384 613	6 223	11 517	325 593	751 717	2 504 400	3 258 656	D
3361	Motor vehicle mfg	—	2	2	i	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	—	1	1	h	D	D	D	D	D	D	D	D
336111	Automobile mfg	—	1	1	h	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	—	1	1	f	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	—	1	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	1	35	12	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	127	28	g	D	D	D	D	D	D	D	3 662
3371	Household & institutional furniture & kitchen cabinet mfg	4	89	9	721	18 283	603	1 127	13 594	37 529	31 109	68 834	1 545
3372	Office furniture (including fixtures) mfg	1	31	16	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	1	31	16	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	192	34	4 228	158 545	2 345	4 652	63 255	288 358	183 032	468 838	19 622
3391	Medical equipment & supplies mfg	1	93	17	2 473	109 578	1 183	2 448	39 122	180 669	111 982	289 583	14 962
33911	Medical equipment & supplies mfg	1	93	17	2 473	109 578	1 183	2 448	39 122	180 669	111 982	289 583	14 962
339112	Surgical & medical instrument mfg	—	21	8	1 585	82 318	594	1 350	23 297	123 551	89 228	209 606	11 854
339116	Dental laboratories ...	2	46	1	539	17 670	391	726	10 969	32 423	7 983	40 770	1 025
3399	Other miscellaneous mfg ...	2	99	17	1 755	48 967	1 162	2 204	24 133	107 689	71 050	179 255	4 660
33995	Sign mfg	1	26	6	549	21 787	275	497	7 218	40 322	22 018	63 476	1 190
339950	Sign mfg	1	26	6	549	21 787	275	497	7 218	40 322	22 018	63 476	1 190
AMADOR COUNTY, CA													
31-33	Manufacturing	2	51	10	732	19 452	552	943	13 557	67 818	70 713	136 784	5 267
BUTTE COUNTY, CA													
31-33	Manufacturing	2	232	53	4 944	128 396	3 939	7 703	89 668	377 262	397 132	771 554	41 327
311	Food mfg	3	25	10	1 283	33 615	1 149	2 177	26 795	121 956	132 075	255 136	5 279
3114	Fruit & vegetable preserving & specialty food mfg	3	7	5	f	D	D	D	D	D	D	D	2 299
31142	Fruit & vegetable canning, pickling, & drying	3	6	5	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	3	4	4	787	20 973	726	1 370	18 131	78 889	81 095	159 889	2 265
321	Wood product mfg	2	19	7	726	19 071	626	1 403	15 458	48 340	76 938	125 570	3 093
3219	Other wood product mfg ...	2	15	4	519	12 321	454	1 016	10 172	22 869	48 313	72 923	D
336	Transportation equipment mfg	—	9	2	523	14 091	431	1 089	10 344	29 196	84 124	109 888	D
COLUSA COUNTY, CA													
31-33	Manufacturing	1	20	8	651	20 772	520	1 092	13 670	75 439	192 221	265 772	D

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CONTRA COSTA COUNTY, CA													
31-33	Manufacturing	2	723	158	19 366	888 978	12 384	25 907	499 514	3 831 528	7 921 466	11 644 788	414 611
311	Food mfg	1	57	17	1 921	71 928	1 428	3 027	53 774	249 348	492 168	735 651	14 500
3113	Sugar & confectionery product mfg	—	5	1	f	D	D	D	D	D	D	D	D
31131	Sugar mfg	—	1	1	f	D	D	D	D	D	D	D	D
311312	Cane sugar refining	—	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	115	12	1 107	31 834	731	1 315	18 189	66 485	68 206	134 956	5 590
3231	Printing & related support activities	1	115	12	1 107	31 834	731	1 315	18 189	66 485	68 206	134 956	5 590
32311	Printing	1	104	9	950	27 472	604	1 079	15 089	57 949	66 305	124 458	D
323110	Commercial lithographic printing	—	56	6	673	19 286	410	695	10 129	36 493	52 931	89 520	3 329
324	Petroleum & coal products mfg	2	15	10	3 881	226 075	2 644	6 208	154 575	1 737 797	5 506 344	7 156 458	D
3241	Petroleum & coal products mfg	2	15	10	3 881	226 075	2 644	6 208	154 575	1 737 797	5 506 344	7 156 458	D
32411	Petroleum refineries	2	5	4	h	D	D	D	D	D	D	D	D
324110	Petroleum refineries	2	5	4	h	D	D	D	D	D	D	D	D
325	Chemical mfg	—	43	17	1 566	88 748	923	1 955	49 365	450 827	314 700	768 612	25 722
3251	Basic chemical mfg	—	18	11	1 122	66 956	684	1 465	40 644	395 952	281 182	680 038	22 769
327	Nonmetallic mineral product mfg	1	29	7	512	21 554	419	881	16 204	66 199	71 655	137 930	7 252
331	Primary metal mfg	—	7	1	g	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	—	1	1	f	D	D	D	D	D	D	D	D
33122	Rolling & drawing of purchased steel	—	1	1	f	D	D	D	D	D	D	D	D
331221	Cold-rolled steel shape mfg	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	95	26	1 985	76 782	1 380	2 643	42 429	179 652	251 180	433 492	7 370
3323	Architectural & structural metals mfg	—	30	10	508	18 382	378	776	10 570	65 491	32 185	94 099	1 228
3329	Other fabricated metal product mfg	1	14	9	793	30 570	520	929	17 281	47 698	65 125	120 511	4 194
33291	Metal valve mfg	5	4	3	519	21 684	331	549	11 725	8 814	16 979	35 590	D
332911	Industrial valve mfg	5	4	3	519	21 684	331	549	11 725	8 814	16 979	35 590	D
333	Machinery mfg	2	38	8	708	28 819	453	930	16 034	70 762	38 945	108 558	6 524
334	Computer & electronic product mfg	2	68	23	3 789	191 518	1 502	2 905	47 937	477 127	320 221	791 612	26 034
3345	Navigational, measuring, medical, & control instruments mfg	1	29	16	2 860	154 608	918	1 740	26 859	396 424	261 339	651 528	19 784
33451	Navigational, measuring, medical, & control instruments mfg	1	29	16	2 860	154 608	918	1 740	26 859	396 424	261 339	651 528	19 784
334516	Analytical laboratory instrument mfg	—	7	4	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	6	106	13	720	20 839	521	964	11 442	44 783	19 782	64 717	1 845
EL DORADO COUNTY, CA													
31-33	Manufacturing	1	144	28	1 775	56 352	1 342	2 593	36 485	133 984	152 734	287 861	9 577
FRESNO COUNTY, CA													
31-33	Manufacturing	1	696	229	27 552	704 270	19 949	38 623	428 507	2 347 573	3 473 538	5 667 592	160 726
311	Food mfg	2	115	62	11 134	263 420	8 778	17 081	173 611	1 056 563	2 014 876	2 980 941	65 922
3114	Fruit & vegetable preserving & specialty food mfg	—	22	18	h	D	D	D	D	D	D	D	30 681
31141	Frozen food mfg	5	2	2	g	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg	5	2	2	g	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	—	20	16	h	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	—	8	7	g	D	D	D	D	D	D	D	D
311423	Dried & dehydrated food mfg	—	11	9	g	D	D	D	D	D	D	D	D
3115	Dairy product mfg	—	4	3	524	20 947	244	542	9 716	131 367	309 890	438 251	2 778
31151	Dairy product (except frozen) mfg	—	3	3	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	FRESNO COUNTY, CA—Con.												
31-33	Manufacturing—Con.												
311	Food mfg—Con.												
3116	Meat product mfg.....	5	16	12	3 452	65 945	2 983	5 312	50 354	187 013	677 612	856 696	11 677
31161	Animal slaughtering & processing.....	5	16	12	3 452	65 945	2 983	5 312	50 354	187 013	677 612	856 696	11 677
311611	Animal (except poultry) slaughtering.....	9	7	4	930	21 718	770	983	14 896	50 609	387 890	438 401	3 073
311615	Poultry processing....	—	3	3	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg.....	—	46	13	g	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg.....	1	36	5	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries..	—	10	5	553	18 904	314	585	6 681	38 223	22 094	60 360	417
31183	Tortilla mfg.....	—	3	3	682	14 411	440	965	10 544	38 926	37 743	76 834	934
311830	Tortilla mfg.....	—	3	3	682	14 411	440	965	10 544	38 926	37 743	76 834	934
3119	Other food mfg.....	1	11	7	693	21 200	434	794	9 962	146 140	70 920	162 448	3 606
312	Beverage & tobacco product mfg.....	—	13	10	g	D	D	D	D	D	D	D	D
3121	Beverage mfg.....	—	13	10	g	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg.....	—	3	3	g	D	D	D	D	D	D	D	D
312111	Soft drink mfg.....	—	2	2	g	D	D	D	D	D	D	D	D
322	Paper mfg.....	—	11	8	759	21 005	507	1 032	12 336	51 606	98 454	150 520	D
3222	Converted paper product mfg.....	—	10	7	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg.....	—	10	7	f	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg.....	—	5	5	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	2	79	12	1 072	27 068	705	1 263	15 469	53 756	35 201	89 303	2 749
3231	Printing & related support activities.....	2	79	12	1 072	27 068	705	1 263	15 469	53 756	35 201	89 303	2 749
32311	Printing.....	2	74	12	g	D	D	D	D	D	D	D	2 728
323110	Commercial lithographic printing..	1	40	7	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	1	24	13	947	26 405	757	1 586	17 827	88 808	70 019	161 173	9 562
3261	Plastics product mfg.....	1	21	12	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	—	38	15	1 067	35 444	792	1 653	23 669	143 711	100 863	245 874	D
3272	Glass & glass product mfg..	—	6	4	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg.....	—	6	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	1	96	27	1 776	49 148	1 274	2 504	31 280	105 688	108 464	212 437	D
3323	Architectural & structural metals mfg.....	1	21	7	f	D	D	D	D	D	D	D	D
333	Machinery mfg.....	1	66	26	3 773	114 530	2 605	4 872	60 076	225 360	366 642	591 681	14 953
3333	Commercial & service industry machinery mfg..	—	3	1	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg.....	—	3	1	f	D	D	D	D	D	D	D	D
333311	Automatic vending machine mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg.....	—	23	14	g	D	D	D	D	D	D	D	D
33391	Pump & compressor mfg.....	—	5	3	f	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg.....	—	4	3	f	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg.....	—	3	3	f	D	D	D	D	D	D	D	D
333923	Overhead traveling crane, hoist, & monorail system mfg..	—	1	1	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg.....	2	15	8	905	29 063	593	970	13 450	56 394	42 839	98 085	3 039
333993	Packaging machinery mfg.....	3	9	5	613	20 310	397	607	9 503	38 267	30 625	68 627	1 755

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
FRESNO COUNTY, CA													
—Con.													
31-33	Manufacturing—												
	Con.												
334	Computer & electronic product mfg.....	—	12	2	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg.....	—	3	2	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg.....	—	2	1	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg.....	—	2	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	3	33	14	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg.....	1	43	7	664	11 679	570	917	8 744	20 423	22 126	44 287	832
3371	Household & institutional furniture & kitchen cabinet mfg.....	1	32	4	520	8 903	449	707	6 782	14 657	15 821	32 207	374
339	Miscellaneous mfg.....	1	70	7	961	25 013	593	1 151	12 669	127 667	38 118	168 256	3 943
3391	Medical equipment & supplies mfg.....	1	43	4	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg.....	1	43	4	f	D	D	D	D	D	D	D	D
GLENN COUNTY, CA													
31-33	Manufacturing	—	29	9	946	29 247	790	1 561	23 601	68 000	192 170	290 607	6 764
HUMBOLDT COUNTY, CA													
31-33	Manufacturing	1	178	42	5 540	161 428	4 628	9 522	125 874	454 634	569 184	1 041 922	32 885
311	Food mfg.....	2	33	8	714	12 623	547	858	8 302	58 768	97 274	156 241	4 996
321	Wood product mfg.....	1	39	18	3 604	115 987	3 160	7 051	95 094	323 863	389 746	726 881	23 079
3211	Sawmills & wood preservation.....	1	21	10	3 098	102 847	2 718	6 143	84 324	284 331	332 715	628 291	20 829
32111	Sawmills & wood preservation.....	1	21	10	3 098	102 847	2 718	6 143	84 324	284 331	332 715	628 291	20 829
321113	Sawmills.....	1	21	10	3 098	102 847	2 718	6 143	84 324	284 331	332 715	628 291	20 829
IMPERIAL COUNTY, CA													
31-33	Manufacturing	1	61	18	1 481	40 605	1 202	2 445	26 732	94 709	149 554	241 643	11 706
KERN COUNTY, CA													
31-33	Manufacturing	1	390	88	14 306	379 246	11 322	24 464	250 987	1 608 492	1 189 154	2 824 572	145 184
311	Food mfg.....	—	39	17	7 192	165 788	6 130	14 619	115 874	571 052	515 956	1 100 368	67 272
3114	Fruit & vegetable preserving & specialty food mfg.....	—	5	5	2 813	54 529	2 633	6 097	42 577	195 309	129 709	347 409	D
31142	Fruit & vegetable canning, pickling, & drying.....	—	4	4	g	D	D	D	D	D	D	D	D
311422	Specialty canning.....	—	1	1	g	D	D	D	D	D	D	D	D
3119	Other food mfg.....	—	9	7	3 755	91 360	3 024	7 570	59 183	334 238	332 010	652 181	45 420
31191	Snack food mfg.....	—	2	2	g	D	D	D	D	D	D	D	D
311911	Roasted nuts & peanut butter mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
311919	Other snack food mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
31199	All other food mfg.....	—	6	4	g	D	D	D	D	D	D	D	D
311991	Perishable prepared food mfg.....	—	2	2	g	D	D	D	D	D	D	D	D
321	Wood product mfg.....	—	15	3	646	5 555	482	831	3 958	8 407	26 594	35 011	1 310
325	Chemical mfg.....	—	22	9	1 216	47 858	904	1 769	31 287	379 576	133 351	513 488	26 981
3251	Basic chemical mfg.....	—	4	3	f	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg.....	—	2	2	f	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg.....	—	2	2	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	1	28	11	823	28 456	637	1 279	20 030	104 070	81 472	187 135	8 512
3273	Cement & concrete product mfg.....	1	22	8	622	23 343	471	959	16 192	90 212	72 128	164 621	7 186

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
KERN COUNTY, CA—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg	2	81	13	1 025	27 082	777	1 406	18 337	63 686	34 170	98 025	4 566
333	Machinery mfg	4	40	9	542	16 097	344	580	8 618	35 169	33 052	67 831	2 337
KINGS COUNTY, CA													
31-33	Manufacturing	—	65	23	2 796	90 625	2 312	4 778	67 984	249 640	496 133	748 732	23 208
311	Food mfg	—	15	6	1 029	32 952	835	1 682	23 919	117 592	294 475	413 001	2 686
3114	Fruit & vegetable preserving & specialty food mfg	—	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	—	1	1	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	—	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	2	2	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	—	1	1	f	D	D	D	D	D	D	D	D
32621	Tire mfg	—	1	1	f	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	—	1	1	f	D	D	D	D	D	D	D	D
LOS ANGELES COUNTY, CA													
31-33	Manufacturing	1	17 915	5 839	622 302	20 311 335	430 159	817 449	10 295 069	53 692 011	52 735 817	106 706 380	3 549 692
311	Food mfg	2	1 137	349	39 804	1 109 807	27 745	51 255	619 148	3 806 969	5 057 785	8 848 733	212 187
3111	Animal food mfg	1	21	9	1 633	62 488	1 059	2 390	43 127	482 609	382 021	853 306	23 720
31111	Animal food mfg	1	21	9	1 633	62 488	1 059	2 390	43 127	482 609	382 021	853 306	23 720
311111	Dog & cat food mfg ...	—	11	7	1 522	58 184	1 003	2 259	40 997	468 540	352 884	808 986	22 923
3112	Grain & oilseed milling ...	1	25	15	1 154	43 436	786	1 571	26 937	164 866	492 771	658 829	6 379
31122	Starch & vegetable fats & oils mfg	2	11	7	645	22 970	459	936	16 001	79 738	245 688	325 425	2 655
311225	Fats & oils refining & blending	2	10	6	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg	—	38	10	1 231	37 323	1 015	1 997	24 254	115 411	111 611	228 899	14 484
31133	Confectionery mfg from purchased chocolate ...	—	14	6	815	24 907	698	1 308	17 802	79 644	75 086	154 800	11 509
311330	Confectionery mfg from purchased chocolate	—	14	6	815	24 907	698	1 308	17 802	79 644	75 086	154 800	11 509
3114	Fruit & vegetable preserving & specialty food mfg	3	64	37	4 418	109 798	3 552	6 070	63 785	344 101	409 460	753 307	33 630
31141	Frozen food mfg	2	31	20	2 637	58 209	2 292	3 867	35 575	179 567	203 089	382 949	13 869
311412	Frozen specialty food mfg	2	26	16	2 403	52 071	2 088	3 423	30 677	163 114	166 524	329 395	12 393
31142	Fruit & vegetable canning, pickling, & drying	4	33	17	1 781	51 589	1 260	2 203	28 210	164 534	206 371	370 358	19 761
311421	Fruit & vegetable canning	4	26	13	982	32 391	654	1 306	15 700	98 071	116 821	215 262	4 731
3115	Dairy product mfg	2	56	35	4 061	150 854	2 434	4 772	73 884	477 923	1 027 431	1 501 073	31 602
31151	Dairy product (except frozen) mfg	2	38	27	3 439	127 394	2 007	3 852	56 916	410 561	888 909	1 295 173	27 543
311511	Fluid milk mfg	2	17	14	2 563	102 131	1 458	2 840	43 360	345 509	742 811	1 084 574	20 445
31152	Ice cream & frozen dessert mfg	4	18	8	622	23 460	427	920	16 968	67 362	138 522	205 900	4 059
311520	Ice cream & frozen dessert mfg	4	18	8	622	23 460	427	920	16 968	67 362	138 522	205 900	4 059
3116	Meat product mfg	2	91	46	5 182	131 180	4 339	8 341	89 072	446 342	959 944	1 407 018	17 124
31161	Animal slaughtering & processing	2	91	46	5 182	131 180	4 339	8 341	89 072	446 342	959 944	1 407 018	17 124
311611	Animal (except poultry) slaughtering	1	28	10	2 239	58 146	1 910	4 182	44 090	186 705	550 236	737 817	4 520
311612	Meat processed from carcasses	4	52	27	1 990	52 541	1 655	3 151	33 778	189 518	322 903	511 574	8 794
311615	Poultry processing	—	8	6	645	9 858	614	866	9 139	49 324	68 094	117 463	1 073
3117	Seafood product preparation & packaging ..	—	39	14	2 151	47 942	1 848	3 256	33 305	113 960	332 397	444 806	8 667
31171	Seafood product preparation & packaging	—	39	14	2 151	47 942	1 848	3 256	33 305	113 960	332 397	444 806	8 667
311711	Seafood canning	—	11	5	1 043	21 857	881	1 505	15 496	49 836	112 391	161 833	D
311712	Fresh & frozen seafood processing ..	—	28	9	1 108	26 085	967	1 751	17 809	64 124	220 006	282 973	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LOS ANGELES COUNTY, CA—Con.													
31-33	Manufacturing—Con.												
311	Food mfg—Con.												
3118	Bakeries & tortilla mfg	2	654	112	14 690	377 072	9 016	16 171	188 269	1 090 541	690 126	1 780 170	51 241
31181	Bread & bakery product mfg	2	589	79	11 419	309 430	6 522	11 730	146 440	884 348	481 300	1 365 435	38 443
311811	Retail bakeries	5	450	25	2 486	30 776	1 610	2 042	16 060	66 449	41 860	108 460	4 436
311812	Commercial bakeries	2	130	48	8 130	261 406	4 269	8 612	120 930	762 998	369 529	1 132 421	29 465
311813	Frozen cakes, pies, & other pastries mfg	—	9	6	803	17 248	643	1 076	9 450	54 901	69 911	124 554	4 542
31182	Cookie, cracker, & pasta mfg	1	40	15	1 245	31 541	903	1 489	17 869	88 034	122 787	209 976	7 468
311821	Cookie & cracker mfg	—	16	9	854	21 476	656	1 005	11 580	54 537	59 074	114 062	4 032
31183	Tortilla mfg	2	25	18	2 026	36 101	1 591	2 952	23 960	118 159	86 039	204 759	5 330
311830	Tortilla mfg	2	25	18	2 026	36 101	1 591	2 952	23 960	118 159	86 039	204 759	5 330
3119	Other food mfg	1	149	71	5 284	149 714	3 696	6 687	76 515	571 216	652 024	1 221 325	25 340
31192	Coffee & tea mfg	—	11	9	713	24 296	435	825	13 246	132 883	165 180	293 586	6 948
311920	Coffee & tea mfg	—	11	9	713	24 296	435	825	13 246	132 883	165 180	293 586	6 948
31194	Seasoning & dressing mfg	2	39	15	1 221	39 768	885	1 620	23 389	140 125	173 257	315 509	4 741
311941	Mayonnaise, dressing, & other prepared sauce mfg	2	19	8	745	22 516	610	1 175	15 412	81 058	111 100	192 156	2 832
31199	All other food mfg	1	77	38	2 865	71 757	2 055	3 793	34 149	236 502	248 160	484 114	10 949
311991	Perishable prepared food mfg	1	28	19	1 583	37 827	1 208	2 286	20 297	115 701	102 453	217 829	5 984
311999	All other miscellaneous food mfg	1	49	19	1 282	33 930	847	1 507	13 852	120 801	145 707	266 285	4 965
312	Beverage & tobacco product mfg	—	42	20	3 903	186 955	2 567	5 428	118 664	1 398 461	1 294 489	2 684 831	135 821
3121	Beverage mfg	—	41	20	h	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	—	28	14	1 829	68 867	993	2 168	32 096	380 057	603 455	979 844	8 210
312111	Soft drink mfg	—	15	10	1 560	60 319	834	1 796	26 894	363 124	596 973	956 344	6 834
31212	Breweries	—	8	5	g	D	D	D	D	D	D	D	127 189
312120	Breweries	—	8	5	g	D	D	D	D	D	D	D	127 189
313	Textile mills	3	294	96	8 465	199 648	7 037	14 061	133 233	456 885	494 821	943 774	42 653
3132	Fabric mills	3	116	37	4 252	93 820	3 584	6 841	61 354	190 471	209 197	399 319	18 144
31321	Broadwoven fabric mills	8	43	8	934	15 783	854	1 175	13 273	26 901	32 448	59 338	3 090
313210	Broadwoven fabric mills	8	43	8	934	15 783	854	1 175	13 273	26 901	32 448	59 338	3 090
31322	Narrow fabric mills & schiffli machine embroidery	1	38	11	1 346	26 829	1 175	2 509	19 929	65 267	28 344	93 376	D
313221	Narrow fabric mills	1	18	5	670	15 020	566	1 236	11 093	42 231	19 325	61 374	D
313222	Schiffli machine embroidery	—	20	6	676	11 809	609	1 273	8 836	23 036	9 019	32 002	D
31324	Knit fabric mills	2	31	17	1 891	50 394	1 489	3 042	27 574	96 043	145 443	241 411	D
313241	Weft knit fabric mills	2	24	14	g	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	3	158	54	3 907	101 753	3 178	6 697	68 483	255 831	273 639	522 290	D
31331	Textile & fabric finishing mills	3	142	48	3 626	91 130	2 975	6 263	62 407	231 966	238 495	463 194	D
313311	Broadwoven fabric finishing mills	2	103	30	1 772	44 922	1 398	2 835	28 189	135 697	138 014	270 449	D
313312	Textile & fabric finishing mills	3	39	18	1 854	46 208	1 577	3 428	34 218	96 269	100 481	192 745	13 816
314	Textile product mills	3	474	132	13 116	259 825	10 584	21 440	160 825	608 438	774 719	1 375 692	31 051
3141	Textile furnishings mills	3	174	48	6 507	142 873	5 206	9 980	86 796	388 014	569 448	952 094	14 951
31411	Carpet & rug mills	3	15	9	2 217	71 582	1 576	3 438	34 429	219 608	296 156	515 471	9 525
314110	Carpet & rug mills	3	15	9	2 217	71 582	1 576	3 438	34 429	219 608	296 156	515 471	9 525
31412	Curtain & linen mills	3	159	39	4 290	71 291	3 630	6 542	52 367	168 406	273 292	436 623	5 426
314121	Curtain & drapery mills	4	91	5	535	8 631	364	644	4 298	17 037	14 644	31 936	327
314129	Other household textile product mills	3	68	34	3 755	62 660	3 266	5 898	48 069	151 369	258 648	404 687	5 099
3149	Other textile product mills	3	300	84	6 609	116 952	5 378	11 460	74 029	220 424	205 271	423 598	16 100
31491	Textile bag & canvas mills	3	98	17	2 144	40 779	1 735	2 813	20 972	67 519	65 315	128 984	2 732
314911	Textile bag mills	1	24	7	1 250	20 442	1 094	1 690	9 817	33 830	39 658	69 650	556
314912	Canvas & related product mills	6	74	10	894	20 337	641	1 123	11 155	33 689	25 657	59 334	2 176
31499	All other textile product mills	3	202	67	4 465	76 173	3 643	8 647	53 057	152 905	139 956	294 614	13 368
314999	All other miscellaneous textile product mills	3	198	66	4 403	74 476	3 588	8 539	51 637	149 038	136 424	286 971	13 314

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	LOS ANGELES COUNTY, CA—Con.												
	Manufacturing—Con.												
315	Apparel mfg	2	3 808	1 237	96 523	1 657 920	81 336	136 236	1 109 099	4 138 202	4 523 877	8 574 606	170 913
3151	Apparel knitting mills	1	95	42	3 655	63 524	3 069	6 065	44 050	148 588	178 999	329 526	14 301
31519	Other apparel knitting mills	1	81	39	h	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills	1	76	38	h	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	2	3 487	1 143	87 805	1 498 829	74 112	123 135	1 004 794	3 755 285	4 138 962	7 804 565	147 083
31521	Cut & sew apparel contractors	5	2 354	683	45 622	505 746	42 805	65 405	441 699	884 415	255 818	1 129 442	32 637
315211	Men's & boys' cut & sew apparel contractors	3	102	62	4 320	54 341	4 098	7 193	48 402	105 431	15 786	121 030	3 247
315212	Women's, girls', & infants' cut & sew apparel contractors ..	5	2 252	621	41 302	451 405	38 707	58 212	393 297	778 984	240 032	1 008 412	29 390
31522	Men's & boys' cut & sew apparel mfg	2	237	101	9 113	171 945	7 851	14 701	125 015	399 898	475 869	861 767	13 110
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	2	88	45	2 951	60 131	2 410	4 454	41 848	143 473	239 872	373 044	4 046
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	1	43	25	h	D	D	D	D	D	D	D	3 926
315228	Men's & boys' cut & sew other outerwear mfg	5	60	19	g	D	D	D	D	D	D	D	4 724
31523	Women's & girls' cut & sew apparel mfg	1	828	342	31 906	799 414	22 532	41 441	424 050	2 428 128	3 370 659	5 734 794	100 039
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	2	34	15	1 321	30 391	939	1 814	16 675	71 916	114 007	183 230	1 176
315232	Women's & girls' cut & sew blouse & shirt mfg	2	264	104	9 034	229 218	6 605	11 064	119 993	679 230	1 019 561	1 669 252	9 760
315233	Women's & girls' cut & sew dress mfg	1	233	101	7 939	231 330	5 306	10 177	117 917	624 227	960 042	1 568 854	14 152
315234	Women's & girls' cut & sew suit, coat, skirt mfg	-	69	24	1 768	42 139	1 238	2 054	23 295	136 160	172 749	304 605	1 042
315239	Women's & girls' cut & sew other outerwear mfg	1	228	98	11 844	266 336	8 444	16 332	146 170	916 595	1 104 300	2 008 853	73 909
31529	Other cut & sew apparel mfg	6	68	17	1 164	21 724	924	1 588	14 030	42 844	36 616	78 562	1 297
315299	All other cut & sew apparel mfg	8	47	14	903	15 290	695	1 173	9 684	31 145	25 567	56 002	767
3159	Apparel accessories & other apparel mfg	2	226	52	5 063	95 567	4 155	7 036	60 255	234 329	205 916	440 515	9 529
31599	Apparel accessories & other apparel mfg	2	226	52	5 063	95 567	4 155	7 036	60 255	234 329	205 916	440 515	9 529
315991	Hat, cap, & millinery mfg	5	33	8	f	D	D	D	D	D	D	D	D
315993	Men's & boys' neckwear mfg	-	11	3	772	14 445	715	1 267	11 191	62 532	52 718	114 114	D
315999	Other apparel accessories & other apparel mfg	3	181	40	3 633	70 762	2 865	4 765	41 459	152 955	138 120	292 741	7 994
316	Leather & allied product mfg .	2	114	40	4 283	74 460	3 616	6 621	50 843	154 236	125 157	280 537	5 037
3162	Footwear mfg	3	48	18	1 436	21 299	1 318	2 297	16 545	45 875	30 145	75 517	D
31621	Footwear mfg	3	48	18	1 436	21 299	1 318	2 297	16 545	45 875	30 145	75 517	D
316214	Women's footwear (except athletic) mfg .	2	23	11	947	13 972	866	1 649	10 951	29 559	17 316	47 084	358
3169	Other leather & allied product mfg	1	53	22	2 757	51 117	2 231	4 194	32 956	104 314	89 131	195 177	3 856
31699	Other leather & allied product mfg	1	53	22	2 757	51 117	2 231	4 194	32 956	104 314	89 131	195 177	3 856
316991	Luggage mfg	-	16	9	706	15 046	563	1 043	9 021	35 098	22 532	57 310	D
316999	All other leather good mfg	2	20	8	1 437	24 727	1 125	2 015	16 159	50 988	50 615	103 936	D
321	Wood product mfg	2	251	78	5 949	136 756	4 722	9 512	91 418	275 060	266 665	541 309	14 867
3219	Other wood product mfg ...	2	231	72	5 475	125 765	4 295	8 578	82 258	244 806	215 924	460 919	12 865
32191	Millwork	2	105	35	2 830	67 640	2 266	4 626	45 390	127 431	102 721	229 899	5 682
321911	Wood window & door mfg	2	43	15	1 568	36 548	1 273	2 701	26 516	75 670	56 605	132 507	4 320
321918	Other millwork (including flooring) ...	1	45	14	985	24 928	748	1 493	13 885	40 908	34 750	75 190	914
32192	Wood container & pallet mfg	2	66	21	1 315	27 046	1 095	2 125	18 572	57 589	55 278	112 786	2 117
321920	Wood container & pallet mfg	2	66	21	1 315	27 046	1 095	2 125	18 572	57 589	55 278	112 786	2 117
32199	All other wood product mfg	2	60	16	1 330	31 079	934	1 827	18 296	59 786	57 925	118 234	5 066
321999	All other miscellaneous wood product mfg ...	2	56	16	1 274	29 566	894	1 744	17 383	56 825	53 490	110 815	4 936

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	LOS ANGELES COUNTY, CA—Con.												
	Manufacturing—Con.												
322	Paper mfg	1	236	140	13 243	462 103	9 932	20 644	287 298	1 106 414	1 489 516	2 603 459	70 209
3221	Pulp, paper, & paperboard mills	—	10	9	1 020	53 588	753	1 725	32 981	146 017	227 350	375 762	11 302
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
3222	Converted paper product mfg	1	226	131	12 223	408 515	9 179	18 919	254 317	960 397	1 262 166	2 227 697	58 907
32221	Paperboard container mfg	1	97	63	6 988	262 630	5 244	11 230	156 902	582 029	837 805	1 416 760	33 366
322211	Corrugated & solid fiber box mfg	1	56	35	4 417	172 195	3 216	7 134	103 410	380 393	662 709	1 040 455	24 519
322212	Folding paperboard box mfg	—	25	17	1 781	70 979	1 353	2 822	40 753	153 380	120 829	274 450	6 765
32222	Paper bag & coated & treated paper mfg	1	35	18	1 404	41 947	929	1 882	24 470	98 347	117 173	219 130	8 687
322222	Coated & laminated paper mfg	2	23	13	857	26 626	514	990	14 854	64 076	64 922	132 681	6 597
32223	Stationery product mfg ..	1	56	28	2 406	69 638	1 897	3 833	49 110	176 038	193 807	372 161	9 742
322231	Die-cut paper & paperboard office supplies mfg	1	27	10	949	23 956	796	1 598	18 168	77 073	71 073	151 270	1 732
322232	Envelope mfg	2	22	13	1 273	39 911	975	2 029	28 185	87 843	115 420	202 126	7 888
32229	Other converted paper product mfg	2	38	22	1 425	34 300	1 109	1 974	23 835	103 983	113 381	219 646	7 112
322299	All other converted paper product mfg ..	1	28	18	g	D	D	D	D	D	D	D	D
323	Printing & related support activities	2	1 787	367	34 106	1 087 217	24 797	48 530	664 510	2 301 126	1 604 372	3 908 372	171 848
3231	Printing & related support activities	2	1 787	367	34 106	1 087 217	24 797	48 530	664 510	2 301 126	1 604 372	3 908 372	171 848
32311	Printing	2	1 564	308	30 084	949 992	21 802	42 752	575 926	2 050 909	1 544 827	3 598 325	153 594
323110	Commercial lithographic printing ..	2	745	157	15 740	592 638	11 053	23 512	368 107	1 274 498	897 611	2 179 626	105 885
323113	Commercial screen printing	1	219	75	7 059	161 190	5 622	10 090	90 541	318 671	297 875	614 630	18 254
323114	Quick printing	4	328	12	1 618	36 768	1 187	1 781	23 924	78 683	46 316	124 782	5 455
323116	Manifold business form printing	—	37	19	2 086	57 178	1 244	2 386	30 010	171 631	137 494	306 641	3 864
323117	Book printing	2	31	11	654	24 349	499	916	14 126	49 878	39 409	89 165	6 789
323118	Blankbook, looseleaf binder, & device mfg ..	1	17	8	987	21 932	806	1 640	15 502	56 334	50 023	106 251	6 558
323119	Other commercial printing	4	119	15	1 196	33 327	843	1 499	20 550	52 492	45 917	98 426	3 127
32312	Support activities for printing	2	223	59	4 022	137 225	2 995	5 778	88 584	250 217	59 545	310 047	18 254
323121	Tradebinding & related work	4	73	25	1 728	37 896	1 501	2 917	28 967	72 193	15 148	87 224	5 546
323122	Prepress services	1	150	34	2 294	99 329	1 494	2 861	59 617	178 024	44 397	222 823	12 708
324	Petroleum & coal products mfg	2	61	29	6 256	362 649	3 963	9 016	222 575	3 014 598	7 731 279	10 756 249	413 648
3241	Petroleum & coal products mfg	2	61	29	6 256	362 649	3 963	9 016	222 575	3 014 598	7 731 279	10 756 249	413 648
32411	Petroleum refineries	2	14	14	5 077	312 687	3 091	7 021	188 087	2 805 292	7 355 467	10 164 509	397 841
324110	Petroleum refineries ..	2	14	14	5 077	312 687	3 091	7 021	188 087	2 805 292	7 355 467	10 164 509	397 841
32412	Asphalt paving, roofing, & saturated materials mfg	3	30	9	730	31 350	569	1 292	22 982	119 183	228 387	351 724	12 387
324122	Asphalt shingle & coating materials mfg	3	12	8	592	25 519	463	1 083	18 503	92 915	158 766	255 622	9 064
325	Chemical mfg	1	552	227	24 255	922 940	14 570	29 178	419 124	4 011 248	3 506 824	7 506 277	267 955
3251	Basic chemical mfg	2	52	22	1 507	68 259	868	1 870	35 832	258 038	276 426	545 239	29 257
32518	Other basic inorganic chemical mfg	—	14	6	555	24 220	347	762	13 956	91 349	95 781	191 426	13 695
325188	All other basic inorganic chemical mfg	—	12	6	f	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	1	24	17	1 010	47 949	640	1 448	24 619	212 463	396 529	623 415	27 115
32521	Resin & synthetic rubber mfg	1	24	17	1 010	47 949	640	1 448	24 619	212 463	396 529	623 415	27 115
325211	Plastics material & resin mfg	1	20	15	913	42 314	573	1 313	21 905	199 065	369 400	582 799	D
3253	Pesticide, fertilizer, & other agricultural chemical mfg ..	1	20	8	637	18 790	257	481	6 944	103 454	73 679	174 002	5 064

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	LOS ANGELES COUNTY, CA—Con.												
	Manufacturing—Con.												
325	Chemical mfg—Con.												
3254	Pharmaceutical & medicine mfg	—	70	34	5 775	245 530	3 370	7 156	118 873	1 322 173	1 043 527	2 327 351	109 069
32541	Pharmaceutical & medicine mfg	—	70	34	5 775	245 530	3 370	7 156	118 873	1 322 173	1 043 527	2 327 351	109 069
325411	Medicinal & botanical mfg	1	25	11	1 520	68 024	889	2 138	29 681	294 221	248 509	549 657	37 401
325412	Pharmaceutical preparation mfg	—	33	17	2 151	86 134	1 323	2 634	40 140	544 364	355 321	901 268	42 541
325413	In-vitro diagnostic substance mfg	—	6	3	f	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) mfg	—	6	3	g	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	—	105	38	3 067	120 751	1 774	3 331	47 037	525 483	491 758	1 010 248	18 845
32551	Paint & coating mfg	1	74	27	2 219	83 320	1 325	2 475	34 894	386 902	386 558	766 494	13 143
325510	Paint & coating mfg	1	74	27	2 219	83 320	1 325	2 475	34 894	386 902	386 558	766 494	13 143
32552	Adhesive mfg	—	31	11	848	37 431	449	856	12 143	138 581	105 200	243 754	5 702
325520	Adhesive mfg	—	31	11	848	37 431	449	856	12 143	138 581	105 200	243 754	5 702
3256	Soap, cleaning compound, & toilet preparation mfg ..	1	162	62	8 104	274 780	5 048	9 543	116 377	1 132 796	715 802	1 859 447	43 128
32561	Soap & cleaning compound mfg	3	87	24	1 743	58 744	1 078	2 252	30 209	277 548	222 508	501 427	12 567
325611	Soap & other detergent mfg	3	38	12	767	27 612	417	834	13 306	112 519	96 693	211 021	4 765
325612	Polish & other sanitation good mfg ..	3	40	11	876	25 915	620	1 332	15 565	153 919	108 697	262 065	6 651
32562	Toilet preparation mfg ..	1	75	38	6 361	216 036	3 970	7 291	86 168	855 248	493 294	1 358 020	30 561
325620	Toilet preparation mfg ..	1	75	38	6 361	216 036	3 970	7 291	86 168	855 248	493 294	1 358 020	30 561
3259	Other chemical product mfg	1	119	46	4 155	146 881	2 613	5 349	69 442	456 841	509 103	966 575	35 477
32591	Printing ink mfg	1	28	12	f	D	D	D	D	D	D	D	D
325910	Printing ink mfg	1	28	12	f	D	D	D	D	D	D	D	D
32592	Explosives mfg	—	2	2	f	D	D	D	D	D	D	D	D
325920	Explosives mfg	—	2	2	f	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg	2	89	32	2 946	99 310	1 827	3 540	47 555	366 991	383 517	748 222	26 819
325991	Custom compounding of purchased resin ...	1	34	17	1 438	48 664	884	1 720	23 557	132 136	190 207	321 839	16 116
325992	Photographic film, paper, plate, & chemical mfg	2	19	6	707	20 697	559	1 086	12 577	50 335	39 901	90 992	2 165
325998	All other miscellaneous chemical product & preparation mfg	3	36	9	801	29 949	384	734	11 421	184 520	153 409	335 391	8 538
326	Plastics & rubber products mfg	2	622	310	28 194	739 118	22 532	44 357	463 624	1 956 710	1 808 320	3 747 182	165 584
3261	Plastics product mfg	2	514	267	24 496	642 575	19 643	38 508	405 743	1 691 984	1 574 369	3 242 925	153 972
32611	Unsupported plastics film, sheet, & bag mfg ..	1	78	44	3 472	99 646	2 822	5 892	63 130	257 250	354 954	606 271	25 158
326111	Unsupported plastics bag mfg	—	41	24	2 246	56 960	1 887	3 997	36 732	124 690	187 510	307 446	17 325
326113	Unsupported plastics film & sheet (except packaging) mfg	2	33	16	1 020	34 268	778	1 520	20 961	112 115	138 375	249 401	6 162
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	2	39	16	1 134	33 226	890	1 705	19 542	82 683	61 519	143 157	4 613
326121	Unsupported plastics profile shape mfg	3	28	12	857	25 839	694	1 322	15 590	61 605	45 433	107 172	3 504
32614	Polystyrene foam product mfg	3	19	12	733	18 834	564	1 022	11 871	58 105	46 651	106 041	3 793
326140	Polystyrene foam product mfg	3	19	12	733	18 834	564	1 022	11 871	58 105	46 651	106 041	3 793
32615	Urethane & other foam product (except polystyrene) mfg	2	24	15	1 700	41 696	1 320	2 707	25 917	111 016	173 136	279 288	8 735
326150	Urethane & other foam product (except polystyrene) mfg	2	24	15	1 700	41 696	1 320	2 707	25 917	111 016	173 136	279 288	8 735
32616	Plastics bottle mfg	—	19	10	1 371	34 501	1 028	2 259	22 434	83 475	92 101	175 422	21 457
326160	Plastics bottle mfg	—	19	10	1 371	34 501	1 028	2 259	22 434	83 475	92 101	175 422	21 457
32619	Other plastics product mfg	3	319	166	15 662	400 287	12 740	24 390	257 473	1 063 756	814 848	1 866 125	88 884
326191	Plastics plumbing fixture mfg	7	13	8	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	3	304	157	14 702	374 085	11 927	22 630	237 215	987 358	752 718	1 727 707	84 843

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES COUNTY, CA—Con.												
31-33	Manufacturing—Con.												
326	Plastics & rubber products mfg—Con.												
3262	Rubber product mfg	1	108	43	3 698	96 543	2 889	5 849	57 881	264 726	233 951	504 257	11 612
32629	Other rubber product mfg	2	79	34	2 937	76 129	2 341	4 716	46 237	214 903	167 042	385 575	8 387
326291	Rubber product mfg for mechanical use	1	38	13	1 001	25 051	821	1 711	15 762	75 939	22 995	98 540	1 750
326299	All other rubber product mfg	2	41	21	1 936	51 078	1 520	3 005	30 475	138 964	144 047	287 035	6 637
327	Nonmetallic mineral product mfg	1	379	136	10 223	294 743	7 949	15 444	205 924	785 274	670 206	1 460 879	58 796
3271	Clay product & refractory mfg	2	80	37	2 505	51 629	2 040	3 886	36 326	113 358	58 511	169 838	6 936
32711	Pottery, ceramics, & plumbing fixture mfg	2	62	28	2 102	41 562	1 702	3 354	29 995	89 925	46 113	133 837	5 736
327112	Vitreous china, fine earthenware, & other pottery product mfg	3	54	24	1 553	27 671	1 259	2 352	18 679	60 082	33 302	91 434	3 034
3272	Glass & glass product mfg	—	97	27	3 525	105 776	2 774	5 334	76 075	291 267	196 489	494 491	21 700
32721	Glass & glass product mfg	—	97	27	3 525	105 776	2 774	5 334	76 075	291 267	196 489	494 491	21 700
327212	Other pressed & blown glass & glassware mfg	1	21	3	f	D	D	D	D	D	D	D	D
327213	Glass container mfg	—	3	3	f	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass	1	73	21	2 035	48 974	1 490	2 798	29 931	98 489	96 235	194 538	7 846
3273	Cement & concrete product mfg	1	99	41	2 213	77 387	1 669	3 399	54 897	214 628	231 828	446 060	18 211
32732	Ready-mix concrete mfg	—	60	27	1 282	47 371	1 000	2 106	35 997	125 887	177 989	303 810	10 872
327320	Ready-mix concrete mfg	—	60	27	1 282	47 371	1 000	2 106	35 997	125 887	177 989	303 810	10 872
32739	Other concrete product mfg	5	23	9	577	15 966	432	825	9 998	35 743	24 162	60 119	1 885
327390	Other concrete product mfg	5	23	9	577	15 966	432	825	9 998	35 743	24 162	60 119	1 885
3274	Lime & gypsum product mfg	—	21	9	580	21 291	442	918	15 238	66 078	90 415	157 330	3 396
32742	Gypsum product mfg	—	20	9	f	D	D	D	D	D	D	D	3 396
327420	Gypsum product mfg	—	20	9	f	D	D	D	D	D	D	D	3 396
3279	Other nonmetallic mineral product mfg	3	82	22	1 400	38 660	1 024	1 907	23 388	99 943	92 963	193 160	8 553
32799	All other nonmetallic mineral product mfg	4	64	15	937	25 607	680	1 257	16 056	61 256	63 395	124 985	7 001
331	Primary metal mfg	—	218	135	12 829	392 862	10 190	21 235	260 321	1 105 365	1 373 551	2 488 464	66 771
3312	Steel product mfg from purchased steel	—	31	21	2 013	75 784	1 497	3 266	47 525	202 041	375 991	575 237	24 381
33121	Iron & steel pipes & tubes mfg from purchased steel	—	10	6	769	31 142	549	1 118	18 459	70 252	169 388	238 645	11 302
331210	Iron & steel pipes & tubes mfg from purchased steel	—	10	6	769	31 142	549	1 118	18 459	70 252	169 388	238 645	11 302
33122	Rolling & drawing of purchased steel	—	21	15	1 244	44 642	948	2 148	29 066	131 789	206 603	336 592	13 079
331222	Steel wire drawing	—	12	11	f	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing	—	17	14	1 648	52 166	1 319	2 812	33 669	139 490	268 195	409 714	D
33131	Alumina & aluminum production & processing	—	17	14	1 648	52 166	1 319	2 812	33 669	139 490	268 195	409 714	D
331316	Aluminum extruded product mfg	—	9	7	952	30 910	768	1 652	20 507	78 484	148 075	223 532	D
3314	Nonferrous metal (except aluminum) production & processing	—	31	14	g	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying	—	25	11	1 639	52 457	1 219	2 879	33 341	222 241	291 210	529 136	9 500
331491	Other nonferrous metal rolling, drawing, & extruding	—	8	3	815	19 303	638	1 421	12 046	87 457	93 681	188 076	2 905
331492	Other nonferrous metal secondary smelting, refining, & alloying	—	17	8	824	33 154	581	1 458	21 295	134 784	197 529	341 060	6 595

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES COUNTY, CA—Con.												
31-33	Manufacturing—Con.												
331	Primary metal mfg—Con.												
3315	Foundries	-	132	80	6 886	186 530	5 719	11 368	130 520	462 311	257 165	714 228	19 461
33151	Ferrous metal foundries .	-	29	23	3 201	84 759	2 774	5 466	64 332	225 189	110 653	328 770	7 157
331511	Iron foundries	-	10	8	889	23 819	771	1 547	18 318	48 915	21 401	70 429	2 078
331512	Steel investment foundries	-	9	8	1 881	48 953	1 650	3 303	37 809	150 399	68 695	212 214	2 090
33152	Nonferrous metal foundries	-	103	57	3 685	101 771	2 945	5 902	66 188	237 122	146 512	385 458	12 304
331521	Aluminum die-casting foundries	1	26	17	857	23 501	722	1 421	16 476	57 394	36 407	95 267	3 677
331522	Nonferrous (except aluminum) die-casting foundries	-	19	12	918	23 668	702	1 341	15 218	74 542	43 794	117 583	4 591
331524	Aluminum foundries (except die-casting) ..	-	42	22	1 525	42 965	1 209	2 482	27 373	89 541	47 055	135 251	3 121
332	Fabricated metal product mfg	1	2 808	862	71 150	2 319 462	52 648	103 963	1 413 312	5 310 310	3 624 189	8 858 064	330 592
3321	Forging & stamping	2	152	72	4 835	182 544	3 721	8 125	118 128	427 714	388 981	804 376	32 821
33211	Forging & stamping	2	152	72	4 835	182 544	3 721	8 125	118 128	427 714	388 981	804 376	32 821
332112	Nonferrous forging	-	6	4	837	32 800	674	1 455	22 847	116 228	97 948	204 244	12 089
332116	Metal stamping	1	115	52	3 007	102 695	2 299	4 972	63 137	219 995	175 712	393 173	14 211
3322	Cutlery & handtool mfg	2	82	21	1 846	51 795	1 302	2 268	26 851	124 335	89 631	213 013	6 077
33221	Cutlery & handtool mfg ..	2	82	21	1 846	51 795	1 302	2 268	26 851	124 335	89 631	213 013	6 077
332212	Hand & edge tool mfg ..	3	69	16	1 489	40 174	1 087	1 949	22 657	88 101	54 756	141 299	4 302
3323	Architectural & structural metals mfg	1	410	148	12 417	365 986	8 873	17 818	208 672	829 892	685 405	1 509 315	32 789
33231	Plate work & fabricated structural product mfg ..	1	100	39	2 872	106 041	1 856	3 851	56 218	251 432	170 175	420 391	8 713
332311	Prefabricated metal building & component mfg	1	10	6	575	17 275	288	547	7 074	37 445	35 618	73 498	936
332312	Fabricated structural metal mfg	1	71	25	1 849	74 188	1 211	2 609	40 044	167 049	98 782	263 904	6 621
33232	Ornamental & architectural metal products mfg	1	310	109	9 545	259 945	7 017	13 967	152 454	578 460	515 230	1 088 924	24 076
332321	Metal window & door mfg	-	59	31	3 474	91 781	2 569	5 252	52 192	226 081	245 684	470 233	7 515
332322	Sheet metal work mfg ..	2	186	65	5 105	143 011	3 736	7 356	85 547	297 595	213 612	505 687	15 157
332323	Ornamental & architectural metal work mfg	1	65	13	966	25 153	712	1 359	14 715	54 784	55 934	113 004	1 404
3324	Boiler, tank, & shipping container mfg	-	65	32	3 155	123 826	2 142	4 534	78 477	294 862	469 972	761 514	26 274
33241	Power boiler & heat exchanger mfg	-	19	7	644	24 695	410	673	12 951	49 047	38 014	85 071	6 469
332410	Power boiler & heat exchanger mfg	-	19	7	644	24 695	410	673	12 951	49 047	38 014	85 071	6 469
33242	Metal tank (heavy gauge) mfg	-	17	12	1 079	42 160	542	1 249	21 753	71 497	75 020	145 250	3 028
332420	Metal tank (heavy gauge) mfg	-	17	12	1 079	42 160	542	1 249	21 753	71 497	75 020	145 250	3 028
33243	Metal can, box, & other metal container (light gauge) mfg	-	29	13	1 432	56 971	1 190	2 612	43 773	174 318	356 938	531 193	16 777
332431	Metal can mfg	-	10	7	856	38 296	732	1 562	31 752	127 802	308 354	436 651	13 869
332439	Other metal container mfg	1	19	6	576	18 675	458	1 050	12 021	46 516	48 584	94 542	2 908
3325	Hardware mfg	1	66	39	3 791	116 572	2 829	5 673	73 351	271 108	211 085	480 306	14 714
33251	Hardware mfg	1	66	39	3 791	116 572	2 829	5 673	73 351	271 108	211 085	480 306	14 714
332510	Hardware mfg	1	66	39	3 791	116 572	2 829	5 673	73 351	271 108	211 085	480 306	14 714
3326	Spring & wire product mfg ..	1	70	29	1 672	40 289	1 315	2 629	26 338	80 345	63 951	143 734	4 206
33261	Spring & wire product mfg	1	70	29	1 672	40 289	1 315	2 629	26 338	80 345	63 951	143 734	4 206
332618	Other fabricated wire product mfg	1	49	18	1 124	24 891	909	1 750	16 511	49 331	44 206	93 543	2 641
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	1 241	243	20 673	749 286	15 945	31 324	483 112	1 530 955	738 855	2 241 586	128 730
33271	Machine shops	1	1 051	165	12 297	426 933	9 599	17 911	289 345	873 457	372 570	1 230 954	83 909
332710	Machine shops	1	1 051	165	12 297	426 933	9 599	17 911	289 345	873 457	372 570	1 230 954	83 909
33272	Turned product & screw, nut, & bolt mfg	-	190	78	8 376	322 353	6 346	13 413	193 767	657 498	366 285	1 010 632	44 821
332721	Precision turned product mfg	1	122	38	2 246	70 939	1 827	3 741	50 151	132 930	61 798	192 819	7 095
332722	Bolt, nut, screw, rivet, & washer mfg	-	68	40	6 130	251 414	4 519	9 672	143 616	524 568	304 487	817 813	37 726

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	LOS ANGELES COUNTY, CA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3328	Coating, engraving, heat treating, & allied activities.	1	453	180	10 792	285 111	8 607	16 654	181 346	581 718	224 751	807 252	31 370
33281	Coating, engraving, heat treating, & allied activities.....	1	453	180	10 792	285 111	8 607	16 654	181 346	581 718	224 751	807 252	31 370
332811	Metal heat treating....	1	46	28	1 229	43 271	913	1 865	25 375	101 464	21 279	122 767	5 213
332812	Metal coating/engraving (exc jewelry/silverware)/allied services.....	1	116	53	2 576	71 137	2 063	4 149	45 489	164 205	83 871	248 185	10 902
332813	Electroplating, plating, polishing, anodizing, & coloring.....	2	291	99	6 987	170 703	5 631	10 640	110 482	316 049	119 601	436 300	15 255
3329	Other fabricated metal product mfg.....	—	269	98	11 969	404 053	7 914	14 938	217 037	1 169 381	751 558	1 896 968	53 611
33291	Metal valve mfg.....	—	77	45	7 043	263 670	4 224	8 007	131 875	783 075	495 104	1 259 582	38 641
332911	Industrial valve mfg...	—	19	11	1 394	62 493	819	1 489	27 856	124 672	115 294	239 599	D
332912	Fluid power valve & hose fitting mfg.....	—	35	18	2 635	113 397	1 704	3 469	58 388	307 164	131 047	433 361	16 408
332913	Plumbing fixture fitting & trim mfg.....	—	16	13	2 540	74 262	1 533	2 720	41 335	322 074	235 715	545 418	17 369
33299	All other fabricated metal product mfg.....	1	192	53	4 926	140 383	3 690	6 931	85 162	386 306	256 454	637 386	14 970
332998	Enameled iron & metal sanitary ware mfg...	—	8	6	1 400	36 764	1 050	1 864	21 030	118 390	89 275	204 419	3 827
332999	All other miscellaneous fabricated metal product mfg.....	2	113	31	2 038	56 066	1 491	2 880	34 208	132 146	109 389	240 393	6 762
333	Machinery mfg.....	1	957	311	27 855	1 019 461	18 035	35 620	530 897	2 227 836	1 792 285	4 007 047	131 664
3331	Agriculture, construction, & mining machinery mfg....	—	36	18	1 019	39 804	625	1 277	16 747	73 462	96 808	171 546	8 148
3332	Industrial machinery mfg ..	2	121	41	3 124	107 962	1 780	3 435	50 395	248 806	198 851	440 843	12 137
33329	Other industrial machinery mfg.....	2	97	38	2 899	100 204	1 635	3 150	45 892	232 937	181 600	407 225	11 597
333294	Food product machinery mfg.....	2	24	10	767	22 482	478	828	11 827	48 034	40 426	88 092	3 436
333298	All other industrial machinery mfg.....	3	48	21	1 500	55 403	792	1 575	23 289	128 924	107 949	232 278	6 601
3333	Commercial & service industry machinery mfg ..	2	150	54	4 569	155 730	2 961	6 071	78 621	347 124	274 369	618 029	21 077
33331	Commercial & service industry machinery mfg.....	2	150	54	4 569	155 730	2 961	6 071	78 621	347 124	274 369	618 029	21 077
333314	Optical instrument & lens mfg.....	2	20	9	f	D	D	D	D	D	D	D	D
333315	Photographic & photocopying equipment mfg.....	3	45	13	1 115	48 287	748	1 682	26 296	67 331	69 528	137 293	4 969
333319	Other commercial & service industry machinery mfg.....	1	68	29	2 772	86 150	1 727	3 478	40 024	231 548	168 172	394 238	12 573
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	2	50	25	2 424	75 031	1 785	3 652	41 698	162 707	143 831	305 123	6 682
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	2	50	25	2 424	75 031	1 785	3 652	41 698	162 707	143 831	305 123	6 682
333414	Heating equipment (except warm air furnaces) mfg.....	4	11	6	941	30 484	642	1 316	14 311	71 333	49 178	117 800	2 386
333415	AC & warm air heating & commercial/ industrial refrig equip mfg.....	1	27	14	1 242	37 039	958	1 946	22 994	69 038	80 590	151 315	3 903
3335	Metalworking machinery mfg.....	1	335	74	5 767	207 511	4 245	7 975	128 832	397 331	317 572	725 655	23 560
33351	Metalworking machinery mfg.....	1	335	74	5 767	207 511	4 245	7 975	128 832	397 331	317 572	725 655	23 560
333511	Industrial mold mfg....	1	98	24	1 836	76 302	1 452	2 734	50 072	138 925	56 873	196 580	6 406
333512	Machine tool (metal cutting types) mfg....	—	8	5	567	20 443	393	791	11 765	54 442	140 413	196 407	3 942
333514	Special die & tool, die set, jig, & fixture mfg ..	2	130	20	1 538	49 135	1 172	2 146	33 094	94 500	28 462	122 973	4 517
333515	Cutting tool & machine tool accessory mfg ..	2	75	17	1 231	37 774	884	1 696	22 606	62 256	30 522	94 889	5 965
3336	Engine, turbine, & power transmission equipment mfg.....	—	29	11	1 912	89 995	1 265	2 631	42 600	237 885	189 256	427 012	27 138
33361	Engine, turbine, & power transmission equipment mfg.....	—	29	11	1 912	89 995	1 265	2 631	42 600	237 885	189 256	427 012	27 138
333618	Other engine equipment mfg.....	—	12	7	1 547	72 634	1 045	2 162	34 893	205 814	173 599	379 723	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES COUNTY, CA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3339	Other general-purpose machinery mfg	1	236	88	9 040	343 428	5 374	10 579	172 004	760 521	571 598	1 318 839	32 922
33391	Pump & compressor mfg	1	37	19	1 836	83 858	1 024	1 971	36 801	172 363	190 511	356 842	8 435
333911	Pump & pumping equipment mfg	—	22	11	1 283	62 886	701	1 386	27 095	118 536	145 580	260 756	5 428
33392	Material handling equipment mfg	2	49	16	1 293	40 404	806	1 509	22 241	73 410	77 936	152 330	4 576
333922	Conveyor & conveying equipment mfg	1	22	10	810	25 741	485	800	13 009	38 974	40 922	81 867	1 485
33399	All other general-purpose machinery mfg	—	150	53	5 911	219 166	3 544	7 099	112 962	514 748	303 151	809 667	19 911
333992	Welding & soldering equipment mfg	—	10	7	596	24 363	361	654	12 413	58 772	44 282	100 705	2 481
333993	Packaging machinery mfg	1	26	10	1 364	56 975	756	1 526	25 801	113 720	49 260	162 451	4 297
333995	Fluid power cylinder & actuator mfg	—	23	9	1 724	69 494	880	1 914	37 946	171 216	70 565	236 860	3 759
333999	All other miscellaneous general-purpose machinery mfg	1	58	19	1 586	48 153	1 102	2 088	24 875	116 332	109 295	224 388	6 031
334	Computer & electronic product mfg	1	856	359	61 598	2 952 183	28 492	55 777	884 399	7 784 696	3 843 238	11 584 681	475 076
3341	Computer & peripheral equipment mfg	3	84	34	2 796	119 586	1 295	2 790	56 687	341 609	309 458	666 981	22 862
33411	Computer & peripheral equipment mfg	3	84	34	2 796	119 586	1 295	2 790	56 687	341 609	309 458	666 981	22 862
334112	Computer storage device mfg	9	13	4	542	32 626	297	816	23 379	67 585	66 677	144 007	12 342
334119	Other computer peripheral equipment mfg	1	52	20	1 691	68 568	736	1 509	26 453	228 296	206 032	440 794	7 533
3342	Communications equipment mfg	—	106	57	12 494	737 432	2 697	5 151	83 860	1 957 435	1 147 962	3 060 323	128 323
33421	Telephone apparatus mfg	1	21	13	1 144	50 616	353	654	13 064	214 058	149 560	336 886	8 949
334210	Telephone apparatus mfg	1	21	13	1 144	50 616	353	654	13 064	214 058	149 560	336 886	8 949
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	61	34	10 720	666 819	2 037	3 955	64 858	1 681 192	951 106	2 612 079	117 748
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	61	34	10 720	666 819	2 037	3 955	64 858	1 681 192	951 106	2 612 079	117 748
33429	Other communications equipment mfg	2	24	10	630	19 997	307	542	5 938	62 185	47 296	111 358	1 626
334290	Other communications equipment mfg	2	24	10	630	19 997	307	542	5 938	62 185	47 296	111 358	1 626
3343	Audio & video equipment mfg	1	55	15	1 999	69 251	1 371	2 567	25 787	123 648	241 821	371 582	11 463
33431	Audio & video equipment mfg	1	55	15	1 999	69 251	1 371	2 567	25 787	123 648	241 821	371 582	11 463
334310	Audio & video equipment mfg	1	55	15	1 999	69 251	1 371	2 567	25 787	123 648	241 821	371 582	11 463
3344	Semiconductor & other electronic component mfg	1	286	139	17 889	579 128	12 950	25 924	335 826	1 316 657	782 839	2 090 905	141 527
33441	Semiconductor & other electronic component mfg	1	286	139	17 889	579 128	12 950	25 924	335 826	1 316 657	782 839	2 090 905	141 527
334411	Electron tube mfg	—	7	4	1 251	64 075	977	2 272	51 591	97 585	73 850	164 631	D
334412	Bare printed circuit board mfg	3	66	26	2 162	63 596	1 709	3 619	40 066	147 194	78 050	226 876	10 912
334413	Semiconductor & related device mfg	2	45	15	4 159	144 637	2 653	4 936	78 326	337 856	182 948	525 059	75 920
334414	Electronic capacitor mfg	—	12	8	1 010	23 625	860	1 655	14 710	49 576	21 427	70 822	3 394
334416	Electronic coil, transformer, & other inductor mfg	3	26	11	730	17 456	560	994	9 684	33 853	13 700	47 214	D
334417	Electronic connector mfg	—	22	18	2 798	90 930	2 132	4 565	52 422	204 481	108 072	313 239	13 015
334418	Printed circuit assembly (electronic assembly) mfg	—	12	10	1 719	53 799	1 247	2 426	27 436	124 031	145 457	264 769	8 855
334419	Other electronic component mfg	2	90	43	3 824	115 248	2 615	5 022	57 918	307 768	155 894	460 463	14 446

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	LOS ANGELES COUNTY, CA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3345	Navigational, measuring, medical, & control instruments mfg	—	207	81	23 300	1 358 440	7 797	14 976	322 957	3 798 110	1 205 504	4 988 556	133 878
33451	Navigational, measuring, medical, & control instruments mfg	—	207	81	23 300	1 358 440	7 797	14 976	322 957	3 798 110	1 205 504	4 988 556	133 878
334510	Electromedical & electrotherapeutic apparatus mfg	—	18	5	1 238	77 832	448	945	12 079	396 209	84 726	465 680	11 272
334511	Search, detection, navigation, & guidance instrument mfg	—	40	21	15 327	1 015 655	3 855	7 121	213 026	2 664 903	642 027	3 302 473	89 760
334512	Automatic environmental control mfg	—	9	2	685	21 993	465	946	13 781	93 162	55 789	148 565	3 764
334513	Industrial process control instrument mfg	2	42	17	1 976	73 773	1 010	1 993	26 098	154 854	73 351	231 320	6 909
334515	Electricity measuring & testing instrument mfg	2	35	13	1 935	94 524	844	1 717	30 648	332 364	204 559	538 315	17 130
334519	Other measuring & controlling device mfg	—	32	11	1 152	37 786	619	1 167	15 618	79 916	56 444	139 515	3 142
3346	Mfg & reproducing magnetic & optical media	4	118	33	3 120	88 346	2 382	4 369	59 282	247 237	155 654	406 334	37 023
33461	Mfg & reproducing magnetic & optical media	4	118	33	3 120	88 346	2 382	4 369	59 282	247 237	155 654	406 334	37 023
334612	Prerecorded CD (except software), tape, & record reproducing	3	91	25	2 564	69 947	1 942	3 578	47 352	182 586	110 812	295 310	22 527
335	Electrical equipment, appliance, & component mfg	1	361	158	15 925	493 844	10 933	21 453	239 646	1 372 074	1 156 311	2 530 781	68 862
3351	Electric lighting equipment mfg	1	136	57	4 953	132 192	3 364	6 581	64 800	418 932	339 358	754 586	D
33512	Lighting fixture mfg	1	132	56	4 895	129 903	3 312	6 467	62 811	412 581	335 587	744 364	D
335121	Residential electric lighting fixture mfg	1	64	22	1 922	39 607	1 302	2 609	20 337	123 343	117 507	242 019	D
335122	Commercial/industrial/institutional electric lighting fixture mfg	1	39	20	1 653	50 687	1 128	2 206	24 779	186 250	146 378	329 567	6 073
335129	Other lighting equipment mfg	—	29	14	1 320	39 609	882	1 652	17 695	102 988	71 702	172 778	4 266
3352	Household appliance mfg	—	13	8	961	24 538	730	1 436	13 736	121 847	93 272	211 191	D
33522	Major appliance mfg	—	5	4	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg	2	107	42	4 145	128 221	2 832	5 525	60 076	277 861	208 909	492 813	15 355
33531	Electrical equipment mfg	2	107	42	4 145	128 221	2 832	5 525	60 076	277 861	208 909	492 813	15 355
335312	Motor & generator mfg	3	30	13	1 075	35 655	793	1 649	17 039	65 687	57 745	125 769	8 217
335313	Switchgear & switchboard apparatus mfg	1	23	9	1 092	30 760	827	1 619	15 576	62 224	56 491	119 925	2 488
335314	Relay & industrial control mfg	2	38	14	1 556	50 172	909	1 604	19 921	124 459	70 587	197 231	3 339
3359	Other electrical equipment & component mfg	1	105	51	5 866	208 893	4 007	7 911	101 034	553 434	514 772	1 072 191	32 490
33591	Battery mfg	—	10	6	907	30 953	732	1 629	22 137	87 505	107 518	193 149	7 136
335911	Storage battery mfg	—	9	6	f	D	D	D	D	D	D	D	D
33593	Wiring device mfg	—	32	14	2 138	68 141	1 536	2 937	37 852	217 335	224 997	444 449	10 906
335931	Current-carrying wiring device mfg	—	17	7	1 030	32 851	666	1 170	16 402	90 352	41 732	133 387	3 186
335932	Noncurrent-carrying wiring device mfg	—	15	7	1 108	35 290	870	1 767	21 450	126 983	183 265	311 062	7 720
33599	All other electrical equipment & component mfg	2	57	25	2 557	101 187	1 536	2 928	35 137	229 763	160 794	395 211	12 168
335999	All other miscellaneous electrical equipment & component mfg	3	54	24	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	587	257	86 062	4 139 588	44 000	84 428	1 547 514	8 358 690	8 929 715	17 828 677	552 035
3362	Motor vehicle body & trailer mfg	—	54	28	3 228	87 911	2 432	4 435	51 697	607 447	1 931 594	2 537 826	40 303
33621	Motor vehicle body & trailer mfg	—	54	28	3 228	87 911	2 432	4 435	51 697	607 447	1 931 594	2 537 826	40 303
336211	Motor vehicle body mfg	—	33	17	g	D	D	D	D	D	D	D	D
336212	Truck trailer mfg	1	5	3	f	D	D	D	D	D	D	D	D
336214	Travel trailer & camper mfg	1	13	6	939	14 791	767	1 444	10 185	32 363	43 382	74 545	1 012

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	LOS ANGELES COUNTY, CA—Con.												
	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3363	Motor vehicle parts mfg ...	2	285	115	13 795	361 200	10 950	21 828	237 652	816 126	811 575	1 638 995	62 781
33631	Motor vehicle gasoline engine & engine parts mfg	1	64	24	2 453	59 088	1 935	3 367	34 076	134 991	105 882	239 023	10 982
336311	Carburetor, piston, piston ring, & valve mfg	1	20	11	1 007	23 920	832	1 471	14 862	45 456	24 416	69 801	2 190
336312	Gasoline engine & engine parts mfg	1	44	13	1 446	35 168	1 103	1 896	19 214	89 535	81 466	169 222	8 792
33632	Motor vehicle electrical & electronic equipment mfg	6	48	17	1 535	35 978	1 229	2 338	23 747	70 023	63 764	135 377	4 680
336322	Other motor vehicle electrical & electronic equipment mfg	6	44	15	1 356	29 613	1 095	2 080	19 501	54 555	50 866	106 803	D
33635	Motor vehicle transmission & power train parts mfg	3	28	8	586	18 762	439	821	10 044	50 154	53 442	103 654	3 423
336350	Motor vehicle transmission & power train parts mfg	3	28	8	586	18 762	439	821	10 044	50 154	53 442	103 654	3 423
33636	Motor vehicle seating & interior trim mfg	1	26	9	1 185	23 072	960	1 686	16 007	44 466	40 632	84 911	3 332
336360	Motor vehicle seating & interior trim mfg	1	26	9	1 185	23 072	960	1 686	16 007	44 466	40 632	84 911	3 332
33637	Motor vehicle metal stamping	7	13	7	1 448	32 888	1 210	2 982	24 720	60 044	68 945	128 903	7 576
336370	Motor vehicle metal stamping	7	13	7	1 448	32 888	1 210	2 982	24 720	60 044	68 945	128 903	7 576
33639	Other motor vehicle parts mfg	1	92	45	6 303	181 877	4 966	10 207	123 928	432 058	453 724	897 771	31 422
336399	All other motor vehicle parts mfg	2	87	43	i	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	—	161	84	66 388	3 599 072	28 490	53 939	1 191 247	6 766 130	5 974 176	13 261 358	440 493
33641	Aerospace product & parts mfg	—	161	84	66 388	3 599 072	28 490	53 939	1 191 247	6 766 130	5 974 176	13 261 358	440 493
336411	Aircraft mfg	—	11	7	k	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg	2	17	10	g	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	—	114	54	20 590	909 244	8 424	18 079	378 984	2 227 981	1 052 998	3 073 200	143 389
336414	Guided missile & space vehicle mfg ...	—	3	3	j	D	D	D	D	D	D	D	D
336415	Guided missile & space vehicle propulsion unit & parts mfg	—	5	4	i	D	D	D	D	D	D	D	D
336419	Other guided missile & space vehicle parts & auxiliary equip mfg...	1	11	6	1 379	54 762	959	2 207	34 425	102 716	98 856	198 632	20 520
3366	Ship & boat building	6	28	9	f	D	D	D	D	D	D	D	1 640
33661	Ship & boat building	6	28	9	f	D	D	D	D	D	D	D	1 640
3369	Other transportation equipment mfg	1	49	17	1 523	57 811	1 160	2 269	40 291	86 062	97 562	192 085	D
33699	Other transportation equipment mfg	1	49	17	1 523	57 811	1 160	2 269	40 291	86 062	97 562	192 085	D
336991	Motorcycle, bicycle, & parts mfg	2	38	13	812	22 710	588	1 202	12 193	65 901	56 058	121 707	D
336992	Military armored vehicle, tank, & tank component mfg	—	3	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	999	321	29 180	662 936	23 418	43 283	432 726	1 474 926	1 335 272	2 801 612	53 195
3371	Household & institutional furniture & kitchen cabinet mfg	2	690	188	18 740	392 184	15 293	28 405	268 115	804 217	806 323	1 607 981	28 264
33711	Wood kitchen cabinet & counter top mfg	4	175	17	1 627	39 466	1 238	2 203	24 849	71 501	51 010	122 593	2 326
337110	Wood kitchen cabinet & counter top mfg ...	4	175	17	1 627	39 466	1 238	2 203	24 849	71 501	51 010	122 593	2 326
33712	Household & institutional furniture mfg	2	515	171	17 113	352 718	14 055	26 202	243 266	732 716	755 313	1 485 388	25 938
337121	Upholstered household furniture mfg	2	158	59	5 008	106 188	4 193	8 054	77 500	208 709	237 695	450 001	4 244
337122	Nonupholstered wood household furniture mfg	3	231	70	6 787	120 964	5 838	9 911	88 131	240 186	266 282	504 589	9 184
337124	Metal household furniture mfg	1	57	24	3 239	71 677	2 497	5 379	45 478	160 701	141 257	295 833	9 138
337127	Institutional furniture mfg	1	48	16	1 926	50 871	1 404	2 638	29 956	117 777	103 059	222 433	2 951

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	LOS ANGELES COUNTY, CA—Con.												
	Manufacturing—Con.												
337	Furniture & related product mfg—Con.												
3372	Office furniture (including fixtures) mfg	2	232	106	7 696	201 509	6 103	11 019	124 298	471 375	326 675	793 146	16 302
33721	Office furniture (including fixtures) mfg	2	232	106	7 696	201 509	6 103	11 019	124 298	471 375	326 675	793 146	16 302
337211	Wood office furniture mfg	3	41	22	1 524	28 350	1 268	2 147	18 683	56 183	39 155	90 180	2 088
337212	Custom architectural woodwork & millwork	—	36	14	1 058	31 989	787	1 383	19 566	62 271	29 370	92 181	1 395
337214	Office furniture (except wood) mfg	1	30	20	1 419	44 729	1 155	2 645	33 165	130 896	106 595	237 530	5 330
337215	Showcase, partition, shelving, & locker mfg	2	125	50	3 695	96 441	2 893	4 844	52 884	222 025	151 555	373 255	7 489
3379	Other furniture related product mfg	1	77	27	2 744	69 243	2 022	3 859	40 313	199 334	202 274	400 485	8 629
33791	Mattress mfg	1	56	17	1 715	45 106	1 365	2 531	27 617	144 479	143 343	285 407	7 513
337910	Mattress mfg	1	56	17	1 715	45 106	1 365	2 531	27 617	144 479	143 343	285 407	7 513
33792	Blind & shade mfg	1	21	10	1 029	24 137	657	1 328	12 696	54 855	58 931	115 078	1 116
337920	Blind & shade mfg	1	21	10	1 029	24 137	657	1 328	12 696	54 855	58 931	115 078	1 116
339	Miscellaneous mfg	2	1 372	275	29 383	836 858	21 093	39 968	439 969	2 044 493	1 333 226	3 375 154	110 928
3391	Medical equipment & supplies mfg	1	462	71	9 432	320 391	6 287	10 665	140 360	780 341	349 293	1 131 670	47 135
33911	Medical equipment & supplies mfg	1	462	71	9 432	320 391	6 287	10 665	140 360	780 341	349 293	1 131 670	47 135
339111	Laboratory apparatus & furniture mfg	1	13	5	629	17 108	460	878	8 766	42 698	19 909	63 446	2 624
339112	Surgical & medical instrument mfg	2	51	15	2 303	89 113	1 328	2 093	32 269	193 556	93 406	281 979	14 740
339113	Surgical appliance & supplies mfg	1	66	21	2 821	98 618	2 073	3 908	40 653	227 737	129 505	352 868	12 766
339114	Dental equipment & supplies mfg	—	40	10	1 688	62 958	1 113	1 666	29 931	179 774	49 775	238 431	8 444
339115	Ophthalmic goods mfg	1	19	6	604	17 439	292	567	8 363	61 446	26 889	88 888	6 217
339116	Dental laboratories	5	273	14	1 387	35 155	1 021	1 553	20 378	75 130	29 809	106 058	2 344
3399	Other miscellaneous mfg	2	910	204	19 951	516 467	14 806	29 303	299 609	1 264 152	983 933	2 243 484	63 793
33991	Jewelry & silverware mfg	2	327	46	4 938	106 915	3 679	6 366	60 123	320 390	289 193	604 907	8 210
339911	Jewelry (except costume) mfg	3	257	37	3 302	73 429	2 530	3 607	39 016	214 558	248 477	463 842	7 037
339914	Costume jewelry & novelty mfg	1	41	6	1 399	28 996	964	2 524	18 461	93 965	24 504	113 357	816
33992	Sporting & athletic goods mfg	2	92	23	2 536	73 026	1 738	4 165	32 854	144 193	130 229	276 264	12 482
339920	Sporting & athletic goods mfg	2	92	23	2 536	73 026	1 738	4 165	32 854	144 193	130 229	276 264	12 482
33993	Doll, toy, & game mfg	4	36	7	1 061	24 456	886	1 756	16 974	72 870	48 677	121 563	2 461
339932	Game, toy, & children's vehicle mfg	4	29	7	1 018	23 835	854	1 706	16 463	70 553	47 352	117 829	2 452
33994	Office supplies (except paper) mfg	—	51	12	1 474	51 101	1 093	2 262	39 422	143 199	123 574	257 566	16 244
339941	Pen & mechanical pencil mfg	—	7	2	f	D	D	D	D	D	D	D	D
33995	Sign mfg	1	158	28	2 267	71 286	1 564	2 943	33 857	155 275	92 908	249 337	3 884
339950	Sign mfg	1	158	28	2 267	71 286	1 564	2 943	33 857	155 275	92 908	249 337	3 884
33999	All other miscellaneous mfg	2	246	88	7 675	189 683	5 846	11 811	116 379	428 225	299 352	733 847	20 512
339991	Gasket, packing, & sealing device mfg	3	41	21	1 991	54 636	1 447	3 310	33 282	114 608	63 437	177 970	7 462
339992	Musical instrument mfg	1	29	4	680	17 158	515	900	8 861	28 131	26 246	56 477	1 628
339999	All other miscellaneous mfg	3	142	50	4 338	97 610	3 384	6 618	63 230	246 720	181 988	431 946	10 173
	MADERA COUNTY, CA												
31-33	Manufacturing	1	94	34	3 913	120 770	2 978	6 311	84 280	450 626	518 740	952 330	37 056
311	Food mfg	4	14	9	608	16 459	476	1 056	12 492	50 046	105 878	166 303	1 793
312	Beverage & tobacco product mfg	—	5	2	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	—	5	2	f	D	D	D	D	D	D	D	D
31213	Wineries	—	5	2	f	D	D	D	D	D	D	D	D
312130	Wineries	—	5	2	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	9	5	779	30 445	662	1 335	24 634	134 559	71 609	207 689	D
333	Machinery mfg	—	9	4	633	22 310	453	945	13 215	59 991	43 844	103 602	4 047

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MARIN COUNTY, CA													
31-33	Manufacturing	4	341	48	4 605	159 965	2 953	5 636	78 164	333 146	310 219	656 178	18 140
323	Printing & related support activities	2	67	9	634	23 283	458	880	13 886	51 747	23 443	75 238	2 247
3231	Printing & related support activities	2	67	9	634	23 283	458	880	13 886	51 747	23 443	75 238	2 247
32311	Printing	2	61	9	599	21 878	427	819	12 889	49 030	22 826	71 906	1 576
326	Plastics & rubber products mfg	5	13	5	566	16 303	433	882	10 187	43 253	25 919	69 490	2 686
3261	Plastics product mfg	5	11	5	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	1	16	5	710	36 599	202	363	6 176	60 924	81 223	153 722	4 584
MENDOCINO COUNTY, CA													
31-33	Manufacturing	1	160	36	4 287	124 082	3 182	6 043	85 247	374 887	452 119	769 322	20 159
312	Beverage & tobacco product mfg	-	22	7	709	22 706	413	723	10 301	124 221	113 207	196 298	6 049
3121	Beverage mfg	-	22	7	709	22 706	413	723	10 301	124 221	113 207	196 298	6 049
31213	Wineries	-	18	4	569	19 991	336	630	8 782	117 800	108 307	185 132	5 182
312130	Wineries	-	18	4	569	19 991	336	630	8 782	117 800	108 307	185 132	5 182
321	Wood product mfg	-	28	13	1 740	54 965	1 533	3 158	45 675	127 532	217 280	332 402	6 810
3211	Sawmills & wood preservation	-	12	5	875	30 845	776	1 530	26 499	73 915	157 020	220 883	4 409
32111	Sawmills & wood preservation	-	12	5	875	30 845	776	1 530	26 499	73 915	157 020	220 883	4 409
321113	Sawmills	-	10	4	f	D	D	D	D	D	D	D	D
3212	Veneer, plywood, & engineered wood product mfg	-	2	2	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, & engineered wood product mfg	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	17	4	786	20 538	493	767	12 898	35 916	40 269	71 737	1 291
3323	Architectural & structural metals mfg	-	4	1	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	-	1	1	f	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg	-	1	1	f	D	D	D	D	D	D	D	D
MERCED COUNTY, CA													
31-33	Manufacturing	1	123	51	8 381	198 183	6 660	13 568	146 654	665 306	1 869 859	2 431 480	73 832
311	Food mfg	1	28	15	4 600	101 367	3 904	8 118	81 784	391 099	1 229 652	1 609 603	52 110
3114	Fruit & vegetable preserving & specialty food mfg	3	6	5	1 779	42 893	1 482	3 297	33 949	166 479	248 887	411 723	D
31141	Frozen food mfg	9	1	1	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg	9	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	3	5	4	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	3	4	3	f	D	D	D	D	D	D	D	7 019
3115	Dairy product mfg	-	6	5	707	22 121	547	1 220	18 415	114 983	654 409	763 641	22 187
31151	Dairy product (except frozen) mfg	-	6	5	707	22 121	547	1 220	18 415	114 983	654 409	763 641	22 187
3116	Meat product mfg	-	5	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	5	3	g	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	g	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	3	3	3	519	12 040	264	449	6 296	41 672	385 885	343 914	D
3121	Beverage mfg	3	3	3	519	12 040	264	449	6 296	41 672	385 885	343 914	D
323	Printing & related support activities	-	9	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	9	2	f	D	D	D	D	D	D	D	D
32311	Printing	-	9	2	f	D	D	D	D	D	D	D	D
323112	Commercial flexographic printing	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	17	8	798	18 799	540	1 040	11 457	59 132	29 649	86 866	1 685
3323	Architectural & structural metals mfg	-	5	4	508	10 595	291	587	4 980	17 511	17 151	33 059	923

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MONTEREY COUNTY, CA													
31-33	Manufacturing	3	302	67	7 070	223 735	5 110	9 720	132 527	698 433	654 291	1 329 405	64 562
311	Food mfg.....	3	65	15	2 619	69 819	2 104	4 030	48 704	334 795	300 040	635 846	26 339
3114	Fruit & vegetable preserving & specialty food mfg.....	5	9	5	1 286	36 911	1 084	2 266	27 461	121 296	145 739	269 235	21 620
31142	Fruit & vegetable canning, pickling, & drying.....	3	7	4	f	D	D	D	D	D	D	D	D
311423	Dried & dehydrated food mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
3119	Other food mfg.....	-	8	6	745	21 970	575	1 114	14 567	184 185	101 821	284 702	2 557
334	Computer & electronic product mfg.....	5	20	9	1 088	44 619	511	1 015	13 686	71 789	41 262	113 503	11 645
3344	Semiconductor & other electronic component mfg.....	9	5	3	562	23 341	277	542	7 327	46 208	13 391	59 990	D
33441	Semiconductor & other electronic component mfg.....	9	5	3	562	23 341	277	542	7 327	46 208	13 391	59 990	D
NAPA COUNTY, CA													
31-33	Manufacturing	-	277	85	8 466	320 725	4 576	8 800	129 035	1 198 768	1 004 026	2 139 690	167 543
312	Beverage & tobacco product mfg.....	-	129	50	h	D	D	D	D	D	D	D	D
3121	Beverage mfg.....	-	129	50	h	D	D	D	D	D	D	D	D
31213	Wineries.....	-	124	48	4 161	171 994	1 631	2 940	52 499	632 025	559 207	1 146 691	106 901
312130	Wineries.....	-	124	48	4 161	171 994	1 631	2 940	52 499	632 025	559 207	1 146 691	106 901
325	Chemical mfg.....	-	5	2	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	3	10	4	645	18 826	546	1 166	13 875	58 153	33 560	90 760	D
3273	Cement & concrete product mfg.....	3	5	3	608	17 811	521	1 119	13 299	55 779	32 552	87 344	D
32739	Other concrete product mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
327390	Other concrete product mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
NEVADA COUNTY, CA													
31-33	Manufacturing	1	174	25	2 311	74 149	1 457	2 475	37 713	211 199	154 442	372 909	11 161
334	Computer & electronic product mfg.....	-	24	7	724	33 632	402	543	14 473	123 626	87 778	219 990	D
3342	Communications equipment mfg.....	-	9	4	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg.....	-	8	4	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg.....	-	8	4	f	D	D	D	D	D	D	D	D
ORANGE COUNTY, CA													
31-33	Manufacturing	1	5 767	1 829	215 936	7 643 649	142 728	290 020	3 654 144	21 157 753	18 055 718	39 134 147	2 173 597

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

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

NAICS code	Geographic area and industry	E¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ORANGE COUNTY, CA —Con.													
31-33	Manufacturing—Con.												
311	Food mfg	2	254	71	8 227	219 998	6 269	12 402	140 757	947 485	1 243 559	2 192 966	75 673
3114	Fruit & vegetable preserving & specialty food mfg	2	25	15	2 517	64 514	2 069	4 386	47 358	248 200	518 924	774 628	27 882
31141	Frozen food mfg	—	12	6	1 221	22 903	1 015	2 000	16 402	84 349	101 125	185 649	3 990
311412	Frozen specialty food mfg	—	7	3	829	17 724	714	1 503	13 068	46 364	62 720	109 008	2 631
31142	Fruit & vegetable canning, pickling, & drying	3	13	9	1 296	41 611	1 054	2 386	30 956	163 851	417 799	588 979	23 892
311421	Fruit & vegetable canning	7	8	6	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg	3	13	7	737	27 436	467	807	13 109	129 399	219 202	348 349	5 758
31151	Dairy product (except frozen) mfg	3	9	5	f	D	D	D	D	D	D	D	D
311511	Fluid milk mfg	3	5	3	548	22 945	326	604	10 081	106 492	182 799	288 777	3 833
3118	Bakeries & tortilla mfg	1	139	26	2 640	63 666	1 970	3 567	42 163	274 190	148 789	422 607	20 422
31181	Bread & bakery product mfg	2	124	22	2 102	44 257	1 538	2 677	27 979	150 650	93 027	243 744	D
311812	Commercial bakeries	2	23	14	1 219	30 275	875	1 531	17 865	116 518	57 379	173 821	10 484
3119	Other food mfg	1	50	17	1 823	49 947	1 451	2 977	31 932	245 695	248 669	490 990	20 406
31199	All other food mfg	1	29	11	1 281	30 917	1 066	2 213	22 418	185 833	152 795	338 125	17 719
311991	Perishable prepared food mfg	—	14	6	832	16 437	746	1 447	13 350	126 100	89 139	214 731	D
312	Beverage & tobacco product mfg	—	12	7	902	29 726	503	1 080	13 598	119 755	211 557	331 958	17 057
3121	Beverage mfg	—	12	7	902	29 726	503	1 080	13 598	119 755	211 557	331 958	17 057
31211	Soft drink & ice mfg	—	11	7	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg	—	6	4	779	25 961	412	868	10 675	106 653	197 358	304 757	D
313	Textile mills	2	38	12	1 217	31 071	959	2 052	17 470	66 429	75 922	149 784	18 471
3133	Textile & fabric finishing & fabric coating mills	2	24	7	864	24 411	653	1 486	12 502	48 824	47 176	103 528	D
31331	Textile & fabric finishing mills	—	16	5	674	17 344	544	1 137	8 940	38 934	22 918	62 150	D
313311	Broadwoven fabric finishing mills	—	13	5	656	16 873	529	1 107	8 698	37 569	22 360	60 216	11 239
314	Textile product mills	—	128	36	3 628	80 926	2 711	4 990	46 930	172 977	249 548	419 929	7 365
3141	Textile furnishings mills	—	67	20	2 421	60 320	1 747	3 430	33 138	142 027	207 469	347 658	5 946
31411	Carpet & rug mills	—	9	5	1 159	34 434	716	1 475	16 032	79 046	142 606	224 613	4 241
314110	Carpet & rug mills	—	9	5	1 159	34 434	716	1 475	16 032	79 046	142 606	224 613	4 241
31412	Curtain & linen mills	—	58	15	1 262	25 886	1 031	1 955	17 106	62 981	64 863	123 045	1 705
314129	Other household textile product mills	—	20	10	789	16 825	673	1 307	11 714	44 488	51 404	91 120	1 109
3149	Other textile product mills	2	61	16	1 207	20 606	964	1 560	13 792	30 950	42 079	72 271	1 419
31499	All other textile product mills	1	38	11	851	14 373	661	1 089	9 577	23 352	35 574	58 158	873
314999	All other miscellaneous textile product mills	—	35	10	810	13 447	629	1 025	9 028	21 419	34 336	54 992	800
315	Apparel mfg	1	405	96	8 494	160 284	6 861	11 702	95 099	425 167	401 690	821 156	25 169
3152	Cut & sew apparel mfg	1	366	84	7 673	145 878	6 166	10 434	85 319	397 616	381 156	773 340	23 530
31521	Cut & sew apparel contractors	5	257	38	2 945	30 922	2 786	4 061	27 137	58 014	11 806	69 716	2 157
315211	Men's & boys' cut & sew apparel contractors	2	22	10	541	7 258	501	870	5 655	16 153	2 541	18 652	466
315212	Women's, girls', & infants' cut & sew apparel contractors	6	235	28	2 404	23 664	2 285	3 191	21 482	41 861	9 265	51 064	1 691
31522	Men's & boys' cut & sew apparel mfg	—	31	21	1 550	44 536	920	1 681	14 597	132 270	136 009	261 341	11 859
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	1	13	8	f	D	D	D	D	D	D	D	7 123
315228	Men's & boys' cut & sew other outerwear mfg	—	13	9	640	22 347	379	611	6 176	87 431	82 108	162 911	4 656
31523	Women's & girls' cut & sew apparel mfg	1	69	23	3 047	67 535	2 354	4 462	41 455	201 622	230 607	433 730	9 263
315233	Women's & girls' cut & sew dress mfg	1	14	4	g	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	—	35	12	1 026	25 324	659	1 205	9 086	63 415	76 890	140 692	876
3159	Apparel accessories & other apparel mfg	5	32	9	675	12 082	557	1 025	7 890	23 039	16 713	39 498	D
31599	Apparel accessories & other apparel mfg	5	32	9	675	12 082	557	1 025	7 890	23 039	16 713	39 498	D
316	Leather & allied product mfg	9	22	5	f	D	D	D	D	D	D	D	1 504
3169	Other leather & allied product mfg	9	15	3	545	12 224	438	922	7 346	36 724	31 359	66 633	D
31699	Other leather & allied product mfg	9	15	3	545	12 224	438	922	7 346	36 724	31 359	66 633	D

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ORANGE COUNTY, CA —Con.												
	Manufacturing—Con.												
321	Wood product mfg	1	93	29	1 789	39 251	1 370	2 407	25 169	78 468	132 945	212 172	3 317
3219	Other wood product mfg . . .	1	83	24	1 414	31 848	1 044	1 879	19 367	58 985	96 367	155 905	2 136
32191	Millwork	1	45	15	966	22 496	686	1 242	13 225	41 850	79 703	121 590	1 498
322	Paper mfg	—	71	39	4 795	171 174	3 421	7 093	108 524	498 353	755 782	1 231 857	46 498
3222	Converted paper product mfg	—	70	38	h	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	—	28	24	2 742	97 976	2 048	4 383	65 350	259 245	388 973	650 081	29 271
322211	Corrugated & solid fiber box mfg	—	23	20	2 107	74 009	1 542	3 219	47 586	182 968	315 346	500 563	26 443
322212	Folding paperboard box mfg	—	4	3	f	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	—	19	7	985	29 712	549	1 124	11 919	65 917	153 183	218 177	9 728
322222	Coated & laminated paper mfg	—	15	5	f	D	D	D	D	D	D	D	8 975
323	Printing & related support activities	1	699	126	11 287	359 077	7 762	14 712	201 234	783 383	500 313	1 284 533	64 067
3231	Printing & related support activities	1	699	126	11 287	359 077	7 762	14 712	201 234	783 383	500 313	1 284 533	64 067
32311	Printing	1	632	115	9 988	316 031	6 854	12 940	175 601	719 111	489 853	1 209 602	56 032
323110	Commercial lithographic printing	1	278	52	4 935	177 657	3 434	7 019	101 118	383 867	262 811	647 675	33 883
323112	Commercial flexographic printing	—	22	8	636	20 027	308	598	7 152	39 651	32 154	72 340	3 353
323113	Commercial screen printing	1	85	27	1 836	42 259	1 454	2 568	24 639	76 642	42 345	119 525	8 414
323114	Quick printing	3	157	4	687	16 314	501	792	9 944	35 643	20 235	55 809	2 318
323119	Other commercial printing	3	45	10	683	22 251	455	686	14 563	50 223	23 392	73 709	3 280
32312	Support activities for printing	2	67	11	1 299	43 046	908	1 772	25 633	64 272	10 460	74 931	8 035
323122	Prepress services	2	50	7	1 072	38 577	747	1 511	23 290	56 789	9 471	66 418	7 714
325	Chemical mfg	1	181	61	7 082	298 248	4 720	9 748	129 181	1 778 167	1 399 988	3 173 675	101 130
3254	Pharmaceutical & medicine mfg	1	52	27	4 743	205 847	3 179	6 679	81 897	1 389 441	961 290	2 345 800	77 828
32541	Pharmaceutical & medicine mfg	1	52	27	4 743	205 847	3 179	6 679	81 897	1 389 441	961 290	2 345 800	77 828
325412	Pharmaceutical preparation mfg	1	30	18	3 843	167 827	2 680	5 763	65 145	1 237 278	903 064	2 123 645	57 579
325413	In-vitro diagnostic substance mfg	—	15	7	664	28 994	366	678	12 322	125 338	31 995	169 100	11 850
3255	Paint, coating, & adhesive mfg	2	25	7	726	31 825	459	1 064	15 648	126 756	160 147	285 938	5 825
32551	Paint & coating mfg	2	15	5	557	26 102	387	909	13 503	103 680	134 549	237 661	4 438
325510	Paint & coating mfg	2	15	5	557	26 102	387	909	13 503	103 680	134 549	237 661	4 438
3256	Soap, cleaning compound, & toilet preparation mfg	4	40	11	718	25 669	472	911	13 569	119 944	118 075	237 496	8 087
326	Plastics & rubber products mfg	2	311	160	18 235	464 804	14 125	27 850	297 939	1 279 371	1 012 628	2 301 476	70 446
3261	Plastics product mfg	3	280	146	15 923	408 622	12 296	24 293	264 118	1 161 327	927 977	2 098 716	66 361
32611	Unsupported plastics film, sheet, & bag mfg	3	21	10	855	22 063	684	1 065	12 444	72 733	71 222	143 680	5 053
326111	Unsupported plastics bag mfg	1	9	7	f	D	D	D	D	D	D	D	2 837
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	1	28	13	932	22 728	704	1 232	14 209	56 453	63 631	119 523	4 441
326122	Plastics pipe & pipe fitting mfg	—	12	7	641	14 523	465	712	8 588	33 147	48 194	81 051	3 409
32613	Laminated plastics plate, sheet, & shape mfg	2	8	4	576	14 092	406	896	10 265	50 118	42 761	93 554	2 030
326130	Laminated plastics plate, sheet, & shape mfg	2	8	4	576	14 092	406	896	10 265	50 118	42 761	93 554	2 030
32615	Urethane & other foam product (except polystyrene) mfg	6	21	10	746	20 302	587	1 042	13 426	45 120	66 664	112 154	3 632
326150	Urethane & other foam product (except polystyrene) mfg	6	21	10	746	20 302	587	1 042	13 426	45 120	66 664	112 154	3 632
32616	Plastics bottle mfg	1	11	8	1 007	27 640	665	1 417	18 643	74 662	67 446	145 866	5 379
326160	Plastics bottle mfg	1	11	8	1 007	27 640	665	1 417	18 643	74 662	67 446	145 866	5 379
32619	Other plastics product mfg	3	184	98	11 686	298 552	9 161	18 454	192 984	851 964	606 362	1 463 857	45 140
326191	Plastics plumbing fixture mfg	—	12	7	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	3	171	91	10 517	272 138	8 136	16 445	173 144	733 720	517 697	1 255 486	44 204

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	ORANGE COUNTY, CA												
	—Con.												
31-33	Manufacturing—												
	Con.												
326	Plastics & rubber products mfg—Con.												
3262	Rubber product mfg	—	31	14	2 312	56 182	1 829	3 557	33 821	118 044	84 651	202 760	4 085
32629	Other rubber product mfg	—	26	12	2 127	50 666	1 675	3 232	29 747	105 958	70 239	176 455	3 336
326291	Rubber product mfg for mechanical use	—	12	7	1 266	34 180	1 023	2 069	21 367	70 587	36 628	107 386	1 062
326299	All other rubber product mfg	1	14	5	861	16 486	652	1 163	8 380	35 371	33 611	69 069	2 274
327	Nonmetallic mineral product mfg	1	141	48	3 020	93 661	2 271	4 420	60 330	249 940	248 104	497 966	17 888
3271	Clay product & refractory mfg	1	26	13	812	21 436	612	1 140	13 713	54 491	21 062	75 451	5 199
32711	Pottery, ceramics, & plumbing fixture mfg ...	1	23	13	792	20 757	597	1 108	13 239	52 995	20 287	73 175	5 049
327112	Vitreous china, fine earthenware, & other pottery product mfg ..	—	18	10	599	14 853	450	821	9 737	41 178	15 792	56 865	4 623
3272	Glass & glass product mfg	3	42	8	524	14 364	400	780	9 773	36 619	20 566	58 085	2 896
32721	Glass & glass product mfg	3	42	8	524	14 364	400	780	9 773	36 619	20 566	58 085	2 896
3273	Cement & concrete product mfg	2	40	18	967	32 081	785	1 580	25 167	80 683	100 917	180 785	6 549
32732	Ready-mix concrete mfg	2	28	12	508	17 990	436	856	15 479	50 437	75 839	126 327	5 600
327320	Ready-mix concrete mfg	2	28	12	508	17 990	436	856	15 479	50 437	75 839	126 327	5 600
331	Primary metal mfg	—	36	18	1 582	51 700	1 252	2 762	33 675	156 368	161 772	315 842	17 373
3313	Alumina & aluminum production & processing...	—	4	4	620	20 276	539	1 285	14 324	55 409	39 781	94 110	D
33131	Alumina & aluminum production & processing.....	—	4	4	620	20 276	539	1 285	14 324	55 409	39 781	94 110	D
331316	Aluminum extruded product mfg	—	3	3	f	D	D	D	D	D	D	D	D
3315	Foundries	2	21	9	729	21 830	553	1 186	15 302	45 943	29 195	74 156	5 177
33152	Nonferrous metal foundries	2	15	7	581	18 873	428	946	12 694	43 284	24 623	66 749	5 062
332	Fabricated metal product mfg	1	1 105	325	27 951	953 434	21 121	46 334	579 979	2 079 578	1 139 249	3 186 741	162 776
3321	Forging & stamping	—	62	28	2 766	89 165	2 220	5 178	61 837	185 513	116 576	302 658	10 743
33211	Forging & stamping	—	62	28	2 766	89 165	2 220	5 178	61 837	185 513	116 576	302 658	10 743
332112	Nonferrous forging	—	4	4	813	32 786	700	1 771	24 909	70 217	24 694	95 173	D
332116	Metal stamping	1	48	18	1 385	42 607	1 062	2 343	27 271	92 196	61 223	153 368	4 319
3322	Cutlery & handtool mfg	2	30	9	599	22 356	457	970	12 321	44 690	25 844	70 550	2 216
33221	Cutlery & handtool mfg ..	2	30	9	599	22 356	457	970	12 321	44 690	25 844	70 550	2 216
332212	Hand & edge tool mfg ..	2	27	9	572	20 880	437	935	11 867	42 002	23 872	65 935	D
3323	Architectural & structural metals mfg	1	137	60	4 113	127 822	2 976	6 042	73 904	284 359	190 081	470 849	18 798
33231	Plate work & fabricated structural product mfg ..	—	32	8	755	30 601	529	1 077	19 464	86 113	45 921	130 004	4 406
332312	Fabricated structural metal mfg	—	21	5	581	24 222	413	847	16 284	71 502	34 753	103 746	3 301
33232	Ornamental & architectural metal products mfg	1	105	52	3 358	97 221	2 447	4 965	54 440	198 246	144 160	340 845	14 392
332322	Sheet metal work mfg ..	1	76	44	2 877	84 395	2 211	4 508	48 913	168 940	113 704	280 977	13 865
3324	Boiler, tank, & shipping container mfg	—	11	6	778	24 868	530	1 134	13 491	54 235	46 856	96 709	6 316
3325	Hardware mfg	1	21	10	2 493	90 634	1 759	3 459	46 374	197 255	139 660	322 555	24 945
33251	Hardware mfg	1	21	10	2 493	90 634	1 759	3 459	46 374	197 255	139 660	322 555	24 945
332510	Hardware mfg	1	21	10	2 493	90 634	1 759	3 459	46 374	197 255	139 660	322 555	24 945
3326	Spring & wire product mfg ..	2	34	12	830	21 408	620	1 142	11 555	45 766	36 044	80 755	2 504
33261	Spring & wire product mfg	2	34	12	830	21 408	620	1 142	11 555	45 766	36 044	80 755	2 504
332618	Other fabricated wire product mfg	3	21	8	621	14 297	499	914	7 919	32 182	28 633	60 784	1 499
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	577	116	9 513	356 411	7 458	18 180	234 459	770 063	343 096	1 111 587	68 833
33271	Machine shops	1	503	83	5 311	189 320	4 162	9 444	123 870	395 597	169 174	561 831	26 972
332710	Machine shops	1	503	83	5 311	189 320	4 162	9 444	123 870	395 597	169 174	561 831	26 972
33272	Turned product & screw, nut, & bolt mfg	—	74	33	4 202	167 091	3 296	8 736	110 589	374 466	173 922	549 756	41 861
332721	Precision turned product mfg	—	50	21	1 286	44 976	1 017	2 315	31 717	104 717	34 626	138 898	10 618
332722	Bolt, nut, screw, rivet, & washer mfg	—	24	12	2 916	122 115	2 279	6 421	78 872	269 749	139 296	410 858	31 243

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	ORANGE COUNTY, CA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3328	Coating, engraving, heat treating, & allied activities.	1	158	62	4 337	118 283	3 551	6 949	76 787	236 651	79 769	317 405	14 554
33281	Coating, engraving, heat treating, & allied activities.....	1	158	62	4 337	118 283	3 551	6 949	76 787	236 651	79 769	317 405	14 554
332812	Metal coating/engraving (exc jewelry/silverware)/allied services.....	2	43	14	992	27 157	814	1 574	16 662	57 687	26 317	84 258	3 398
332813	Electroplating, plating, polishing, anodizing, & coloring.....	1	103	42	2 941	77 055	2 402	4 761	50 348	140 396	46 531	187 595	6 858
3329	Other fabricated metal product mfg.....	1	75	22	2 522	102 487	1 550	3 280	49 251	261 046	161 323	413 673	13 867
33291	Metal valve mfg.....	1	18	9	1 564	65 685	844	1 775	26 795	174 236	115 867	284 374	4 794
332911	Industrial valve mfg...	2	8	4	860	32 032	468	906	12 731	87 570	60 840	147 319	3 143
332912	Fluid power valve & hose fitting mfg.....	-	8	4	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg.....	1	57	13	958	36 802	706	1 505	22 456	86 810	45 456	129 299	9 073
332999	All other miscellaneous fabricated metal product mfg.....	-	37	8	696	27 805	514	1 118	16 795	58 894	34 456	90 990	8 191
333	Machinery mfg.....	1	417	141	15 013	609 084	8 356	17 035	240 650	1 227 522	1 120 650	2 321 386	94 997
3331	Agriculture, construction, & mining machinery mfg....	-	20	5	876	35 139	412	605	8 149	123 048	88 796	207 849	1 038
33313	Mining & oil & gas field machinery mfg.....	-	7	3	f	D	D	D	D	D	D	D	440
333132	Oil & gas field machinery & equipment mfg.....	-	5	2	f	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	2	68	26	2 127	78 380	1 253	2 487	32 780	157 557	167 544	315 190	10 833
33329	Other industrial machinery mfg.....	2	58	25	2 037	75 804	1 204	2 428	31 806	152 013	159 950	302 086	10 548
333298	All other industrial machinery mfg.....	2	31	15	1 226	37 478	724	1 485	17 648	77 560	113 453	181 369	8 156
3333	Commercial & service industry machinery mfg ..	-	71	27	3 589	167 365	1 475	3 022	41 539	238 179	338 644	573 223	37 186
33331	Commercial & service industry machinery mfg.....	-	71	27	3 589	167 365	1 475	3 022	41 539	238 179	338 644	573 223	37 186
333314	Optical instrument & lens mfg.....	-	20	11	1 854	98 776	600	1 203	19 508	65 102	120 788	185 608	18 228
333315	Photographic & photocopying equipment mfg.....	-	11	6	1 083	44 807	479	1 003	11 161	121 932	173 099	291 535	16 443
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	1	23	14	1 463	47 970	974	2 077	22 865	117 288	98 549	215 132	3 609
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	1	23	14	1 463	47 970	974	2 077	22 865	117 288	98 549	215 132	3 609
333414	Heating equipment (except warm air furnaces) mfg.....	3	10	5	672	18 170	463	927	7 064	52 893	32 991	85 305	1 068
333415	AC & warm air heating & commercial/ industrial refrig equip mfg.....	-	6	4	515	19 433	316	759	9 843	44 148	43 021	86 823	1 694
3335	Metalworking machinery mfg.....	1	124	31	2 171	81 767	1 590	3 276	51 833	180 963	80 484	254 458	20 226
33351	Metalworking machinery mfg.....	1	124	31	2 171	81 767	1 590	3 276	51 833	180 963	80 484	254 458	20 226
333514	Special die & tool, die set, jig, & fixture mfg ..	2	52	14	675	25 781	525	991	17 785	45 256	23 108	67 550	2 708
333515	Cutting tool & machine tool accessory mfg ..	-	33	10	998	31 746	738	1 582	20 650	81 334	35 164	117 086	13 116
3339	Other general-purpose machinery mfg.....	-	97	32	4 345	183 473	2 316	4 968	73 298	373 681	323 703	696 896	19 958
33391	Pump & compressor mfg.....	-	10	4	925	29 603	456	1 195	9 921	79 862	65 964	143 841	4 277
333911	Pump & pumping equipment mfg.....	-	6	3	801	24 846	412	1 077	8 359	71 902	57 646	127 689	4 118
33392	Material handling equipment mfg.....	1	17	6	586	22 916	372	815	12 141	33 060	97 491	139 681	2 763
33399	All other general-purpose machinery mfg.....	-	70	22	2 834	130 954	1 488	2 958	51 236	260 759	160 248	413 374	12 918
333994	Industrial process furnace & oven mfg ..	-	9	3	560	25 315	251	485	8 461	70 290	55 143	136 277	D
333995	Fluid power cylinder & actuator mfg.....	-	4	2	f	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg.....	1	35	9	654	23 865	410	822	12 568	61 218	34 136	92 370	5 571

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	ORANGE COUNTY, CA												
	—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg	1	650	289	49 383	2 174 703	25 114	55 143	733 630	6 954 981	5 589 444	12 330 873	1 165 835
3341	Computer & peripheral equipment mfg	2	95	41	8 208	416 140	2 924	7 460	103 493	1 271 159	2 487 029	3 720 445	392 591
33411	Computer & peripheral equipment mfg	2	95	41	8 208	416 140	2 924	7 460	103 493	1 271 159	2 487 029	3 720 445	392 591
334111	Electronic computer mfg	2	24	12	3 134	138 990	1 635	4 382	56 921	616 417	1 763 543	2 322 915	304 873
334112	Computer storage device mfg	3	14	7	2 051	142 795	250	623	10 864	377 150	231 078	605 317	52 150
334119	Other computer peripheral equipment mfg	—	52	22	3 000	133 330	1 030	2 435	35 283	276 106	490 812	789 041	35 476
3342	Communications equipment mfg	1	53	21	3 179	175 935	1 524	3 100	52 476	482 692	324 421	799 844	28 704
33421	Telephone apparatus mfg	1	14	8	1 826	110 474	790	1 619	30 049	322 223	208 995	527 224	18 491
334210	Telephone apparatus mfg	1	14	8	1 826	110 474	790	1 619	30 049	322 223	208 995	527 224	18 491
33422	Radio & TV broadcasting & wireless communications equipment mfg	2	29	8	961	50 598	564	1 126	17 579	117 472	82 902	197 292	8 549
334220	Radio & TV broadcasting & wireless communications equipment mfg	2	29	8	961	50 598	564	1 126	17 579	117 472	82 902	197 292	8 549
3343	Audio & video equipment mfg	—	27	11	1 449	43 492	732	1 542	15 215	145 997	157 990	293 860	6 342
33431	Audio & video equipment mfg	—	27	11	1 449	43 492	732	1 542	15 215	145 997	157 990	293 860	6 342
334310	Audio & video equipment mfg	—	27	11	1 449	43 492	732	1 542	15 215	145 997	157 990	293 860	6 342
3344	Semiconductor & other electronic component mfg	1	294	140	22 970	840 242	14 292	31 297	334 846	3 342 279	1 774 640	4 945 698	622 776
33441	Semiconductor & other electronic component mfg	1	294	140	22 970	840 242	14 292	31 297	334 846	3 342 279	1 774 640	4 945 698	622 776
334412	Bare printed circuit board mfg	—	96	45	6 104	171 891	4 685	10 097	117 617	469 539	281 185	747 345	98 778
334413	Semiconductor & related device mfg	1	32	13	5 211	264 914	2 199	3 602	52 550	1 470 206	377 213	1 684 235	465 262
334415	Electronic resistor mfg	—	7	5	714	22 179	443	711	11 346	42 591	52 185	94 147	4 368
334417	Electronic connector mfg	—	20	12	2 887	90 627	2 201	5 774	40 115	210 615	104 938	320 606	14 762
334418	Printed circuit assembly (electronic assembly) mfg	—	33	26	3 555	142 234	1 802	5 153	52 634	792 232	706 534	1 497 185	17 581
334419	Other electronic component mfg	1	83	33	3 965	135 246	2 532	4 994	52 732	326 343	232 514	552 194	20 693
3345	Navigational, measuring, medical, & control instruments mfg	—	151	66	11 359	629 025	4 292	9 055	188 814	1 476 914	675 035	2 164 645	69 972
33451	Navigational, measuring, medical, & control instruments mfg	—	151	66	11 359	629 025	4 292	9 055	188 814	1 476 914	675 035	2 164 645	69 972
334510	Electromedical & electrotherapeutic apparatus mfg	—	23	14	1 485	84 517	751	1 596	33 554	249 606	74 025	323 081	13 095
334511	Search, detection, navigation, & guidance instrument mfg	—	21	8	5 013	313 767	1 547	3 238	90 710	775 386	251 382	1 042 003	41 507
334513	Industrial process control instrument mfg	1	21	11	920	35 888	469	1 010	14 992	90 621	36 855	127 967	1 849
334515	Electricity measuring & testing instrument mfg	3	30	11	989	52 556	530	1 175	22 924	121 014	120 975	239 268	6 140
334516	Analytical laboratory instrument mfg	—	20	9	1 965	107 874	420	856	13 834	148 557	127 207	275 520	3 927
334519	Other measuring & controlling device mfg	—	21	7	572	20 589	320	647	7 570	57 758	27 994	86 454	2 137
3346	Mfg & reproducing magnetic & optical media	1	30	10	2 218	69 869	1 350	2 689	38 786	235 940	170 329	406 381	45 450
33461	Mfg & reproducing magnetic & optical media	1	30	10	2 218	69 869	1 350	2 689	38 786	235 940	170 329	406 381	45 450
334612	Prerecorded CD (except software), tape, & record reproducing	3	15	5	552	17 552	448	779	13 409	84 212	52 998	137 734	10 425
334613	Magnetic & optical recording media mfg	—	10	3	1 553	48 780	819	1 717	22 988	130 669	107 187	237 326	D

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31-33	ORANGE COUNTY, CA—Con.												
	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	1	146	62	7 047	254 087	4 710	9 619	132 566	757 153	538 387	1 264 611	36 550
3351	Electric lighting equipment mfg	1	34	13	876	21 859	627	1 200	10 899	75 843	35 245	106 413	1 837
33512	Lighting fixture mfg	1	32	11	f	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	—	8	4	726	17 672	591	1 173	9 263	64 758	38 844	104 646	1 581
33522	Major appliance mfg	—	5	3	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	1	49	16	1 730	56 551	1 072	2 247	26 453	128 791	83 067	209 024	3 627
33531	Electrical equipment mfg	1	49	16	1 730	56 551	1 072	2 247	26 453	128 791	83 067	209 024	3 627
335314	Relay & industrial control mfg	—	26	10	1 363	45 259	819	1 760	20 170	103 593	65 167	166 131	2 535
3359	Other electrical equipment & component mfg	1	55	29	3 715	158 005	2 420	4 999	85 951	487 761	381 231	844 528	29 505
33591	Battery mfg	—	3	2	f	D	D	D	D	D	D	D	D
335911	Storage battery mfg	—	3	2	f	D	D	D	D	D	D	D	D
33593	Wiring device mfg	3	21	8	f	D	D	D	D	D	D	D	3 061
335931	Current-carrying wiring device mfg	2	16	8	797	28 625	531	1 156	15 502	60 755	30 027	91 266	2 878
33599	All other electrical equipment & component mfg	1	27	15	1 987	90 267	1 089	2 352	40 494	289 888	208 621	472 467	22 613
335999	All other miscellaneous electrical equipment & component mfg	1	26	14	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	225	88	18 992	781 018	11 869	22 736	350 521	1 151 417	1 575 013	2 980 000	135 143
3361	Motor vehicle mfg	7	14	5	f	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	7	13	5	f	D	D	D	D	D	D	D	D
336111	Automobile mfg	7	10	5	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	3	107	42	5 817	149 004	4 576	8 758	90 171	283 575	313 716	596 701	30 943
33632	Motor vehicle electrical & electronic equipment mfg	2	26	10	2 180	52 814	1 751	3 786	35 218	107 508	56 517	159 322	10 476
336322	Other motor vehicle electrical & electronic equipment mfg	2	24	10	g	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	—	4	3	f	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	—	4	3	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	4	35	15	1 938	47 961	1 524	2 366	28 547	112 857	140 173	253 102	14 179
336399	All other motor vehicle parts mfg	4	35	15	1 938	47 961	1 524	2 366	28 547	112 857	140 173	253 102	14 179
3364	Aerospace product & parts mfg	—	45	23	10 915	561 773	5 669	10 820	216 522	707 537	1 058 807	2 018 276	97 227
33641	Aerospace product & parts mfg	—	45	23	10 915	561 773	5 669	10 820	216 522	707 537	1 058 807	2 018 276	97 227
336411	Aircraft mfg	—	2	1	g	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	—	36	18	2 971	110 618	1 959	3 723	56 874	226 137	122 448	356 980	D
336414	Guided missile & space vehicle mfg ...	—	1	1	i	D	D	D	D	D	D	D	D
3366	Ship & boat building	2	23	6	f	D	D	D	D	D	D	D	D
33661	Ship & boat building	2	23	6	f	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	5	23	9	868	23 193	570	1 076	12 858	55 353	47 238	102 961	D
33699	Other transportation equipment mfg	5	23	9	868	23 193	570	1 076	12 858	55 353	47 238	102 961	D
336991	Motorcycle, bicycle, & parts mfg	5	20	8	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	248	81	9 876	264 366	7 988	16 181	179 231	827 143	499 755	1 318 374	24 402
3371	Household & institutional furniture & kitchen cabinet mfg	1	166	46	5 025	127 216	4 154	8 479	84 311	350 276	263 230	606 660	9 172
33711	Wood kitchen cabinet & counter top mfg	1	74	8	899	23 564	688	1 495	14 233	81 618	64 482	146 304	3 861
337110	Wood kitchen cabinet & counter top mfg ...	1	74	8	899	23 564	688	1 495	14 233	81 618	64 482	146 304	3 861
33712	Household & institutional furniture mfg	1	92	38	4 126	103 652	3 466	6 984	70 078	268 658	198 748	460 356	5 311
337121	Upholstered household furniture mfg	—	23	6	792	21 668	664	1 470	15 125	88 515	59 252	147 642	886
337122	Nonupholstered wood household furniture mfg	5	41	14	1 285	23 308	1 131	2 209	17 908	49 548	47 834	95 448	1 941
337127	Institutional furniture mfg	—	14	10	1 082	36 965	817	1 661	21 510	76 599	31 004	101 315	1 595

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ORANGE COUNTY, CA													
—Con.													
31-33	Manufacturing—Con.												
337	Furniture & related product mfg—Con.												
3372	Office furniture (including fixtures) mfg	1	63	28	3 578	110 213	2 851	5 504	78 611	365 617	142 221	506 366	10 156
33721	Office furniture (including fixtures) mfg	1	63	28	3 578	110 213	2 851	5 504	78 611	365 617	142 221	506 366	10 156
337211	Wood office furniture mfg	4	14	7	650	17 488	522	1 014	11 635	36 462	20 664	56 635	1 062
337214	Office furniture (except wood) mfg	—	11	6	1 557	56 679	1 263	2 747	43 749	258 499	70 899	329 274	4 516
337215	Showcase, partition, shelving, & locker mfg	2	28	12	1 025	28 869	798	1 410	18 123	56 959	43 778	99 789	4 275
3379	Other furniture related product mfg	2	19	7	1 273	26 937	983	2 198	16 309	111 250	94 304	205 348	5 074
33792	Blind & shade mfg	2	9	6	1 145	23 561	879	1 949	14 076	97 080	76 390	173 933	D
337920	Blind & shade mfg	2	9	6	1 145	23 561	879	1 949	14 076	97 080	76 390	173 933	D
339	Miscellaneous mfg	1	573	134	16 652	586 932	10 740	20 516	255 369	1 541 715	1 107 043	2 645 508	86 487
3391	Medical equipment & supplies mfg	—	256	62	9 856	396 288	5 827	12 122	164 610	1 127 501	748 209	1 871 683	67 964
33911	Medical equipment & supplies mfg	—	256	62	9 856	396 288	5 827	12 122	164 610	1 127 501	748 209	1 871 683	67 964
339111	Laboratory apparatus & furniture mfg	—	9	4	952	47 600	278	559	10 474	101 203	78 551	175 262	8 075
339112	Surgical & medical instrument mfg	1	61	21	2 672	107 684	1 487	3 050	38 231	171 318	167 424	342 060	14 053
339113	Surgical appliance & supplies mfg	—	47	22	2 976	118 078	1 919	3 656	47 677	435 372	315 035	749 896	26 822
339114	Dental equipment & supplies mfg	—	18	5	864	40 592	504	1 134	20 090	193 477	60 034	244 326	4 690
339115	Ophthalmic goods mfg	1	9	5	1 072	44 421	763	1 618	23 331	177 532	111 514	295 083	12 684
339116	Dental laboratories ...	3	112	5	1 320	37 913	876	2 105	24 807	48 599	15 651	65 056	1 640
3399	Other miscellaneous mfg ..	2	317	72	6 796	190 644	4 913	8 394	90 759	414 214	358 834	773 825	18 523
33991	Jewelry & silverware mfg	—	25	3	539	14 348	383	810	7 397	29 142	24 736	53 829	1 081
33992	Sporting & athletic goods mfg	1	103	23	2 332	65 157	1 658	2 877	28 812	160 616	173 231	334 003	6 381
339920	Sporting & athletic goods mfg	1	103	23	2 332	65 157	1 658	2 877	28 812	160 616	173 231	334 003	6 381
33995	Sign mfg	2	86	11	1 002	27 725	670	1 146	14 916	47 906	32 570	80 591	1 973
339950	Sign mfg	2	86	11	1 002	27 725	670	1 146	14 916	47 906	32 570	80 591	1 973
33999	All other miscellaneous mfg	3	70	29	2 438	72 573	1 808	2 889	32 426	152 279	102 813	255 952	7 852
339991	Gasket, packing, & sealing device mfg...	3	15	9	900	30 468	644	1 242	16 013	63 570	30 873	94 097	2 217
339999	All other miscellaneous mfg	3	48	17	1 336	37 269	990	1 290	12 854	79 814	60 917	142 232	5 285
PLACER COUNTY, CA													
31-33	Manufacturing	—	260	53	9 244	403 378	4 310	8 441	120 468	1 671 323	2 105 811	3 808 390	163 209
321	Wood product mfg	1	16	8	1 026	30 589	911	1 985	23 634	96 428	150 707	253 570	10 131
332	Fabricated metal product mfg	—	34	9	553	20 568	456	908	15 167	60 839	80 732	138 551	D
333	Machinery mfg	1	22	6	656	26 591	457	936	14 436	53 871	23 797	76 674	D
334	Computer & electronic product mfg	—	22	7	i	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg	—	5	3	h	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	—	5	3	h	D	D	D	D	D	D	D	D
334111	Electronic computer mfg	—	2	2	h	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	5	3	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	—	5	3	g	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	—	1	1	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
PLUMAS COUNTY, CA													
31-33	Manufacturing	—	23	4	643	21 893	559	1 194	18 965	54 258	123 912	176 661	3 079
321	Wood product mfg	—	7	2	f	D	D	D	D	D	D	D	2 656
3211	Sawmills & wood preservation	—	4	2	f	D	D	D	D	D	D	D	D
32111	Sawmills & wood preservation	—	4	2	f	D	D	D	D	D	D	D	D
321113	Sawmills	—	4	2	f	D	D	D	D	D	D	D	D
RIVERSIDE COUNTY, CA													
31-33	Manufacturing	1	1 420	423	46 134	1 329 074	34 135	65 833	797 582	3 977 142	3 754 251	7 735 960	257 330
311	Food mfg	3	73	19	2 349	62 213	1 512	3 043	38 599	204 845	495 240	700 276	14 620
3114	Fruit & vegetable preserving & specialty food mfg	—	8	6	g	D	D	D	D	D	D	D	D
31141	Frozen food mfg	—	2	2	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	—	2	2	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	1	16	6	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	1	16	6	f	D	D	D	D	D	D	D	D
321	Wood product mfg	—	41	13	1 835	47 149	1 540	2 910	32 045	98 005	129 450	227 290	3 921
3219	Other wood product mfg	—	32	11	1 584	41 426	1 343	2 448	28 680	87 472	116 265	204 092	2 776
32199	All other wood product mfg	—	14	6	1 302	35 152	1 101	2 006	23 966	75 340	88 212	164 174	1 183
321991	Manufactured home (mobile home) mfg	—	4	4	1 091	32 412	958	1 779	22 003	69 833	81 851	152 281	D
322	Paper mfg	1	16	10	664	23 961	524	1 041	15 954	54 821	79 876	134 789	2 059
3222	Converted paper product mfg	1	16	10	664	23 961	524	1 041	15 954	54 821	79 876	134 789	2 059
323	Printing & related support activities	1	129	19	1 953	53 846	1 509	2 717	35 543	156 685	116 783	273 399	10 526
3231	Printing & related support activities	1	129	19	1 953	53 846	1 509	2 717	35 543	156 685	116 783	273 399	10 526
32311	Printing	1	121	18	1 861	51 563	1 430	2 544	33 761	152 617	115 993	268 535	10 429
323110	Commercial lithographic printing	1	47	8	1 062	28 173	854	1 535	19 194	93 387	79 363	172 754	4 545
325	Chemical mfg	3	42	10	1 122	39 388	687	1 413	21 619	219 672	151 257	371 322	14 185
3254	Pharmaceutical & medicine mfg	—	7	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	—	7	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	93	47	5 385	149 168	4 320	8 247	96 105	440 489	332 658	789 745	34 864
3261	Plastics product mfg	—	80	43	5 081	141 890	4 088	7 809	91 393	421 647	316 033	754 311	33 549
32619	Other plastics product mfg	1	63	33	3 781	107 562	2 966	5 376	66 020	289 831	174 043	481 188	28 830
326199	All other plastics product mfg	1	57	32	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	3	84	31	2 638	81 542	1 952	4 039	56 676	215 051	204 385	424 083	14 111
3271	Clay product & refractory mfg	—	17	8	613	17 128	413	843	9 820	46 468	23 478	73 063	1 143
3273	Cement & concrete product mfg	3	52	21	1 631	50 377	1 209	2 516	35 738	126 077	156 288	284 691	10 353
32732	Ready-mix concrete mfg	7	23	7	764	23 963	561	1 229	18 410	64 293	74 766	139 361	6 834
327320	Ready-mix concrete mfg	7	23	7	764	23 963	561	1 229	18 410	64 293	74 766	139 361	6 834
331	Primary metal mfg	—	23	10	724	24 558	554	1 418	15 826	62 329	111 989	173 767	5 460
332	Fabricated metal product mfg	—	278	80	6 674	213 244	5 069	9 871	132 033	473 223	576 107	1 048 483	31 989
3323	Architectural & structural metals mfg	—	54	26	1 965	51 753	1 564	3 182	34 598	117 507	144 562	263 585	4 142
33231	Plate work & fabricated structural product mfg	1	16	8	597	16 341	485	1 017	11 467	36 141	41 343	79 726	1 847
33232	Ornamental & architectural metal products mfg	—	38	18	1 368	35 412	1 079	2 165	23 131	81 366	103 219	183 859	2 295
332321	Metal window & door mfg	—	14	7	f	D	D	D	D	D	D	D	639
332322	Sheet metal work mfg	—	19	10	664	16 735	541	1 110	11 112	40 106	38 955	78 599	1 263
3324	Boiler, tank, & shipping container mfg	—	11	7	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	130	19	1 354	43 388	1 081	1 889	28 552	85 948	37 815	123 808	6 385
33271	Machine shops	2	111	13	1 054	34 264	859	1 446	22 359	69 968	29 865	100 075	5 187
332710	Machine shops	2	111	13	1 054	34 264	859	1 446	22 359	69 968	29 865	100 075	5 187

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	RIVERSIDE COUNTY, CA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3329	Other fabricated metal product mfg.....	—	28	9	1 399	45 135	927	1 762	22 042	92 491	86 531	178 534	D
33291	Metal valve mfg.....	—	6	3	582	21 621	376	726	11 634	38 479	54 449	93 259	D
33299	All other fabricated metal product mfg.....	1	22	6	817	23 514	551	1 036	10 408	54 012	32 082	85 275	2 087
332999	All other miscellaneous fabricated metal product mfg.....	—	15	4	550	13 473	408	727	6 702	25 165	26 226	51 247	1 221
333	Machinery mfg.....	3	115	26	2 087	70 437	1 414	2 753	37 572	144 372	112 529	255 240	10 581
3339	Other general-purpose machinery mfg.....	1	31	10	588	18 057	390	761	8 958	39 577	29 882	68 408	2 793
334	Computer & electronic product mfg.....	—	73	28	4 308	132 676	2 823	5 026	51 076	361 688	220 703	585 888	43 789
3344	Semiconductor & other electronic component mfg.....	—	33	17	3 075	92 907	2 126	3 617	35 783	248 250	110 581	360 712	38 116
33441	Semiconductor & other electronic component mfg.....	—	33	17	3 075	92 907	2 126	3 617	35 783	248 250	110 581	360 712	38 116
334413	Semiconductor & related device mfg...	—	6	4	g	D	D	D	D	D	D	D	D
334417	Electronic connector mfg.....	—	6	4	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	2	99	47	6 500	177 239	5 355	10 099	126 453	398 172	615 832	1 009 527	27 066
3362	Motor vehicle body & trailer mfg.....	—	17	13	2 592	59 176	2 207	4 203	46 945	184 881	352 830	535 037	6 650
33621	Motor vehicle body & trailer mfg.....	—	17	13	2 592	59 176	2 207	4 203	46 945	184 881	352 830	535 037	6 650
336213	Motor home mfg.....	—	2	2	g	D	D	D	D	D	D	D	D
336214	Travel trailer & camper mfg.....	—	10	7	836	20 865	715	1 177	14 307	50 483	91 061	142 178	1 052
3363	Motor vehicle parts mfg...	5	38	18	2 256	57 393	1 884	3 497	38 723	133 790	181 396	312 050	D
33639	Other motor vehicle parts mfg.....	7	19	12	1 645	40 396	1 389	2 641	27 511	93 053	118 513	208 079	11 131
336399	All other motor vehicle parts mfg.....	7	19	12	1 645	40 396	1 389	2 641	27 511	93 053	118 513	208 079	11 131
3364	Aerospace product & parts mfg.....	2	17	7	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg.....	2	17	7	f	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg.....	2	14	7	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg.....	3	110	29	2 779	52 677	2 031	3 646	36 787	108 471	128 620	238 005	4 843
3371	Household & institutional furniture & kitchen cabinet mfg.....	1	80	16	1 519	31 719	1 315	2 348	21 724	58 649	75 977	134 594	2 544
33712	Household & institutional furniture mfg.....	—	41	13	1 281	26 923	1 126	2 050	18 571	50 015	68 841	118 811	2 166
337122	Nonupholstered wood household furniture mfg.....	—	18	4	566	10 500	521	1 046	7 393	19 688	24 941	44 596	1 276
3372	Office furniture (including fixtures) mfg.....	5	24	11	1 187	19 271	658	1 179	14 035	46 440	48 507	95 750	2 149
33721	Office furniture (including fixtures) mfg.....	5	24	11	1 187	19 271	658	1 179	14 035	46 440	48 507	95 750	2 149
337214	Office furniture (except wood) mfg.....	9	4	4	702	7 402	267	459	5 811	21 515	29 662	51 506	D
339	Miscellaneous mfg.....	—	136	31	4 967	146 241	3 329	6 873	72 030	839 554	232 053	1 062 146	26 432
3391	Medical equipment & supplies mfg.....	—	54	13	h	D	D	D	D	D	D	D	8 354
33911	Medical equipment & supplies mfg.....	—	54	13	h	D	D	D	D	D	D	D	8 354
339112	Surgical & medical instrument mfg.....	—	11	3	g	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg.....	—	15	9	g	D	D	D	D	D	D	D	6 990
3399	Other miscellaneous mfg...	1	82	18	g	D	D	D	D	D	D	D	18 078
33992	Sporting & athletic goods mfg.....	2	26	6	617	12 619	471	719	6 050	22 700	22 636	44 700	6 181
339920	Sporting & athletic goods mfg.....	2	26	6	617	12 619	471	719	6 050	22 700	22 636	44 700	6 181
33999	All other miscellaneous mfg.....	—	25	8	1 383	40 439	1 097	2 247	25 883	89 384	78 011	164 492	D
339999	All other miscellaneous mfg.....	—	16	4	577	17 579	414	846	8 501	56 042	52 846	107 204	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SACRAMENTO COUNTY, CA													
31-33	Manufacturing	—	910	229	30 493	1 016 973	19 650	37 732	483 539	5 233 079	3 820 583	8 939 602	190 227
311	Food mfg	—	73	20	4 828	168 067	3 108	6 012	91 208	1 003 738	611 016	1 615 878	D
3114	Fruit & vegetable preserving & specialty food mfg	—	3	2	g	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	—	2	2	g	D	D	D	D	D	D	D	D
311422	Specialty canning	—	1	1	g	D	D	D	D	D	D	D	D
3115	Dairy product mfg	2	6	4	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	—	40	11	g	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	—	35	7	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries	—	10	6	g	D	D	D	D	D	D	D	D
3119	Other food mfg	—	7	1	g	D	D	D	D	D	D	D	D
31191	Snack food mfg	—	1	1	g	D	D	D	D	D	D	D	D
311911	Roasted nuts & peanut butter mfg	—	1	1	g	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	—	11	10	1 437	29 402	318	614	7 742	145 807	101 427	249 563	D
3121	Beverage mfg	—	11	10	1 437	29 402	318	614	7 742	145 807	101 427	249 563	D
31211	Soft drink & ice mfg	—	6	6	g	D	D	D	D	D	D	D	D
312111	Soft drink mfg	—	4	4	1 213	24 693	260	509	6 416	128 849	95 106	225 564	D
321	Wood product mfg	1	35	21	g	D	D	D	D	D	D	D	D
3219	Other wood product mfg	—	31	18	g	D	D	D	D	D	D	D	D
32191	Millwork	—	20	11	f	D	D	D	D	D	D	D	D
322	Paper mfg	—	13	9	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	—	13	9	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	3	162	26	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities	3	162	26	g	D	D	D	D	D	D	D	D
32311	Printing	3	142	25	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	3	64	18	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	44	13	f	D	D	D	D	D	D	D	2 987
3261	Plastics product mfg	1	37	11	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	37	11	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	133	25	1 989	58 645	1 517	2 961	39 365	112 197	137 305	248 788	D
3323	Architectural & structural metals mfg	1	45	16	g	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	1	32	12	f	D	D	D	D	D	D	D	D
333	Machinery mfg	1	39	12	1 161	31 427	699	1 388	16 041	80 286	153 771	226 412	D
3339	Other general-purpose machinery mfg	—	10	3	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	55	23	i	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg	—	12	5	i	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	—	12	5	i	D	D	D	D	D	D	D	D
334111	Electronic computer mfg	—	6	3	i	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	—	7	4	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	6	4	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	6	4	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	15	8	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	—	15	8	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	7	4	f	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SACRAMENTO COUNTY, CA—Con.													
31-33	Manufacturing—Con.												
336	Transportation equipment mfg	—	39	11	2 398	129 735	1 019	1 945	31 754	249 614	147 451	322 573	2 867
3363	Motor vehicle parts mfg . . .	1	19	6	f	D	D	D	D	D	D	D	2 011
3364	Aerospace product & parts mfg	—	4	2	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	4	2	g	D	D	D	D	D	D	D	D
336415	Guided missile & space vehicle propulsion unit & parts mfg	—	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	3	74	20	g	D	D	D	D	D	D	D	3 542
3371	Household & institutional furniture & kitchen cabinet mfg	2	54	13	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	2	101	15	g	D	D	D	D	D	D	D	3 089
3391	Medical equipment & supplies mfg	2	61	9	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	2	61	9	f	D	D	D	D	D	D	D	D
SAN BENITO COUNTY, CA													
31-33	Manufacturing	—	75	22	2 160	64 166	1 662	3 348	42 978	162 833	216 064	365 272	9 245
SAN BERNARDINO COUNTY, CA													
31-33	Manufacturing	1	1 992	684	63 448	1 830 442	49 119	98 167	1 179 490	5 517 265	6 121 091	11 618 672	592 831
311	Food mfg	1	104	36	4 473	116 469	3 374	7 078	76 629	722 467	731 453	1 458 787	59 936
3113	Sugar & confectionery product mfg	—	14	4	652	9 035	362	634	6 640	19 573	21 707	41 827	D
3114	Fruit & vegetable preserving & specialty food mfg	5	10	6	f	D	D	D	D	D	D	D	D
31141	Frozen food mfg	6	3	3	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg	6	3	3	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	1	32	6	979	20 372	814	1 791	16 160	87 120	63 215	150 282	11 037
31183	Tortilla mfg	—	4	2	f	D	D	D	D	D	D	D	D
311830	Tortilla mfg	—	4	2	f	D	D	D	D	D	D	D	D
3119	Other food mfg	—	16	10	1 118	37 735	921	2 063	24 473	424 692	225 985	651 886	D
31191	Snack food mfg	—	4	3	f	D	D	D	D	D	D	D	D
311919	Other snack food mfg	—	3	3	f	D	D	D	D	D	D	D	D
315	Apparel mfg	4	50	7	573	6 672	520	872	5 489	11 320	12 828	23 755	D
3152	Cut & sew apparel mfg	4	45	7	560	6 507	509	855	5 362	11 009	12 598	23 215	D
321	Wood product mfg	2	95	37	3 373	76 526	2 862	5 695	52 869	204 111	251 104	449 827	8 719
3212	Veneer, plywood, & engineered wood product mfg	—	21	12	947	24 455	793	1 579	16 470	62 237	69 054	131 946	1 246
32121	Veneer, plywood, & engineered wood product mfg	—	21	12	947	24 455	793	1 579	16 470	62 237	69 054	131 946	1 246
321214	Truss mfg	—	17	9	856	21 657	716	1 425	14 971	52 284	51 293	103 498	746
3219	Other wood product mfg	3	70	24	2 369	50 738	2 020	4 011	35 395	138 970	179 872	312 796	7 202
32191	Millwork	5	25	7	767	15 168	659	1 226	10 881	47 174	84 369	126 272	2 279
32199	All other wood product mfg	1	21	13	1 278	29 167	1 089	2 258	19 960	75 858	78 698	153 939	3 880
321991	Manufactured home (mobile home) mfg	—	5	5	525	12 960	449	939	8 660	29 134	49 050	78 222	D
321999	All other miscellaneous wood product mfg	—	11	6	f	D	D	D	D	D	D	D	D
322	Paper mfg	1	31	23	1 629	55 961	1 215	2 702	33 731	162 027	252 672	415 079	17 038
3222	Converted paper product mfg	1	29	21	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	1	17	11	678	21 133	543	1 233	13 792	48 875	104 699	153 052	6 562

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SAN BERNARDINO COUNTY, CA—Con.												
	Manufacturing—Con.												
323	Printing & related support activities.....	3	172	26	2 393	60 059	1 808	3 082	38 974	142 193	106 873	250 129	5 868
3231	Printing & related support activities.....	3	172	26	2 393	60 059	1 808	3 082	38 974	142 193	106 873	250 129	5 868
32311	Printing	3	154	20	1 537	44 142	1 062	1 858	26 307	107 310	97 546	206 267	4 682
323110	Commercial lithographic printing ..	4	77	11	841	28 408	564	1 031	15 725	53 136	46 104	98 956	2 944
32312	Support activities for printing.....	5	18	6	856	15 917	746	1 224	12 667	34 883	9 327	43 862	1 186
323121	Tradebinding & related work	3	10	5	f	D	D	D	D	D	D	D	694
325	Chemical mfg	—	73	29	1 865	61 537	1 159	2 337	31 417	294 125	284 819	587 332	18 607
3255	Paint, coating, & adhesive mfg	—	25	8	538	15 650	291	545	6 540	62 166	69 623	131 282	D
326	Plastics & rubber products mfg	1	160	94	7 731	204 416	6 274	12 322	135 770	630 377	651 351	1 264 273	59 723
3261	Plastics product mfg	1	137	80	6 905	182 445	5 634	11 074	122 249	540 244	560 437	1 083 097	56 514
32611	Unsupported plastics film, sheet, & bag mfg ..	—	15	11	f	D	D	D	D	D	D	D	D
32616	Plastics bottle mfg	2	14	12	g	D	D	D	D	D	D	D	22 782
326160	Plastics bottle mfg	2	14	12	g	D	D	D	D	D	D	D	22 782
32619	Other plastics product mfg	—	80	43	3 778	95 527	3 101	6 097	61 831	240 515	189 709	425 329	17 173
326199	All other plastics product mfg	—	75	41	h	D	D	D	D	D	D	D	D
3262	Rubber product mfg	—	23	14	826	21 971	640	1 248	13 521	90 133	90 914	181 176	3 209
32629	Other rubber product mfg	1	14	10	533	13 210	428	825	7 984	35 210	34 567	69 655	2 027
327	Nonmetallic mineral product mfg	—	106	49	4 565	152 520	3 542	7 196	101 762	533 978	367 059	907 928	62 837
3271	Clay product & refractory mfg	3	13	7	623	13 070	510	1 063	8 645	18 971	11 290	30 160	1 407
32711	Pottery, ceramics, & plumbing fixture mfg ...	4	9	5	f	D	D	D	D	D	D	D	D
327112	Vitreous china, fine earthenware, & other pottery product mfg ..	4	8	5	f	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	—	63	31	3 078	110 880	2 377	4 880	73 731	382 516	284 512	670 029	55 854
32731	Cement mfg	—	4	4	f	D	D	D	D	D	D	D	D
327310	Cement mfg	—	4	4	f	D	D	D	D	D	D	D	D
32733	Concrete pipe, brick, & block mfg	3	14	10	f	D	D	D	D	D	D	D	D
327332	Concrete pipe mfg	2	9	6	f	D	D	D	D	D	D	D	D
32739	Other concrete product mfg	—	20	12	1 258	40 970	947	2 066	26 651	140 246	74 925	215 451	13 771
327390	Other concrete product mfg	—	20	12	1 258	40 970	947	2 066	26 651	140 246	74 925	215 451	13 771
331	Primary metal mfg	—	37	18	2 684	119 232	2 274	4 882	89 181	424 665	867 751	1 286 170	71 530
3311	Iron & steel mills & ferroalloy mfg	—	4	2	g	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	—	4	2	g	D	D	D	D	D	D	D	D
331111	Iron & steel mills	—	4	2	g	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing ..	—	8	7	538	17 170	478	1 194	12 893	71 006	186 616	252 628	D
33131	Alumina & aluminum production & processing.....	—	8	7	538	17 170	478	1 194	12 893	71 006	186 616	252 628	D
3315	Foundries	1	16	6	f	D	D	D	D	D	D	D	1 194
332	Fabricated metal product mfg	—	423	126	10 792	324 334	8 317	17 018	209 755	770 690	884 272	1 633 070	168 907
3321	Forging & stamping	—	34	15	1 386	52 789	1 056	2 338	31 720	135 224	205 815	332 194	D
33211	Forging & stamping	—	34	15	1 386	52 789	1 056	2 338	31 720	135 224	205 815	332 194	D
332111	Iron & steel forging	—	4	3	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	—	92	33	3 093	85 568	2 301	4 525	50 734	201 300	248 511	448 289	7 395
33231	Plate work & fabricated structural product mfg ..	1	36	10	1 096	34 642	830	1 701	21 865	87 937	99 851	185 954	2 098
332312	Fabricated structural metal mfg	2	23	5	673	21 097	552	1 109	14 339	57 306	66 392	121 423	1 062
33232	Ornamental & architectural metal products mfg	—	56	23	1 997	50 926	1 471	2 824	28 869	113 363	148 660	262 335	5 297
332321	Metal window & door mfg	—	12	7	f	D	D	D	D	D	D	D	1 621
332322	Sheet metal work mfg ..	—	35	14	978	27 806	649	1 378	15 752	62 864	83 193	146 335	3 501
3325	Hardware mfg	—	10	5	562	14 352	445	895	8 454	30 381	23 655	53 606	4 228
33251	Hardware mfg	—	10	5	562	14 352	445	895	8 454	30 381	23 655	53 606	4 228
332510	Hardware mfg	—	10	5	562	14 352	445	895	8 454	30 381	23 655	53 606	4 228

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

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

NAICS code	Geographic area and industry	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
31-33	SAN BERNARDINO COUNTY, CA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	174	33	2 430	76 910	1 948	3 919	54 475	139 765	83 733	221 748	12 251
33271	Machine shops	2	147	19	1 399	45 748	1 108	2 100	31 294	84 852	34 187	118 500	5 471
332710	Machine shops	2	147	19	1 399	45 748	1 108	2 100	31 294	84 852	34 187	118 500	5 471
33272	Turned product & screw, nut, & bolt mfg	—	27	14	1 031	31 162	840	1 819	23 181	54 913	49 546	103 248	6 780
332721	Precision turned product mfg	—	19	11	f	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, & allied activities .	—	36	16	1 239	38 523	1 061	2 383	28 841	101 376	164 614	258 160	D
33281	Coating, engraving, heat treating, & allied activities	—	36	16	1 239	38 523	1 061	2 383	28 841	101 376	164 614	258 160	D
332812	Metal coating/ engraving (exc jewelry/silverware)/ allied services	—	17	11	964	30 631	836	2 014	24 186	83 610	157 654	233 299	D
3329	Other fabricated metal product mfg	1	35	11	1 040	30 368	816	1 652	19 699	84 653	65 487	149 395	D
33299	All other fabricated metal product mfg	1	28	6	578	16 461	463	919	11 279	34 695	41 547	76 862	1 337
333	Machinery mfg	1	182	46	4 167	137 562	2 983	6 177	81 228	317 689	274 287	594 285	20 059
3333	Commercial & service industry machinery mfg ..	—	22	7	509	14 344	339	611	6 807	32 920	42 033	75 455	1 938
33331	Commercial & service industry machinery mfg	—	22	7	509	14 344	339	611	6 807	32 920	42 033	75 455	1 938
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	2	13	6	1 249	38 822	1 027	2 454	26 819	89 784	93 459	186 991	6 801
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	2	13	6	1 249	38 822	1 027	2 454	26 819	89 784	93 459	186 991	6 801
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	—	5	3	764	22 073	660	1 716	17 051	52 793	58 541	111 739	D
3335	Metalworking machinery mfg	2	73	14	886	31 879	694	1 356	22 395	60 418	22 995	82 563	3 233
33351	Metalworking machinery mfg	2	73	14	886	31 879	694	1 356	22 395	60 418	22 995	82 563	3 233
3339	Other general-purpose machinery mfg	1	37	11	1 017	34 237	654	1 245	17 919	100 348	81 926	183 331	5 362
33399	All other general-purpose machinery mfg	3	21	5	500	11 567	302	512	5 746	27 416	18 658	46 072	962
334	Computer & electronic product mfg	3	78	26	2 310	68 871	1 484	2 893	30 679	169 559	131 759	298 432	8 869
3344	Semiconductor & other electronic component mfg	2	29	10	819	23 842	565	1 121	10 530	59 300	38 629	97 558	3 386
33441	Semiconductor & other electronic component mfg	2	29	10	819	23 842	565	1 121	10 530	59 300	38 629	97 558	3 386
3345	Navigational, measuring, medical, & control instruments mfg	3	22	8	521	15 234	359	631	7 479	34 523	19 454	53 109	1 239
33451	Navigational, measuring, medical, & control instruments mfg	3	22	8	521	15 234	359	631	7 479	34 523	19 454	53 109	1 239
335	Electrical equipment, appliance, & component mfg	—	31	13	1 751	46 568	1 431	2 762	29 514	187 104	128 857	317 199	3 301
3351	Electric lighting equipment mfg	—	11	8	1 262	32 972	1 058	2 254	22 762	155 511	102 145	257 348	D
33512	Lighting fixture mfg	—	11	8	1 262	32 972	1 058	2 254	22 762	155 511	102 145	257 348	D
335129	Other lighting equipment mfg	—	4	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	112	50	4 661	147 600	3 673	7 035	100 797	317 342	569 994	884 819	38 003
3362	Motor vehicle body & trailer mfg	1	28	13	1 534	42 984	1 240	2 548	29 831	79 472	154 067	233 899	2 842
33621	Motor vehicle body & trailer mfg	1	28	13	1 534	42 984	1 240	2 548	29 831	79 472	154 067	233 899	2 842
336214	Travel trailer & camper mfg	1	13	7	813	24 482	622	1 259	17 411	43 072	76 078	119 471	1 614
3363	Motor vehicle parts mfg ...	2	44	19	1 392	33 666	1 046	1 939	19 390	74 890	78 067	154 747	D
33639	Other motor vehicle parts mfg	2	16	10	606	12 563	485	854	8 305	36 361	42 671	79 523	1 996
336399	All other motor vehicle parts mfg	2	16	10	606	12 563	485	854	8 305	36 361	42 671	79 523	1 996

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
SAN BERNARDINO COUNTY, CA—Con.														
31-33	Manufacturing—Con.													
336	Transportation equipment mfg—Con.													
3364	Aerospace product & parts mfg	—	21	13	g	D	D	D	D	D	D	D	D	
33641	Aerospace product & parts mfg	—	21	13	g	D	D	D	D	D	D	D	D	
336412	Aircraft engine & engine parts mfg	—	1	1	f	D	D	D	D	D	D	D	D	
336413	Other aircraft part & auxiliary equipment mfg	2	18	11	f	D	D	D	D	D	D	D	D	
337	Furniture & related product mfg	—	141	59		6 665	147 567	5 326	10 655	99 256	315 313	317 895	646 709	13 813
3371	Household & institutional furniture & kitchen cabinet mfg	—	98	35		5 024	103 019	4 185	8 532	74 568	210 500	214 234	437 498	10 155
33711	Wood kitchen cabinet & counter top mfg	—	38	4		982	22 061	636	1 347	12 447	51 250	27 429	78 990	1 318
337110	Wood kitchen cabinet & counter top mfg ...	—	38	4		982	22 061	636	1 347	12 447	51 250	27 429	78 990	1 318
33712	Household & institutional furniture mfg	—	60	31		4 042	80 958	3 549	7 185	62 121	159 250	186 805	358 508	8 837
337121	Upholstered household furniture mfg	—	17	9		1 748	36 884	1 574	3 170	31 283	77 191	88 446	164 712	1 219
337122	Nonupholstered wood household furniture mfg	—	28	14		1 462	25 954	1 256	2 598	18 649	47 253	69 978	130 941	5 991
337127	Institutional furniture mfg	—	10	5		614	12 979	547	1 066	8 851	27 211	19 581	46 610	907
3372	Office furniture (including fixtures) mfg	2	34	18		1 285	35 174	883	1 625	18 594	70 242	77 056	147 986	2 085
33721	Office furniture (including fixtures) mfg	2	34	18		1 285	35 174	883	1 625	18 594	70 242	77 056	147 986	2 085
337215	Showcase, partition, shelving, & locker mfg	—	21	10		809	21 840	570	1 002	10 397	43 491	54 980	98 749	1 000
339	Miscellaneous mfg	1	132	30		2 533	70 336	1 831	3 381	38 545	203 892	152 308	354 427	28 779
3391	Medical equipment & supplies mfg	4	57	9	f	D	D	D	D	D	D	D	D	2 867
33911	Medical equipment & supplies mfg	4	57	9	f	D	D	D	D	D	D	D	D	2 867
3399	Other miscellaneous mfg ..	—	75	21	g	D	D	D	D	D	D	D	D	25 912
33999	All other miscellaneous mfg	—	21	7		757	22 551	541	992	12 466	65 355	76 798	142 746	D
SAN DIEGO COUNTY, CA														
31-33	Manufacturing	1	3 407	953		118 868	4 223 506	73 111	144 405	1 868 764	10 999 196	11 403 094	22 233 599	919 402
311	Food mfg	2	191	45		4 279	110 975	2 871	5 324	59 828	290 947	264 102	567 504	30 184
3114	Fruit & vegetable preserving & specialty food mfg	—	7	5	1 001	20 461	833	1 537	12 084	62 526	64 872	127 435	D	D
31141	Frozen food mfg	—	5	3	f	D	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	—	4	3	f	D	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	4	134	28		2 028	43 866	1 283	2 267	24 421	106 185	66 161	172 181	6 234
31181	Bread & bakery product mfg	4	117	23		1 715	38 642	1 052	1 871	20 566	93 048	56 516	149 361	5 536
311812	Commercial bakeries ..	5	35	16		1 034	26 491	586	1 136	13 527	63 889	35 688	99 595	4 311
3119	Other food mfg	1	25	6		757	31 984	497	1 066	16 332	71 513	45 795	129 372	6 668
31199	All other food mfg	1	17	4		682	30 829	449	1 013	15 676	65 329	40 622	117 987	6 465
311999	All other miscellaneous food mfg	—	10	2		517	26 611	311	772	13 036	57 113	26 409	95 691	D
312	Beverage & tobacco product mfg	3	22	7		822	23 646	344	673	9 487	97 101	142 207	237 852	5 052
3121	Beverage mfg	3	21	7	f	D	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	3	10	5		731	21 024	289	594	7 940	90 315	136 392	225 360	4 369
312111	Soft drink mfg	3	3	2	f	D	D	D	D	D	D	D	D	D
314	Textile product mills	3	99	16		1 219	23 075	973	1 633	13 806	51 044	39 986	90 902	1 809
3149	Other textile product mills ..	2	67	13		986	19 339	769	1 295	11 118	42 732	31 774	74 239	1 552
31499	All other textile product mills	3	35	8		601	11 316	462	779	6 657	26 482	18 181	44 432	1 028
314999	All other miscellaneous textile product mills ..	3	33	8	f	D	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SAN DIEGO COUNTY, CA—Con.													
31-33	Manufacturing—Con.												
315	Apparel mfg	3	159	52	5 661	87 602	4 554	8 757	59 436	243 988	182 884	426 277	8 959
3152	Cut & sew apparel mfg	3	125	42	4 648	70 084	3 756	7 348	49 582	200 367	139 079	339 673	D
31521	Cut & sew apparel contractors	4	76	20	1 973	25 671	1 633	3 253	21 565	41 608	9 935	50 240	1 678
315211	Men's & boys' cut & sew apparel contractors	1	14	7	540	8 099	414	778	5 820	12 808	2 104	14 991	185
315212	Women's, girls', & infants' cut & sew apparel contractors ..	5	62	13	1 433	17 572	1 219	2 475	15 745	28 800	7 831	35 249	1 493
31522	Men's & boys' cut & sew apparel mfg	4	24	13	1 927	30 813	1 627	3 231	20 453	115 722	86 275	203 204	3 640
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	6	11	5	1 135	16 955	935	2 064	10 374	69 652	45 456	120 273	1 885
3159	Apparel accessories & other apparel mfg	—	30	8	f	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	—	30	8	f	D	D	D	D	D	D	D	D
316	Leather & allied product mfg .	1	18	5	714	13 151	574	1 359	8 572	31 783	30 392	62 743	928
321	Wood product mfg	2	54	12	710	16 691	549	1 007	10 323	30 795	33 685	63 502	2 083
3219	Other wood product mfg ...	2	44	10	595	13 529	460	851	8 362	23 982	22 186	45 280	1 695
322	Paper mfg	1	26	10	756	21 009	575	1 174	12 232	54 879	66 582	120 353	2 218
3222	Converted paper product mfg	1	26	10	756	21 009	575	1 174	12 232	54 879	66 582	120 353	2 218
32221	Paperboard container mfg	1	9	6	538	14 346	410	839	7 854	37 520	47 272	83 711	1 091
323	Printing & related support activities.....	4	432	67	5 500	158 528	3 838	7 223	94 124	354 097	230 717	584 767	36 751
3231	Printing & related support activities.....	4	432	67	5 500	158 528	3 838	7 223	94 124	354 097	230 717	584 767	36 751
32311	Printing	3	388	58	4 725	136 797	3 392	6 415	82 827	292 710	192 894	485 499	30 730
323110	Commercial lithographic printing ..	3	177	36	2 656	84 832	1 858	3 686	50 525	180 000	118 394	298 269	23 593
323113	Commercial screen printing.....	5	56	11	823	19 903	607	1 030	10 711	38 280	28 263	66 712	2 833
32312	Support activities for printing.....	7	44	9	775	21 731	446	808	11 297	61 387	37 823	99 268	6 021
323122	Prepress services	8	29	6	586	17 973	289	542	8 547	52 507	36 611	89 164	5 054
325	Chemical mfg	1	124	42	4 957	204 801	2 349	4 595	66 864	595 108	376 174	977 852	95 896
3254	Pharmaceutical & medicine mfg	1	58	28	3 547	153 056	1 568	3 138	47 703	388 809	186 418	578 091	69 571
32541	Pharmaceutical & medicine mfg	1	58	28	3 547	153 056	1 568	3 138	47 703	388 809	186 418	578 091	69 571
325411	Medicinal & botanical mfg	4	12	5	509	19 966	110	198	3 424	25 170	14 895	42 054	6 659
325413	In-vitro diagnostic substance mfg	—	15	11	2 001	83 616	1 002	1 983	29 661	244 833	92 526	333 821	43 775
325414	Biological product (except diagnostic) mfg	1	19	7	736	38 121	274	606	9 947	79 540	60 673	146 845	16 640
326	Plastics & rubber products mfg	3	161	58	4 578	130 515	3 327	6 198	68 198	331 234	305 858	632 720	32 200
3261	Plastics product mfg	3	135	49	3 985	113 623	2 919	5 498	59 879	288 014	267 530	551 299	30 131
32619	Other plastics product mfg	3	103	39	3 012	79 459	2 192	4 142	42 071	197 439	187 848	383 450	20 681
326191	Plastics plumbing fixture mfg	—	6	3	773	22 284	476	1 013	10 716	64 891	73 722	139 998	2 440
326199	All other plastics product mfg.....	4	97	36	2 239	57 175	1 716	3 129	31 355	132 548	114 126	243 452	18 241
3262	Rubber product mfg	4	26	9	593	16 892	408	700	8 319	43 220	38 328	81 421	2 069
327	Nonmetallic mineral product mfg	3	93	23	1 842	53 390	1 204	2 256	35 098	129 795	147 610	277 910	9 262
3273	Cement & concrete product mfg	3	42	15	1 006	36 823	692	1 382	24 622	92 142	120 201	212 564	7 178
32732	Ready-mix concrete mfg	3	26	11	801	30 534	555	1 086	20 919	76 889	105 699	182 869	6 445
327320	Ready-mix concrete mfg	3	26	11	801	30 534	555	1 086	20 919	76 889	105 699	182 869	6 445
332	Fabricated metal product mfg	1	495	134	10 655	328 921	7 478	14 329	195 141	759 470	411 936	1 171 062	48 284
3321	Forging & stamping	—	14	7	509	18 397	374	764	10 837	37 709	40 866	77 333	3 372
33211	Forging & stamping	—	14	7	509	18 397	374	764	10 837	37 709	40 866	77 333	3 372

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SAN DIEGO COUNTY, CA—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3323	Architectural & structural metals mfg	—	91	32	2 806	88 567	1 757	3 459	46 420	202 277	122 729	323 715	8 414
33231	Plate work & fabricated structural product mfg . .	—	21	9	808	26 015	625	1 186	16 791	63 812	48 232	111 088	2 145
332312	Fabricated structural metal mfg	—	18	9	777	25 140	601	1 140	16 233	62 371	47 069	108 444	2 105
33232	Ornamental & architectural metal products mfg	—	70	23	1 998	62 552	1 132	2 273	29 629	138 465	74 497	212 627	6 269
332322	Sheet metal work mfg	—	49	20	1 674	53 637	923	1 851	25 073	119 625	61 580	181 090	5 536
3324	Boiler, tank, & shipping container mfg	1	14	3	540	13 206	339	757	8 065	34 270	46 956	79 600	1 165
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	235	55	3 511	112 768	2 790	5 214	77 747	223 721	85 755	310 573	17 777
33271	Machine shops	1	211	44	2 791	92 181	2 234	4 108	62 891	181 318	69 208	252 205	14 332
332710	Machine shops	1	211	44	2 791	92 181	2 234	4 108	62 891	181 318	69 208	252 205	14 332
33272	Turned product & screw, nut, & bolt mfg	2	24	11	720	20 587	556	1 106	14 856	42 403	16 547	58 368	3 445
332721	Precision turned product mfg	—	18	9	579	16 597	452	925	12 050	32 023	12 247	44 477	2 365
3328	Coating, engraving, heat treating, & allied activities .	2	59	17	873	20 140	686	1 230	12 799	38 559	14 386	51 980	2 109
33281	Coating, engraving, heat treating, & allied activities	2	59	17	873	20 140	686	1 230	12 799	38 559	14 386	51 980	2 109
332813	Electroplating, plating, polishing, anodizing, & coloring	3	37	9	538	11 121	413	730	7 068	21 468	6 467	27 378	1 069
3329	Other fabricated metal product mfg	—	49	12	1 610	50 781	993	2 014	26 294	154 805	70 553	229 146	9 777
33291	Metal valve mfg	—	5	2	f	D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting & trim mfg	—	2	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	2	44	10	f	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg	2	33	7	550	16 680	400	828	10 434	29 395	17 499	48 001	1 743
333	Machinery mfg	—	204	53	8 954	369 382	5 174	10 451	163 304	1 289 085	797 339	2 064 665	70 016
3332	Industrial machinery mfg . .	—	38	9	1 788	54 876	1 439	2 787	37 576	424 655	95 159	515 112	15 940
33329	Other industrial machinery mfg	—	32	8	1 669	50 739	1 360	2 632	35 518	415 297	86 594	497 562	15 342
333295	Semiconductor machinery mfg	—	7	4	g	D	D	D	D	D	D	D	D
333298	All other industrial machinery mfg	—	18	3	528	16 859	331	603	6 594	39 314	30 862	69 998	D
3333	Commercial & service industry machinery mfg . .	1	40	12	1 187	42 300	637	1 274	17 410	107 997	89 162	196 605	5 012
33331	Commercial & service industry machinery mfg	1	40	12	1 187	42 300	637	1 274	17 410	107 997	89 162	196 605	5 012
3335	Metalworking machinery mfg	1	50	10	858	29 409	614	1 156	18 308	82 909	40 288	121 465	5 138
33351	Metalworking machinery mfg	1	50	10	858	29 409	614	1 156	18 308	82 909	40 288	121 465	5 138
3336	Engine, turbine, & power transmission equipment mfg	—	5	2	h	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	—	5	2	h	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg	—	2	2	h	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	1	45	12	1 010	34 126	599	1 263	15 594	76 872	79 772	155 526	D
33399	All other general-purpose machinery mfg	1	34	10	851	28 997	521	1 107	13 363	63 729	65 800	127 626	2 346

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SAN DIEGO COUNTY, CA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg.....	1	414	196	30 825	1 373 848	13 861	27 875	404 879	3 317 227	5 550 764	8 730 916	334 995
3341	Computer & peripheral equipment mfg.....	—	63	27	8 192	431 119	2 679	5 671	84 294	1 008 756	3 809 245	4 663 199	94 542
33411	Computer & peripheral equipment mfg.....	—	63	27	8 192	431 119	2 679	5 671	84 294	1 008 756	3 809 245	4 663 199	94 542
334111	Electronic computer mfg.....	—	15	6	812	38 479	324	759	10 217	539 104	230 044	734 438	11 014
334112	Computer storage device mfg.....	—	3	3	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg.....	—	42	17	6 641	376 717	2 280	4 768	70 836	432 832	3 529 741	3 842 157	79 723
3342	Communications equipment mfg.....	2	62	43	5 064	222 330	1 993	3 786	54 792	420 544	504 464	929 970	66 616
33421	Telephone apparatus mfg.....	—	9	7	1 239	62 393	322	609	9 163	51 984	103 226	156 759	4 812
334210	Telephone apparatus mfg.....	—	9	7	1 239	62 393	322	609	9 163	51 984	103 226	156 759	4 812
33422	Radio & TV broadcasting & wireless communications equipment mfg.....	1	43	30	3 377	144 936	1 493	2 889	41 825	331 191	333 870	661 838	57 858
334220	Radio & TV broadcasting & wireless communications equipment mfg.....	1	43	30	3 377	144 936	1 493	2 889	41 825	331 191	333 870	661 838	57 858
3344	Semiconductor & other electronic component mfg.....	3	140	58	7 465	248 229	4 810	9 642	114 193	591 366	410 075	1 012 670	101 554
33441	Semiconductor & other electronic component mfg.....	3	140	58	7 465	248 229	4 810	9 642	114 193	591 366	410 075	1 012 670	101 554
334412	Bare printed circuit board mfg.....	1	35	17	2 083	53 816	1 718	3 441	35 753	147 776	116 064	262 637	16 984
334413	Semiconductor & related device mfg...	5	23	13	1 325	62 279	724	1 493	23 982	172 297	70 868	250 622	63 036
334414	Electronic capacitor mfg.....	2	8	6	855	30 143	504	1 013	14 387	55 642	43 498	100 171	4 077
334417	Electronic connector mfg.....	—	6	6	854	23 186	722	1 462	13 535	75 855	17 622	90 143	3 492
334418	Printed circuit assembly (electronic assembly) mfg.....	5	19	10	1 715	56 659	714	1 492	17 167	89 882	125 785	221 028	10 806
334419	Other electronic component mfg.....	6	40	6	553	19 798	371	627	8 154	45 219	32 539	79 490	2 841
3345	Navigational, measuring, medical, & control instruments mfg.....	—	124	59	9 381	450 874	3 886	7 892	139 858	1 245 875	693 875	1 942 005	68 965
33451	Navigational, measuring, medical, & control instruments mfg.....	—	124	59	9 381	450 874	3 886	7 892	139 858	1 245 875	693 875	1 942 005	68 965
334510	Electromedical & electrotherapeutic apparatus mfg.....	—	13	9	670	50 915	359	968	11 800	58 164	67 821	131 969	11 111
334511	Search, detection, navigation, & guidance instrument mfg.....	—	22	15	4 595	218 029	1 541	2 988	54 239	523 578	212 770	740 645	17 983
334513	Industrial process control instrument mfg.....	—	15	7	773	31 032	249	528	7 819	100 273	59 625	158 686	3 418
334515	Electricity measuring & testing instrument mfg.....	—	30	15	1 851	81 194	961	1 885	32 925	271 036	205 226	474 853	29 833
334519	Other measuring & controlling device mfg.....	1	21	6	506	24 020	244	406	7 927	61 910	26 045	88 107	1 113
335	Electrical equipment, appliance, & component mfg.....	—	66	31	3 263	131 032	1 943	4 186	63 287	375 743	361 886	717 274	58 534
3353	Electrical equipment mfg ..	—	24	11	1 152	36 986	730	1 587	18 449	85 499	65 558	146 964	4 123
33531	Electrical equipment mfg.....	—	24	11	1 152	36 986	730	1 587	18 449	85 499	65 558	146 964	4 123
335312	Motor & generator mfg.....	—	9	7	631	17 084	408	936	9 299	46 553	33 921	79 790	1 790
3359	Other electrical equipment & component mfg.....	—	25	15	1 623	80 766	918	2 066	39 539	238 327	183 686	407 892	50 008
33599	All other electrical equipment & component mfg.....	—	18	9	1 300	71 252	699	1 614	34 131	222 337	149 091	357 549	D
335999	All other miscellaneous electrical equipment & component mfg.....	—	15	7	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SAN DIEGO COUNTY, CA—Con.													
31-33	Manufacturing—Con.												
336	Transportation equipment mfg	—	139	50	14 688	558 939	10 759	21 726	338 668	1 131 708	1 113 668	2 253 448	76 461
3363	Motor vehicle parts mfg ...	6	50	16	956	29 739	689	1 161	16 647	50 964	67 858	119 979	5 728
3364	Aerospace product & parts mfg	—	31	15	6 232	292 855	4 213	7 477	168 395	604 736	624 917	1 252 472	59 566
33641	Aerospace product & parts mfg	—	31	15	6 232	292 855	4 213	7 477	168 395	604 736	624 917	1 252 472	59 566
336412	Aircraft engine & engine parts mfg	—	5	2	g	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	—	22	10	4 262	222 900	2 804	4 591	113 396	426 146	531 518	992 383	48 158
3366	Ship & boat building	—	21	13	6 874	220 818	5 371	12 102	145 056	423 670	374 865	798 612	8 575
33661	Ship & boat building	—	21	13	6 874	220 818	5 371	12 102	145 056	423 670	374 865	798 612	8 575
336611	Ship building & repairing	—	16	11	6 759	217 422	5 298	11 955	143 386	416 309	370 115	786 424	D
337	Furniture & related product mfg	1	185	32	3 511	75 071	2 790	5 140	48 926	145 632	166 337	313 068	5 107
3371	Household & institutional furniture & kitchen cabinet mfg	1	132	16	1 887	37 003	1 580	2 784	26 645	66 175	67 597	133 103	2 273
33712	Household & institutional furniture mfg	1	69	12	1 419	26 177	1 194	2 085	19 243	48 041	52 453	99 864	1 521
337122	Nonupholstered wood household furniture mfg	—	34	8	1 117	19 056	957	1 671	14 592	34 407	43 857	77 821	1 090
3372	Office furniture (including fixtures) mfg	—	41	11	1 065	25 726	831	1 769	16 730	48 581	45 483	95 762	1 768
33721	Office furniture (including fixtures) mfg	—	41	11	1 065	25 726	831	1 769	16 730	48 581	45 483	95 762	1 768
3379	Other furniture related product mfg	—	12	5	559	12 342	379	587	5 551	30 876	53 257	84 203	1 066
339	Miscellaneous mfg	1	477	110	15 288	518 781	9 591	19 839	207 783	1 668 787	1 076 281	2 736 169	96 094
3391	Medical equipment & supplies mfg	1	196	42	6 101	221 751	3 345	6 413	71 519	554 738	340 995	913 047	36 594
33911	Medical equipment & supplies mfg	1	196	42	6 101	221 751	3 345	6 413	71 519	554 738	340 995	913 047	36 594
339112	Surgical & medical instrument mfg	1	49	20	2 860	120 625	1 255	2 243	24 082	223 395	133 499	358 196	23 099
339113	Surgical appliance & supplies mfg	—	20	7	1 154	38 840	671	1 260	16 225	130 230	60 188	194 723	5 511
339115	Ophthalmic goods mfg	—	14	4	1 141	31 157	856	1 916	19 086	120 756	51 056	182 700	4 531
3399	Other miscellaneous mfg ...	—	281	68	9 187	297 030	6 246	13 426	136 264	1 114 049	735 286	1 823 122	59 500
33992	Sporting & athletic goods mfg	—	110	31	6 648	224 214	4 537	10 101	98 700	924 108	584 813	1 483 027	54 006
339920	Sporting & athletic goods mfg	—	110	31	6 648	224 214	4 537	10 101	98 700	924 108	584 813	1 483 027	54 006
33995	Sign mfg	3	67	12	692	20 157	449	961	10 917	40 198	19 891	60 023	966
339950	Sign mfg	3	67	12	692	20 157	449	961	10 917	40 198	19 891	60 023	966
33999	All other miscellaneous mfg	1	55	19	1 404	41 183	920	1 722	19 556	114 889	74 359	189 279	3 964
339999	All other miscellaneous mfg	2	37	14	814	21 111	476	775	9 145	62 590	39 786	103 116	2 776
SAN FRANCISCO COUNTY, CA													
31-33	Manufacturing	1	1 247	309	25 037	642 429	19 500	35 967	392 849	1 998 438	1 999 422	3 978 945	67 132
311	Food mfg	1	150	38	3 020	76 308	2 145	3 612	45 172	242 771	182 817	429 634	10 097
3118	Bakeries & tortilla mfg	2	85	17	1 613	42 452	1 030	1 602	23 697	118 835	47 120	166 256	4 060
31181	Bread & bakery product mfg	1	75	16	1 508	40 677	951	1 484	22 617	113 842	43 025	157 160	3 789
311812	Commercial bakeries ..	1	22	11	1 128	34 776	654	1 072	18 655	102 834	36 641	139 776	3 219
315	Apparel mfg	—	320	149	11 694	220 817	10 000	18 429	142 589	1 026 012	1 346 564	2 353 619	11 635
3151	Apparel knitting mills	—	6	6	f	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills	—	6	6	f	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills	—	6	6	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SAN FRANCISCO COUNTY, CA—Con.												
	Manufacturing—Con.												
315	Apparel mfg—Con.												
3152	Cut & sew apparel mfg	—	298	141	10 795	198 868	9 244	16 612	129 158	979 903	1 310 953	2 273 431	10 223
31521	Cut & sew apparel contractors	5	194	91	5 156	67 388	4 789	8 844	60 047	103 760	21 673	125 261	2 906
315212	Women's, girls', & infants' cut & sew apparel contractors	6	183	84	4 727	60 887	4 381	8 043	54 518	92 444	18 051	110 323	2 695
31522	Men's & boys' cut & sew apparel mfg	—	16	14	g	D	D	D	D	D	D	D	D
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	—	4	4	f	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	—	3	3	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	—	75	31	h	D	D	D	D	D	D	D	D
315232	Women's & girls' cut & sew blouse & shirt mfg	—	26	13	g	D	D	D	D	D	D	D	D
315233	Women's & girls' cut & sew dress mfg	—	15	7	g	D	D	D	D	D	D	D	D
323	Printing & related support activities	3	266	43	3 324	121 365	2 419	4 781	78 285	224 152	125 572	349 654	20 119
3231	Printing & related support activities	3	266	43	3 324	121 365	2 419	4 781	78 285	224 152	125 572	349 654	20 119
32311	Printing	4	211	32	2 476	83 772	1 774	3 444	52 504	155 713	109 470	264 601	15 867
323110	Commercial lithographic printing	4	120	22	1 640	64 510	1 154	2 356	40 157	116 854	79 525	195 976	12 585
32312	Support activities for printing	1	55	11	848	37 593	645	1 337	25 781	68 439	16 102	85 053	4 252
323122	Prepress services	1	45	9	660	32 032	476	980	21 305	56 220	13 061	69 558	3 581
332	Fabricated metal product mfg	1	70	11	947	31 182	736	1 281	20 373	87 630	34 697	122 861	2 512
334	Computer & electronic product mfg	2	26	6	1 028	24 429	671	1 245	11 854	61 999	58 741	119 690	3 684
3344	Semiconductor & other electronic component mfg	—	6	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	—	6	1	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	—	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	3	79	12	913	31 586	685	1 318	18 132	59 517	30 139	88 162	1 444
3371	Household & institutional furniture & kitchen cabinet mfg	3	61	7	625	20 980	444	920	11 352	39 259	22 603	61 516	963
339	Miscellaneous mfg	3	135	14	1 031	25 069	752	1 238	12 992	57 583	35 773	92 423	2 889
3399	Other miscellaneous mfg	3	79	12	764	18 437	541	908	8 826	43 575	27 677	69 995	2 159
	SAN JOAQUIN COUNTY, CA												
31-33	Manufacturing	1	553	210	24 646	749 607	19 276	39 038	527 168	2 900 786	3 199 752	5 879 062	208 588
311	Food mfg	1	84	42	7 744	221 522	6 334	12 319	168 145	1 213 281	1 414 422	2 557 997	70 065
3112	Grain & oilseed milling	1	3	3	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal mfg	—	1	1	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg	—	1	1	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	1	19	15	h	D	D	D	D	D	D	D	D
31141	Frozen food mfg	8	2	1	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg	8	2	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	—	17	14	3 282	94 105	2 974	5 820	78 604	370 386	408 381	749 286	24 358
311421	Fruit & vegetable canning	—	17	14	3 282	94 105	2 974	5 820	78 604	370 386	408 381	749 286	24 358
3118	Bakeries & tortilla mfg	—	20	6	515	12 492	376	592	8 164	35 438	32 694	68 191	2 243
3119	Other food mfg	—	10	4	727	21 418	566	1 274	12 407	85 225	174 520	242 589	5 604
312	Beverage & tobacco product mfg	—	13	8	1 115	38 171	723	1 558	23 688	413 562	420 432	687 186	36 606
3121	Beverage mfg	—	13	8	1 115	38 171	723	1 558	23 688	413 562	420 432	687 186	36 606
31213	Wineries	—	12	8	g	D	D	D	D	D	D	D	D
312130	Wineries	—	12	8	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SAN JOAQUIN COUNTY, CA—Con.												
	Manufacturing—Con.												
314	Textile product mills	—	12	3	533	12 554	460	1 005	9 368	34 258	41 263	75 966	1 191
321	Wood product mfg	1	28	17	1 981	45 111	1 682	3 091	34 192	99 860	191 217	291 912	6 335
3219	Other wood product mfg . . .	1	25	14	1 886	43 026	1 607	2 968	32 920	95 300	185 659	281 790	D
32191	Millwork	2	11	7	760	17 419	653	1 310	13 997	43 301	91 524	136 715	4 308
321912	Cut stock, resawing lumber, & planing	4	5	5	519	12 674	473	951	10 406	28 291	56 822	87 207	D
32199	All other wood product mfg	—	4	1	f	D	D	D	D	D	D	D	D
321999	All other miscellaneous wood product mfg	—	4	1	f	D	D	D	D	D	D	D	D
322	Paper mfg	—	10	8	1 144	44 744	936	2 086	33 208	111 818	158 747	271 527	11 361
3222	Converted paper product mfg	—	8	6	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	—	8	6	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	2	50	7	688	17 907	477	818	11 410	33 121	21 457	55 485	2 787
3231	Printing & related support activities	2	50	7	688	17 907	477	818	11 410	33 121	21 457	55 485	2 787
32311	Printing	2	47	6	661	17 410	454	776	11 094	32 241	21 317	54 465	D
326	Plastics & rubber products mfg	—	38	17	1 387	38 131	1 068	1 909	25 861	130 779	141 369	271 508	8 564
3261	Plastics product mfg	—	29	16	1 248	34 503	960	1 686	23 600	121 943	135 191	256 590	7 733
32619	Other plastics product mfg	—	16	8	503	13 426	378	741	8 113	31 558	21 501	53 012	1 607
327	Nonmetallic mineral product mfg	—	33	10	1 563	61 548	1 279	2 686	49 716	197 829	144 193	343 373	14 773
3272	Glass & glass product mfg	—	3	2	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	—	3	2	f	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	—	23	7	659	21 001	501	996	15 803	47 878	56 970	103 794	4 560
332	Fabricated metal product mfg	1	92	33	2 758	84 894	2 099	4 352	56 556	209 349	262 213	467 251	10 091
3323	Architectural & structural metals mfg	—	27	18	1 412	42 368	1 004	2 166	26 655	126 638	105 879	230 171	3 566
33231	Plate work & fabricated structural product mfg	—	15	11	1 124	32 772	798	1 750	21 147	92 564	88 958	179 936	2 694
332312	Fabricated structural metal mfg	—	11	7	1 012	29 050	713	1 568	18 540	85 977	75 836	159 898	2 122
333	Machinery mfg	2	36	15	826	28 669	549	1 102	16 441	57 418	52 823	110 980	3 715
334	Computer & electronic product mfg	1	13	6	1 025	34 299	932	2 349	25 548	60 087	47 589	107 539	20 697
3344	Semiconductor & other electronic component mfg	1	11	6	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	1	11	6	g	D	D	D	D	D	D	D	D
334412	Bare printed circuit board mfg	—	4	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	20	10	954	30 514	748	1 780	22 234	66 711	70 329	136 941	5 497
337	Furniture & related product mfg	1	37	11	1 179	39 181	870	1 869	23 732	73 659	71 932	145 563	3 770
3371	Household & institutional furniture & kitchen cabinet mfg	2	27	4	579	18 201	373	842	9 802	28 391	28 788	56 511	1 696
3372	Office furniture (including fixtures) mfg	—	7	6	545	19 848	453	955	13 170	42 233	38 617	81 525	1 987
33721	Office furniture (including fixtures) mfg	—	7	6	545	19 848	453	955	13 170	42 233	38 617	81 525	1 987
339	Miscellaneous mfg	1	46	8	875	24 917	545	906	12 096	70 671	27 701	97 978	3 464

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SAN LUIS OBISPO COUNTY, CA													
31-33	Manufacturing	4	323	69	6 322	182 321	4 157	7 650	94 401	619 697	533 953	1 156 257	52 082
323	Printing & related support activities.....	—	32	7	605	17 755	411	744	10 394	47 471	32 226	78 935	5 175
3231	Printing & related support activities.....	—	32	7	605	17 755	411	744	10 394	47 471	32 226	78 935	5 175
32311	Printing	—	30	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	51	7	817	22 034	646	1 323	14 865	64 685	45 612	109 392	3 491
333	Machinery mfg	7	17	6	680	29 399	327	524	10 077	71 305	74 468	143 535	5 333
334	Computer & electronic product mfg.....	2	26	11	1 346	40 214	728	1 492	18 225	95 051	49 136	141 105	9 987
3344	Semiconductor & other electronic component mfg	—	9	5	822	22 349	527	1 086	12 116	53 473	21 297	73 260	5 285
33441	Semiconductor & other electronic component mfg	—	9	5	822	22 349	527	1 086	12 116	53 473	21 297	73 260	5 285
339	Miscellaneous mfg.....	2	38	4	612	14 058	480	773	8 840	41 351	15 829	57 380	2 331
SAN MATEO COUNTY, CA													
31-33	Manufacturing	2	1 019	280	34 438	1 649 565	19 609	38 695	626 082	4 364 749	2 365 350	6 690 069	401 044
311	Food mfg.....	4	104	34	3 447	113 619	2 309	4 429	57 486	356 659	287 407	643 952	17 947
3113	Sugar & confectionery product mfg.....	—	11	4	f	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate...	—	5	1	f	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate.....	—	5	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg.....	8	49	16	1 635	51 756	922	1 620	17 843	110 493	64 575	174 917	6 370
31181	Bread & bakery product mfg	9	46	14	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	9	14	10	1 079	41 235	518	976	11 361	82 885	45 023	127 903	5 204
322	Paper mfg	2	16	8	841	31 941	673	1 349	21 728	62 227	93 771	155 768	6 791
3222	Converted paper product mfg	2	16	8	841	31 941	673	1 349	21 728	62 227	93 771	155 768	6 791
323	Printing & related support activities.....	2	154	40	3 011	121 764	2 025	4 014	68 112	243 207	116 150	360 636	21 842
3231	Printing & related support activities.....	2	154	40	3 011	121 764	2 025	4 014	68 112	243 207	116 150	360 636	21 842
32311	Printing	2	133	32	2 520	105 445	1 693	3 372	58 368	205 555	109 941	316 236	19 888
323110	Commercial lithographic printing ..	2	77	22	1 731	74 608	1 139	2 286	42 859	144 851	76 867	222 335	17 268
325	Chemical mfg	—	50	17	4 337	275 070	1 680	3 572	45 530	983 309	204 011	1 166 022	172 412
3254	Pharmaceutical & medicine mfg	—	21	10	h	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	—	21	10	h	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	—	8	4	h	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	38	14	3 734	234 788	1 799	2 816	59 985	541 761	286 251	814 517	D
3261	Plastics product mfg	—	33	14	h	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	—	27	13	3 617	231 504	1 702	2 638	57 687	535 500	281 911	803 953	D
326199	All other plastics product mfg.....	—	26	13	h	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	4	2	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing.....	—	2	2	f	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SAN MATEO COUNTY, CA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg	1	195	47	3 528	138 678	2 729	5 494	91 723	283 782	123 566	405 896	19 283
3321	Forging & stamping	—	10	4	514	21 169	378	815	14 745	64 153	24 046	88 169	D
33211	Forging & stamping	—	10	4	514	21 169	378	815	14 745	64 153	24 046	88 169	D
3323	Architectural & structural metals mfg	2	38	9	506	17 652	361	725	10 945	35 057	22 590	57 545	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	101	17	g	D	D	D	D	D	D	D	D
33271	Machine shops	2	90	14	1 081	46 505	858	1 717	31 250	81 049	29 609	109 979	6 280
332710	Machine shops	2	90	14	1 081	46 505	858	1 717	31 250	81 049	29 609	109 979	6 280
3328	Coating, engraving, heat treating, & allied activities	4	23	9	598	18 666	486	1 025	13 779	40 346	13 291	53 800	D
33281	Coating, engraving, heat treating, & allied activities	4	23	9	598	18 666	486	1 025	13 779	40 346	13 291	53 800	D
333	Machinery mfg	3	60	8	847	36 402	443	864	13 148	75 685	67 810	142 692	4 474
334	Computer & electronic product mfg	2	103	44	8 231	468 359	3 560	7 299	154 106	1 130 198	752 521	1 884 139	74 288
3342	Communications equipment mfg	5	20	8	h	D	D	D	D	D	D	D	D
33421	Telephone apparatus mfg	9	8	3	g	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg	9	8	3	g	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	11	5	g	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	11	5	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	1	32	13	1 479	61 976	1 026	2 467	40 402	108 653	73 300	182 102	9 599
33441	Semiconductor & other electronic component mfg	1	32	13	1 479	61 976	1 026	2 467	40 402	108 653	73 300	182 102	9 599
334411	Electron tube mfg	—	3	2	882	34 855	647	1 445	27 249	65 916	30 475	95 314	4 822
3345	Navigational, measuring, medical, & control instruments mfg	—	33	16	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	—	33	16	h	D	D	D	D	D	D	D	D
334510	Electromedical & electrotherapeutic apparatus mfg	—	6	5	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	—	6	4	783	42 870	394	734	20 638	79 165	43 045	120 513	1 812
334516	Analytical laboratory instrument mfg	—	9	3	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	4	11	7	567	20 827	408	825	12 064	45 187	31 795	76 035	D
337	Furniture & related product mfg	3	59	8	785	25 327	611	1 199	15 381	57 348	36 146	93 568	3 021
339	Miscellaneous mfg	2	109	22	2 392	95 651	1 308	2 618	34 028	277 464	106 542	379 712	14 346
3391	Medical equipment & supplies mfg	2	63	10	1 635	75 978	844	1 643	23 941	228 826	76 782	303 828	12 919
33911	Medical equipment & supplies mfg	2	63	10	1 635	75 978	844	1 643	23 941	228 826	76 782	303 828	12 919
339112	Surgical & medical instrument mfg	4	16	4	639	34 330	270	542	8 581	77 173	31 591	108 094	3 834
3399	Other miscellaneous mfg ..	2	46	12	757	19 673	464	975	10 087	48 638	29 760	75 884	1 427

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SANTA BARBARA COUNTY, CA													
31-33	Manufacturing	1	502	135	14 985	584 227	8 254	14 895	205 117	1 463 893	1 149 280	2 770 418	88 096
311	Food mfg.....	1	35	7	839	14 545	717	1 037	8 853	89 347	67 939	156 893	4 440
3114	Fruit & vegetable preserving & specialty food mfg.....	-	4	2	f	D	D	D	D	D	D	D	D
31141	Frozen food mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	3	59	8	513	12 184	385	606	7 899	26 624	18 337	44 979	1 422
3231	Printing & related support activities.....	3	59	8	513	12 184	385	606	7 899	26 624	18 337	44 979	1 422
325	Chemical mfg.....	-	11	6	862	26 311	431	531	6 816	114 426	42 274	155 306	5 233
326	Plastics & rubber products mfg.....	-	16	6	928	26 324	659	1 424	13 587	67 600	53 170	119 182	2 894
3261	Plastics product mfg.....	-	11	4	763	20 403	550	1 279	11 942	55 186	44 056	98 086	D
332	Fabricated metal product mfg.....	2	65	15	815	23 803	660	1 166	15 074	48 572	22 770	71 233	3 716
333	Machinery mfg.....	3	37	12	916	37 303	544	1 082	16 981	74 046	64 552	141 620	5 194
334	Computer & electronic product mfg.....	-	60	28	5 457	285 105	2 056	3 666	64 313	592 277	578 619	1 337 501	42 259
3342	Communications equipment mfg.....	-	14	7	1 691	87 934	717	1 042	17 406	339 404	415 864	754 307	D
33422	Radio & TV broadcasting & wireless communications equipment mfg.....	-	7	5	g	D	D	D	D	D	D	D	17 146
334220	Radio & TV broadcasting & wireless communications equipment mfg.....	-	7	5	g	D	D	D	D	D	D	D	17 146
3344	Semiconductor & other electronic component mfg.....	1	19	7	942	35 292	484	993	16 515	81 015	37 376	118 769	3 613
33441	Semiconductor & other electronic component mfg.....	1	19	7	942	35 292	484	993	16 515	81 015	37 376	118 769	3 613
3345	Navigational, measuring, medical, & control instruments mfg.....	-	19	12	2 641	153 170	735	1 390	26 031	131 515	112 246	412 215	12 024
33451	Navigational, measuring, medical, & control instruments mfg.....	-	19	12	2 641	153 170	735	1 390	26 031	131 515	112 246	412 215	12 024
334511	Search, detection, navigation, & guidance instrument mfg.....	-	5	4	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	-	17	5	575	27 324	305	649	9 525	83 734	83 542	165 474	5 384
339	Miscellaneous mfg.....	-	74	15	1 856	66 808	996	2 018	27 084	159 267	66 696	222 208	7 266
3391	Medical equipment & supplies mfg.....	-	30	9	1 328	53 600	718	1 498	21 700	135 029	48 181	179 438	6 240
33911	Medical equipment & supplies mfg.....	-	30	9	1 328	53 600	718	1 498	21 700	135 029	48 181	179 438	6 240
339112	Surgical & medical instrument mfg.....	-	5	3	506	19 290	233	365	6 250	55 812	27 083	79 910	2 893
339113	Surgical appliance & supplies mfg.....	-	8	3	670	27 795	386	963	12 770	66 842	15 028	81 148	D
3399	Other miscellaneous mfg ..	3	44	6	528	13 208	278	520	5 384	24 238	18 515	42 770	1 026
SANTA CLARA COUNTY, CA													
31-33	Manufacturing	-	3 464	1 199	249 947	13 093 977	116 800	240 863	4 149 520	44 011 275	28 486 651	72 528 275	4 246 704

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SANTA CLARA COUNTY, CA—Con.												
	Manufacturing—Con.												
311	Food mfg.....	2	142	39	5 082	136 832	3 952	7 238	93 228	496 315	815 822	1 335 826	21 174
3114	Fruit & vegetable preserving & specialty food mfg.....	—	17	13	2 886	80 979	2 365	4 457	57 370	287 986	408 871	721 127	8 783
31142	Fruit & vegetable canning, pickling, & drying.....	—	13	10	2 621	73 663	2 165	3 984	52 049	240 877	387 123	652 280	7 766
311421	Fruit & vegetable canning.....	—	9	7	1 231	31 152	1 101	1 898	25 272	164 358	170 982	335 224	3 485
311423	Dried & dehydrated food mfg.....	1	4	3	1 390	42 511	1 064	2 086	26 777	76 519	216 141	317 056	4 281
3115	Dairy product mfg.....	5	8	4	650	18 353	532	1 031	14 508	83 585	246 938	329 815	6 598
31151	Dairy product (except frozen) mfg.....	6	5	3	591	16 762	493	973	13 461	77 471	233 482	310 305	D
311513	Cheese mfg.....	7	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg.....	3	76	10	665	12 833	402	667	6 615	33 003	15 453	48 524	1 313
31181	Bread & bakery product mfg.....	2	71	10	641	12 401	381	639	6 294	31 713	14 355	46 121	1 175
321	Wood product mfg.....	6	26	9	677	18 794	520	983	11 408	39 230	30 310	69 208	2 308
3219	Other wood product mfg....	6	23	8	651	18 164	499	950	10 920	37 035	28 113	64 759	D
322	Paper mfg.....	1	28	19	1 625	63 241	1 236	2 496	42 476	168 106	241 587	406 700	11 897
3222	Converted paper product mfg.....	1	26	17	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg.....	1	15	14	1 138	45 340	857	1 732	30 522	104 579	179 402	281 061	9 278
322211	Corrugated & solid fiber box mfg.....	1	10	10	865	35 666	635	1 266	23 517	78 857	142 272	219 866	9 108
323	Printing & related support activities.....	3	344	58	5 488	188 576	3 997	7 459	117 067	394 647	214 710	610 556	40 832
3231	Printing & related support activities.....	3	344	58	5 488	188 576	3 997	7 459	117 067	394 647	214 710	610 556	40 832
32311	Printing.....	3	302	50	4 889	170 458	3 586	6 698	106 636	362 350	207 387	570 914	39 044
323110	Commercial lithographic printing..	3	135	24	1 754	58 823	1 301	2 462	36 002	117 940	67 989	185 349	15 958
323111	Commercial gravure printing.....	5	4	2	f	D	D	D	D	D	D	D	D
323114	Quick printing.....	2	81	7	580	19 067	395	667	10 912	37 917	21 214	59 157	2 356
32312	Support activities for printing.....	3	42	8	599	18 118	411	761	10 431	32 297	7 323	39 642	1 788
325	Chemical mfg.....	—	58	23	2 164	136 193	906	1 775	46 689	557 023	173 040	732 250	41 449
3254	Pharmaceutical & medicine mfg.....	—	20	11	1 543	114 453	508	1 025	35 790	351 035	107 137	459 262	29 858
32541	Pharmaceutical & medicine mfg.....	—	20	11	1 543	114 453	508	1 025	35 790	351 035	107 137	459 262	29 858
325413	In-vitro diagnostic substance mfg.....	—	6	3	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	6	82	34	3 380	117 930	2 491	4 989	72 884	281 246	236 912	515 165	34 816
3261	Plastics product mfg.....	6	67	30	3 028	108 292	2 193	4 441	65 991	263 106	214 578	474 643	33 469
32619	Other plastics product mfg.....	6	50	24	2 666	97 161	1 908	3 877	58 000	239 156	171 564	408 104	28 574
326199	All other plastics product mfg.....	6	48	23	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	—	73	31	2 422	90 425	1 839	3 905	65 697	306 916	201 706	511 615	25 579
3273	Cement & concrete product mfg.....	—	28	17	1 039	42 243	821	1 809	30 186	167 181	129 083	295 778	14 328
3279	Other nonmetallic mineral product mfg.....	1	10	5	834	29 388	601	1 354	23 129	104 193	51 560	157 985	8 895
32799	All other nonmetallic mineral product mfg....	—	8	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	1	764	220	16 647	593 639	13 176	27 186	397 402	1 192 471	656 083	1 846 767	82 791
3321	Forging & stamping.....	3	21	11	696	24 779	551	1 190	15 806	44 077	43 104	88 101	3 878
33211	Forging & stamping.....	3	21	11	696	24 779	551	1 190	15 806	44 077	43 104	88 101	3 878
332116	Metal stamping.....	3	18	11	670	23 868	528	1 149	15 153	42 299	41 384	84 593	D
3323	Architectural & structural metals mfg.....	1	120	56	5 159	181 048	3 977	8 457	116 801	340 077	278 142	617 868	20 716
33232	Ornamental & architectural metal products mfg.....	1	101	51	4 839	169 429	3 728	7 955	108 916	312 953	261 872	574 493	19 892
332322	Sheet metal work mfg....	1	84	48	4 648	163 568	3 574	7 675	105 541	300 975	253 329	554 285	19 623

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SANTA CLARA COUNTY, CA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	474	96	7 006	266 624	5 678	11 498	185 542	538 520	210 207	744 429	38 923
33271	Machine shops	1	441	81	6 186	233 575	5 018	10 200	160 656	471 958	182 394	652 675	33 969
332710	Machine shops	1	441	81	6 186	233 575	5 018	10 200	160 656	471 958	182 394	652 675	33 969
33272	Turned product & screw, nut, & bolt mfg	1	33	15	820	33 049	660	1 298	24 886	66 562	27 813	91 754	4 954
332721	Precision turned product mfg	1	31	14	f	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, & allied activities.	1	86	40	2 769	84 515	2 182	4 577	56 999	170 962	69 029	242 197	10 465
33281	Coating, engraving, heat treating, & allied activities	1	86	40	2 769	84 515	2 182	4 577	56 999	170 962	69 029	242 197	10 465
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	5	28	8	574	17 438	456	867	11 817	35 447	12 964	48 363	D
332813	Electroplating, plating, polishing, anodizing, & coloring	—	54	30	2 126	64 129	1 675	3 596	43 513	128 914	54 472	185 642	8 102
333	Machinery mfg	1	245	82	13 844	658 338	7 577	15 733	247 946	1 702 686	2 191 327	3 872 043	341 473
3332	Industrial machinery mfg ..	1	97	46	9 928	466 872	5 663	12 032	178 588	1 346 807	1 908 640	3 221 933	321 415
33329	Other industrial machinery mfg	1	95	44	i	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg	1	58	29	8 107	401 700	4 411	9 081	142 610	1 210 942	1 782 198	2 959 883	311 088
333298	All other industrial machinery mfg	6	26	14	1 571	56 046	1 103	2 661	31 325	124 633	106 542	230 541	8 797
3333	Commercial & service industry machinery mfg ..	3	52	17	1 282	60 373	704	1 455	24 085	104 950	106 818	216 090	8 310
33331	Commercial & service industry machinery mfg	3	52	17	1 282	60 373	704	1 455	24 085	104 950	106 818	216 090	8 310
3335	Metalworking machinery mfg	2	55	11	714	26 451	544	1 099	18 391	49 297	15 482	63 882	D
33351	Metalworking machinery mfg	2	55	11	714	26 451	544	1 099	18 391	49 297	15 482	63 882	D
3336	Engine, turbine, & power transmission equipment mfg	1	2	2	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	1	2	2	g	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg	—	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	1	33	5	793	35 261	363	648	11 966	63 770	63 351	131 264	D
33399	All other general-purpose machinery mfg	1	26	3	604	27 954	275	519	8 926	41 604	45 234	93 039	4 042
334	Computer & electronic product mfg	—	1 068	531	166 578	9 490 567	69 308	145 766	2 691 273	33 955 967	21 263 192	55 077 331	3 215 033
3341	Computer & peripheral equipment mfg	—	165	48	32 876	2 041 315	11 001	26 701	531 340	8 537 067	7 831 692	16 421 348	731 586
33411	Computer & peripheral equipment mfg	—	165	48	32 876	2 041 315	11 001	26 701	531 340	8 537 067	7 831 692	16 421 348	731 586
334111	Electronic computer mfg	—	50	16	15 873	1 127 754	2 650	7 670	154 242	5 874 916	3 510 709	9 417 090	231 436
334112	Computer storage device mfg	—	31	11	9 923	433 380	5 244	11 775	174 036	1 602 958	2 737 907	4 350 215	398 641
334113	Computer terminal mfg	—	9	4	542	38 009	222	483	7 121	103 386	169 957	270 677	3 622
334119	Other computer peripheral equipment mfg	—	75	17	6 538	442 172	2 885	6 773	195 941	955 807	1 413 119	2 383 366	97 887
3342	Communications equipment mfg	1	137	90	36 058	1 971 548	11 286	21 219	470 422	9 833 314	4 723 594	14 466 612	338 293
33421	Telephone apparatus mfg	1	49	37	23 234	1 325 520	4 796	9 679	230 356	7 473 630	3 786 006	11 157 542	226 227
334210	Telephone apparatus mfg	1	49	37	23 234	1 325 520	4 796	9 679	230 356	7 473 630	3 786 006	11 157 542	226 227
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	82	51	12 735	642 297	6 444	11 467	238 875	2 348 840	929 918	3 290 476	111 739
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	82	51	12 735	642 297	6 444	11 467	238 875	2 348 840	929 918	3 290 476	111 739

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31-33	SANTA CLARA COUNTY, CA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3343	Audio & video equipment mfg	2	11	7	631	23 747	343	740	8 739	41 471	41 943	83 236	1 920
33431	Audio & video equipment mfg	2	11	7	631	23 747	343	740	8 739	41 471	41 943	83 236	1 920
334310	Audio & video equipment mfg	2	11	7	631	23 747	343	740	8 739	41 471	41 943	83 236	1 920
3344	Semiconductor & other electronic component mfg	—	510	256	64 795	3 626 229	33 650	71 050	1 164 070	11 080 652	6 353 092	17 430 347	1 754 256
33441	Semiconductor & other electronic component mfg	—	510	256	64 795	3 626 229	33 650	71 050	1 164 070	11 080 652	6 353 092	17 430 347	1 754 256
334411	Electron tube mfg	—	9	5	842	42 204	589	1 007	22 099	90 687	55 895	145 587	3 837
334412	Bare printed circuit board mfg	—	99	48	7 466	322 272	4 691	9 417	132 399	1 040 373	662 557	1 729 701	110 412
334413	Semiconductor & related device mfg ...	—	215	110	35 975	2 507 377	15 476	31 485	657 198	7 750 606	3 860 210	11 547 131	1 518 640
334418	Printed circuit assembly (electronic assembly) mfg	—	65	52	14 447	486 961	9 335	21 529	244 773	1 737 448	1 592 509	3 363 086	87 751
334419	Other electronic component mfg	1	93	29	5 179	234 620	2 956	6 338	91 299	393 123	147 914	543 199	30 832
3345	Navigational, measuring, medical, & control instruments mfg	—	202	112	28 054	1 644 857	10 093	20 895	451 553	4 074 921	2 023 164	5 998 425	238 164
33451	Navigational, measuring, medical, & control instruments mfg	—	202	112	28 054	1 644 857	10 093	20 895	451 553	4 074 921	2 023 164	5 998 425	238 164
334510	Electromedical & electrotherapeutic apparatus mfg	—	17	9	3 061	189 336	1 389	2 390	63 716	603 767	260 867	837 835	21 609
334511	Search, detection, navigation, & guidance instrument mfg	—	15	7	3 416	216 406	1 679	3 394	85 803	438 223	123 173	562 632	44 968
334513	Industrial process control instrument mfg	1	25	16	2 704	103 771	856	1 731	31 913	191 139	108 495	305 943	12 940
334515	Electricity measuring & testing instrument mfg	—	76	42	11 399	711 813	3 840	8 719	172 633	1 664 218	726 417	2 336 304	107 271
334516	Analytical laboratory instrument mfg	—	31	16	3 184	190 871	1 032	2 058	43 275	615 294	308 027	916 313	18 825
334517	Irradiation apparatus mfg	—	9	6	2 777	150 676	837	1 643	38 359	338 662	392 495	718 626	24 764
334519	Other measuring & controlling device mfg	—	23	13	1 373	76 464	393	858	14 642	213 908	95 110	302 248	7 098
3346	Mfg & reproducing magnetic & optical media .	2	43	18	4 164	182 871	2 935	5 161	65 149	388 542	289 707	677 363	150 814
33461	Mfg & reproducing magnetic & optical media	2	43	18	4 164	182 871	2 935	5 161	65 149	388 542	289 707	677 363	150 814
334613	Magnetic & optical recording media mfg .	3	29	12	3 839	173 178	2 718	4 755	58 852	358 465	273 085	630 685	145 290
335	Electrical equipment, appliance, & component mfg	—	85	37	4 343	204 409	2 454	4 751	84 507	434 857	308 114	722 882	26 465
3353	Electrical equipment mfg ..	1	31	9	922	42 032	555	948	20 644	94 855	58 123	138 192	4 336
33531	Electrical equipment mfg	1	31	9	922	42 032	555	948	20 644	94 855	58 123	138 192	4 336
3359	Other electrical equipment & component mfg	—	50	27	3 302	158 735	1 854	3 708	62 736	332 843	246 974	574 539	22 060
33592	Communication & energy wire & cable mfg	—	7	7	781	30 164	515	926	10 103	60 264	58 687	121 731	4 341
335929	Other communication & energy wire mfg ...	—	7	7	781	30 164	515	926	10 103	60 264	58 687	121 731	4 341
33599	All other electrical equipment & component mfg	—	34	18	2 396	123 448	1 243	2 582	49 900	262 112	182 641	436 637	16 926
335999	All other miscellaneous electrical equipment & component mfg	—	33	18	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	62	20	16 824	931 621	3 586	7 495	116 101	3 066 350	1 528 722	4 782 764	D
3363	Motor vehicle parts mfg ...	8	38	11	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	8	27	11	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	8	26	11	g	D	D	D	D	D	D	D	D

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	SANTA CLARA COUNTY, CA—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3364	Aerospace product & parts mfg	—	7	3	j	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	7	3	j	D	D	D	D	D	D	D	D
336414	Guided missile & space vehicle mfg ...	—	1	1	j	D	D	D	D	D	D	D	D
336415	Guided missile & space vehicle propulsion unit & parts mfg	—	1	1	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	—	11	5	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	—	11	5	g	D	D	D	D	D	D	D	D
336991	Motorcycle, bicycle, & parts mfg	1	7	3	f	D	D	D	D	D	D	D	D
336992	Military armored vehicle, tank, & tank component mfg	—	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	3	120	21	1 742	50 813	1 241	2 336	28 973	103 958	80 832	184 971	3 991
3371	Household & institutional furniture & kitchen cabinet mfg	5	90	17	1 087	29 392	839	1 612	18 986	57 051	41 658	99 491	2 207
33712	Household & institutional furniture mfg	6	42	11	657	16 665	521	953	10 508	34 657	27 435	62 244	1 348
339	Miscellaneous mfg	1	270	54	7 668	368 170	3 576	7 000	111 271	1 218 903	444 035	1 670 041	71 321
3391	Medical equipment & supplies mfg	1	181	41	6 412	329 113	2 752	5 400	93 592	1 143 628	392 850	1 535 607	67 413
33911	Medical equipment & supplies mfg	1	181	41	6 412	329 113	2 752	5 400	93 592	1 143 628	392 850	1 535 607	67 413
339111	Laboratory apparatus & furniture mfg	—	10	6	692	23 842	314	603	11 966	62 728	44 364	117 357	1 986
339112	Surgical & medical instrument mfg	—	51	29	5 021	282 093	1 996	4 020	70 502	1 022 915	316 380	1 325 900	63 714
3399	Other miscellaneous mfg ..	5	89	13	1 256	39 057	824	1 600	17 679	75 275	51 185	134 434	3 908
33999	All other miscellaneous mfg	7	29	7	777	22 843	523	1 008	11 325	49 893	35 943	86 679	2 738
339999	All other miscellaneous mfg	7	22	5	695	19 956	471	906	10 243	44 940	31 894	77 638	2 479
	SANTA CRUZ COUNTY, CA												
31-33	Manufacturing	1	387	89	10 011	315 177	6 213	11 946	152 898	1 139 974	956 809	2 134 950	82 832
311	Food mfg	—	51	18	2 272	59 473	1 792	3 318	42 583	195 543	180 219	393 398	15 771
3114	Fruit & vegetable preserving & specialty food mfg	—	10	7	g	D	D	D	D	D	D	D	6 512
31141	Frozen food mfg	—	7	5	1 296	24 652	1 174	2 191	19 699	74 917	83 544	174 027	D
311411	Frozen fruit, juice, & vegetable mfg	—	7	5	1 296	24 652	1 174	2 191	19 699	74 917	83 544	174 027	D
333	Machinery mfg	—	16	5	1 198	41 043	613	1 284	10 623	139 020	142 126	283 867	5 840
3339	Other general-purpose machinery mfg	—	6	4	1 094	38 406	534	1 176	9 048	134 869	139 660	277 209	D
33399	All other general-purpose machinery mfg	—	4	2	f	D	D	D	D	D	D	D	D
333994	Industrial process furnace & oven mfg ..	—	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	1	52	23	3 124	106 928	1 464	2 855	38 943	532 575	378 408	928 901	34 884
3342	Communications equipment mfg	7	6	3	673	22 776	166	333	3 895	92 894	61 233	153 976	D
33421	Telephone apparatus mfg	7	2	2	f	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg	7	2	2	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	19	9	1 697	52 745	907	1 581	19 836	363 766	248 830	627 376	26 080
33441	Semiconductor & other electronic component mfg	—	19	9	1 697	52 745	907	1 581	19 836	363 766	248 830	627 376	26 080
334413	Semiconductor & related device mfg ...	—	5	3	f	D	D	D	D	D	D	D	D

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SHASTA COUNTY, CA													
31-33	Manufacturing	1	177	32	3 526	118 739	2 549	4 955	79 515	261 675	375 777	635 027	20 828
321	Wood product mfg	1	23	11	1 066	33 992	891	1 952	26 816	97 394	195 017	290 602	7 589
3211	Sawmills & wood preservation	1	9	6	697	27 440	572	1 286	21 776	82 312	158 767	238 459	6 921
32111	Sawmills & wood preservation	1	9	6	697	27 440	572	1 286	21 776	82 312	158 767	238 459	6 921
321113	Sawmills	1	9	6	697	27 440	572	1 286	21 776	82 312	158 767	238 459	6 921
322	Paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D
SISKIYOU COUNTY, CA													
31-33	Manufacturing	4	41	10	1 016	30 118	889	1 536	22 292	78 122	128 134	207 323	5 251
321	Wood product mfg	5	13	7	704	21 809	636	1 320	18 399	60 545	113 078	175 606	4 392
SOLANO COUNTY, CA													
31-33	Manufacturing	-	277	83	9 175	331 028	6 822	12 947	206 454	1 224 024	2 266 052	3 496 389	102 892
311	Food mfg	1	30	11	1 606	44 037	1 222	2 193	29 967	170 338	256 843	427 883	14 073
3114	Fruit & vegetable preserving & specialty food mfg	5	6	4	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	6	3	3	f	D	D	D	D	D	D	D	D
311422	Specialty canning.....	9	1	1	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	-	3	3	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	3	3	f	D	D	D	D	D	D	D	D
325	Chemical mfg	1	16	6	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg	-	2	1	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	-	2	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	16	11	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	1	12	10	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	21	7	533	15 726	415	794	10 440	47 823	41 079	88 485	D
332	Fabricated metal product mfg	-	44	13	1 330	56 225	1 036	1 977	41 324	146 248	189 286	339 658	9 476
3324	Boiler, tank, & shipping container mfg	-	5	5	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	25	9	f	D	D	D	D	D	D	D	4 737
336	Transportation equipment mfg	-	6	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	24	8	559	16 679	439	909	10 844	38 176	34 317	72 591	2 052
SONOMA COUNTY, CA													
31-33	Manufacturing	1	793	218	24 209	968 796	15 754	29 805	464 947	2 883 722	2 393 144	5 119 819	239 962
311	Food mfg	-	72	28	2 215	51 746	1 485	2 724	27 010	149 453	556 599	705 146	16 922
3114	Fruit & vegetable preserving & specialty food mfg	-	8	4	573	12 876	428	833	7 158	29 904	40 768	70 091	3 849
3118	Bakeries & tortilla mfg	1	22	9	610	10 526	461	683	6 284	24 433	13 714	38 185	1 376
31181	Bread & bakery product mfg	1	20	8	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	13	8	527	8 663	399	579	5 157	21 491	7 461	28 969	883
312	Beverage & tobacco product mfg	2	90	35	2 934	111 226	1 449	2 652	41 335	564 446	580 843	1 066 339	78 041
3121	Beverage mfg	2	90	35	2 934	111 226	1 449	2 652	41 335	564 446	580 843	1 066 339	78 041
31213	Wineries	2	84	34	2 849	109 341	1 418	2 597	40 401	556 691	575 019	1 052 772	77 625
312130	Wineries	2	84	34	2 849	109 341	1 418	2 597	40 401	556 691	575 019	1 052 772	77 625
321	Wood product mfg	-	43	14	1 057	25 494	801	1 541	16 265	62 877	76 640	139 824	2 599
3219	Other wood product mfg ...	1	32	9	523	12 152	419	749	7 508	34 585	33 840	68 750	1 589

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SONOMA COUNTY, CA —Con.													
31-33	Manufacturing—Con.												
323	Printing & related support activities.....	2	91	14	971	33 322	695	1 360	19 250	71 974	42 708	114 718	5 607
3231	Printing & related support activities.....	2	91	14	971	33 322	695	1 360	19 250	71 974	42 708	114 718	5 607
32311	Printing	2	81	14	913	31 895	653	1 289	18 296	68 895	41 848	110 810	5 464
326	Plastics & rubber products mfg	1	23	10	606	17 860	473	934	10 164	45 871	21 184	67 056	3 927
3261	Plastics product mfg	1	23	10	606	17 860	473	934	10 164	45 871	21 184	67 056	3 927
32619	Other plastics product mfg	—	18	9	556	16 682	436	876	9 476	42 735	17 995	60 740	3 636
326199	All other plastics product mfg	—	18	9	556	16 682	436	876	9 476	42 735	17 995	60 740	3 636
327	Nonmetallic mineral product mfg	5	43	9	578	16 802	455	831	11 720	38 436	42 205	81 557	3 109
332	Fabricated metal product mfg	1	77	13	1 257	38 111	1 007	1 917	25 782	76 131	59 428	135 678	7 380
333	Machinery mfg	1	48	22	2 660	118 757	1 640	3 263	50 501	285 021	147 871	425 647	23 629
3332	Industrial machinery mfg ..	4	14	8	546	24 255	269	525	8 339	64 211	28 825	92 136	3 072
3333	Commercial & service industry machinery mfg ..	—	9	6	1 364	64 544	859	1 788	26 916	154 964	68 499	219 949	14 532
33331	Commercial & service industry machinery mfg	—	9	6	1 364	64 544	859	1 788	26 916	154 964	68 499	219 949	14 532
333314	Optical instrument & lens mfg	—	4	3	1 101	52 977	729	1 518	22 404	125 669	48 692	172 979	D
3339	Other general-purpose machinery mfg	—	15	6	503	22 224	336	604	10 862	57 202	40 448	94 848	5 693
334	Computer & electronic product mfg	—	47	21	6 665	380 186	4 264	7 997	170 964	1 029 166	590 075	1 580 611	62 302
3342	Communications equipment mfg	—	11	6	1 044	103 287	266	584	8 422	178 011	153 563	308 628	20 901
33421	Telephone apparatus mfg	—	3	3	f	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg	—	3	3	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	—	17	5	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	—	17	5	h	D	D	D	D	D	D	D	D
334515	Electricity measuring & testing instrument mfg	—	1	1	h	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	1	21	8	645	23 960	396	768	8 593	61 938	44 475	107 067	2 434
336	Transportation equipment mfg	1	24	5	587	18 546	430	954	10 554	40 786	35 222	76 045	D
339	Miscellaneous mfg	—	89	18	2 519	91 158	1 613	3 087	49 820	355 397	106 425	431 141	22 361
3391	Medical equipment & supplies mfg	—	36	5	1 662	68 400	1 031	2 058	37 107	304 661	69 721	344 317	19 142
33911	Medical equipment & supplies mfg	—	36	5	1 662	68 400	1 031	2 058	37 107	304 661	69 721	344 317	19 142
339115	Ophthalmic goods mfg	—	3	2	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	1	53	13	857	22 758	582	1 029	12 713	50 736	36 704	86 824	3 219
STANISLAUS COUNTY, CA													
31-33	Manufacturing	1	435	163	25 056	823 113	18 871	38 437	524 340	3 081 137	3 829 750	6 886 621	170 399
311	Food mfg	1	74	46	11 227	346 263	9 449	19 779	257 424	1 661 747	2 009 195	3 682 675	93 364
3113	Sugar & confectionery product mfg	3	3	2	g	D	D	D	D	D	D	D	D
31132	Chocolate & confectionery mfg from cacao beans	3	2	2	g	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans ...	3	2	2	g	D	D	D	D	D	D	D	D

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	STANISLAUS COUNTY, CA—Con.												
	Manufacturing—Con.												
311	Food mfg—Con.												
3114	Fruit & vegetable preserving & specialty food mfg	-	13	11	4 882	157 948	4 312	8 808	121 798	659 896	542 032	1 214 057	25 948
31141	Frozen food mfg	-	2	1	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg	-	2	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	-	11	10	h	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	-	6	6	3 240	110 108	2 951	6 450	92 815	566 792	405 924	978 982	22 510
311423	Dried & dehydrated food mfg	-	3	3	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg	1	15	10	862	32 545	682	1 506	23 842	88 570	422 296	508 319	8 437
31151	Dairy product (except frozen) mfg	1	12	9	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	1	12	9	2 589	54 614	2 310	4 764	45 174	319 533	241 935	562 242	6 593
31161	Animal slaughtering & processing	1	12	9	2 589	54 614	2 310	4 764	45 174	319 533	241 935	562 242	6 593
311615	Poultry processing	-	4	4	2 293	45 678	2 074	4 228	39 294	299 308	177 489	477 501	5 646
3119	Other food mfg	-	9	5	1 065	32 452	776	1 696	20 515	198 412	185 027	391 815	18 857
31191	Snack food mfg	-	4	4	1 008	31 181	734	1 629	19 724	193 592	178 600	380 568	D
311919	Other snack food mfg	-	2	2	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	-	5	5	h	D	D	D	D	D	D	D	3 023
3121	Beverage mfg	-	5	5	h	D	D	D	D	D	D	D	3 023
31213	Wineries	-	2	2	h	D	D	D	D	D	D	D	D
312130	Wineries	-	2	2	h	D	D	D	D	D	D	D	D
321	Wood product mfg	3	29	16	1 299	30 283	1 081	2 005	21 423	87 938	133 386	220 478	4 517
3219	Other wood product mfg	3	21	12	1 062	24 809	896	1 647	17 751	74 084	108 806	181 999	3 549
32199	All other wood product mfg	4	7	4	699	17 627	583	1 068	12 753	46 791	74 860	121 329	2 738
322	Paper mfg	-	8	8	1 324	57 691	1 085	2 396	44 788	257 886	306 812	574 333	17 847
3222	Converted paper product mfg	-	8	8	1 324	57 691	1 085	2 396	44 788	257 886	306 812	574 333	17 847
32221	Paperboard container mfg	-	5	5	f	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	-	4	4	735	34 546	568	1 383	25 837	56 370	152 766	212 318	D
326	Plastics & rubber products mfg	2	20	7	502	13 551	379	815	8 818	55 298	41 543	97 184	5 297
327	Nonmetallic mineral product mfg	-	17	5	1 103	38 078	926	1 967	31 447	75 471	88 509	161 987	5 478
3272	Glass & glass product mfg	-	3	2	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	3	2	f	D	D	D	D	D	D	D	D
327213	Glass container mfg	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	86	29	2 485	84 604	1 909	3 628	59 136	181 405	319 600	499 393	15 025
3323	Architectural & structural metals mfg	-	26	15	958	29 082	675	1 277	17 079	61 018	72 290	133 138	2 437
33232	Ornamental & architectural metal products mfg	-	18	11	590	17 750	416	858	10 514	32 250	34 928	66 750	1 914
3324	Boiler, tank, & shipping container mfg	-	8	6	854	33 718	705	1 385	28 727	70 188	215 571	284 412	D
33243	Metal can, box, & other metal container (light gauge) mfg	-	7	6	f	D	D	D	D	D	D	D	D
332431	Metal can mfg	-	6	6	f	D	D	D	D	D	D	D	9 204
333	Machinery mfg	2	46	13	1 022	30 716	672	1 108	17 713	65 483	80 000	144 404	5 684
336	Transportation equipment mfg	1	10	8	840	24 491	549	1 260	13 745	57 480	45 145	101 709	4 912
3363	Motor vehicle parts mfg	1	4	3	512	16 185	282	819	8 174	41 028	23 492	64 042	D
337	Furniture & related product mfg	2	26	6	533	11 498	426	841	7 796	22 336	18 653	40 710	1 960

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SUTTER COUNTY, CA													
31-33	Manufacturing	1	70	16	1 589	49 314	1 245	2 620	33 018	161 127	201 007	354 003	10 782
311	Food mfg.....	1	13	6	701	26 588	565	1 435	17 583	120 147	137 044	247 826	D
3114	Fruit & vegetable preserving & specialty food mfg.....	1	8	6	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying.....	1	8	6	f	D	D	D	D	D	D	D	D
311423	Dried & dehydrated food mfg.....	1	6	5	f	D	D	D	D	D	D	D	D
TEHAMA COUNTY, CA													
31-33	Manufacturing	3	48	15	2 228	62 900	1 965	4 147	53 524	180 683	281 413	455 221	8 975
321	Wood product mfg.....	-	10	7	g	D	D	D	D	D	D	D	D
3219	Other wood product mfg....	-	8	6	g	D	D	D	D	D	D	D	D
32191	Millwork.....	-	5	5	f	D	D	D	D	D	D	D	D
321918	Other millwork (including flooring)....	-	3	3	f	D	D	D	D	D	D	D	D
TULARE COUNTY, CA													
31-33	Manufacturing	1	282	101	11 439	314 453	8 825	18 107	214 641	1 109 550	2 094 858	3 167 304	94 983
311	Food mfg.....	-	47	26	3 979	113 698	3 157	6 914	83 453	506 388	1 501 136	1 980 227	53 109
3114	Fruit & vegetable preserving & specialty food mfg.....	3	10	7	1 695	30 574	1 277	2 633	21 076	160 388	126 695	273 802	7 304
31141	Frozen food mfg.....	8	5	4	1 026	19 652	830	1 837	12 679	74 687	51 254	125 879	5 209
311412	Frozen specialty food mfg.....	9	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying.....	-	5	3	669	10 922	447	796	8 397	85 701	75 441	147 923	2 095
311421	Fruit & vegetable canning.....	-	3	2	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg.....	-	7	7	1 309	50 142	1 117	2 685	40 965	183 733	1 006 294	1 178 085	38 501
31151	Dairy product (except frozen) mfg.....	-	6	6	g	D	D	D	D	D	D	D	D
3119	Other food mfg.....	-	6	6	531	15 553	474	992	12 717	59 266	67 445	122 326	4 569
321	Wood product mfg.....	-	14	8	792	20 606	613	1 169	12 164	49 803	92 660	143 091	546
323	Printing & related support activities.....	3	26	9	1 536	42 935	1 187	2 346	31 712	175 878	80 375	259 466	7 067
3231	Printing & related support activities.....	3	26	9	1 536	42 935	1 187	2 346	31 712	175 878	80 375	259 466	7 067
32311	Printing.....	3	26	9	1 536	42 935	1 187	2 346	31 712	175 878	80 375	259 466	7 067
323117	Book printing.....	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	-	19	11	1 036	25 107	896	1 764	20 086	76 013	101 742	180 670	16 496
3261	Plastics product mfg.....	-	17	11	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg.....	-	8	5	603	14 149	542	1 001	11 234	43 664	34 867	77 939	8 358
326199	All other plastics product mfg.....	-	8	5	603	14 149	542	1 001	11 234	43 664	34 867	77 939	8 358
332	Fabricated metal product mfg.....	1	45	13	1 295	37 687	866	1 810	21 176	80 794	85 013	163 379	3 167
3323	Architectural & structural metals mfg.....	-	11	6	627	18 870	409	871	9 532	36 040	53 595	89 130	480
333	Machinery mfg.....	2	37	10	535	16 951	330	661	8 575	47 132	30 379	62 608	1 989
TUOLUMNE COUNTY, CA													
31-33	Manufacturing	2	65	11	880	22 472	665	1 317	15 257	75 629	81 752	155 158	7 196

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	VENTURA COUNTY, CA												
31-33	Manufacturing	1	1 008	321	33 562	1 136 298	22 137	45 077	555 545	3 352 437	2 860 860	6 163 377	232 091
311	Food mfg.....	5	61	20	1 357	29 206	1 151	1 857	22 092	104 347	112 164	216 465	11 519
3114	Fruit & vegetable preserving & specialty food mfg.....	6	10	7	573	15 920	477	890	11 826	63 049	77 962	139 969	4 521
315	Apparel mfg.....	-	20	5	684	12 517	598	1 277	8 179	33 873	39 972	73 012	D
3152	Cut & sew apparel mfg....	-	17	5	681	12 472	595	1 273	8 144	33 768	39 903	72 839	D
322	Paper mfg.....	-	10	6	1 082	44 121	873	1 817	33 942	247 278	350 696	590 336	19 812
3222	Converted paper product mfg.....	-	8	4	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	-	89	16	1 057	32 470	753	1 421	19 501	87 690	47 390	134 568	8 731
3231	Printing & related support activities.....	-	89	16	1 057	32 470	753	1 421	19 501	87 690	47 390	134 568	8 731
32311	Printing.....	-	83	16	1 031	31 562	745	1 410	19 332	85 915	46 979	132 380	8 712
325	Chemical mfg.....	2	33	14	1 607	67 392	560	1 099	19 744	165 473	87 211	247 132	18 536
3254	Pharmaceutical & medicine mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg..	1	12	4	636	22 517	179	280	3 999	72 085	34 063	105 208	5 411
32562	Toilet preparation mfg...	1	9	4	630	22 385	174	274	3 924	71 560	33 615	104 226	5 384
325620	Toilet preparation mfg.	1	9	4	630	22 385	174	274	3 924	71 560	33 615	104 226	5 384
326	Plastics & rubber products mfg.....	1	55	30	2 529	74 519	1 961	4 078	40 467	180 618	103 897	282 457	7 720
3261	Plastics product mfg.....	1	52	29	g	D	D	D	D	D	D	D	7 631
32619	Other plastics product mfg.....	1	41	24	2 103	63 532	1 642	3 324	34 445	152 729	86 389	237 299	6 718
326199	All other plastics product mfg.....	-	39	23	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	-	28	15	1 124	31 866	831	1 768	20 467	74 852	78 907	155 439	5 343
3279	Other nonmetallic mineral product mfg.....	-	9	7	f	D	D	D	D	D	D	D	1 844
332	Fabricated metal product mfg.....	1	189	48	3 479	122 981	2 379	4 965	64 080	296 307	161 471	458 872	17 530
3322	Cutlery & handtool mfg....	-	13	6	607	23 740	268	575	7 274	55 369	28 587	86 857	4 648
33221	Cutlery & handtool mfg..	-	13	6	607	23 740	268	575	7 274	55 369	28 587	86 857	4 648
3323	Architectural & structural metals mfg.....	-	28	15	704	21 859	505	1 125	12 446	44 676	39 748	84 770	4 395
33232	Ornamental & architectural metal products mfg.....	-	20	11	585	18 177	430	983	10 644	38 169	30 276	68 696	4 113
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	2	100	10	952	34 123	731	1 441	19 951	66 789	23 971	90 571	4 943
33271	Machine shops.....	3	94	9	772	24 365	608	1 139	16 716	43 223	19 087	62 564	4 740
332710	Machine shops.....	3	94	9	772	24 365	608	1 139	16 716	43 223	19 087	62 564	4 740
3329	Other fabricated metal product mfg.....	-	17	6	564	20 141	409	874	11 652	59 375	16 977	75 901	1 214
333	Machinery mfg.....	1	95	31	3 704	138 777	2 279	4 575	64 752	381 706	337 698	722 764	19 887
3332	Industrial machinery mfg..	-	20	6	815	27 361	473	957	11 122	54 464	51 204	108 655	5 992
33329	Other industrial machinery mfg.....	-	17	6	788	26 508	456	920	10 650	52 908	49 203	104 886	5 923
3335	Metalworking machinery mfg.....	-	21	5	798	37 359	593	1 231	21 047	143 625	135 225	279 299	1 469
33351	Metalworking machinery mfg.....	-	21	5	798	37 359	593	1 231	21 047	143 625	135 225	279 299	1 469
333512	Machine tool (metal cutting types) mfg....	-	3	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg.....	-	22	10	834	29 233	486	866	12 318	73 409	49 133	122 957	3 731
33399	All other general-purpose machinery mfg.....	-	17	7	661	23 595	371	669	9 650	60 773	36 647	98 083	3 382
333999	All other miscellaneous general-purpose machinery mfg.....	-	12	6	593	20 362	323	584	8 074	55 463	32 443	87 421	3 274

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	VENTURA COUNTY, CA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg.....	-	154	68	10 583	395 195	6 479	13 887	171 572	1 239 745	1 108 679	2 314 221	101 123
3341	Computer & peripheral equipment mfg.....	4	26	9	1 482	52 940	764	1 496	18 699	100 045	139 781	233 631	11 610
33411	Computer & peripheral equipment mfg.....	4	26	9	1 482	52 940	764	1 496	18 699	100 045	139 781	233 631	11 610
334119	Other computer peripheral equipment mfg.....	3	18	7	1 037	38 933	415	643	10 168	68 935	105 327	172 246	9 584
3342	Communications equipment mfg.....	-	27	15	1 476	69 160	639	1 247	19 455	106 485	117 638	226 363	8 977
33422	Radio & TV broadcasting & wireless communications equipment mfg.....	-	17	11	1 029	41 168	513	984	14 407	60 111	56 585	118 170	5 292
334220	Radio & TV broadcasting & wireless communications equipment mfg.....	-	17	11	1 029	41 168	513	984	14 407	60 111	56 585	118 170	5 292
3344	Semiconductor & other electronic component mfg.....	1	63	27	4 280	159 924	2 485	5 329	63 892	387 247	316 294	709 441	53 386
33441	Semiconductor & other electronic component mfg.....	1	63	27	4 280	159 924	2 485	5 329	63 892	387 247	316 294	709 441	53 386
334413	Semiconductor & related device mfg...	-	16	7	1 274	66 831	640	1 598	26 240	126 923	75 871	206 170	41 800
334419	Other electronic component mfg.....	-	26	9	1 858	56 741	1 034	2 156	17 650	167 948	183 904	350 536	6 559
3345	Navigational, measuring, medical, & control instruments mfg.....	-	28	11	1 213	54 747	668	1 497	20 922	322 197	337 431	625 434	8 002
33451	Navigational, measuring, medical, & control instruments mfg.....	-	28	11	1 213	54 747	668	1 497	20 922	322 197	337 431	625 434	8 002
334519	Other measuring & controlling device mfg.....	-	8	4	530	24 656	255	607	7 938	51 898	37 654	91 061	2 054
3346	Mfg & reproducing magnetic & optical media.	-	4	4	g	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media.....	-	4	4	g	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing.....	-	3	3	g	D	D	D	D	D	D	D	D
334613	Magnetic & optical recording media mfg.	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	2	29	15	1 445	49 939	859	1 904	18 983	123 955	105 598	225 673	3 415
3351	Electric lighting equipment mfg.....	-	9	5	659	18 299	403	883	6 355	55 780	46 655	100 029	478
33512	Lighting fixture mfg.....	-	8	5	f	D	D	D	D	D	D	D	478
335129	Other lighting equipment mfg.....	-	4	3	529	16 047	291	662	4 779	50 328	44 447	92 764	D
336	Transportation equipment mfg.....	1	45	15	1 462	51 611	895	1 781	26 263	166 452	174 435	337 446	D
3363	Motor vehicle parts mfg...	4	21	8	687	21 501	420	904	11 799	56 631	38 480	93 923	D
3364	Aerospace product & parts mfg.....	-	16	5	687	28 251	398	741	13 052	106 631	132 822	237 186	D
33641	Aerospace product & parts mfg.....	-	16	5	687	28 251	398	741	13 052	106 631	132 822	237 186	D
337	Furniture & related product mfg.....	1	34	6	613	12 315	471	877	7 783	28 358	20 799	48 814	553
3371	Household & institutional furniture & kitchen cabinet mfg.....	-	28	5	564	10 724	431	798	6 800	25 755	19 090	44 500	478
339	Miscellaneous mfg.....	1	115	22	2 103	56 764	1 438	2 666	26 149	186 133	89 652	277 902	7 510
3391	Medical equipment & supplies mfg.....	1	59	12	941	31 547	553	954	11 683	108 033	41 522	151 706	3 915
33911	Medical equipment & supplies mfg.....	1	59	12	941	31 547	553	954	11 683	108 033	41 522	151 706	3 915
3399	Other miscellaneous mfg..	1	56	10	1 162	25 217	885	1 712	14 466	78 100	48 130	126 196	3 595

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
YOLO COUNTY, CA													
31-33	Manufacturing	1	175	53	6 178	211 977	4 214	8 527	116 428	632 000	906 159	1 514 918	52 007
311	Food mfg	1	21	13	1 712	57 573	1 423	2 877	42 288	141 330	437 640	601 521	23 938
3112	Grain & oilseed milling	-	5	5	599	23 382	460	979	16 645	99 240	235 883	346 958	10 774
31121	Flour milling & malt mfg .	-	5	5	599	23 382	460	979	16 645	99 240	235 883	346 958	10 774
311212	Rice milling	-	5	5	599	23 382	460	979	16 645	99 240	235 883	346 958	10 774
321	Wood product mfg	-	16	5	838	23 800	717	1 391	16 148	59 556	61 486	120 941	896
3219	Other wood product mfg ...	-	12	4	789	22 418	678	1 303	15 079	54 647	58 883	113 423	549
32199	All other wood product mfg	-	6	3	703	20 299	612	1 187	14 044	46 985	53 689	100 788	452
321991	Manufactured home (mobile home) mfg ..	-	3	3	681	19 893	592	1 149	13 739	45 548	52 821	98 472	D
325	Chemical mfg	2	12	5	661	30 212	286	603	7 322	132 466	106 159	236 582	9 313
3254	Pharmaceutical & medicine mfg	-	7	2	503	22 712	228	459	5 626	105 530	62 684	166 351	8 483
32541	Pharmaceutical & medicine mfg	-	7	2	503	22 712	228	459	5 626	105 530	62 684	166 351	8 483
332	Fabricated metal product mfg	-	23	7	523	19 687	301	646	9 189	55 440	68 006	122 774	743
336	Transportation equipment mfg	-	15	5	555	20 137	348	698	10 146	68 367	82 911	108 593	D
YUBA COUNTY, CA													
31-33	Manufacturing	-	44	15	1 203	26 818	981	2 008	19 343	77 968	167 196	248 232	7 254
321	Wood product mfg	-	11	6	503	11 588	427	839	8 357	31 137	85 910	114 438	1 880

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

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

Table 4. Industry Statistics for Places: 1997

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ADELANTO, CA													
31-33	Manufacturing	-	31	12	1 144	31 027	916	1 883	20 332	74 855	64 605	138 972	3 236
AGOURA HILLS, CA													
31-33	Manufacturing	-	27	4	1 924	116 653	635	1 211	29 941	286 505	261 666	560 358	35 867
334	Computer & electronic product mfg	-	6	2	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	4	2	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	4	2	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	-	1	1	g	D	D	D	D	D	D	D	D
334515	Electricity measuring & testing instrument mfg	-	1	1	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ALAMEDA, CA													
31-33	Manufacturing	1	56	17	2 298	127 252	1 132	2 265	40 002	578 741	452 042	1 009 124	85 091
334	Computer & electronic product mfg.....	-	6	5	g	D	D	D	D	D	D	D	D
3342	Communications equipment mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
33421	Telephone apparatus mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
ALHAMBRA, CA													
31-33	Manufacturing	1	125	36	3 248	81 829	2 658	4 991	55 703	175 929	134 070	308 451	9 510
315	Apparel mfg.....	2	49	18	1 166	14 323	1 121	1 803	12 596	23 731	17 367	40 987	758
3152	Cut & sew apparel mfg....	2	47	17	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg.....	-	9	6	599	8 134	584	1 014	7 271	12 701	13 988	26 538	262
334	Computer & electronic product mfg.....	-	10	3	678	28 101	437	1 021	16 816	71 497	17 291	88 098	D
3344	Semiconductor & other electronic component mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg....	-	1	1	f	D	D	D	D	D	D	D	D
ANAHEIM, CA													
31-33	Manufacturing	1	896	319	38 330	1 358 665	24 360	49 767	628 019	3 402 548	2 628 296	6 019 754	294 126
311	Food mfg.....	5	24	9	1 128	34 690	790	1 684	19 257	95 687	185 463	281 957	6 400
3114	Fruit & vegetable preserving & specialty food mfg.....	6	5	3	606	18 039	457	1 045	12 219	50 308	125 938	177 173	D
323	Printing & related support activities.....	1	103	24	2 236	75 079	1 546	3 109	43 662	135 258	72 574	208 147	14 216
3231	Printing & related support activities.....	1	103	24	2 236	75 079	1 546	3 109	43 662	135 258	72 574	208 147	14 216
32311	Printing.....	2	91	21	1 512	52 420	1 040	2 120	29 931	102 907	70 201	173 208	8 214
323110	Commercial lithographic printing..	1	35	11	819	31 184	535	1 092	17 262	61 985	40 131	102 168	4 014
32312	Support activities for printing.....	-	12	3	724	22 659	506	989	13 731	32 351	2 373	34 939	6 002
323122	Prepress services.....	-	8	3	702	22 178	491	965	13 413	31 429	2 241	33 883	D
326	Plastics & rubber products mfg.....	1	55	33	4 272	110 513	3 256	6 284	76 250	249 015	194 467	455 141	11 669
3261	Plastics product mfg.....	1	51	32	3 949	102 794	2 949	5 675	70 508	235 227	186 825	433 426	11 361
32616	Plastics bottle mfg.....	-	3	3	735	17 542	428	953	11 528	43 877	33 472	81 061	D
326160	Plastics bottle mfg.....	-	3	3	735	17 542	428	953	11 528	43 877	33 472	81 061	D
32619	Other plastics product mfg.....	1	33	21	2 677	74 169	2 162	4 074	51 547	154 908	124 034	286 512	6 913
326199	All other plastics product mfg.....	1	30	19	g	D	D	D	D	D	D	D	D
331	Primary metal mfg.....	-	9	5	699	24 169	591	1 366	15 743	89 606	117 672	206 180	11 024
3313	Alumina & aluminum production & processing..	-	3	3	f	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing.....	-	3	3	f	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	227	84	7 079	232 224	5 515	11 831	136 604	508 600	283 250	778 170	56 162
3321	Forging & stamping.....	-	17	11	632	17 417	452	954	10 488	35 308	19 372	54 518	1 905
33211	Forging & stamping.....	-	17	11	632	17 417	452	954	10 488	35 308	19 372	54 518	1 905
3323	Architectural & structural metals mfg.....	1	35	19	1 161	33 592	883	1 924	19 634	76 466	44 084	120 859	6 080
33232	Ornamental & architectural metal products mfg.....	1	27	16	1 019	28 479	778	1 678	16 637	64 084	36 348	100 531	D
332322	Sheet metal work mfg.....	1	19	13	842	23 589	692	1 508	14 736	55 836	25 051	80 973	4 143
3325	Hardware mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
33251	Hardware mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
332510	Hardware mfg.....	-	2	1	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ANAHEIM, CA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	109	27	2 065	81 326	1 605	4 138	49 675	171 254	72 011	240 065	22 859
33271	Machine shops	1	91	18	831	27 972	675	1 167	19 793	56 559	23 929	79 617	3 530
332710	Machine shops	1	91	18	831	27 972	675	1 167	19 793	56 559	23 929	79 617	3 530
33272	Turned product & screw, nut, & bolt mfg	—	18	9	1 234	53 354	930	2 971	29 882	114 695	48 082	160 448	19 329
332722	Bolt, nut, screw, rivet, & washer mfg	—	8	5	1 053	48 192	778	2 647	26 108	101 934	43 100	142 824	D
3328	Coating, engraving, heat treating, & allied activities.	1	42	18	1 130	28 611	953	1 812	18 042	49 194	18 879	68 269	2 683
33281	Coating, engraving, heat treating, & allied activities	1	42	18	1 130	28 611	953	1 812	18 042	49 194	18 879	68 269	2 683
332813	Electroplating, plating, polishing, anodizing, & coloring	2	26	11	679	15 498	566	1 012	10 243	26 501	8 469	35 135	792
333	Machinery mfg	1	76	24	2 102	71 285	1 364	2 684	36 980	143 567	142 994	275 058	11 094
3332	Industrial machinery mfg ..	—	13	8	568	18 445	375	782	9 963	29 373	58 682	85 646	5 425
33329	Other industrial machinery mfg	—	11	7	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	2	93	51	11 099	494 522	4 246	8 982	124 734	1 224 744	815 063	2 035 522	115 688
3341	Computer & peripheral equipment mfg	7	11	4	1 473	77 607	453	948	13 631	136 873	234 961	372 354	23 525
33411	Computer & peripheral equipment mfg	7	11	4	1 473	77 607	453	948	13 631	136 873	234 961	372 354	23 525
334119	Other computer peripheral equipment mfg	—	6	2	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	—	12	6	842	37 245	343	692	8 015	113 791	83 981	194 857	1 675
3344	Semiconductor & other electronic component mfg	2	40	24	2 879	77 315	1 771	3 847	40 753	224 838	110 631	332 771	17 389
33441	Semiconductor & other electronic component mfg	2	40	24	2 879	77 315	1 771	3 847	40 753	224 838	110 631	332 771	17 389
334412	Bare printed circuit board mfg	—	10	8	1 687	36 915	1 028	2 346	24 859	133 206	58 171	191 780	11 814
3345	Navigational, measuring, medical, & control instruments mfg	—	22	10	4 310	254 682	919	2 009	40 291	603 275	264 101	870 979	40 808
33451	Navigational, measuring, medical, & control instruments mfg	—	22	10	4 310	254 682	919	2 009	40 291	603 275	264 101	870 979	40 808
334511	Search, detection, navigation, & guidance instrument mfg	—	4	2	h	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media ..	2	4	4	1 252	41 595	590	1 124	19 235	107 659	89 773	195 622	D
33461	Mfg & reproducing magnetic & optical media	2	4	4	1 252	41 595	590	1 124	19 235	107 659	89 773	195 622	D
334613	Magnetic & optical recording media mfg ..	—	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	1	20	12	1 987	85 972	1 246	2 453	46 282	297 876	155 675	454 263	8 083
3359	Other electrical equipment & component mfg	1	11	7	1 566	71 505	972	1 950	39 091	238 022	129 573	368 373	6 918
33599	All other electrical equipment & component mfg	2	5	4	948	47 862	411	940	18 160	142 721	47 566	188 743	4 855
335999	All other miscellaneous electrical equipment & component mfg	2	5	4	948	47 862	411	940	18 160	142 721	47 566	188 743	4 855
336	Transportation equipment mfg	2	41	14	1 202	35 613	948	1 806	21 544	74 288	50 470	123 645	5 422
3363	Motor vehicle parts mfg ...	2	22	9	805	23 755	651	1 250	14 344	47 710	30 102	75 863	4 464
337	Furniture & related product mfg	2	50	14	2 054	45 501	1 652	3 282	30 098	169 346	118 563	287 223	6 876
3371	Household & institutional furniture & kitchen cabinet mfg	2	33	7	1 151	25 049	961	1 993	16 513	92 401	72 539	163 866	2 902
33712	Household & institutional furniture mfg	6	16	5	679	13 574	596	1 163	10 341	32 074	24 863	55 514	1 057

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ANAHEIM, CA—Con.												
	Manufacturing—Con.												
339	Miscellaneous mfg.....	1	63	12	1 668	57 556	1 095	1 971	20 730	84 986	111 426	196 073	8 666
3391	Medical equipment & supplies mfg.....	1	17	4	766	25 707	453	1 090	11 180	22 588	58 609	80 126	4 449
33911	Medical equipment & supplies mfg.....	1	17	4	766	25 707	453	1 090	11 180	22 588	58 609	80 126	4 449
3399	Other miscellaneous mfg... ..	1	46	8	902	31 849	642	881	9 550	62 398	52 817	115 947	4 217
33999	All other miscellaneous mfg.....	-	14	5	514	20 893	390	452	4 589	39 510	35 101	75 722	D
	ANDERSON, CA												
31-33	Manufacturing	-	17	6	527	17 195	342	630	10 186	47 127	51 455	96 210	4 176
	ANTIOCH, CA												
31-33	Manufacturing	1	38	8	577	20 165	412	791	11 897	61 317	59 619	117 728	4 374
	ARCADIA, CA												
31-33	Manufacturing	1	72	15	971	29 021	689	1 221	15 356	151 017	50 042	201 162	3 181
	ARCATA, CA												
31-33	Manufacturing	2	62	14	1 067	24 228	859	1 568	18 800	62 942	79 330	144 100	2 972
321	Wood product mfg.....	1	16	7	507	13 649	433	883	11 671	38 093	57 408	97 051	1 614
	ARVIN, CA												
31-33	Manufacturing	4	6	4	664	13 425	562	921	9 335	38 863	20 282	59 105	D
	ATWATER, CA												
31-33	Manufacturing	8	13	7	1 449	32 156	1 166	2 677	25 274	66 694	124 915	192 032	D
311	Food mfg.....	9	4	2	g	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg.....	9	2	2	g	D	D	D	D	D	D	D	D
31141	Frozen food mfg.....	9	1	1	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg.....	9	1	1	f	D	D	D	D	D	D	D	D
	AUBURN, CA												
31-33	Manufacturing	1	54	12	931	31 323	675	1 278	18 679	70 443	37 140	106 884	6 262
	AZUSA, CA												
31-33	Manufacturing	1	126	53	5 017	197 737	2 974	5 348	71 413	488 689	380 806	905 859	25 848
325	Chemical mfg.....	2	10	8	501	20 789	264	546	7 498	129 792	87 075	223 797	7 237
332	Fabricated metal product mfg.....	1	36	10	868	26 899	706	1 415	19 661	97 899	81 838	177 338	5 073
334	Computer & electronic product mfg.....	-	6	2	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	-	3	2	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	-	3	2	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
	BAKERSFIELD, CA												
31-33	Manufacturing	2	160	29	4 560	107 906	3 631	7 963	69 119	217 840	210 049	416 017	41 635
311	Food mfg.....	-	12	6	2 067	51 199	1 781	4 476	33 998	108 617	50 981	146 647	D
3119	Other food mfg.....	-	3	2	g	D	D	D	D	D	D	D	D
31199	All other food mfg.....	-	3	2	g	D	D	D	D	D	D	D	D
311991	Perishable prepared food mfg.....	-	1	1	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
BALDWIN PARK, CA													
31-33	Manufacturing	2	141	35	2 854	68 490	2 146	3 724	40 656	146 985	88 132	232 145	7 803
332	Fabricated metal product mfg	2	37	7	585	14 476	449	769	9 246	31 885	21 802	53 298	1 749
BANNING, CA													
31-33	Manufacturing	1	27	6	1 023	31 198	937	1 787	17 754	62 052	25 176	86 549	3 964
334	Computer & electronic product mfg	-	3	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	2	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	2	1	f	D	D	D	D	D	D	D	D
334417	Electronic connector mfg	-	2	1	f	D	D	D	D	D	D	D	D
BELL, CA													
31-33	Manufacturing	3	29	11	940	28 762	624	1 268	12 582	68 969	107 935	177 320	4 129
BELL GARDENS, CA													
31-33	Manufacturing	2	70	26	1 672	42 227	1 252	2 163	26 512	81 355	80 954	163 289	3 387
332	Fabricated metal product mfg	3	25	10	526	17 606	412	817	11 138	31 440	15 147	46 565	1 481
BENICIA, CA													
31-33	Manufacturing	-	85	24	2 063	88 140	1 452	3 009	51 820	280 776	1 362 892	1 649 964	26 250
BERKELEY, CA													
31-33	Manufacturing	2	199	53	5 247	212 847	3 390	6 522	98 621	656 470	344 464	996 621	37 918
311	Food mfg	8	27	10	841	21 794	598	1 116	13 752	61 192	46 691	107 942	3 617
325	Chemical mfg	-	12	3	1 296	74 701	635	1 033	17 665	327 023	75 860	397 116	D
3254	Pharmaceutical & medicine mfg	-	3	1	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	-	3	1	g	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) mfg	-	2	1	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	3	3	540	21 594	487	1 146	19 291	49 767	32 934	81 679	D
3315	Foundries	-	3	3	540	21 594	487	1 146	19 291	49 767	32 934	81 679	D
33151	Ferrous metal foundries	-	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	2	20	8	734	31 410	350	724	9 901	74 239	81 010	158 009	8 075
BEVERLY HILLS, CA													
31-33	Manufacturing	5	64	4	501	10 872	351	513	6 130	21 698	23 712	45 123	1 297

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
BREA, CA													
31-33	Manufacturing	2	187	69	8 461	316 536	5 140	10 458	140 093	603 175	525 865	1 145 063	25 813
323	Printing & related support activities.....	1	25	6	779	24 317	509	873	13 214	55 034	30 207	86 085	5 015
3231	Printing & related support activities.....	1	25	6	779	24 317	509	873	13 214	55 034	30 207	86 085	5 015
32311	Printing	1	21	5	735	23 463	473	821	12 563	53 265	29 799	83 908	4 923
326	Plastics & rubber products mfg	2	9	5	1 253	32 143	885	2 018	17 760	61 815	50 620	112 766	2 105
3262	Rubber product mfg	-	2	2	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	-	2	2	f	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	39	15	1 131	44 758	822	1 764	30 909	119 936	44 540	162 247	4 624
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	20	8	674	28 496	504	1 171	20 341	59 073	20 415	78 191	3 088
333	Machinery mfg	2	22	10	526	18 443	381	761	10 924	36 358	24 457	60 252	1 405
334	Computer & electronic product mfg	-	14	5	1 800	100 770	315	716	9 087	113 593	94 348	208 185	4 619
3345	Navigational, measuring, medical, & control instruments mfg	-	5	1	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	5	1	g	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument mfg	-	2	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	5	11	7	1 255	47 420	974	1 645	29 287	46 471	143 616	205 986	D
3364	Aerospace product & parts mfg	-	3	3	637	27 880	432	772	13 221	36 152	45 681	89 079	D
33641	Aerospace product & parts mfg	-	3	3	637	27 880	432	772	13 221	36 152	45 681	89 079	D
336413	Other aircraft part & auxiliary equipment mfg	-	3	3	637	27 880	432	772	13 221	36 152	45 681	89 079	D
337	Furniture & related product mfg	-	13	6	701	21 073	549	1 280	12 833	91 981	50 942	143 113	599
3371	Household & institutional furniture & kitchen cabinet mfg	-	9	5	648	19 703	508	1 204	11 979	89 295	48 381	137 875	437
33712	Household & institutional furniture mfg	-	5	2	f	D	D	D	D	D	D	D	D
BRISBANE, CA													
31-33	Manufacturing	2	33	13	1 467	45 954	1 041	2 192	21 737	87 130	78 560	163 183	4 893
BUENA PARK, CA													
31-33	Manufacturing	2	126	55	7 108	227 808	4 980	10 257	128 538	675 959	698 066	1 358 527	68 988
311	Food mfg	4	7	6	771	28 099	603	1 289	20 911	195 966	136 801	332 421	12 690
312	Beverage & tobacco product mfg	-	2	2	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	2	2	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	-	2	2	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg	-	2	2	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	10	8	922	34 803	717	1 553	23 111	111 977	164 697	277 342	18 913
3222	Converted paper product mfg	-	10	8	922	34 803	717	1 553	23 111	111 977	164 697	277 342	18 913
32221	Paperboard container mfg	-	6	6	801	30 628	626	1 354	20 514	101 299	146 485	248 593	18 206
322211	Corrugated & solid fiber box mfg	-	5	5	f	D	D	D	D	D	D	D	D
325	Chemical mfg	9	3	3	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg	9	2	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	9	2	2	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	9	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	36	6	630	26 890	478	1 133	18 793	51 475	19 900	69 352	8 561

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
	BUENA PARK, CA—Con.													
31-33	Manufacturing—Con.													
335	Electrical equipment, appliance, & component mfg	—	2	1	f	D	D	D	D	D	D	D	D	
3353	Electrical equipment mfg ..	—	2	1	f	D	D	D	D	D	D	D	D	
33531	Electrical equipment mfg	—	2	1	f	D	D	D	D	D	D	D	D	
335314	Relay & industrial control mfg	—	2	1	f	D	D	D	D	D	D	D	D	
	BURBANK, CA													
31-33	Manufacturing	2	298	94		9 355	306 905	6 746	13 407	172 316	725 796	413 558	1 131 224	37 910
323	Printing & related support activities.....	3	43	9		836	34 009	654	1 296	21 533	64 508	21 939	85 873	4 012
3231	Printing & related support activities.....	3	43	9		836	34 009	654	1 296	21 533	64 508	21 939	85 873	4 012
326	Plastics & rubber products mfg	2	13	7		562	16 810	459	974	9 360	36 715	26 530	63 009	1 682
3261	Plastics product mfg	1	11	6	f		D	D		D	D	D	D	D
332	Fabricated metal product mfg	—	87	30		3 238	117 913	2 319	4 480	63 937	264 240	122 370	381 133	15 575
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	37	11		1 195	42 996	800	1 600	20 755	67 209	46 126	112 666	4 720
33272	Turned product & screw, nut, & bolt mfg	—	6	3		792	30 463	480	1 041	12 485	42 701	36 466	78 655	2 729
332722	Bolt, nut, screw, rivet, & washer mfg	—	2	2	f		D	D		D	D	D	D	D
3328	Coating, engraving, heat treating, & allied activities ..	—	22	7		515	14 915	423	825	9 561	28 621	8 637	37 222	1 701
33281	Coating, engraving, heat treating, & allied activities.....	—	22	7		515	14 915	423	825	9 561	28 621	8 637	37 222	1 701
3329	Other fabricated metal product mfg	—	8	5		1 037	46 154	680	1 252	23 717	137 023	48 838	182 000	6 734
33291	Metal valve mfg	—	5	4		1 008	45 306	662	1 223	23 171	134 919	48 232	179 290	D
332912	Fluid power valve & hose fitting mfg	—	3	3	f		D	D		D	D	D	D	D
333	Machinery mfg	3	19	7		603	21 338	394	742	11 847	53 793	36 048	90 591	3 372
334	Computer & electronic product mfg	2	19	7		521	18 536	334	784	9 050	43 887	33 339	79 103	2 584
335	Electrical equipment, appliance, & component mfg	—	13	6		576	17 636	396	799	8 568	41 022	22 359	65 094	1 803
336	Transportation equipment mfg	—	11	5		512	20 075	318	612	9 432	54 020	32 505	85 448	4 304
339	Miscellaneous mfg	3	27	8		1 468	32 565	1 061	2 264	19 834	104 170	41 796	139 440	1 630
3399	Other miscellaneous mfg ..	2	15	5		1 118	25 863	773	1 757	15 962	89 692	30 064	114 924	651
33991	Jewelry & silverware mfg	2	4	4	g		D	D		D	D	D	D	D
339914	Costume jewelry & novelty mfg	—	1	1	f		D	D		D	D	D	D	D
	BURLINGAME, CA													
31-33	Manufacturing	1	83	26		2 286	90 898	1 550	3 212	48 504	237 210	171 438	408 509	19 225
	CALABASAS, CA *													
31-33	Manufacturing	—	18	9		992	46 089	452	957	16 516	166 102	58 093	221 309	6 873
334	Computer & electronic product mfg	—	8	7		659	36 011	198	412	11 247	138 027	44 672	180 194	6 137

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CAMARILLO, CA													
31-33	Manufacturing	-	173	72	8 487	296 905	5 520	11 832	143 715	875 556	650 445	1 513 514	88 777
326	Plastics & rubber products mfg	2	15	7	521	15 433	345	668	6 295	37 886	28 134	64 360	2 362
3261	Plastics product mfg	2	14	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	29	10	818	29 570	469	922	11 447	74 846	49 997	126 434	4 791
334	Computer & electronic product mfg	-	37	21	4 417	170 016	2 963	6 611	85 025	562 348	432 211	984 626	67 239
3342	Communications equipment mfg	-	6	5	f	D	D	D	D	D	D	D	5 732
33422	Radio & TV broadcasting & wireless communications equipment mfg	-	4	4	503	16 090	305	552	5 659	17 954	28 224	48 134	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	-	4	4	503	16 090	305	552	5 659	17 954	28 224	48 134	D
3344	Semiconductor & other electronic component mfg	-	16	9	1 614	81 120	801	1 848	29 863	203 110	178 064	372 969	41 010
33441	Semiconductor & other electronic component mfg	-	16	9	1 614	81 120	801	1 848	29 863	203 110	178 064	372 969	41 010
334413	Semiconductor & related device mfg ...	-	4	3	f	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media .	-	4	4	g	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media	-	4	4	g	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing	-	3	3	g	D	D	D	D	D	D	D	D
334613	Magnetic & optical recording media mfg .	-	1	1	f	D	D	D	D	D	D	D	D
CAMPBELL, CA													
31-33	Manufacturing	1	156	30	3 307	133 568	2 152	4 141	64 288	351 993	246 728	613 494	13 334
323	Printing & related support activities	-	23	4	599	17 633	431	765	11 439	54 104	17 288	71 025	2 148
3231	Printing & related support activities	-	23	4	599	17 633	431	765	11 439	54 104	17 288	71 025	2 148
32311	Printing	-	21	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	41	8	586	21 978	492	1 011	15 804	38 221	17 425	56 237	1 854
334	Computer & electronic product mfg	-	27	4	1 120	51 985	543	1 083	18 112	188 731	139 904	333 513	3 937
3342	Communications equipment mfg	-	5	1	f	D	D	D	D	D	D	D	225
33422	Radio & TV broadcasting & wireless communications equipment mfg	-	5	1	f	D	D	D	D	D	D	D	225
334220	Radio & TV broadcasting & wireless communications equipment mfg	-	5	1	f	D	D	D	D	D	D	D	225
CARLSBAD, CA													
31-33	Manufacturing	1	205	93	12 384	457 952	7 251	15 462	184 032	1 482 216	940 896	2 418 945	109 024
315	Apparel mfg	5	12	4	960	14 592	763	1 678	7 638	71 861	45 342	121 358	2 215
3152	Cut & sew apparel mfg	5	9	3	871	12 825	691	1 562	6 648	69 985	44 082	118 102	D
31522	Men's & boys' cut & sew apparel mfg	5	3	3	843	12 161	677	1 539	6 306	67 760	42 602	114 968	D
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	6	2	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg	1	20	11	1 335	51 239	571	1 104	15 016	128 249	90 148	223 124	25 582
3254	Pharmaceutical & medicine mfg	2	15	8	922	35 821	375	636	10 236	77 523	57 566	136 539	D
32541	Pharmaceutical & medicine mfg	2	15	8	922	35 821	375	636	10 236	77 523	57 566	136 539	D
332	Fabricated metal product mfg	-	14	6	665	18 869	240	423	5 341	52 348	9 505	64 088	2 141
333	Machinery mfg	-	12	6	853	32 194	412	809	13 824	61 797	63 538	129 372	3 065

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CARLSBAD, CA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg.....	2	39	24	1 574	71 694	764	1 559	22 190	148 201	115 059	264 688	11 223
3344	Semiconductor & other electronic component mfg.....	5	10	7	516	16 846	356	710	8 569	37 681	29 871	68 090	3 072
33441	Semiconductor & other electronic component mfg.....	5	10	7	516	16 846	356	710	8 569	37 681	29 871	68 090	3 072
335	Electrical equipment, appliance, & component mfg.....	—	11	6	828	34 790	509	1 026	20 706	84 138	79 640	158 732	2 620
339	Miscellaneous mfg.....	—	35	17	4 909	195 837	3 021	7 029	75 872	850 729	477 911	1 312 648	47 852
3391	Medical equipment & supplies mfg.....	1	14	5	751	24 245	318	627	8 249	80 370	30 821	114 913	3 416
33911	Medical equipment & supplies mfg.....	1	14	5	751	24 245	318	627	8 249	80 370	30 821	114 913	3 416
3399	Other miscellaneous mfg ..	—	21	12	4 158	171 592	2 703	6 402	67 623	770 359	447 090	1 197 735	44 436
33992	Sporting & athletic goods mfg.....	—	14	8	3 742	159 687	2 425	5 865	61 570	733 054	427 624	1 142 000	42 906
339920	Sporting & athletic goods mfg.....	—	14	8	3 742	159 687	2 425	5 865	61 570	733 054	427 624	1 142 000	42 906
	CARPINTERIA, CA												
31-33	Manufacturing	1	35	16	1 379	59 625	662	1 230	18 302	166 471	64 547	230 530	12 026
	CARSON, CA												
31-33	Manufacturing	—	321	137	13 958	477 518	9 576	20 067	259 812	2 235 168	2 973 059	5 207 943	183 139
311	Food mfg.....	1	14	6	722	22 730	531	866	13 054	128 139	83 010	210 805	3 935
313	Textile mills.....	—	13	8	1 239	30 397	979	2 214	17 839	58 792	58 605	116 428	4 234
3132	Fabric mills.....	—	8	5	1 025	25 759	791	1 773	14 479	48 189	49 816	97 039	3 861
31324	Knit fabric mills.....	—	4	3	777	20 835	570	1 242	10 997	36 838	45 574	81 454	3 752
313241	Weft knit fabric mills ..	—	3	3	f	D	D	D	D	D	D	D	D
315	Apparel mfg.....	6	14	6	594	14 676	393	751	6 167	33 436	49 090	83 231	1 739
323	Printing & related support activities.....	4	37	8	563	16 511	384	706	9 558	31 495	26 223	57 916	1 788
3231	Printing & related support activities.....	4	37	8	563	16 511	384	706	9 558	31 495	26 223	57 916	1 788
32311	Printing.....	4	34	8	558	16 405	380	700	9 476	31 301	26 179	57 678	D
324	Petroleum & coal products mfg.....	—	2	1	f	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg.....	—	2	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 mfg.....	—	24	12	1 092	43 822	469	1 132	13 554	191 303	284 702	480 419	7 627
326	Plastics & rubber products mfg.....	3	19	9	626	13 965	532	990	9 083	37 150	33 288	70 410	3 193
3261	Plastics product mfg.....	3	19	9	626	13 965	532	990	9 083	37 150	33 288	70 410	3 193
332	Fabricated metal product mfg.....	1	53	21	2 035	72 800	1 300	2 816	39 336	179 151	92 369	262 166	8 618
3323	Architectural & structural metals mfg.....	—	13	10	1 173	38 998	633	1 394	17 156	84 128	44 495	127 075	2 391
33231	Plate work & fabricated structural product mfg..	—	5	4	507	22 125	201	465	7 443	48 285	22 348	71 776	1 115
33232	Ornamental & architectural metal products mfg.....	1	8	6	666	16 873	432	929	9 713	35 843	22 147	55 299	1 276
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	—	27	5	530	23 919	411	926	16 096	71 452	33 978	97 591	5 116
334	Computer & electronic product mfg.....	—	20	11	1 214	40 372	773	1 409	21 510	88 253	61 078	156 143	3 405
335	Electrical equipment, appliance, & component mfg.....	—	7	6	968	29 628	734	1 543	16 632	100 493	162 737	262 871	6 615
3359	Other electrical equipment & component mfg.....	—	5	4	f	D	D	D	D	D	D	D	D
33593	Wiring device mfg.....	—	2	2	f	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg....	—	2	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CARSON, CA—Con.													
31-33	Manufacturing—Con.												
336	Transportation equipment mfg	—	20	8	1 188	40 943	906	1 895	24 400	118 650	88 742	197 553	8 416
3363	Motor vehicle parts mfg ...	—	9	3	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	—	4	3	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	—	4	3	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	—	6	3	f	D	D	D	D	D	D	D	6 037
33641	Aerospace product & parts mfg	—	6	3	f	D	D	D	D	D	D	D	6 037
337	Furniture & related product mfg	2	19	10	683	18 521	480	934	10 414	31 845	26 672	58 794	1 240
CERES, CA													
31-33	Manufacturing	6	32	9	835	24 036	597	1 025	13 385	67 702	67 031	131 131	6 406
CERRITOS, CA													
31-33	Manufacturing	—	117	62	5 463	169 441	3 820	7 647	94 753	347 984	433 558	801 112	21 691
323	Printing & related support activities	—	13	8	723	27 798	471	1 075	17 448	53 063	89 639	148 001	1 950
3231	Printing & related support activities	—	13	8	723	27 798	471	1 075	17 448	53 063	89 639	148 001	1 950
32311	Printing	—	10	5	588	23 823	381	873	14 645	44 067	83 235	132 641	D
332	Fabricated metal product mfg	1	20	13	930	27 358	507	1 103	13 209	57 097	32 636	89 286	4 879
333	Machinery mfg	—	11	4	802	33 136	521	1 126	16 805	77 559	53 886	130 266	4 633
337	Furniture & related product mfg	—	10	7	571	15 204	451	748	7 499	32 726	31 783	64 292	1 869
CHICO, CA													
31-33	Manufacturing	2	107	27	2 455	63 128	1 834	3 752	40 004	195 298	209 935	403 737	31 204
336	Transportation equipment mfg	—	7	2	f	D	D	D	D	D	D	D	D
CHINO, CA													
31-33	Manufacturing	1	259	99	9 897	245 797	7 629	16 220	161 406	621 175	678 624	1 294 685	48 312
311	Food mfg	6	11	3	594	8 190	311	644	5 712	22 991	35 442	58 897	2 181
326	Plastics & rubber products mfg	—	25	14	1 423	37 797	1 111	2 316	26 109	149 577	195 761	343 748	12 657
3261	Plastics product mfg	1	20	10	1 200	30 696	956	1 993	21 694	96 359	144 676	239 386	11 434
32619	Other plastics product mfg	1	13	5	740	16 184	604	1 291	10 601	47 943	69 082	115 845	1 653
332	Fabricated metal product mfg	1	62	16	1 383	39 303	1 081	2 327	24 234	74 930	57 818	131 889	6 189
3323	Architectural & structural metals mfg	—	14	4	502	15 408	389	884	9 760	27 680	26 768	53 674	1 385
333	Machinery mfg	—	31	10	1 287	37 813	974	2 336	25 903	85 197	74 786	159 446	8 249
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	1	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	1	1	f	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refig equip mfg	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	15	8	842	21 400	668	1 298	12 828	58 363	73 376	130 313	2 592
337	Furniture & related product mfg	1	27	13	1 854	42 949	1 460	3 057	26 512	84 871	91 493	176 508	4 119
3371	Household & institutional furniture & kitchen cabinet mfg	—	22	9	1 454	29 008	1 182	2 515	20 273	58 940	52 096	110 814	2 850
33712	Household & institutional furniture mfg	—	16	8	1 072	21 040	973	1 927	16 288	39 725	45 416	84 982	D

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CHULA VISTA, CA													
31-33	Manufacturing	1	158	40	5 626	210 860	4 164	7 057	108 399	390 041	588 435	1 029 220	49 956
315	Apparel mfg	5	22	11	1 021	20 153	755	1 597	12 549	35 089	15 841	49 872	802
3152	Cut & sew apparel mfg	7	18	8	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	12	5	h	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	-	3	1	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	3	1	g	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	-	2	1	g	D	D	D	D	D	D	D	D
CLAREMONT, CA													
31-33	Manufacturing	-	29	13	1 309	58 021	819	1 591	21 062	100 936	77 027	177 609	7 749
339	Miscellaneous mfg	-	3	2	f	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	-	2	2	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	2	2	f	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg	-	1	1	f	D	D	D	D	D	D	D	D
CLOVIS, CA													
31-33	Manufacturing	-	55	13	2 320	55 996	1 593	3 184	29 366	117 467	143 865	259 416	9 536
311	Food mfg	-	5	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
COLTON, CA													
31-33	Manufacturing	-	54	21	1 668	45 385	1 225	2 468	26 328	139 694	137 081	278 223	13 578
COMMERCE, CA													
31-33	Manufacturing	-	345	217	22 393	633 089	17 215	35 098	392 354	1 853 748	2 267 577	4 099 136	105 402
311	Food mfg	1	23	17	2 167	61 049	1 627	3 249	44 268	290 800	451 687	743 759	10 020
3118	Bakeries & tortilla mfg	3	6	5	1 030	22 963	808	1 648	18 150	85 819	86 831	173 002	1 815
31183	Tortilla mfg	-	1	1	f	D	D	D	D	D	D	D	D
311830	Tortilla mfg	-	1	1	f	D	D	D	D	D	D	D	D
314	Textile product mills	3	15	14	1 508	31 322	1 225	2 215	19 285	75 939	104 872	181 087	2 759
3141	Textile furnishings mills	3	9	9	g	D	D	D	D	D	D	D	D
31412	Curtain & linen mills	6	7	7	954	11 820	826	1 347	8 551	31 913	51 370	83 061	1 144
314129	Other household textile product mills	6	7	7	954	11 820	826	1 347	8 551	31 913	51 370	83 061	1 144
315	Apparel mfg	-	55	37	4 203	86 790	3 534	6 390	55 172	217 223	367 023	570 779	4 549
3152	Cut & sew apparel mfg	-	50	34	3 995	84 052	3 342	6 191	52 728	211 347	363 288	561 136	4 423
31521	Cut & sew apparel contractors	3	25	15	2 344	31 055	2 242	4 019	28 455	49 709	7 452	56 184	2 222
315212	Women's, girls', & infants' cut & sew apparel contractors ..	1	23	13	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	21	17	1 554	50 769	1 018	2 061	22 585	157 567	350 172	495 255	D
315233	Women's & girls' cut & sew dress mfg	-	4	3	505	22 822	361	744	12 723	56 203	114 357	157 620	D
315239	Women's & girls' cut & sew other outerwear mfg	-	8	8	672	17 669	498	1 057	7 226	79 629	191 824	272 481	812
316	Leather & allied product mfg .	-	4	2	f	D	D	D	D	D	D	D	D
3169	Other leather & allied product mfg	-	3	2	f	D	D	D	D	D	D	D	D
31699	Other leather & allied product mfg	-	3	2	f	D	D	D	D	D	D	D	D
316999	All other leather good mfg	-	3	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	COMMERCE, CA—Con.												
	Manufacturing—Con.												
322	Paper mfg	-	20	16	1 621	55 338	1 259	2 638	36 694	171 257	212 320	383 171	7 986
3222	Converted paper product mfg	-	18	14	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	6	6	797	30 594	589	1 297	19 149	82 555	101 968	184 267	3 572
323	Printing & related support activities	-	40	20	2 661	95 971	2 001	5 413	59 724	207 884	230 110	438 824	15 998
3231	Printing & related support activities	-	40	20	2 661	95 971	2 001	5 413	59 724	207 884	230 110	438 824	15 998
32311	Printing	-	32	16	2 359	86 238	1 756	4 906	53 688	188 687	226 314	415 862	15 034
323110	Commercial lithographic printing ..	-	12	6	818	44 296	597	2 399	29 068	89 478	98 642	187 760	4 609
323113	Commercial screen printing	-	7	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	24	15	1 052	41 832	588	1 238	21 955	236 150	264 583	491 221	13 738
326	Plastics & rubber products mfg	1	20	16	1 426	33 797	1 178	2 320	23 223	107 247	99 123	202 801	14 762
3261	Plastics product mfg	1	18	15	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	7	6	753	17 016	656	1 257	13 055	46 550	40 918	84 800	4 631
326199	All other plastics product mfg	1	6	5	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	11	9	1 032	33 918	788	1 657	21 945	74 103	126 809	201 305	8 803
332	Fabricated metal product mfg	-	44	22	1 772	65 300	1 180	2 499	32 423	154 249	115 730	270 362	6 295
3324	Boiler, tank, & shipping container mfg	-	4	3	562	20 450	233	483	9 110	32 133	59 857	92 623	1 963
336	Transportation equipment mfg	1	7	6	810	16 578	634	1 113	11 108	39 280	38 688	77 644	2 942
3363	Motor vehicle parts mfg ...	-	5	5	f	D	D	D	D	D	D	D	D
33636	Motor vehicle seating & interior trim mfg	-	1	1	f	D	D	D	D	D	D	D	D
336360	Motor vehicle seating & interior trim mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	29	15	1 204	28 673	1 008	2 081	18 215	78 008	84 447	161 187	2 836
3371	Household & institutional furniture & kitchen cabinet mfg	1	17	10	907	18 406	758	1 615	13 244	42 938	48 085	90 873	1 377
33712	Household & institutional furniture mfg	1	16	10	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	13	8	536	16 638	363	654	6 879	36 914	17 823	55 240	999
3399	Other miscellaneous mfg ..	1	12	8	f	D	D	D	D	D	D	D	D
	COMPTON, CA												
31-33	Manufacturing	1	179	98	8 188	215 288	6 267	12 522	128 509	562 951	551 318	1 108 086	56 170
311	Food mfg	2	17	7	890	21 194	669	1 347	10 208	73 244	70 366	143 495	4 804
315	Apparel mfg	1	17	12	916	23 202	792	1 605	15 079	47 538	59 361	104 244	3 933
3152	Cut & sew apparel mfg	1	16	11	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	12	9	1 370	34 791	1 056	2 226	19 601	99 876	100 489	199 179	21 192
3261	Plastics product mfg	1	8	6	877	22 254	693	1 442	13 101	69 072	59 527	125 026	20 597
32619	Other plastics product mfg	1	4	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	1	3	2	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	7	5	549	13 584	412	864	8 180	29 586	25 518	54 958	1 165
332	Fabricated metal product mfg	1	49	22	1 556	43 002	1 128	2 222	25 236	124 902	86 300	210 147	9 789
339	Miscellaneous mfg	-	6	4	581	15 016	490	1 042	9 474	42 344	49 323	91 697	D
	CONCORD, CA												
31-33	Manufacturing	1	145	31	2 554	97 583	1 380	2 755	42 278	167 754	185 619	353 256	15 513
334	Computer & electronic product mfg	1	19	7	1 084	51 079	490	990	18 770	75 501	107 278	182 296	5 898
3345	Navigational, measuring, medical, & control instruments mfg	1	9	4	602	33 579	186	371	6 038	36 950	87 115	123 794	2 988
33451	Navigational, measuring, medical, & control instruments mfg	1	9	4	602	33 579	186	371	6 038	36 950	87 115	123 794	2 988

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CORONA, CA													
31-33	Manufacturing	2	291	116	10 424	313 180	7 934	15 556	194 375	859 544	962 114	1 817 430	53 274
311	Food mfg	4	13	6	741	28 127	590	1 460	18 458	108 995	302 531	411 526	D
325	Chemical mfg	1	11	3	662	24 624	401	862	12 582	131 200	69 523	198 841	D
326	Plastics & rubber products mfg	-	30	18	1 836	48 881	1 532	2 814	33 757	137 244	127 577	264 721	4 955
3261	Plastics product mfg	-	30	18	1 836	48 881	1 532	2 814	33 757	137 244	127 577	264 721	4 955
32619	Other plastics product mfg	-	23	13	1 183	32 750	929	1 626	20 841	67 709	50 447	118 239	2 683
326199	All other plastics product mfg	-	21	13	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	13	10	702	24 633	526	1 148	17 624	64 470	40 544	106 121	2 621
332	Fabricated metal product mfg	-	66	26	2 158	67 796	1 533	2 979	39 185	165 230	145 011	310 424	8 651
3329	Other fabricated metal product mfg	-	9	5	924	28 875	634	1 214	15 373	51 126	72 558	123 759	D
33291	Metal valve mfg	-	4	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	4	19	12	708	19 399	535	1 138	11 793	57 823	48 871	104 466	4 233
339	Miscellaneous mfg	1	26	8	1 158	27 403	900	1 730	18 978	47 817	39 003	86 102	7 137
3399	Other miscellaneous mfg ..	1	19	7	g	D	D	D	D	D	D	D	7 101
33999	All other miscellaneous mfg	-	6	2	560	14 374	547	1 116	13 760	15 602	14 145	29 756	D
COSTA MESA, CA													
31-33	Manufacturing	1	310	82	11 091	429 590	6 085	11 958	150 013	985 993	761 574	1 757 620	95 328
326	Plastics & rubber products mfg	7	24	11	1 355	37 328	1 100	2 186	25 645	69 092	57 839	128 350	5 965
3261	Plastics product mfg	7	23	11	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	7	14	8	1 163	31 507	948	1 910	21 798	55 025	43 736	99 833	5 405
326199	All other plastics product mfg	7	14	8	1 163	31 507	948	1 910	21 798	55 025	43 736	99 833	5 405
332	Fabricated metal product mfg	-	47	11	1 053	31 349	775	1 571	17 653	69 494	39 624	109 521	3 049
333	Machinery mfg	1	20	9	919	42 662	527	1 002	16 654	81 302	35 239	119 206	4 711
3339	Other general-purpose machinery mfg	-	4	3	539	30 676	275	569	10 027	56 595	22 569	81 485	3 643
334	Computer & electronic product mfg	-	41	18	4 433	216 511	1 375	3 102	37 915	507 393	397 447	915 324	65 719
3341	Computer & peripheral equipment mfg	-	7	5	1 725	102 288	265	568	9 094	329 379	178 558	518 231	D
33411	Computer & peripheral equipment mfg	-	7	5	1 725	102 288	265	568	9 094	329 379	178 558	518 231	D
334112	Computer storage device mfg	-	2	2	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	20	11	2 272	99 595	893	2 097	24 880	143 675	162 996	306 799	15 688
33441	Semiconductor & other electronic component mfg	-	20	11	2 272	99 595	893	2 097	24 880	143 675	162 996	306 799	15 688
334418	Printed circuit assembly (electronic assembly) mfg	-	2	1	f	D	D	D	D	D	D	D	D
334419	Other electronic component mfg	-	7	5	854	32 642	496	1 104	13 406	68 467	57 116	126 348	4 272
COVINA, CA													
31-33	Manufacturing	1	119	28	3 226	114 452	2 362	4 631	58 870	236 567	122 032	359 457	17 411
334	Computer & electronic product mfg	-	11	5	706	30 222	470	933	7 668	71 508	18 839	89 094	3 416
3344	Semiconductor & other electronic component mfg	-	6	3	534	14 021	408	801	6 090	33 473	10 947	43 538	2 924
33441	Semiconductor & other electronic component mfg	-	6	3	534	14 021	408	801	6 090	33 473	10 947	43 538	2 924
339	Miscellaneous mfg	-	8	2	f	D	D	D	D	D	D	D	D
CUDAHY, CA													
31-33	Manufacturing	1	35	16	893	24 385	718	1 397	13 850	53 540	40 041	94 185	2 411

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CULVER CITY, CA													
31-33	Manufacturing	3	119	37	2 789	76 140	2 142	3 788	40 971	160 294	95 436	253 653	10 734
315	Apparel mfg	3	11	9	513	7 603	388	535	4 716	15 602	10 192	25 748	485
339	Miscellaneous mfg	2	19	7	731	18 817	602	1 202	10 070	53 722	20 937	73 243	2 667
3391	Medical equipment & supplies mfg	—	8	3	505	13 260	440	919	7 377	40 154	11 076	50 437	D
33911	Medical equipment & supplies mfg	—	8	3	505	13 260	440	919	7 377	40 154	11 076	50 437	D
CUPERTINO, CA													
31-33	Manufacturing	1	49	10	2 626	112 927	809	1 611	27 880	188 380	104 113	295 064	14 845
334	Computer & electronic product mfg	1	19	6	2 180	92 173	595	1 205	21 043	169 175	87 176	259 922	D
3345	Navigational, measuring, medical, & control instruments mfg	—	4	2	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	—	4	2	g	D	D	D	D	D	D	D	D
334513	Industrial process control instrument mfg	—	2	1	g	D	D	D	D	D	D	D	D
CYPRESS, CA													
31-33	Manufacturing	1	40	16	1 341	41 758	966	1 895	21 486	132 698	75 800	200 419	5 153
DINUBA, CA													
31-33	Manufacturing	6	10	2	g	D	D	D	D	D	D	D	D
311	Food mfg	6	3	2	g	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	6	2	2	g	D	D	D	D	D	D	D	D
31141	Frozen food mfg	9	1	1	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	9	1	1	f	D	D	D	D	D	D	D	D
DOWNEY, CA													
31-33	Manufacturing	—	102	30	7 464	372 817	2 630	5 921	84 192	841 582	578 849	1 419 004	36 850
332	Fabricated metal product mfg	—	28	5	536	19 830	380	732	11 945	37 078	20 011	55 742	1 441
336	Transportation equipment mfg	—	6	4	h	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	—	1	1	h	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	1	1	h	D	D	D	D	D	D	D	D
336414	Guided missile & space vehicle mfg ...	—	1	1	h	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	4	14	2	882	20 785	635	1 567	14 199	46 907	27 058	75 552	1 905
3399	Other miscellaneous mfg ..	4	5	2	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	4	2	2	f	D	D	D	D	D	D	D	D
339991	Gasket, packing, & sealing device mfg ...	4	2	2	f	D	D	D	D	D	D	D	D
DUARTE, CA													
31-33	Manufacturing	1	47	15	1 539	55 657	1 017	2 062	29 670	125 297	107 557	228 824	5 107
336	Transportation equipment mfg	—	3	3	684	30 373	373	740	15 855	72 929	62 141	130 044	2 513
3364	Aerospace product & parts mfg	—	2	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	2	2	f	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	—	2	2	f	D	D	D	D	D	D	D	D
DUBLIN, CA													
31-33	Manufacturing	3	26	5	606	23 428	400	835	13 001	50 125	24 599	75 083	3 427
EAST PALO ALTO, CA													
31-33	Manufacturing	1	13	8	767	42 546	422	684	16 595	117 577	85 108	196 486	8 346
334	Computer & electronic product mfg	—	2	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
EL CAJON, CA													
31-33	Manufacturing	2	187	60	6 102	194 129	4 319	8 325	116 981	390 270	275 016	654 324	24 700
332	Fabricated metal product mfg	3	38	14	1 400	49 137	980	1 917	29 107	105 308	58 285	162 841	6 749
336	Transportation equipment mfg	-	17	4	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	-	6	3	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	6	3	g	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg	-	3	2	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	17	7	737	15 477	606	1 189	10 553	25 841	26 812	54 323	694
3371	Household & institutional furniture & kitchen cabinet mfg	-	9	4	598	11 804	524	1 026	8 639	19 494	23 331	43 965	435
33712	Household & institutional furniture mfg	-	5	3	f	D	D	D	D	D	D	D	324
339	Miscellaneous mfg	4	19	9	598	19 971	477	967	10 184	45 676	25 533	71 195	1 329
3399	Other miscellaneous mfg ..	5	16	8	556	18 864	440	911	9 536	43 419	24 483	67 869	D
EL MONTE, CA													
31-33	Manufacturing	2	238	89	8 068	211 822	6 081	11 114	129 044	484 262	384 206	882 167	33 021
311	Food mfg	5	24	7	592	18 196	349	698	9 856	48 970	106 554	156 763	4 430
315	Apparel mfg	2	56	23	1 676	23 742	1 464	2 405	19 056	43 579	33 631	76 767	2 078
3151	Apparel knitting mills	-	7	5	592	11 401	531	1 064	9 127	22 725	17 323	39 902	1 281
31519	Other apparel knitting mills	-	7	5	592	11 401	531	1 064	9 127	22 725	17 323	39 902	1 281
315191	Outerwear knitting mills	-	7	5	592	11 401	531	1 064	9 127	22 725	17 323	39 902	1 281
3152	Cut & sew apparel mfg	3	48	17	g	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	6	35	12	733	7 129	642	930	6 010	11 329	2 857	14 185	577
315212	Women's, girls', & infants' cut & sew apparel contractors ..	6	35	12	733	7 129	642	930	6 010	11 329	2 857	14 185	577
326	Plastics & rubber products mfg	3	11	7	739	21 378	507	975	9 321	44 627	47 513	91 819	3 060
3261	Plastics product mfg	3	11	7	739	21 378	507	975	9 321	44 627	47 513	91 819	3 060
332	Fabricated metal product mfg	1	43	15	1 423	42 350	1 088	2 038	28 158	82 977	51 280	131 885	9 029
334	Computer & electronic product mfg	-	12	9	719	27 029	415	734	10 649	78 446	31 994	109 194	2 389
337	Furniture & related product mfg	-	15	7	907	22 993	663	1 238	12 304	44 683	32 316	76 461	1 025
3371	Household & institutional furniture & kitchen cabinet mfg	-	12	6	829	20 900	600	1 147	10 870	39 297	26 558	65 389	D
EL PASO DE ROBLES (PASO ROBLES), CA													
31-33	Manufacturing	1	64	23	2 233	61 498	1 500	3 009	36 843	159 476	121 858	279 300	12 212
334	Computer & electronic product mfg	3	7	6	823	23 078	447	944	13 224	52 325	27 609	80 512	6 777
3344	Semiconductor & other electronic component mfg	-	3	3	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	3	3	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
EL SEGUNDO, CA													
31-33	Manufacturing	-	97	45	32 174	1 700 295	8 233	16 181	366 611	5 336 252	3 386 481	8 617 042	347 595
324	Petroleum & coal products mfg	-	1	1	g	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	-	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
332	Fabricated metal product mfg	-	20	8	885	30 850	578	1 151	17 149	61 073	54 497	114 971	3 685
334	Computer & electronic product mfg	-	23	16	17 988	1 137 097	3 589	6 668	168 331	3 576 199	1 291 789	4 793 821	172 208
3342	Communications equipment mfg	-	3	3	i	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	-	2	2	i	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	-	2	2	i	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	9	7	2 101	76 767	1 407	2 935	38 043	131 256	217 186	337 852	D
33441	Semiconductor & other electronic component mfg	-	9	7	2 101	76 767	1 407	2 935	38 043	131 256	217 186	337 852	D
334413	Semiconductor & related device mfg ...	-	2	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	5	3	i	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	5	3	i	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	-	2	2	i	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	7	4	j	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	-	4	3	j	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	4	3	j	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	-	4	3	j	D	D	D	D	D	D	D	D
EMERYVILLE, CA													
31-33	Manufacturing	-	84	24	3 606	216 026	1 601	3 167	53 152	361 675	236 266	598 355	46 250
325	Chemical mfg	-	5	3	2 052	155 494	600	1 182	22 457	178 068	85 304	262 505	D
3254	Pharmaceutical & medicine mfg	-	1	1	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	-	1	1	g	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) mfg	-	1	1	g	D	D	D	D	D	D	D	D
ESCONDIDO, CA													
31-33	Manufacturing	2	190	52	4 330	114 461	2 678	5 098	62 234	296 410	263 916	563 806	17 151
311	Food mfg	-	16	7	806	24 260	428	876	11 708	56 024	71 926	127 987	3 824
3118	Bakeries & tortilla mfg	-	11	5	535	15 450	341	710	8 643	37 765	23 177	60 687	D
332	Fabricated metal product mfg	1	43	12	988	23 977	690	1 408	15 759	51 485	30 775	82 039	2 929
334	Computer & electronic product mfg	1	12	9	676	23 261	395	752	10 339	49 118	46 438	99 072	3 461
339	Miscellaneous mfg	-	23	3	621	9 354	254	425	4 752	56 825	41 283	96 748	1 730
3399	Other miscellaneous mfg ..	-	12	1	f	D	D	D	D	D	D	D	1 537
EUREKA, CA													
31-33	Manufacturing	1	44	8	686	20 555	551	1 036	15 053	61 779	65 447	128 492	2 296
FAIRFIELD, CA													
31-33	Manufacturing	-	53	21	2 955	121 684	2 158	4 188	75 809	561 814	475 308	1 036 123	45 649

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
FOLSOM, CA													
31-33	Manufacturing	2	23	7	648	26 166	417	786	16 491	44 599	33 468	79 170	7 758
334	Computer & electronic product mfg.....	2	5	4	509	21 718	326	628	14 307	32 019	22 390	55 457	4 193
FONTANA, CA													
31-33	Manufacturing	-	111	54	4 811	153 900	3 605	7 089	89 538	460 803	664 652	1 128 683	55 054
327	Nonmetallic mineral product mfg.....	-	12	7	682	22 651	522	1 010	14 616	96 072	62 967	164 540	3 619
3273	Cement & concrete product mfg.....	-	9	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	31	19	1 784	57 066	1 338	2 654	31 801	136 948	243 457	379 779	10 076
3323	Architectural & structural metals mfg.....	1	8	7	605	14 333	367	678	6 148	32 764	68 427	101 920	1 674
FORT BRAGG, CA													
31-33	Manufacturing	-	18	4	572	19 680	492	1 057	16 807	44 914	86 930	116 788	572
FOSTER CITY, CA													
31-33	Manufacturing	-	26	11	1 866	115 772	945	1 877	51 768	297 920	269 618	563 413	24 043
334	Computer & electronic product mfg.....	-	9	5	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	-	4	3	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	-	4	3	g	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
FOUNTAIN VALLEY, CA													
31-33	Manufacturing	-	111	28	2 645	84 598	2 153	5 625	61 283	737 093	558 940	1 302 157	13 372
334	Computer & electronic product mfg.....	-	10	3	f	D	D	D	D	D	D	D	7 677
3344	Semiconductor & other electronic component mfg.....	-	7	3	f	D	D	D	D	D	D	D	7 585
33441	Semiconductor & other electronic component mfg.....	-	7	3	f	D	D	D	D	D	D	D	7 585
334418	Printed circuit assembly (electronic assembly) mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
FREMONT, CA													
31-33	Manufacturing	1	464	219	34 623	1 593 386	20 938	39 809	800 881	4 280 594	6 488 463	10 765 345	663 042
323	Printing & related support activities.....	2	31	7	914	30 613	614	979	12 339	61 107	32 373	94 777	D
3231	Printing & related support activities.....	2	31	7	914	30 613	614	979	12 339	61 107	32 373	94 777	D
32311	Printing.....	1	28	7	883	29 546	589	927	11 627	59 020	31 992	92 307	D
323113	Commercial screen printing.....	-	5	3	516	16 295	381	519	6 223	33 373	8 769	43 747	2 145
327	Nonmetallic mineral product mfg.....	-	12	11	974	46 271	795	1 907	30 491	141 234	100 173	236 551	13 039
3272	Glass & glass product mfg.....	-	7	6	639	30 287	539	1 356	19 549	77 059	66 940	141 151	8 356
32721	Glass & glass product mfg.....	-	7	6	639	30 287	539	1 356	19 549	77 059	66 940	141 151	8 356
327215	Glass product mfg made of purchased glass.....	-	6	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	94	37	3 559	148 205	2 582	5 117	88 960	367 721	288 702	643 298	31 421
3323	Architectural & structural metals mfg.....	-	20	7	f	D	D	D	D	D	D	D	4 071
33232	Ornamental & architectural metal products mfg.....	-	17	6	f	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg.....	-	16	6	779	29 056	600	994	19 297	44 247	36 407	77 680	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	-	50	15	g	D	D	D	D	D	D	D	D
33271	Machine shops.....	-	48	14	938	36 125	684	1 309	23 002	77 053	31 229	107 757	10 103
332710	Machine shops.....	-	48	14	938	36 125	684	1 309	23 002	77 053	31 229	107 757	10 103

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	FREMONT, CA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg	-	47	28	6 654	277 894	2 324	4 192	88 969	686 845	850 751	1 519 173	48 437
3332	Industrial machinery mfg ..	-	21	15	5 650	230 846	1 645	2 915	61 530	598 296	806 487	1 387 591	D
33329	Other industrial machinery mfg	-	21	15	5 650	230 846	1 645	2 915	61 530	598 296	806 487	1 387 591	D
333295	Semiconductor machinery mfg	-	17	12	5 456	219 295	1 537	2 762	58 983	556 662	783 656	1 325 720	D
3335	Metalworking machinery mfg	-	13	7	589	25 790	502	919	19 955	55 926	25 262	79 006	2 198
33351	Metalworking machinery mfg	-	13	7	589	25 790	502	919	19 955	55 926	25 262	79 006	2 198
334	Computer & electronic product mfg	1	182	104	14 905	673 800	8 516	16 647	260 063	2 192 065	2 922 347	5 145 396	254 609
3341	Computer & peripheral equipment mfg	1	33	18	2 376	145 601	799	1 542	40 754	773 699	1 192 437	1 963 279	34 804
33411	Computer & peripheral equipment mfg	1	33	18	2 376	145 601	799	1 542	40 754	773 699	1 192 437	1 963 279	34 804
334111	Electronic computer mfg	-	12	6	1 090	65 569	411	810	17 227	645 854	882 604	1 526 688	12 218
334119	Other computer peripheral equipment mfg	3	16	9	1 039	64 807	322	602	20 855	109 330	278 975	389 649	18 823
3342	Communications equipment mfg	3	20	13	1 205	61 580	472	971	15 266	158 830	109 550	263 305	9 106
33421	Telephone apparatus mfg	3	9	4	518	34 436	172	390	6 712	89 127	55 697	142 276	D
334210	Telephone apparatus mfg	3	9	4	518	34 436	172	390	6 712	89 127	55 697	142 276	D
3344	Semiconductor & other electronic component mfg	1	91	47	6 322	218 824	4 583	8 421	115 145	543 259	974 761	1 553 956	96 892
33441	Semiconductor & other electronic component mfg	1	91	47	6 322	218 824	4 583	8 421	115 145	543 259	974 761	1 553 956	96 892
334412	Bare printed circuit board mfg	-	23	13	2 041	63 189	1 653	2 944	42 460	145 863	144 007	287 774	37 628
334413	Semiconductor & related device mfg ...	2	28	10	1 022	45 921	578	1 083	14 451	153 105	127 981	275 621	21 908
334418	Printed circuit assembly (electronic assembly) mfg	1	17	16	2 608	85 269	1 975	3 708	49 814	174 642	644 337	864 414	20 532
3345	Navigational, measuring, medical, & control instruments mfg	1	25	16	1 241	68 851	537	1 291	20 572	199 506	127 619	332 109	11 362
33451	Navigational, measuring, medical, & control instruments mfg	1	25	16	1 241	68 851	537	1 291	20 572	199 506	127 619	332 109	11 362
334515	Electricity measuring & testing instrument mfg	-	9	7	753	45 096	306	791	13 074	153 663	92 396	250 192	7 451
3346	Mfg & reproducing magnetic & optical media ..	2	13	10	3 761	178 944	2 125	4 422	68 326	516 771	517 980	1 032 747	102 445
33461	Mfg & reproducing magnetic & optical media	2	13	10	3 761	178 944	2 125	4 422	68 326	516 771	517 980	1 032 747	102 445
334613	Magnetic & optical recording media mfg ..	2	7	5	3 164	160 744	1 635	3 342	55 822	452 206	484 419	934 614	90 899
335	Electrical equipment, appliance, & component mfg	-	10	5	511	21 438	329	631	8 947	62 552	59 834	122 948	D
336	Transportation equipment mfg	-	7	4	h	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	-	1	1	h	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	1	1	h	D	D	D	D	D	D	D	D
336111	Automobile mfg	-	1	1	h	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	31	5	974	52 981	342	889	12 736	69 464	35 742	107 701	6 812
3391	Medical equipment & supplies mfg	-	22	4	719	39 856	229	642	8 282	44 681	24 098	69 941	6 228
33911	Medical equipment & supplies mfg	-	22	4	719	39 856	229	642	8 282	44 681	24 098	69 941	6 228
339112	Surgical & medical instrument mfg	-	7	2	599	36 501	168	521	6 576	29 954	17 367	48 508	5 411

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
FRESNO, CA													
31-33	Manufacturing	1	412	128	15 225	395 070	10 466	20 497	233 351	1 298 165	1 919 996	3 099 768	91 610
311	Food mfg	2	59	30	5 633	141 731	4 182	8 411	87 328	533 700	1 098 418	1 573 127	29 289
3115	Dairy product mfg	-	4	3	524	20 947	244	542	9 716	131 367	309 890	438 251	2 778
31151	Dairy product (except frozen) mfg	-	3	3	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	3	8	6	2 594	48 168	2 304	4 516	38 958	137 116	445 168	574 117	8 440
31161	Animal slaughtering & processing	3	8	6	2 594	48 168	2 304	4 516	38 958	137 116	445 168	574 117	8 440
311615	Poultry processing	-	3	3	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	30	8	1 338	36 704	854	1 751	20 360	100 204	71 462	171 538	2 733
31181	Bread & bakery product mfg	-	25	4	f	D	D	D	D	D	D	D	D
31183	Tortilla mfg	-	2	2	f	D	D	D	D	D	D	D	D
311830	Tortilla mfg	-	2	2	f	D	D	D	D	D	D	D	D
3119	Other food mfg	1	8	6	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	-	4	4	g	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	4	4	g	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	-	3	3	g	D	D	D	D	D	D	D	D
312111	Soft drink mfg	-	2	2	g	D	D	D	D	D	D	D	D
323	Printing & related support activities	3	66	11	906	24 178	633	1 144	14 020	47 263	29 371	76 967	2 630
3231	Printing & related support activities	3	66	11	906	24 178	633	1 144	14 020	47 263	29 371	76 967	2 630
32311	Printing	2	61	11	f	D	D	D	D	D	D	D	2 609
323110	Commercial lithographic printing ..	1	33	6	523	14 718	342	664	8 619	28 300	16 694	44 869	1 445
326	Plastics & rubber products mfg	-	18	8	615	18 388	483	981	12 007	49 446	47 649	99 433	7 866
332	Fabricated metal product mfg	1	52	17	1 122	31 758	803	1 621	20 267	68 341	64 760	131 618	7 067
333	Machinery mfg	1	33	14	1 992	61 345	1 391	2 765	33 557	127 376	183 151	311 435	6 936
3333	Commercial & service industry machinery mfg ..	-	2	1	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg ..	-	2	1	f	D	D	D	D	D	D	D	D
333311	Automatic vending machine mfg	-	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	1	11	6	622	20 384	356	748	8 990	50 623	44 318	91 756	2 449
337	Furniture & related product mfg	-	23	6	516	9 043	446	716	6 626	15 369	17 762	34 858	625
339	Miscellaneous mfg	1	50	4	697	19 452	404	797	9 576	111 957	26 091	140 631	2 771
FULLERTON, CA													
31-33	Manufacturing	-	228	88	10 916	375 833	8 238	16 766	254 236	1 202 024	1 042 150	2 217 145	36 994
311	Food mfg	2	16	8	1 404	36 102	1 249	2 527	29 790	210 773	285 795	494 085	5 672
3114	Fruit & vegetable preserving & specialty food mfg	7	5	3	653	16 639	585	1 162	14 340	39 080	103 891	143 276	2 976
3119	Other food mfg	-	4	2	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	7	7	1 080	44 605	788	1 668	32 237	150 298	244 342	372 282	6 486
3222	Converted paper product mfg	-	6	6	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	4	4	f	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	-	4	4	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	24	7	673	21 890	270	490	7 619	100 062	85 564	184 452	1 856
3231	Printing & related support activities	-	24	7	673	21 890	270	490	7 619	100 062	85 564	184 452	1 856
32311	Printing	-	23	7	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	18	9	690	19 036	583	1 161	11 707	78 197	30 146	109 106	2 056
3261	Plastics product mfg	-	14	8	625	17 341	529	1 052	10 512	73 574	26 567	100 893	D
32619	Other plastics product mfg	-	11	6	522	14 694	444	887	8 723	66 767	20 458	88 179	1 375
326199	All other plastics product mfg	-	11	6	522	14 694	444	887	8 723	66 767	20 458	88 179	1 375

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	FULLERTON, CA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg	—	57	13	1 325	45 137	968	2 119	28 891	85 972	42 330	128 095	4 362
3325	Hardware mfg	—	2	2	f	D	D	D	D	D	D	D	D
33251	Hardware mfg	—	2	2	f	D	D	D	D	D	D	D	D
332510	Hardware mfg	—	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	2	23	7	541	20 658	278	584	8 115	43 455	24 906	67 966	1 928
334	Computer & electronic product mfg	—	15	9	1 885	94 840	1 462	2 718	75 628	296 529	146 689	454 469	9 235
3344	Semiconductor & other electronic component mfg	—	5	4	752	26 265	522	930	18 818	54 113	88 257	140 529	6 192
33441	Semiconductor & other electronic component mfg	—	5	4	752	26 265	522	930	18 818	54 113	88 257	140 529	6 192
3345	Navigational, measuring, medical, & control instruments mfg	—	6	2	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	—	6	2	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	—	2	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	—	12	7	1 039	33 117	817	1 727	19 868	67 925	32 021	93 783	1 060
3371	Household & institutional furniture & kitchen cabinet mfg	—	8	4	855	27 832	677	1 415	16 573	56 781	26 533	77 205	976
33712	Household & institutional furniture mfg	—	5	4	834	27 549	660	1 397	16 372	56 292	26 131	76 312	951
337127	Institutional furniture mfg	—	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	19	5	736	18 186	545	1 089	9 600	61 120	37 369	98 439	661
	GARDENA, CA												
31-33	Manufacturing	3	339	98	7 739	208 323	5 759	10 608	126 291	469 309	389 927	849 180	55 766
311	Food mfg	6	13	5	666	15 971	520	851	11 353	48 873	85 081	133 247	D
3114	Fruit & vegetable preserving & specialty food mfg	7	3	3	544	13 334	420	678	9 574	39 895	82 355	121 280	D
315	Apparel mfg	—	35	10	1 063	18 794	791	1 279	10 401	43 706	65 062	106 205	9 002
3152	Cut & sew apparel mfg	—	33	9	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	94	27	2 025	63 716	1 631	3 210	41 690	148 587	90 993	237 654	9 742
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	54	9	1 020	35 991	827	1 773	23 647	73 972	24 612	97 806	6 143
33272	Turned product & screw, nut, & bolt mfg	—	10	4	541	19 418	438	1 037	12 094	36 759	11 719	48 448	897
336	Transportation equipment mfg	1	15	8	876	33 151	565	1 203	17 753	69 785	38 906	104 439	13 410
3364	Aerospace product & parts mfg	—	5	3	604	27 436	367	850	13 862	59 384	30 708	85 744	D
33641	Aerospace product & parts mfg	—	5	3	604	27 436	367	850	13 862	59 384	30 708	85 744	D
	GARDEN GROVE, CA												
31-33	Manufacturing	1	354	86	9 710	269 464	7 393	14 427	154 055	1 158 058	1 092 766	2 255 302	63 413
315	Apparel mfg	7	120	21	1 483	16 459	1 351	1 923	12 879	30 722	31 789	65 534	1 042
3152	Cut & sew apparel mfg	7	118	21	g	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	5	95	14	1 083	10 141	1 039	1 456	9 296	20 111	3 075	23 158	564
315212	Women's, girls', & infants' cut & sew apparel contractors	5	90	11	925	8 150	891	1 191	7 587	15 996	2 725	18 693	421
325	Chemical mfg	—	8	5	526	21 712	372	739	12 479	486 111	607 895	1 096 910	4 818
326	Plastics & rubber products mfg	4	15	7	638	15 866	483	736	9 748	39 374	27 027	66 575	3 059
3261	Plastics product mfg	4	13	7	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
GARDEN GROVE, CA—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg	2	63	18	2 202	65 817	1 761	4 098	43 148	165 844	126 001	293 742	9 239
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	29	5	939	29 597	823	2 262	22 557	95 864	48 355	147 617	4 567
33272	Turned product & screw, nut, & bolt mfg	—	3	2	f	D	D	D	D	D	D	D	D
332722	Bolt, nut, screw, rivet, & washer mfg	—	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	2	26	8	1 049	47 476	676	1 777	19 031	153 274	87 838	241 129	22 218
336	Transportation equipment mfg	2	12	5	1 425	38 159	1 051	1 919	20 831	80 730	46 612	127 936	8 691
3363	Motor vehicle parts mfg ...	6	7	3	605	11 324	498	713	5 799	26 712	22 596	49 356	D
33639	Other motor vehicle parts mfg	6	4	3	597	11 118	491	703	5 672	26 255	21 956	48 253	D
336399	All other motor vehicle parts mfg	6	4	3	597	11 118	491	703	5 672	26 255	21 956	48 253	D
3364	Aerospace product & parts mfg	—	4	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	4	2	f	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	—	3	2	f	D	D	D	D	D	D	D	D
GILROY, CA													
31-33	Manufacturing	1	61	18	2 538	76 698	1 960	3 469	49 176	145 886	256 020	426 853	14 772
311	Food mfg	—	7	3	g	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	—	2	2	g	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	—	2	2	g	D	D	D	D	D	D	D	D
311423	Dried & dehydrated food mfg	—	1	1	g	D	D	D	D	D	D	D	D
GLENDALE, CA													
31-33	Manufacturing	3	329	98	7 280	217 728	5 006	9 783	121 215	511 036	278 745	784 695	30 139
311	Food mfg	7	24	7	855	28 387	331	589	8 906	90 103	37 500	127 597	1 097
3118	Bakeries & tortilla mfg	8	20	5	777	26 222	272	502	7 863	83 378	28 287	111 709	852
31181	Bread & bakery product mfg	8	20	5	777	26 222	272	502	7 863	83 378	28 287	111 709	852
311812	Commercial bakeries ..	8	6	4	f	D	D	D	D	D	D	D	698
315	Apparel mfg	4	46	18	1 081	12 611	913	1 491	9 922	19 255	8 603	27 718	1 785
3152	Cut & sew apparel mfg	4	45	18	g	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	4	29	11	766	8 422	718	1 230	7 392	12 577	2 994	15 539	1 676
315212	Women's, girls', & infants' cut & sew apparel contractors ..	4	29	11	766	8 422	718	1 230	7 392	12 577	2 994	15 539	1 676
323	Printing & related support activities.....	3	60	15	987	34 951	693	1 350	21 240	63 947	34 533	98 280	8 721
3231	Printing & related support activities.....	3	60	15	987	34 951	693	1 350	21 240	63 947	34 533	98 280	8 721
32311	Printing	3	56	12	821	28 454	579	1 191	17 339	54 988	32 967	87 817	8 246
323110	Commercial lithographic printing ..	3	35	10	710	25 582	500	1 077	15 534	50 510	29 949	80 272	7 973
332	Fabricated metal product mfg	—	49	18	1 181	35 741	799	1 589	21 707	73 935	26 438	99 468	3 567
334	Computer & electronic product mfg	3	25	12	1 109	50 447	737	1 779	27 601	129 195	54 876	181 628	8 761
3344	Semiconductor & other electronic component mfg	—	9	4	582	25 236	440	1 260	17 852	55 433	26 218	80 843	2 259
33441	Semiconductor & other electronic component mfg	—	9	4	582	25 236	440	1 260	17 852	55 433	26 218	80 843	2 259
339	Miscellaneous mfg	2	51	7	566	10 223	445	1 012	6 240	20 716	27 475	48 015	715
3399	Other miscellaneous mfg ..	1	32	7	503	8 299	398	942	5 289	15 848	25 047	40 638	483

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
GLENDORA, CA													
31-33	Manufacturing	1	53	11	1 321	49 344	877	1 312	21 964	131 403	60 826	194 408	6 370
339	Miscellaneous mfg	-	11	3	696	27 434	489	625	13 985	90 631	25 986	120 417	D
3391	Medical equipment & supplies mfg	-	5	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	5	1	f	D	D	D	D	D	D	D	D
339114	Dental equipment & supplies mfg	-	1	1	f	D	D	D	D	D	D	D	D
GRASS VALLEY, CA													
31-33	Manufacturing	2	62	14	1 041	30 654	622	1 160	14 625	62 233	40 008	100 975	5 755
HANFORD, CA													
31-33	Manufacturing	-	27	7	1 672	62 626	1 412	2 985	48 513	113 947	261 163	376 296	17 773
311	Food mfg	-	5	1	581	18 744	505	1 061	14 903	18 074	106 317	123 578	D
3114	Fruit & vegetable preserving & specialty food mfg	-	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	-	1	1	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	1	1	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32621	Tire mfg	-	1	1	f	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	1	1	f	D	D	D	D	D	D	D	D
HAWTHORNE, CA													
31-33	Manufacturing	1	114	39	5 719	234 586	3 831	7 737	116 736	793 906	415 686	1 006 572	27 338
334	Computer & electronic product mfg	-	8	6	1 271	76 503	843	1 741	31 691	131 702	126 602	255 677	6 605
3345	Navigational, measuring, medical, & control instruments mfg	-	4	3	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	4	3	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	-	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	7	3	593	13 403	438	912	6 532	37 822	16 431	55 498	600
336	Transportation equipment mfg	-	5	3	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	-	2	2	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	2	2	g	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
HAYWARD, CA													
31-33	Manufacturing	1	385	151	11 817	430 090	7 948	15 496	226 814	1 036 271	1 280 282	2 287 233	90 686
311	Food mfg	3	29	19	1 574	38 302	1 187	2 248	23 167	131 684	122 931	251 540	6 143
3116	Meat product mfg	7	3	3	513	12 140	426	794	8 875	46 444	47 468	92 990	D
31161	Animal slaughtering & processing	7	3	3	513	12 140	426	794	8 875	46 444	47 468	92 990	D
3118	Bakeries & tortilla mfg	2	16	10	737	14 647	508	950	9 178	36 916	30 635	65 791	1 222
31181	Bread & bakery product mfg	2	11	8	580	11 442	420	781	7 566	27 483	24 859	50 606	902
311812	Commercial bakeries	2	10	7	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	35	6	568	18 441	411	730	11 990	36 013	25 674	61 332	2 392
3231	Printing & related support activities	1	35	6	568	18 441	411	730	11 990	36 013	25 674	61 332	2 392
32311	Printing	1	34	6	f	D	D	D	D	D	D	D	D
325	Chemical mfg	2	23	7	514	23 647	297	657	11 026	49 133	196 626	245 788	6 096

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
HAYWARD, CA—Con.													
31-33	Manufacturing—Con.												
326	Plastics & rubber products mfg	3	31	18	1 279	34 195	968	1 919	20 704	97 177	86 194	183 599	6 638
3261	Plastics product mfg	3	29	17		D	D	D	D	D	D	D	D
32619	Other plastics product mfg	4	18	8	785	20 064	598	1 201	12 321	68 911	43 997	112 242	4 206
326199	All other plastics product mfg	4	18	8	785	20 064	598	1 201	12 321	68 911	43 997	112 242	4 206
332	Fabricated metal product mfg	—	101	33	2 285	87 862	1 799	3 511	58 123	156 159	205 907	359 967	16 539
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	48	10	631	24 237	503	969	14 862	44 628	21 889	65 608	4 169
33271	Machine shops	1	42	7	523	20 281	425	805	12 416	33 118	15 302	47 669	2 361
332710	Machine shops	1	42	7	523	20 281	425	805	12 416	33 118	15 302	47 669	2 361
333	Machinery mfg	—	33	13	1 388	77 253	562	1 121	24 177	156 595	146 839	293 154	24 454
3332	Industrial machinery mfg ..	—	5	2	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	—	5	2	f	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg	—	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	1	37	19	1 320	55 187	764	1 526	21 123	115 773	109 956	220 184	13 506
336	Transportation equipment mfg	—	9	3	f	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	—	1	1	f	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	—	1	1	f	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	—	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	24	8	521	14 367	257	453	6 831	18 197	22 542	40 763	3 332
HEALDSBURG, CA													
31-33	Manufacturing	4	50	15	850	24 794	550	1 015	13 275	56 452	42 594	97 253	4 990
HEMET, CA													
31-33	Manufacturing	—	25	7	972	19 889	821	816	11 726	69 079	36 173	106 544	2 372
334	Computer & electronic product mfg	—	3	2	f	D	D	D	D	D	D	D	D
HERCULES, CA													
31-33	Manufacturing	—	6	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	3	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	—	2	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	—	2	2	f	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument mfg	—	2	2	f	D	D	D	D	D	D	D	D
HESPERIA, CA													
31-33	Manufacturing	1	66	16	1 212	26 301	1 007	1 821	17 373	68 444	99 245	157 555	3 536
HOLLISTER, CA													
31-33	Manufacturing	1	49	15	1 346	39 691	1 013	2 014	24 326	105 640	127 407	231 075	4 917

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	HUNTINGTON BEACH, CA												
	Manufacturing	1	417	105	14 927	594 767	8 714	18 068	246 836	906 253	1 227 188	2 377 270	109 149
326	Plastics & rubber products mfg	4	31	15	2 418	50 054	1 843	3 944	32 277	207 842	110 375	316 007	10 761
3261	Plastics product mfg	4	25	12	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	4	23	11	g	D	D	D	D	D	D	D	10 428
326199	All other plastics product mfg	4	22	11	2 266	46 192	1 726	3 740	29 795	199 457	104 777	302 144	10 428
332	Fabricated metal product mfg	1	97	26	1 740	67 655	1 322	2 899	42 085	130 843	63 404	195 655	9 718
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	57	11	802	35 969	617	1 359	23 596	59 932	20 800	81 961	5 177
33271	Machine shops	1	52	9	707	32 451	538	1 191	21 077	54 719	19 227	75 058	4 966
332710	Machine shops	1	52	9	707	32 451	538	1 191	21 077	54 719	19 227	75 058	4 966
333	Machinery mfg	3	48	10	648	25 081	454	850	12 882	54 591	41 352	95 116	2 738
334	Computer & electronic product mfg	2	42	16	918	28 188	566	1 064	12 556	55 663	37 218	91 235	D
3344	Semiconductor & other electronic component mfg	2	19	10	535	16 504	323	590	7 021	32 386	22 099	52 207	D
33441	Semiconductor & other electronic component mfg	2	19	10	535	16 504	323	590	7 021	32 386	22 099	52 207	D
336	Transportation equipment mfg	-	20	5	i	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	-	6	2	i	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	6	2	i	D	D	D	D	D	D	D	D
336414	Guided missile & space vehicle mfg ...	-	1	1	i	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	3	50	9	689	18 675	492	900	9 323	51 226	38 724	91 707	2 695
	HUNTINGTON PARK, CA												
31-33	Manufacturing	3	163	62	5 042	133 452	3 908	7 347	86 494	301 720	268 852	575 391	21 030
315	Apparel mfg	3	56	22	1 835	36 619	1 455	2 562	24 706	89 392	96 905	185 919	2 553
3152	Cut & sew apparel mfg	3	51	19	1 638	33 980	1 273	2 249	22 478	85 065	95 474	180 161	2 396
31521	Cut & sew apparel contractors	7	32	10	573	6 769	505	843	5 732	10 985	2 929	13 859	381
315212	Women's, girls' & infants' cut & sew apparel contractors ..	7	31	10	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	2	16	8	997	26 445	705	1 313	16 068	72 598	91 904	164 180	1 915
332	Fabricated metal product mfg	1	31	10	814	25 767	606	1 180	18 094	53 938	32 459	86 462	3 123
	INDUSTRY, CA *												
31-33	Manufacturing	1	308	199	25 655	815 843	18 319	37 167	443 881	2 335 206	2 564 624	4 888 391	156 472
311	Food mfg	3	43	29	3 250	107 816	2 303	4 694	52 478	318 943	669 591	985 493	21 721
3115	Dairy product mfg	6	7	5	1 060	43 072	559	1 092	11 759	119 212	235 347	351 131	12 396
31151	Dairy product (except frozen) mfg	6	6	5	g	D	D	D	D	D	D	D	D
311511	Fluid milk mfg	7	4	4	f	D	D	D	D	D	D	D	12 232
3116	Meat product mfg	2	4	4	540	15 971	432	920	11 144	26 340	158 851	185 392	2 196
31161	Animal slaughtering & processing	2	4	4	540	15 971	432	920	11 144	26 340	158 851	185 392	2 196
3119	Other food mfg	1	12	8	737	19 047	617	1 295	11 010	75 839	80 654	156 488	2 786
31199	All other food mfg	1	7	5	565	13 865	505	1 052	8 052	53 440	50 902	104 310	1 416
314	Textile product mills	9	1	1	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills	9	1	1	f	D	D	D	D	D	D	D	D
31411	Carpet & rug mills	9	1	1	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills	9	1	1	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	INDUSTRY, CA *—Con.												
	Manufacturing—Con.												
315	Apparel mfg	-	23	9	1 700	44 247	1 270	2 448	19 229	123 544	91 480	211 971	1 454
3152	Cut & sew apparel mfg	-	18	8	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	5	3	f	D	D	D	D	D	D	D	713
315232	Women's & girls' cut & sew blouse & shirt mfg	-	3	2	f	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg	-	3	1	f	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	-	3	1	f	D	D	D	D	D	D	D	D
315999	Other apparel accessories & other apparel mfg	-	3	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg	1	6	4	537	12 652	307	671	5 624	30 916	19 273	49 751	755
3219	Other wood product mfg ...	1	6	4	537	12 652	307	671	5 624	30 916	19 273	49 751	755
322	Paper mfg	2	14	14	1 484	51 581	1 080	2 348	32 815	127 658	184 568	310 514	7 723
3222	Converted paper product mfg	2	13	13	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	2	8	8	873	35 963	678	1 505	23 315	86 692	125 740	212 201	5 033
322211	Corrugated & solid fiber box mfg	3	5	5	639	26 230	484	1 104	16 422	67 177	109 084	175 975	D
323	Printing & related support activities	-	19	7	692	21 443	531	1 117	13 953	49 921	41 216	91 193	6 065
3231	Printing & related support activities	-	19	7	692	21 443	531	1 117	13 953	49 921	41 216	91 193	6 065
32311	Printing	-	18	6	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	10	5	573	17 099	442	952	11 464	39 503	36 085	76 062	5 336
325	Chemical mfg	1	22	19	1 987	71 713	1 167	2 233	32 526	351 525	269 200	634 855	18 173
3256	Soap, cleaning compound, & toilet preparation mfg ..	1	9	8	1 212	41 761	710	1 367	18 542	260 588	155 552	428 641	10 858
32562	Toilet preparation mfg ...	1	5	5	1 041	34 594	634	1 265	15 513	200 554	133 358	346 656	8 992
325620	Toilet preparation mfg .	1	5	5	1 041	34 594	634	1 265	15 513	200 554	133 358	346 656	8 992
3259	Other chemical product mfg	-	6	5	519	19 985	308	596	9 434	57 096	72 095	130 528	3 396
326	Plastics & rubber products mfg	1	21	17	2 935	84 854	2 321	4 972	53 593	226 447	212 020	436 159	20 791
3261	Plastics product mfg	-	16	13	2 475	72 860	1 964	4 274	46 004	200 029	182 402	380 027	19 235
32611	Unsupported plastics film, sheet, & bag mfg ..	2	4	4	f	D	D	D	D	D	D	D	D
32616	Plastics bottle mfg	-	1	1	f	D	D	D	D	D	D	D	D
326160	Plastics bottle mfg	-	1	1	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	10	7	1 292	39 536	1 079	2 306	26 356	118 076	78 593	195 898	6 942
326199	All other plastics product mfg	-	10	7	1 292	39 536	1 079	2 306	26 356	118 076	78 593	195 898	6 942
327	Nonmetallic mineral product mfg	1	10	6	854	25 870	686	1 342	18 974	94 378	47 722	141 560	7 881
331	Primary metal mfg	-	15	11	1 351	42 431	956	2 330	27 236	147 363	160 313	304 122	7 674
3315	Foundries	-	8	7	786	20 252	590	1 371	14 085	71 132	39 375	110 554	2 571
33152	Nonferrous metal foundries	-	6	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	45	30	3 357	119 561	2 387	4 728	67 480	260 041	215 534	470 496	19 288
3325	Hardware mfg	-	6	6	510	16 235	388	591	8 234	38 022	33 324	71 001	1 358
33251	Hardware mfg	-	6	6	510	16 235	388	591	8 234	38 022	33 324	71 001	1 358
332510	Hardware mfg	-	6	6	510	16 235	388	591	8 234	38 022	33 324	71 001	1 358
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	18	10	1 249	51 012	759	1 699	26 961	97 181	81 057	172 826	12 579
33272	Turned product & screw, nut, & bolt mfg	-	6	5	929	37 868	527	1 288	18 325	68 075	69 432	134 694	6 796
332722	Bolt, nut, screw, rivet, & washer mfg	-	4	3	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	3	2	f	D	D	D	D	D	D	D	3 026
333	Machinery mfg	1	17	11	810	31 176	571	1 172	16 514	62 337	97 528	160 197	3 485

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	INDUSTRY, CA *—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg.....	-	12	6	1 092	37 118	692	1 230	19 211	104 287	64 619	171 274	16 561
3345	Navigational, measuring, medical, & control instruments mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
334513	Industrial process control instrument mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	-	9	7	1 453	43 675	1 097	2 347	26 502	154 168	156 667	307 826	8 425
3351	Electric lighting equipment mfg.....	-	7	5	f	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg.....	-	7	5	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	2	7	5	815	25 406	493	724	9 845	39 455	59 147	93 154	4 825
337	Furniture & related product mfg.....	-	26	18	1 690	37 133	1 263	2 250	21 458	114 696	115 855	228 913	3 374
3371	Household & institutional furniture & kitchen cabinet mfg.....	-	16	10	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg.....	-	15	10	839	20 155	625	1 275	11 787	58 319	61 562	118 844	1 231
3372	Office furniture (including fixtures) mfg.....	1	7	5	561	9 439	412	574	4 920	34 829	34 644	69 039	1 132
33721	Office furniture (including fixtures) mfg.....	1	7	5	561	9 439	412	574	4 920	34 829	34 644	69 039	1 132
339	Miscellaneous mfg.....	1	11	4	779	26 688	535	1 187	11 754	50 575	61 433	112 108	D
3399	Other miscellaneous mfg..	1	8	4	f	D	D	D	D	D	D	D	D
	INGLEWOOD, CA												
31-33	Manufacturing	-	74	21	2 554	79 653	1 800	3 381	45 530	204 869	182 515	384 319	11 047
311	Food mfg.....	-	8	4	819	17 658	651	898	11 712	38 709	80 340	119 223	1 681
332	Fabricated metal product mfg.....	-	18	5	593	20 376	388	803	12 823	53 895	35 575	86 466	921
	IRVINE, CA												
31-33	Manufacturing	1	479	250	34 067	1 318 985	21 417	45 824	589 803	4 143 406	4 460 719	8 500 571	627 255
311	Food mfg.....	-	17	8	794	23 960	662	1 640	17 536	121 976	259 968	388 208	26 549
314	Textile product mills.....	-	10	8	788	14 492	584	1 222	9 857	53 826	71 619	129 742	D
3141	Textile furnishings mills....	-	5	4	599	11 050	422	961	7 756	47 321	65 818	117 499	D
315	Apparel mfg.....	-	15	9	2 219	55 944	1 506	3 019	30 821	168 150	189 209	357 112	14 565
3152	Cut & sew apparel mfg....	-	14	9	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg.....	-	6	6	1 827	42 555	1 430	2 893	29 434	142 425	153 291	294 170	D
315233	Women's & girls' cut & sew dress mfg.....	-	3	3	g	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	3	76	22	1 737	65 965	1 248	2 477	36 808	119 687	75 229	194 741	16 591
3231	Printing & related support activities.....	3	76	22	1 737	65 965	1 248	2 477	36 808	119 687	75 229	194 741	16 591
32311	Printing.....	3	70	21	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing..	3	35	12	943	40 390	629	1 318	22 239	82 968	54 789	137 972	13 219
325	Chemical mfg.....	1	24	12	2 190	115 393	1 565	3 526	43 689	439 675	183 992	632 800	41 642
3254	Pharmaceutical & medicine mfg.....	-	9	8	1 936	107 001	1 382	3 254	38 786	403 940	154 165	567 335	39 349
32541	Pharmaceutical & medicine mfg.....	-	9	8	1 936	107 001	1 382	3 254	38 786	403 940	154 165	567 335	39 349
325412	Pharmaceutical preparation mfg.....	1	7	6	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	-	22	15	1 500	30 332	1 204	2 383	21 363	110 870	80 803	193 409	3 083
3261	Plastics product mfg.....	-	20	13	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg.....	-	13	9	1 168	22 517	959	1 926	16 292	95 628	61 232	158 306	2 365
326199	All other plastics product mfg.....	1	12	8	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	IRVINE, CA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg	-	39	24	1 857	75 848	1 194	2 372	37 973	169 901	104 247	262 377	7 135
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	18	7	506	17 896	414	762	12 333	43 000	13 012	54 995	3 094
333	Machinery mfg	-	28	20	3 099	138 458	1 564	3 496	51 752	280 737	214 851	474 447	29 430
3333	Commercial & service industry machinery mfg ..	-	6	5	899	42 841	402	838	10 822	79 119	75 234	154 532	11 997
33331	Commercial & service industry machinery mfg	-	6	5	899	42 841	402	838	10 822	79 119	75 234	154 532	11 997
3339	Other general-purpose machinery mfg	-	10	7	1 391	61 219	723	1 621	25 231	102 801	75 280	159 768	5 136
33399	All other general-purpose machinery mfg	-	8	5	g	D	D	D	D	D	D	D	D
333995	Fluid power cylinder & actuator mfg	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	1	119	66	10 466	420 518	6 141	13 700	172 248	1 534 363	2 409 398	3 871 859	419 542
3341	Computer & peripheral equipment mfg	1	33	17	2 788	124 518	1 369	3 797	39 489	562 495	1 830 121	2 339 206	D
33411	Computer & peripheral equipment mfg	1	33	17	2 788	124 518	1 369	3 797	39 489	562 495	1 830 121	2 339 206	D
334111	Electronic computer mfg	1	8	6	1 394	59 622	921	2 961	26 979	455 941	1 587 455	1 984 890	D
334119	Other computer peripheral equipment mfg	1	17	7	1 034	47 825	355	609	9 847	60 330	157 989	223 056	D
3342	Communications equipment mfg	3	10	6	1 161	55 638	625	1 349	18 195	142 049	99 790	237 736	10 650
33421	Telephone apparatus mfg	7	5	3	638	21 427	319	726	7 296	50 873	35 303	85 492	D
334210	Telephone apparatus mfg	7	5	3	638	21 427	319	726	7 296	50 873	35 303	85 492	D
3344	Semiconductor & other electronic component mfg	2	41	23	4 271	142 790	2 690	5 390	60 939	469 770	291 589	748 697	93 597
33441	Semiconductor & other electronic component mfg	2	41	23	4 271	142 790	2 690	5 390	60 939	469 770	291 589	748 697	93 597
334412	Bare printed circuit board mfg	-	10	5	1 431	33 367	1 290	2 653	26 747	132 423	66 370	193 954	D
334413	Semiconductor & related device mfg ...	8	4	3	f	D	D	D	D	D	D	D	D
334417	Electronic connector mfg	1	3	2	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	-	10	8	657	30 514	230	434	4 675	78 228	107 702	185 768	4 153
334419	Other electronic component mfg	-	13	5	991	37 413	615	1 169	12 305	108 239	70 561	173 278	7 660
3345	Navigational, measuring, medical, & control instruments mfg	2	30	17	1 613	78 355	952	2 061	41 055	283 232	136 211	416 338	8 716
33451	Navigational, measuring, medical, & control instruments mfg	2	30	17	1 613	78 355	952	2 061	41 055	283 232	136 211	416 338	8 716
334515	Electricity measuring & testing instrument mfg	4	8	6	501	25 620	290	694	11 863	80 164	91 929	172 607	3 512
3346	Mfg & reproducing magnetic & optical media ..	-	3	2	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media	-	3	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	15	11	947	42 276	530	1 190	15 141	110 502	113 317	219 171	3 816
3359	Other electrical equipment & component mfg	-	8	6	676	29 211	418	977	12 586	77 114	85 164	161 948	2 856
33599	All other electrical equipment & component mfg	-	7	5	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	14	10	1 708	56 963	969	2 158	27 652	151 203	150 249	296 379	14 457
3363	Motor vehicle parts mfg ...	1	7	6	1 153	34 850	733	1 738	19 284	103 306	120 157	217 028	D
33632	Motor vehicle electrical & electronic equipment mfg	2	4	3	669	20 624	391	979	11 139	58 838	35 328	87 425	D
336322	Other motor vehicle electrical & electronic equipment mfg	1	3	3	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	11	7	800	24 737	641	1 487	15 650	64 301	47 757	111 235	1 282

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
IRVINE, CA—Con.													
31-33	Manufacturing—Con.												
339	Miscellaneous mfg.....	-	69	29	5 281	227 839	3 056	5 961	89 758	761 712	492 237	1 244 917	43 599
3391	Medical equipment & supplies mfg.....	-	47	21	4 673	210 324	2 682	5 298	82 093	724 830	452 709	1 168 556	41 559
33911	Medical equipment & supplies mfg.....	-	47	21	4 673	210 324	2 682	5 298	82 093	724 830	452 709	1 168 556	41 559
339111	Laboratory apparatus & furniture mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg.....	1	20	6	1 027	39 654	558	994	14 917	59 294	63 089	122 358	5 055
339113	Surgical appliance & supplies mfg.....	-	12	7	2 135	92 442	1 372	2 669	37 763	368 762	274 992	642 599	23 602
339114	Dental equipment & supplies mfg.....	-	4	3	504	24 959	344	794	15 685	167 262	43 691	203 996	D
3399	Other miscellaneous mfg..	-	22	8	608	17 515	374	663	7 665	36 882	39 528	76 361	2 040
KING CITY, CA													
31-33	Manufacturing	-	6	4	806	24 488	650	1 476	17 295	67 039	75 959	146 230	D
311	Food mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying.....	-	1	1	f	D	D	D	D	D	D	D	D
311423	Dried & dehydrated food mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
KINGSBURG, CA													
31-33	Manufacturing	-	8	4	728	20 886	643	1 204	16 484	151 536	110 482	262 947	3 291
LAFAYETTE, CA													
31-33	Manufacturing	-	29	4	f	D	D	D	D	D	D	D	2 801
LAGUNA HILLS, CA													
31-33	Manufacturing	3	71	13	782	26 540	541	918	12 972	59 032	38 043	97 716	3 677
LA HABRA, CA													
31-33	Manufacturing	2	87	17	1 371	39 394	979	1 872	23 138	95 388	58 714	155 026	4 633
LAKE ELSINORE, CA													
31-33	Manufacturing	5	53	12	778	17 693	652	1 039	11 994	36 935	24 216	60 977	2 098
LAKE FOREST, CA													
31-33	Manufacturing	1	63	21	1 508	53 884	869	1 662	22 423	161 562	120 464	279 158	13 479
LA MIRADA, CA													
31-33	Manufacturing	2	74	39	4 323	132 111	3 489	6 694	89 734	360 387	397 217	757 039	31 977
326	Plastics & rubber products mfg.....	1	9	8	774	22 686	637	1 304	16 521	81 794	84 172	167 990	5 991
3261	Plastics product mfg.....	1	9	8	774	22 686	637	1 304	16 521	81 794	84 172	167 990	5 991
333	Machinery mfg.....	1	9	5	555	17 937	406	839	10 629	41 729	57 709	99 355	9 312
336	Transportation equipment mfg.....	-	4	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg...	-	2	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg.....	9	4	3	868	12 037	756	867	8 875	32 520	29 162	61 116	D
3371	Household & institutional furniture & kitchen cabinet mfg.....	9	4	3	868	12 037	756	867	8 875	32 520	29 162	61 116	D
33712	Household & institutional furniture mfg.....	9	4	3	868	12 037	756	867	8 875	32 520	29 162	61 116	D
337122	Nonupholstered wood household furniture mfg.....	9	2	2	f	D	D	D	D	D	D	D	D

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LANCASTER, CA													
31-33	Manufacturing	2	50	6	845	15 253	656	1 126	10 698	56 845	22 167	79 029	2 442
323	Printing & related support activities.....	-	9	1	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	-	9	1	f	D	D	D	D	D	D	D	D
32311	Printing	-	9	1	f	D	D	D	D	D	D	D	D
LA PALMA, CA													
31-33	Manufacturing	2	16	10	756	28 134	581	1 099	20 576	62 673	107 147	178 905	6 856
LATHROP, CA													
31-33	Manufacturing	-	12	7	1 122	42 403	870	1 754	29 750	177 945	131 771	303 759	5 274
327	Nonmetallic mineral product mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
LA VERNE, CA													
31-33	Manufacturing	1	43	16	1 062	34 973	791	1 733	20 682	105 763	82 730	188 649	5 975
LIVERMORE, CA													
31-33	Manufacturing	2	112	36	2 897	89 657	2 030	3 936	52 649	210 999	288 725	499 476	34 734
332	Fabricated metal product mfg.....	4	33	8	637	19 665	458	840	11 908	44 557	25 735	70 345	2 490
LIVINGSTON, CA													
31-33	Manufacturing	-	3	3	g	D	D	D	D	D	D	D	D
311	Food mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	1	1	g	D	D	D	D	D	D	D	D
311615	Poultry processing.....	-	1	1	g	D	D	D	D	D	D	D	D
LODI, CA													
31-33	Manufacturing	2	99	28	3 149	88 589	2 644	5 057	65 115	220 170	257 120	475 314	12 731
311	Food mfg.....	-	9	3	g	D	D	D	D	D	D	D	3 798
3114	Fruit & vegetable preserving & specialty food mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying.....	-	2	1	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning.....	-	2	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	5	19	8	712	22 273	562	1 116	15 309	43 267	89 315	129 748	2 432

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LONG BEACH, CA													
31-33	Manufacturing	-	332	92	27 548	1 400 338	15 443	27 299	557 327	2 238 957	5 775 775	8 786 935	134 711
332	Fabricated metal product mfg	1	58	18	1 127	39 377	824	1 621	21 228	84 636	77 980	159 631	9 364
334	Computer & electronic product mfg	1	14	6	1 199	38 971	739	1 590	20 527	128 927	104 459	234 042	5 166
3345	Navigational, measuring, medical, & control instruments mfg	-	5	2	f	D	D	D	D	D	D	D	3 605
33451	Navigational, measuring, medical, & control instruments mfg	-	5	2	f	D	D	D	D	D	D	D	3 605
334512	Automatic environmental control mfg	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	27	14	j	D	D	D	D	D	D	D	104 298
3362	Motor vehicle body & trailer mfg	-	4	4	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	-	4	4	f	D	D	D	D	D	D	D	D
336211	Motor vehicle body mfg	-	3	3	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	-	9	6	j	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	9	6	j	D	D	D	D	D	D	D	D
336411	Aircraft mfg	-	4	4	j	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	-	2	1	f	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	-	2	1	f	D	D	D	D	D	D	D	D
336992	Military armored vehicle, tank, & tank component mfg	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	4	36	7	579	16 073	418	793	9 141	32 159	20 607	52 811	1 273
LOS ALAMITOS, CA													
31-33	Manufacturing	1	63	14	2 048	73 489	1 395	3 109	39 577	144 112	120 442	262 477	7 942
323	Printing & related support activities	-	11	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	11	2	f	D	D	D	D	D	D	D	D
32311	Printing	-	11	2	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	-	6	2	f	D	D	D	D	D	D	D	D
LOS ANGELES, CA													
31-33	Manufacturing	2	7 222	1 981	186 758	5 302 781	137 467	249 815	2 909 901	14 314 915	13 140 668	27 378 162	1 000 445
311	Food mfg	1	416	105	12 365	348 685	8 646	15 995	200 621	1 059 433	1 390 128	2 449 979	69 949
3112	Grain & oilseed milling	-	9	6	501	20 396	334	685	13 554	78 087	170 671	249 893	D
3113	Sugar & confectionery product mfg	-	13	4	f	D	D	D	D	D	D	D	11 511
31133	Confectionery mfg from purchased chocolate	-	6	2	f	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate	-	6	2	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	2	19	7	878	25 899	787	1 302	13 321	87 143	82 197	169 009	9 037
31141	Frozen food mfg	-	8	3	627	16 395	605	933	7 406	51 083	45 781	96 990	D
311412	Frozen specialty food mfg	-	7	2	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg	1	10	4	807	29 745	437	870	15 118	71 761	229 067	301 023	D
31151	Dairy product (except frozen) mfg	1	7	4	793	29 528	426	859	14 955	70 866	227 678	298 739	2 566
311511	Fluid milk mfg	-	4	2	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	1	25	9	726	18 892	526	890	9 219	64 157	87 680	150 966	3 805
31161	Animal slaughtering & processing	1	25	9	726	18 892	526	890	9 219	64 157	87 680	150 966	3 805
3117	Seafood product preparation & packaging	-	27	9	1 474	35 484	1 225	2 189	23 169	73 710	229 265	302 591	5 578
31171	Seafood product preparation & packaging	-	27	9	1 474	35 484	1 225	2 189	23 169	73 710	229 265	302 591	5 578
311711	Seafood canning	-	9	4	f	D	D	D	D	D	D	D	D
311712	Fresh & frozen seafood processing	-	18	5	f	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	LOS ANGELES, CA—Con.												
	Manufacturing—Con.												
311	Food mfg—Con.												
3118	Bakeries & tortilla mfg.....	1	257	41	5 149	130 241	3 098	5 495	67 293	324 705	201 660	526 346	17 865
31181	Bread & bakery product mfg.....	1	231	30	4 446	115 112	2 546	4 479	57 869	289 831	174 007	463 371	14 952
311811	Retail bakeries.....	5	177	15	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries.....	1	52	14	3 135	96 031	1 647	3 310	47 779	244 520	115 685	360 224	10 572
3119	Other food mfg.....	1	52	24	1 651	50 883	1 187	2 429	30 501	204 340	241 593	445 808	9 385
31199	All other food mfg.....	2	26	12	678	16 178	494	1 091	9 270	35 988	35 460	71 400	3 050
312	Beverage & tobacco product mfg.....	—	13	6	g	D	D	D	D	D	D	D	D
3121	Beverage mfg.....	—	13	6	g	D	D	D	D	D	D	D	D
31212	Breweries.....	—	2	1	g	D	D	D	D	D	D	D	D
312120	Breweries.....	—	2	1	g	D	D	D	D	D	D	D	D
313	Textile mills.....	4	148	37	2 664	64 194	2 176	4 369	42 272	172 204	165 120	331 679	13 804
3132	Fabric mills.....	5	50	11	828	15 582	722	1 360	11 388	29 255	30 249	59 311	2 523
3133	Textile & fabric finishing & fabric coating mills.....	3	91	24	g	D	D	D	D	D	D	D	8 385
31331	Textile & fabric finishing mills.....	3	86	22	1 606	40 966	1 276	2 628	26 230	122 894	113 387	230 832	D
313311	Broadwoven fabric finishing mills.....	3	67	12	792	20 759	591	1 185	11 563	71 461	74 163	141 623	D
313312	Textile & fabric finishing mills.....	3	19	10	814	20 207	685	1 443	14 667	51 433	39 224	89 209	4 452
314	Textile product mills.....	3	243	56	4 917	84 896	4 053	6 889	53 889	170 441	200 143	366 849	11 891
3141	Textile furnishings mills.....	2	75	14	1 234	22 992	994	1 876	16 155	59 345	96 500	155 772	2 139
31412	Curtain & linen mills.....	2	72	13	1 163	20 966	937	1 766	14 829	55 997	92 194	147 758	2 003
314129	Other household textile product mills.....	2	31	10	858	15 868	756	1 448	12 664	46 770	83 352	129 242	1 840
3149	Other textile product mills.....	4	168	42	3 683	61 904	3 059	5 013	37 734	111 096	103 643	211 077	9 752
31491	Textile bag & canvas mills.....	2	53	8	1 443	26 268	1 209	1 948	12 742	43 504	45 940	85 675	1 175
314911	Textile bag mills.....	—	16	3	1 103	18 599	962	1 532	8 622	30 039	35 664	61 863	406
31499	All other textile product mills.....	5	115	34	2 240	35 636	1 850	3 065	24 992	67 592	57 703	125 402	8 577
314999	All other miscellaneous textile product mills ..	5	114	34	g	D	D	D	D	D	D	D	D
315	Apparel mfg.....	2	2 396	705	51 314	856 791	43 583	71 519	587 965	2 209 660	2 249 583	4 413 402	112 048
3151	Apparel knitting mills.....	2	39	16	930	16 581	786	1 508	10 225	32 274	50 273	81 848	1 935
31519	Other apparel knitting mills.....	2	34	15	838	14 707	721	1 378	9 337	28 277	36 043	63 732	D
315191	Outerwear knitting mills.....	2	30	14	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg.....	2	2 222	662	47 763	795 493	40 557	66 277	545 380	2 049 999	2 091 237	4 097 098	104 827
31521	Cut & sew apparel contractors.....	5	1 498	403	25 992	287 343	24 482	37 414	252 622	525 116	143 472	660 641	18 014
315211	Men's & boys' cut & sew apparel contractors.....	2	63	36	2 538	31 823	2 412	4 030	28 608	66 726	8 565	75 134	2 107
315212	Women's, girls', & infants' cut & sew apparel contractors ..	6	1 435	367	23 454	255 520	22 070	33 384	224 014	458 390	134 907	585 507	15 907
31522	Men's & boys' cut & sew apparel mfg.....	4	150	56	4 265	80 158	3 644	6 690	58 969	191 856	189 896	381 559	4 764
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg.....	3	50	22	1 310	27 798	1 081	2 008	18 181	67 756	102 649	168 519	1 628
315224	Men's & boys' cut & sew trouser, slack, & jean mfg.....	2	30	15	g	D	D	D	D	D	D	D	1 014
315228	Men's & boys' cut & sew other outerwear mfg.....	6	39	9	965	19 724	802	1 681	15 491	54 965	38 970	96 032	1 824
31523	Women's & girls' cut & sew apparel mfg.....	1	530	190	16 638	411 135	11 701	20 901	222 611	1 301 740	1 728 253	2 993 785	81 008
315231	Women's & girls' cut/ sew lingerie & nightwear mfg.....	3	24	9	780	17 289	647	1 172	10 602	48 577	72 385	119 312	675
315232	Women's & girls' cut & sew blouse & shirt mfg.....	2	159	59	5 186	140 621	3 753	6 453	78 282	408 058	635 424	1 026 219	6 450
315233	Women's & girls' cut & sew dress mfg.....	2	159	60	3 861	95 352	2 724	5 005	50 747	250 525	359 598	610 112	6 107
315234	Women's & girls' cut & sew suit, coat, skirt mfg.....	1	55	20	1 345	29 196	1 030	1 584	17 598	104 912	126 095	225 282	D
315239	Women's & girls' cut & sew other outerwear mfg.....	—	133	42	5 466	128 677	3 547	6 687	65 382	489 668	534 751	1 012 860	D
31529	Other cut & sew apparel mfg.....	6	44	13	868	16 857	730	1 272	11 178	31 287	29 616	61 113	1 041
315299	All other cut & sew apparel mfg.....	9	29	11	661	11 060	551	937	7 338	21 208	19 299	40 896	623

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	LOS ANGELES, CA—Con.												
	Manufacturing—Con.												
315	Apparel mfg—Con.												
3159	Apparel accessories & other apparel mfg	3	135	27	2 621	44 717	2 240	3 734	32 360	127 387	108 073	234 456	5 286
31599	Apparel accessories & other apparel mfg	3	135	27	2 621	44 717	2 240	3 734	32 360	127 387	108 073	234 456	5 286
315993	Men's & boys' neckwear mfg	—	6	3	735	13 326	687	1 230	10 715	60 082	50 965	110 030	D
315999	Other apparel accessories & other apparel mfg	5	112	20	1 472	24 833	1 183	1 848	16 575	55 590	49 882	106 176	3 966
316	Leather & allied product mfg .	2	64	19	1 945	33 234	1 681	3 049	22 114	74 945	58 696	135 070	2 101
3162	Footwear mfg	2	30	9	728	9 215	673	1 161	7 109	18 692	15 627	33 687	D
31621	Footwear mfg	2	30	9	728	9 215	673	1 161	7 109	18 692	15 627	33 687	D
3169	Other leather & allied product mfg	2	28	10	1 172	23 030	969	1 820	14 319	54 029	39 810	96 010	1 832
31699	Other leather & allied product mfg	2	28	10	1 172	23 030	969	1 820	14 319	54 029	39 810	96 010	1 832
316999	All other leather good mfg	4	10	4	583	10 045	479	877	6 287	23 399	25 104	50 602	912
321	Wood product mfg	2	89	26	g	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	2	86	26	g	D	D	D	D	D	D	D	D
32191	Millwork	2	44	12	f	D	D	D	D	D	D	D	D
32199	All other wood product mfg	2	26	9	549	14 552	461	918	10 917	22 886	13 344	36 709	D
321999	All other miscellaneous wood product mfg ...	2	26	9	549	14 552	461	918	10 917	22 886	13 344	36 709	D
322	Paper mfg	2	44	17	1 154	41 868	920	1 847	23 361	76 888	85 360	163 305	D
3222	Converted paper product mfg	2	44	17	1 154	41 868	920	1 847	23 361	76 888	85 360	163 305	D
32221	Paperboard container mfg	4	13	6	545	22 958	445	853	10 763	39 088	37 121	76 540	1 438
323	Printing & related support activities	3	690	121	12 692	433 364	9 057	17 147	261 679	895 686	595 538	1 487 871	62 455
3231	Printing & related support activities	3	690	121	12 692	433 364	9 057	17 147	261 679	895 686	595 538	1 487 871	62 455
32311	Printing	3	608	107	11 712	400 843	8 292	15 725	239 425	837 412	581 919	1 415 953	59 525
323110	Commercial lithographic printing ..	3	293	65	6 563	268 303	4 521	9 501	168 452	564 947	386 874	952 960	43 862
323113	Commercial screen printing	1	80	20	2 717	64 695	2 170	3 574	35 512	131 443	122 708	250 526	6 081
323114	Quick printing	5	135	4	610	13 146	432	624	8 251	28 992	16 946	45 970	2 244
323116	Manifold business form printing	—	8	4	640	20 655	294	561	7 672	54 536	15 858	69 661	191
323119	Other commercial printing	3	43	5	548	15 553	391	662	8 964	20 297	22 717	42 966	1 106
32312	Support activities for printing	2	82	14	980	32 521	765	1 422	22 254	58 274	13 619	71 918	2 930
323122	Prepress services	2	54	10	610	26 239	448	900	17 606	47 109	11 332	58 469	2 646
324	Petroleum & coal products mfg	6	15	8	1 988	114 348	1 281	2 791	71 885	671 442	2 449 068	3 113 689	135 804
3241	Petroleum & coal products mfg	6	15	8	1 988	114 348	1 281	2 791	71 885	671 442	2 449 068	3 113 689	135 804
32411	Petroleum refineries	6	4	4	1 698	101 604	1 064	2 313	62 948	626 014	2 359 944	2 977 077	129 782
324110	Petroleum refineries ..	6	4	4	1 698	101 604	1 064	2 313	62 948	626 014	2 359 944	2 977 077	129 782
325	Chemical mfg	1	169	59	9 337	363 706	5 503	10 444	163 741	1 722 642	1 109 640	2 779 148	116 164
3254	Pharmaceutical & medicine mfg	—	20	13	2 961	131 528	1 695	3 507	69 503	905 995	551 926	1 407 971	68 442
32541	Pharmaceutical & medicine mfg	—	20	13	2 961	131 528	1 695	3 507	69 503	905 995	551 926	1 407 971	68 442
325412	Pharmaceutical preparation mfg	—	10	7	804	35 329	504	1 016	18 145	415 443	99 805	512 305	33 356
325413	In-vitro diagnostic substance mfg	—	2	2	f	D	D	D	D	D	D	D	D
325414	Biological product (except diagnostic) mfg	—	3	2	g	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	2	39	11	873	33 212	456	879	11 481	99 528	112 717	210 171	4 243
32551	Paint & coating mfg	2	32	9	790	30 445	405	784	9 996	93 486	101 724	193 097	3 644
325510	Paint & coating mfg ...	2	32	9	790	30 445	405	784	9 996	93 486	101 724	193 097	3 644
3256	Soap, cleaning compound, & toilet preparation mfg ..	1	58	19	3 917	142 451	2 257	3 960	51 861	506 158	271 254	775 962	17 851
32562	Toilet preparation mfg	—	34	15	3 672	134 437	2 117	3 683	47 971	483 173	246 084	727 904	15 809
325620	Toilet preparation mfg .	—	34	15	3 672	134 437	2 117	3 683	47 971	483 173	246 084	727 904	15 809
3259	Other chemical product mfg	2	28	9	892	27 204	681	1 266	15 855	87 622	70 649	158 569	6 143
32599	All other chemical product & preparation mfg	2	23	8	795	22 730	617	1 140	13 666	65 965	62 427	128 663	5 603

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LOS ANGELES, CA—Con.												
31-33	Manufacturing—Con.												
326	Plastics & rubber products mfg	3	151	59	5 484	143 044	4 341	8 673	89 709	312 861	214 908	524 212	22 362
3261	Plastics product mfg	4	125	51	4 766	126 506	3 776	7 455	78 633	273 798	190 129	460 863	21 225
32611	Unsupported plastics film, sheet, & bag mfg ..	2	14	7	588	18 905	455	1 031	12 147	50 057	46 815	96 234	3 069
32619	Other plastics product mfg	5	83	39	3 726	94 306	2 942	5 659	58 110	196 771	115 356	310 182	12 754
326199	All other plastics product mfg	5	80	37	3 586	90 348	2 838	5 502	56 445	189 850	109 836	297 759	12 754
3262	Rubber product mfg	1	26	8	718	16 538	565	1 218	11 076	39 063	24 779	63 349	1 137
32629	Other rubber product mfg	2	17	5	543	11 852	467	985	8 256	29 672	14 562	43 796	865
327	Nonmetallic mineral product mfg	2	129	36	2 144	59 148	1 667	3 283	42 311	150 571	132 626	282 726	13 300
3272	Glass & glass product mfg .	3	36	5	511	12 000	389	791	7 945	23 172	16 998	40 464	2 662
32721	Glass & glass product mfg	3	36	5	511	12 000	389	791	7 945	23 172	16 998	40 464	2 662
3273	Cement & concrete product mfg	1	31	15	758	27 710	594	1 229	21 559	88 624	87 644	175 625	6 632
331	Primary metal mfg	—	42	17	1 526	42 362	1 148	2 357	24 732	142 840	143 551	292 459	7 153
3314	Nonferrous metal (except aluminum) production & processing.....	—	13	3	764	16 986	595	1 282	11 413	103 246	95 021	204 879	3 637
33149	Other nonferrous metal rolling, drawing, extruding, & alloying ...	—	10	3	744	16 471	579	1 259	11 063	101 670	92 114	200 391	3 484
331491	Other nonferrous metal rolling, drawing, & extruding	—	1	1	f	D	D	D	D	D	D	D	D
3315	Foundries	1	25	11	541	16 025	410	822	9 557	30 352	25 040	54 926	2 350
33152	Nonferrous metal foundries	1	25	11	541	16 025	410	822	9 557	30 352	25 040	54 926	2 350
332	Fabricated metal product mfg	1	791	219	18 778	589 799	14 052	27 558	368 742	1 411 991	941 721	2 334 327	79 496
3321	Forging & stamping	—	38	14	839	27 450	605	1 301	16 843	68 714	52 580	119 679	4 198
33211	Forging & stamping	—	38	14	839	27 450	605	1 301	16 843	68 714	52 580	119 679	4 198
332116	Metal stamping	1	31	12	688	20 947	500	1 061	12 764	51 623	34 199	85 181	3 981
3322	Cutlery & handtool mfg	2	27	8	781	18 078	528	899	9 598	49 858	38 460	88 011	2 642
33221	Cutlery & handtool mfg ..	2	27	8	781	18 078	528	899	9 598	49 858	38 460	88 011	2 642
332212	Hand & edge tool mfg .	3	24	7	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	2	114	37	3 787	103 558	2 915	5 730	60 714	223 793	188 680	411 983	9 088
33232	Ornamental & architectural metal products mfg	2	103	34	3 624	97 557	2 790	5 512	57 491	210 841	179 806	390 429	8 786
332321	Metal window & door mfg	—	18	9	1 277	35 892	973	2 131	20 314	90 416	89 925	180 421	1 809
332322	Sheet metal work mfg .	3	65	22	2 081	56 011	1 620	3 071	33 712	108 046	84 098	191 549	6 173
3324	Boiler, tank, & shipping container mfg	—	19	8	687	30 083	529	1 211	21 933	99 129	145 189	245 105	5 677
3325	Hardware mfg	—	17	8	696	17 610	533	946	10 264	42 761	33 473	76 662	1 195
33251	Hardware mfg	—	17	8	696	17 610	533	946	10 264	42 761	33 473	76 662	1 195
332510	Hardware mfg	—	17	8	696	17 610	533	946	10 264	42 761	33 473	76 662	1 195
3326	Spring & wire product mfg .	—	18	6	528	10 711	430	816	7 474	23 979	19 570	43 827	1 146
33261	Spring & wire product mfg	—	18	6	528	10 711	430	816	7 474	23 979	19 570	43 827	1 146
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	347	50	4 354	161 438	3 401	6 637	111 688	310 053	138 076	449 166	26 037
33271	Machine shops	2	293	35	3 175	118 897	2 490	4 770	82 401	230 123	95 140	327 393	17 861
332710	Machine shops	2	293	35	3 175	118 897	2 490	4 770	82 401	230 123	95 140	327 393	17 861
33272	Turned product & screw, nut, & bolt mfg	1	54	15	1 179	42 541	911	1 867	29 287	79 930	42 936	121 773	8 176
332722	Bolt, nut, screw, rivet, & washer mfg	1	14	8	700	27 104	538	1 139	18 859	51 893	31 074	82 291	5 937
3328	Coating, engraving, heat treating, & allied activities .	1	130	60	2 970	75 901	2 400	4 814	50 979	159 813	53 054	212 721	8 472
33281	Coating, engraving, heat treating, & allied activities	1	130	60	2 970	75 901	2 400	4 814	50 979	159 813	53 054	212 721	8 472
332812	Metal coating/ engraving (exc jewelry/silverware)/ allied services	1	27	17	617	17 021	503	981	11 603	43 750	14 472	58 157	3 003
332813	Electroplating, plating, polishing, anodizing, & coloring	1	93	35	2 062	50 046	1 668	3 401	33 492	94 109	33 520	127 440	4 664

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	LOS ANGELES, CA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3329	Other fabricated metal product mfg	—	81	28	4 136	144 970	2 711	5 204	79 249	433 891	272 639	687 173	21 041
33291	Metal valve mfg	—	29	14	2 891	108 335	1 729	3 188	55 776	340 078	225 005	546 283	17 991
332912	Fluid power valve & hose fitting mfg	1	17	6	g	D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting & trim mfg	—	8	6	1 580	50 821	898	1 425	27 404	197 288	152 932	337 697	12 225
33299	All other fabricated metal product mfg	1	52	14	1 245	36 635	982	2 016	23 473	93 813	47 634	140 890	3 050
332999	All other miscellaneous fabricated metal product mfg	2	36	10	711	21 420	537	1 170	13 417	44 078	32 506	76 243	2 624
333	Machinery mfg	1	237	64	5 951	204 435	3 957	7 741	111 561	380 011	419 305	797 189	29 364
3332	Industrial machinery mfg . .	2	27	6	595	18 398	357	608	8 785	32 721	27 052	59 073	1 661
33329	Other industrial machinery mfg	2	21	6	544	16 968	319	537	7 894	28 765	24 430	52 529	D
3333	Commercial & service industry machinery mfg . .	3	57	15	1 327	52 809	901	2 052	29 170	85 063	92 552	177 865	9 746
33331	Commercial & service industry machinery mfg	3	57	15	1 327	52 809	901	2 052	29 170	85 063	92 552	177 865	9 746
333315	Photographic & photocopying equipment mfg	4	23	6	618	29 830	404	1 015	16 846	30 341	47 345	77 221	2 574
3335	Metalworking machinery mfg	—	75	16	1 443	49 211	1 057	1 888	32 185	93 889	159 788	258 408	6 217
33351	Metalworking machinery mfg	—	75	16	1 443	49 211	1 057	1 888	32 185	93 889	159 788	258 408	6 217
3339	Other general-purpose machinery mfg	1	57	18	1 957	63 611	1 202	2 338	32 879	133 368	107 236	233 795	6 606
33399	All other general-purpose machinery mfg	1	39	13	1 387	47 091	859	1 814	25 388	97 640	64 052	153 539	4 728
334	Computer & electronic product mfg	1	304	115	15 117	649 613	8 709	16 469	236 021	1 465 031	721 562	2 184 353	88 457
3341	Computer & peripheral equipment mfg	6	29	15	1 093	53 364	629	1 428	31 471	109 257	98 616	218 808	14 845
33411	Computer & peripheral equipment mfg	6	29	15	1 093	53 364	629	1 428	31 471	109 257	98 616	218 808	14 845
3342	Communications equipment mfg	1	36	17	1 603	63 600	891	1 552	24 450	154 344	137 027	298 105	10 603
33422	Radio & TV broadcasting & wireless communications equipment mfg	1	24	14	1 321	54 481	749	1 335	22 115	123 632	107 458	235 180	9 900
334220	Radio & TV broadcasting & wireless communications equipment mfg	1	24	14	1 321	54 481	749	1 335	22 115	123 632	107 458	235 180	9 900
3343	Audio & video equipment mfg	1	17	5	939	39 337	700	1 150	12 605	65 140	76 307	146 546	4 215
33431	Audio & video equipment mfg	1	17	5	939	39 337	700	1 150	12 605	65 140	76 307	146 546	4 215
334310	Audio & video equipment mfg	1	17	5	939	39 337	700	1 150	12 605	65 140	76 307	146 546	4 215
3344	Semiconductor & other electronic component mfg	2	101	46	5 324	169 510	3 823	7 547	93 445	352 847	159 457	522 364	26 690
33441	Semiconductor & other electronic component mfg	2	101	46	5 324	169 510	3 823	7 547	93 445	352 847	159 457	522 364	26 690
334412	Bare printed circuit board mfg	1	32	11	866	27 823	723	1 512	18 291	52 156	29 376	82 459	2 544
334413	Semiconductor & related device mfg	5	12	6	908	37 888	598	1 112	20 176	100 324	32 133	134 568	14 156
334418	Printed circuit assembly (electronic assembly) mfg	—	6	5	989	29 171	638	1 315	14 303	58 960	14 399	77 602	D
334419	Other electronic component mfg	3	31	14	1 205	37 377	785	1 452	18 892	73 192	48 810	124 707	4 550
3345	Navigational, measuring, medical, & control instruments mfg	—	60	18	5 168	299 317	1 865	3 625	56 923	716 846	210 206	891 457	23 555

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	LOS ANGELES, CA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3345	Navigational, measuring, medical, & control instruments mfg—Con.												
33451	Navigational, measuring, medical, & control instruments mfg	—	60	18	5 168	299 317	1 865	3 625	56 923	716 846	210 206	891 457	23 555
334510	Electromedical & electrotherapeutic apparatus mfg	—	3	1	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	—	12	6	3 113	203 806	881	1 788	34 793	304 605	122 336	402 617	10 063
334513	Industrial process control instrument mfg	—	11	5	564	19 739	349	691	9 066	33 064	20 339	53 996	1 760
3346	Mfg & reproducing magnetic & optical media .	4	61	14	990	24 485	801	1 167	17 127	66 597	39 949	107 073	8 549
33461	Mfg & reproducing magnetic & optical media	4	61	14	990	24 485	801	1 167	17 127	66 597	39 949	107 073	8 549
334612	Prerecorded CD (except software), tape, & record reproducing	3	54	13	902	22 434	729	1 055	15 666	63 085	34 078	97 234	7 269
335	Electrical equipment, appliance, & component mfg	2	120	46	4 545	140 316	3 045	5 661	58 453	316 993	199 395	515 840	15 634
3351	Electric lighting equipment mfg	3	46	19	1 706	46 886	1 040	2 206	20 781	123 622	75 443	196 130	6 686
33512	Lighting fixture mfg	2	45	18	g	D	D	D	D	D	D	D	D
335121	Residential electric lighting fixture mfg . . .	1	19	7	758	12 259	479	1 057	7 447	28 059	18 643	47 268	402
335122	Commercial/industrial/institutional electric lighting fixture mfg . . .	4	13	6	572	21 033	300	648	6 863	68 951	31 440	98 832	4 501
3353	Electrical equipment mfg . .	3	38	11	1 299	38 397	951	1 841	18 533	69 674	51 915	125 351	3 922
33531	Electrical equipment mfg	3	38	11	1 299	38 397	951	1 841	18 533	69 674	51 915	125 351	3 922
3359	Other electrical equipment & component mfg	2	33	15	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	2	22	8	947	42 184	616	990	11 746	97 317	54 707	150 597	2 909
335999	All other miscellaneous electrical equipment & component mfg	2	21	8	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	183	73	13 908	573 718	7 852	15 545	211 226	1 131 016	698 465	1 882 117	70 238
3362	Motor vehicle body & trailer mfg	1	11	5	755	9 948	594	1 010	6 135	19 628	29 915	49 579	D
33621	Motor vehicle body & trailer mfg	1	11	5	755	9 948	594	1 010	6 135	19 628	29 915	49 579	D
336214	Travel trailer & camper mfg	1	4	2	f	D	D	D	D	D	D	D	492
3363	Motor vehicle parts mfg . . .	4	91	32	4 639	127 091	3 692	7 517	81 015	256 864	239 765	497 135	22 490
33632	Motor vehicle electrical & electronic equipment mfg	7	21	8	826	19 735	676	1 258	13 607	40 324	40 602	82 006	3 263
336322	Other motor vehicle electrical & electronic equipment mfg	6	19	7	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	9	5	2	g	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	9	5	2	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	1	25	12	1 826	60 658	1 407	2 898	35 756	129 494	99 157	226 420	7 316
336399	All other motor vehicle parts mfg	1	23	12	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	—	54	23	7 559	409 627	2 786	5 386	105 056	800 978	358 262	1 208 906	44 891
33641	Aerospace product & parts mfg	—	54	23	7 559	409 627	2 786	5 386	105 056	800 978	358 262	1 208 906	44 891
336413	Other aircraft part & auxiliary equipment mfg	1	35	13	1 124	39 907	829	1 338	24 798	93 548	54 366	146 418	D
336415	Guided missile & space vehicle propulsion unit & parts mfg	—	4	3	i	D	D	D	D	D	D	D	D
336419	Other guided missile & space vehicle parts & auxiliary equip mfg . . .	1	6	4	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LOS ANGELES, CA—Con.													
31-33	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3366	Ship & boat building	5	10	6	f	D	D	D	D	D	D	D	1 464
33661	Ship & boat building	5	10	6	f	D	D	D	D	D	D	D	1 464
337	Furniture & related product mfg	1	357	87	8 038	177 937	6 399	11 396	113 519	393 851	321 051	716 401	11 021
3371	Household & institutional furniture & kitchen cabinet mfg	2	256	54	4 921	98 085	3 998	7 314	68 668	201 268	181 901	384 612	5 271
33712	Household & institutional furniture mfg	2	178	49	4 453	88 408	3 614	6 651	61 395	184 410	169 132	355 038	4 621
337121	Upholstered household furniture mfg	1	53	21	1 797	34 270	1 533	2 805	25 233	60 732	69 845	130 206	1 687
337122	Nonupholstered wood household furniture mfg	4	86	20	1 334	21 744	1 122	1 969	16 400	41 162	34 333	74 777	1 444
337127	Institutional furniture mfg	—	12	3	855	23 608	629	1 293	14 640	61 513	45 745	109 897	518
3372	Office furniture (including fixtures) mfg	1	71	25	2 104	56 262	1 737	2 717	32 664	140 461	78 903	218 523	4 163
33721	Office furniture (including fixtures) mfg	1	71	25	2 104	56 262	1 737	2 717	32 664	140 461	78 903	218 523	4 163
337215	Showcase, partition, shelving, & locker mfg	1	33	10	973	25 982	800	1 191	12 940	79 566	38 465	118 095	2 346
3379	Other furniture related product mfg	—	30	8	1 013	23 590	664	1 365	12 187	52 122	60 247	113 266	1 587
33792	Blind & shade mfg	—	13	6	811	19 649	503	1 074	9 801	43 032	49 920	93 835	747
337920	Blind & shade mfg	—	13	6	811	19 649	503	1 074	9 801	43 032	49 920	93 835	747
339	Miscellaneous mfg	3	621	106	9 669	249 179	6 972	12 228	132 635	584 076	436 318	1 029 213	30 119
3391	Medical equipment & supplies mfg	3	159	22	1 844	57 647	1 147	1 931	27 154	126 830	52 161	180 992	6 328
33911	Medical equipment & supplies mfg	3	159	22	1 844	57 647	1 147	1 931	27 154	126 830	52 161	180 992	6 328
339112	Surgical & medical instrument mfg	2	19	4	529	21 430	209	428	6 907	45 652	16 865	63 459	2 383
339116	Dental laboratories ..	4	102	6	548	16 192	400	648	9 344	33 220	10 277	43 991	728
3399	Other miscellaneous mfg ..	3	462	84	7 825	191 532	5 825	10 297	105 481	457 246	384 157	848 221	23 791
33991	Jewelry & silverware mfg	3	243	28	2 890	64 550	2 156	3 245	34 704	186 683	197 378	385 811	5 810
339911	Jewelry (except costume) mfg	2	195	24	2 390	55 204	1 827	2 614	29 367	168 061	185 165	355 448	5 286
33992	Sporting & athletic goods mfg	1	28	6	1 080	29 726	769	1 623	14 864	72 678	35 977	110 321	9 068
339920	Sporting & athletic goods mfg	1	28	6	1 080	29 726	769	1 623	14 864	72 678	35 977	110 321	9 068
33995	Sign mfg	1	61	15	969	27 067	721	1 316	13 412	57 322	29 385	87 083	1 658
339950	Sign mfg	1	61	15	969	27 067	721	1 316	13 412	57 322	29 385	87 083	1 658
33999	All other miscellaneous mfg	4	97	29	2 450	58 495	1 864	3 484	35 774	109 505	95 792	208 539	5 101
339999	All other miscellaneous mfg	6	58	18	1 686	36 518	1 326	2 473	25 032	71 489	64 974	135 874	3 818
LOS BANOS, CA													
31-33	Manufacturing	1	14	7	f	D	D	D	D	D	D	D	D
LOS GATOS, CA													
31-33	Manufacturing	3	61	13	1 055	50 155	731	1 204	19 338	80 486	54 558	136 389	5 673
334	Computer & electronic product mfg	4	25	9	685	37 910	462	705	12 655	57 259	31 626	90 187	3 749
LYNWOOD, CA													
31-33	Manufacturing	2	62	32	2 516	56 647	2 007	3 541	36 297	119 863	170 249	288 952	8 194
332	Fabricated metal product mfg	2	11	8	544	11 870	437	652	6 636	24 323	19 396	43 214	1 765
333	Machinery mfg	6	8	3	507	14 548	316	651	8 932	21 358	30 370	50 391	3 975
337	Furniture & related product mfg	2	11	5	518	11 066	438	870	7 519	15 201	22 747	38 799	291
MADERA, CA													
31-33	Manufacturing	1	38	15	1 260	33 908	863	1 794	19 554	90 532	101 393	190 942	5 951

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MANTECA, CA													
31-33	Manufacturing	2	28	8	1 779	38 406	1 300	2 192	25 527	92 914	116 223	208 194	23 879
311	Food mfg	4	4	2	g	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	9	1	1	f	D	D	D	D	D	D	D	D
31141	Frozen food mfg	9	1	1	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg	9	1	1	f	D	D	D	D	D	D	D	D
MARTINEZ, CA													
31-33	Manufacturing	9	33	7	g	D	D	D	D	D	D	D	D
324	Petroleum & coal products mfg	9	1	1	f	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	9	1	1	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries	9	1	1	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries	9	1	1	f	D	D	D	D	D	D	D	D
MARYSVILLE, CA													
31-33	Manufacturing	—	21	7	587	13 954	496	1 069	10 557	41 157	106 115	148 135	3 017
MAYWOOD, CA													
31-33	Manufacturing	4	31	9	514	9 089	446	727	6 623	19 870	11 657	32 687	603
MENLO PARK, CA													
31-33	Manufacturing	—	78	44	6 371	369 776	3 053	5 309	108 731	950 119	541 632	1 477 966	66 960
326	Plastics & rubber products mfg	—	9	4	h	D	D	D	D	D	D	D	D
3261	Plastics product mfg	—	9	4	h	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	—	8	4	h	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	—	8	4	h	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	1	21	15	1 063	56 245	483	915	21 374	106 758	89 027	195 852	8 422
3345	Navigational, measuring, medical, & control instruments mfg	—	10	6	660	36 214	327	626	17 047	76 510	43 079	117 814	3 973
33451	Navigational, measuring, medical, & control instruments mfg	—	10	6	660	36 214	327	626	17 047	76 510	43 079	117 814	3 973
334511	Search, detection, navigation, & guidance instrument mfg	—	3	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	14	7	859	47 545	379	744	12 265	92 438	41 936	134 508	6 081
3391	Medical equipment & supplies mfg	1	10	5	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	1	10	5	f	D	D	D	D	D	D	D	D
MERCED, CA													
31-33	Manufacturing	1	42	18	2 326	64 256	1 762	3 650	44 906	208 550	256 984	457 299	8 959
323	Printing & related support activities	—	7	2	f	D	D	D	D	D	D	D	D
3231	Printing & 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
323112	Commercial flexographic printing	—	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	5	5	f	D	D	D	D	D	D	D	D

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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MILPITAS, CA													
31-33	Manufacturing	1	202	107	27 550	1 364 643	12 846	29 776	449 537	4 486 657	2 643 471	7 129 621	422 248
332	Fabricated metal product mfg	-	32	13	1 501	60 764	1 220	2 755	40 458	129 796	72 630	203 265	8 611
3328	Coating, engraving, heat treating, & allied activities .	-	3	3	f	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, & allied activities	-	3	3	f	D	D	D	D	D	D	D	D
332813	Electroplating, plating, polishing, anodizing, & coloring	-	3	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg	8	16	4	643	38 190	379	811	17 981	86 750	70 315	156 872	D
334	Computer & electronic product mfg	1	90	62	21 406	1 071 815	9 322	22 559	326 491	3 296 070	2 152 039	5 474 985	383 676
3341	Computer & peripheral equipment mfg	-	15	6	2 202	122 050	849	1 810	36 887	194 571	219 611	411 541	74 575
33411	Computer & peripheral equipment mfg	-	15	6	2 202	122 050	849	1 810	36 887	194 571	219 611	411 541	74 575
334112	Computer storage device mfg	-	6	3	1 709	91 225	653	1 356	31 491	144 345	165 238	307 240	D
3342	Communications equipment mfg	9	7	6	g	D	D	D	D	D	D	D	D
33421	Telephone apparatus mfg	9	5	5	1 704	109 658	207	430	7 081	232 717	118 413	355 504	19 611
334210	Telephone apparatus mfg	9	5	5	1 704	109 658	207	430	7 081	232 717	118 413	355 504	19 611
3344	Semiconductor & other electronic component mfg	-	50	37	16 030	759 121	7 707	19 298	267 049	2 721 312	1 635 861	4 389 203	272 946
33441	Semiconductor & other electronic component mfg	-	50	37	16 030	759 121	7 707	19 298	267 049	2 721 312	1 635 861	4 389 203	272 946
334412	Bare printed circuit board mfg	-	10	5	2 753	165 960	895	1 778	33 180	725 058	409 379	1 163 301	76 899
334413	Semiconductor & related device mfg ...	1	17	12	3 690	231 663	1 727	4 748	82 121	725 187	270 054	992 588	146 597
334418	Printed circuit assembly (electronic assembly) mfg	-	9	9	i	D	D	D	D	D	D	D	D
334419	Other electronic component mfg	-	10	7	h	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	15	10	1 235	69 909	449	772	11 895	112 811	163 854	269 609	13 608
33451	Navigational, measuring, medical, & control instruments mfg	-	15	10	1 235	69 909	449	772	11 895	112 811	163 854	269 609	13 608
334517	Irradiation apparatus mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	10	5	604	27 268	403	662	16 281	63 825	32 398	81 242	2 615
3353	Electrical equipment mfg ..	-	5	4	533	24 663	344	540	15 127	59 227	29 340	73 478	2 527
33531	Electrical equipment mfg	-	5	4	533	24 663	344	540	15 127	59 227	29 340	73 478	2 527
339	Miscellaneous mfg	-	7	4	g	D	D	D	D	D	D	D	10 962
3391	Medical equipment & supplies mfg	-	5	3	g	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	5	3	g	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg	-	3	3	g	D	D	D	D	D	D	D	D
MISSION VIEJO, CA													
31-33	Manufacturing	8	46	7	1 466	70 349	634	1 234	27 817	151 272	120 471	272 294	D
334	Computer & electronic product mfg	9	9	4	977	55 781	330	689	22 518	121 253	111 756	233 121	D
3341	Computer & peripheral equipment mfg	9	5	2	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	9	5	2	f	D	D	D	D	D	D	D	D
334111	Electronic computer mfg	9	2	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MODESTO, CA													
31-33	Manufacturing	-	137	42	7 462	265 526	4 677	8 996	116 156	946 491	1 207 850	2 124 803	22 637
311	Food mfg	-	18	10	2 275	65 911	1 869	3 492	41 850	358 468	349 008	711 755	13 447
3114	Fruit & vegetable preserving & specialty food mfg	-	3	2	g	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	-	2	2	g	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	-	1	1	f	D	D	D	D	D	D	D	D
311423	Dried & dehydrated food mfg	-	1	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	4	6	5	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	4	6	5	f	D	D	D	D	D	D	D	D
311615	Poultry processing	-	2	2	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	-	3	3	h	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	3	3	h	D	D	D	D	D	D	D	D
31213	Wineries	-	1	1	h	D	D	D	D	D	D	D	D
312130	Wineries	-	1	1	h	D	D	D	D	D	D	D	D
MONROVIA, CA													
31-33	Manufacturing	2	130	51	5 150	199 411	2 969	5 985	89 874	395 645	331 148	725 614	26 679
334	Computer & electronic product mfg	6	17	13	1 134	50 875	633	1 330	22 369	111 137	65 148	174 213	7 378
3345	Navigational, measuring, medical, & control instruments mfg	9	8	5	689	33 919	390	835	16 755	75 176	29 238	101 257	5 743
33451	Navigational, measuring, medical, & control instruments mfg	9	8	5	689	33 919	390	835	16 755	75 176	29 238	101 257	5 743
336	Transportation equipment mfg	-	5	3	1 593	66 641	810	1 728	28 499	90 812	126 043	217 381	8 469
3364	Aerospace product & parts mfg	-	3	3	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	3	3	g	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
336414	Guided missile & space vehicle mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
MONTCLAIR, CA													
31-33	Manufacturing	3	72	10	854	19 904	699	1 200	12 950	40 858	54 472	94 950	2 106
MONTEBELLO, CA													
31-33	Manufacturing	1	112	43	4 850	133 688	3 421	6 786	74 817	367 836	274 573	642 228	23 737
311	Food mfg	1	11	5	1 175	40 492	529	940	14 791	159 491	89 882	248 244	5 844
3118	Bakeries & tortilla mfg	-	7	3	1 007	35 911	400	624	12 397	141 799	72 832	214 548	D
31181	Bread & bakery product mfg	-	6	2	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg	4	20	8	718	11 212	660	1 353	9 002	16 148	9 869	25 623	650
3152	Cut & sew apparel mfg	5	15	7	619	9 034	574	1 147	7 559	9 696	7 664	17 080	502
31523	Women's & girls' cut & sew apparel mfg	5	7	4	509	7 822	466	1 025	6 483	7 410	6 960	14 090	464
337	Furniture & related product mfg	1	9	3	771	12 330	665	1 471	8 470	21 085	19 075	37 616	D
3371	Household & institutional furniture & kitchen cabinet mfg	1	5	2	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	1	5	2	f	D	D	D	D	D	D	D	D
337124	Metal household furniture mfg	-	1	1	f	D	D	D	D	D	D	D	D
MONTEREY, CA													
31-33	Manufacturing	3	61	13	1 317	44 105	745	1 341	17 235	80 163	80 543	159 556	6 780
334	Computer & electronic product mfg	-	12	6	f	D	D	D	D	D	D	D	D
MONTEREY PARK, CA													
31-33	Manufacturing	3	79	22	1 841	43 858	1 318	2 073	23 859	106 065	64 996	170 437	10 043
334	Computer & electronic product mfg	-	7	3	502	5 626	317	336	2 827	21 299	9 102	30 361	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MOORPARK, CA													
31-33	Manufacturing	1	52	18	2 578	79 369	1 576	3 352	34 601	221 189	148 545	370 150	11 419
334	Computer & electronic product mfg	-	11	2	1 444	35 203	875	1 840	13 414	98 293	67 760	166 194	4 233
3344	Semiconductor & other electronic component mfg	-	6	2	g	D	D	D	D	D	D	D	4 116
33441	Semiconductor & other electronic component mfg	-	6	2	g	D	D	D	D	D	D	D	4 116
334419	Other electronic component mfg	-	2	1	g	D	D	D	D	D	D	D	D
MORENO VALLEY, CA													
31-33	Manufacturing	2	19	5	1 095	20 757	631	1 243	14 956	58 033	86 690	143 668	1 964
337	Furniture & related product mfg	9	2	1	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	9	1	1	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	9	1	1	f	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) mfg	9	1	1	f	D	D	D	D	D	D	D	D
MORGAN HILL, CA													
31-33	Manufacturing	1	68	25	2 304	91 779	1 465	2 927	45 462	220 090	144 756	365 310	13 064
332	Fabricated metal product mfg	-	22	8	787	26 733	589	1 173	16 657	41 024	42 282	80 972	2 561
3323	Architectural & structural metals mfg	-	6	4	526	18 480	381	767	11 310	24 289	25 968	49 648	D
33232	Ornamental & architectural metal products mfg	-	6	4	526	18 480	381	767	11 310	24 289	25 968	49 648	D
332322	Sheet metal work mfg	-	6	4	526	18 480	381	767	11 310	24 289	25 968	49 648	D
334	Computer & electronic product mfg	1	16	7	848	42 334	400	893	15 109	135 164	39 647	175 532	8 721
3345	Navigational, measuring, medical, & control instruments mfg	-	4	3	634	32 182	277	644	10 888	114 146	25 930	141 429	D
33451	Navigational, measuring, medical, & control instruments mfg	-	4	3	634	32 182	277	644	10 888	114 146	25 930	141 429	D
334515	Electricity measuring & testing instrument mfg	-	4	3	634	32 182	277	644	10 888	114 146	25 930	141 429	D
MOUNTAIN VIEW, CA													
31-33	Manufacturing	-	235	78	20 837	1 298 658	7 926	18 250	352 645	6 251 610	3 198 126	9 372 036	283 172
332	Fabricated metal product mfg	4	39	9	650	25 195	474	994	15 429	47 535	21 508	68 043	3 139
333	Machinery mfg	5	13	6	575	23 647	336	649	10 293	49 485	40 936	92 666	D
334	Computer & electronic product mfg	-	76	37	17 045	1 141 150	5 526	13 357	274 021	5 865 194	2 937 854	8 727 157	257 163
3341	Computer & peripheral equipment mfg	-	14	7	11 090	834 467	1 482	4 984	104 823	4 974 836	2 657 736	7 567 196	D
33411	Computer & peripheral equipment mfg	-	14	7	11 090	834 467	1 482	4 984	104 823	4 974 836	2 657 736	7 567 196	D
334111	Electronic computer mfg	-	6	3	j	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	2	13	11	893	46 321	418	807	10 783	79 333	53 777	135 286	7 709
33422	Radio & TV broadcasting & wireless communications equipment mfg	1	8	7	535	28 531	292	566	7 041	62 637	41 044	105 997	2 568
334220	Radio & TV broadcasting & wireless communications equipment mfg	1	8	7	535	28 531	292	566	7 041	62 637	41 044	105 997	2 568
3344	Semiconductor & other electronic component mfg	3	30	10	1 856	69 923	1 489	3 109	38 976	163 030	61 801	218 201	20 433
33441	Semiconductor & other electronic component mfg	3	30	10	1 856	69 923	1 489	3 109	38 976	163 030	61 801	218 201	20 433
334412	Bare printed circuit board mfg	-	5	4	538	15 837	511	1 105	13 986	38 299	26 834	64 553	4 037
334413	Semiconductor & related device mfg ...	4	12	5	1 193	50 029	888	1 828	22 912	116 270	29 323	139 229	15 857

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	MOUNTAIN VIEW, CA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3345	Navigational, measuring, medical, & control instruments mfg	-	16	6	2 902	177 717	2 005	4 177	115 882	619 831	145 999	760 076	D
33451	Navigational, measuring, medical, & control instruments mfg	-	16	6	2 902	177 717	2 005	4 177	115 882	619 831	145 999	760 076	D
334510	Electromedical & electrotherapeutic apparatus mfg	-	2	1	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	-	2	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	8	3	681	33 735	325	708	15 710	74 782	74 181	144 947	D
3359	Other electrical equipment & component mfg	-	4	3	f	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	-	3	3	657	33 097	306	675	15 273	73 302	72 666	141 923	D
335999	All other miscellaneous electrical equipment & component mfg	-	3	3	657	33 097	306	675	15 273	73 302	72 666	141 923	D
339	Miscellaneous mfg	4	22	5	514	24 144	271	525	8 673	47 196	24 753	72 130	3 034
	MURRIETA, CA												
31-33	Manufacturing	4	29	10	765	30 327	544	1 034	16 333	71 974	72 275	143 525	9 793
	NAPA, CA												
31-33	Manufacturing	-	104	20	2 694	84 685	1 805	3 420	40 967	400 475	203 814	591 200	30 617
325	Chemical mfg	-	3	1	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg	-	1	1	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	-	1	1	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	-	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	9	3	f	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	-	4	2	f	D	D	D	D	D	D	D	D
32739	Other concrete product mfg	-	2	2	f	D	D	D	D	D	D	D	D
327390	Other concrete product mfg	-	2	2	f	D	D	D	D	D	D	D	D
	NATIONAL CITY, CA												
31-33	Manufacturing	1	100	22	1 744	45 079	1 321	2 372	27 554	133 607	209 142	342 740	21 743
	NEVADA CITY, CA												
31-33	Manufacturing	-	20	5	596	26 920	368	478	13 296	111 110	79 673	199 550	D
334	Computer & electronic product mfg	-	7	4	f	D	D	D	D	D	D	D	D
	NEWARK, CA												
31-33	Manufacturing	-	84	37	2 989	124 070	2 179	4 535	70 595	337 105	263 858	597 479	30 317
325	Chemical mfg	-	7	6	501	18 021	357	824	13 626	69 314	32 990	101 911	6 353

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
NEWPORT BEACH, CA													
31-33	Manufacturing	1	109	18	5 136	255 577	2 563	4 662	69 589	1 295 162	346 327	1 481 798	D
334	Computer & electronic product mfg.....	-	5	2	h	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	-	3	2	h	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	-	3	2	h	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg....	-	2	2	h	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	17	3	994	30 208	624	1 672	19 912	33 506	12 019	45 996	1 340
3391	Medical equipment & supplies mfg.....	-	9	3	973	29 663	607	1 645	19 548	32 193	11 122	43 781	1 259
33911	Medical equipment & supplies mfg.....	-	9	3	973	29 663	607	1 645	19 548	32 193	11 122	43 781	1 259
339116	Dental laboratories ...	-	6	2	f	D	D	D	D	D	D	D	D
NORWALK, CA													
31-33	Manufacturing	3	75	19	1 234	28 871	922	1 644	18 210	73 073	88 171	159 882	4 518
NOVATO, CA													
31-33	Manufacturing	3	82	20	1 669	65 232	947	2 007	25 404	122 525	130 347	263 127	8 331
OAKDALE, CA													
31-33	Manufacturing	2	34	13	2 568	98 314	2 076	4 619	72 499	451 531	511 880	964 237	40 468
311	Food mfg.....	2	4	4	1 911	75 687	1 554	3 562	55 570	400 873	410 150	809 130	33 405
3113	Sugar & confectionery product mfg.....	3	2	2	g	D	D	D	D	D	D	D	D
31132	Chocolate & confectionery mfg from cacao beans	3	2	2	g	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans ...	3	2	2	g	D	D	D	D	D	D	D	D
OAKLAND, CA													
31-33	Manufacturing	3	574	157	13 913	426 225	9 664	18 457	242 879	1 196 774	869 507	2 048 065	68 042
311	Food mfg.....	2	65	25	4 306	137 728	2 381	4 703	61 370	392 849	252 634	645 782	25 175
3118	Bakeries & tortilla mfg.....	2	31	11	3 340	104 460	1 725	3 336	41 367	291 134	124 544	417 267	19 073
31181	Bread & bakery product mfg.....	5	23	6	2 284	61 438	1 235	2 459	29 840	141 658	66 087	207 560	11 827
311812	Commercial bakeries ..	5	9	5	2 162	59 534	1 165	2 367	28 967	137 671	63 994	201 464	11 712
31182	Cookie, cracker, & pasta mfg.....	-	7	4	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg ..	-	5	3	f	D	D	D	D	D	D	D	D
3119	Other food mfg.....	1	16	9	677	23 255	444	936	13 437	69 999	67 775	136 064	3 810
315	Apparel mfg.....	3	109	36	1 911	25 082	1 732	2 979	19 681	42 313	20 012	62 263	D
3152	Cut & sew apparel mfg....	4	102	32	1 631	19 653	1 528	2 519	16 589	30 965	8 908	40 015	D
31521	Cut & sew apparel contractors	6	76	22	1 249	14 093	1 179	1 868	12 197	21 965	4 897	26 810	D
315212	Women's, girls', & infants' cut & sew apparel contractors ..	7	74	20	g	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	3	76	10	790	27 362	557	925	16 556	59 948	30 338	88 707	2 719
3231	Printing & related support activities.....	3	76	10	790	27 362	557	925	16 556	59 948	30 338	88 707	2 719
32311	Printing	3	62	9	659	21 514	476	778	13 538	47 291	27 950	73 809	D
327	Nonmetallic mineral product mfg.....	-	14	5	730	29 737	581	1 162	22 350	91 971	61 047	146 474	D
3272	Glass & glass product mfg ..	-	6	2	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg.....	-	6	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	2	84	22	1 572	57 567	1 161	2 215	34 896	112 808	70 736	184 101	5 606
336	Transportation equipment mfg.....	-	19	6	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg.....	2	38	8	578	15 887	481	852	11 282	34 450	23 076	57 579	1 373
339	Miscellaneous mfg.....	2	43	3	583	15 282	436	839	10 585	42 195	11 504	40 486	637

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
OCEANSIDE, CA													
31-33	Manufacturing	2	157	51	3 749	97 499	2 934	5 650	58 962	256 252	169 080	416 539	13 038
332	Fabricated metal product mfg	1	21	10	647	19 347	524	1 004	12 825	43 784	23 444	66 110	2 948
334	Computer & electronic product mfg	2	21	5	772	15 797	663	1 312	9 426	54 355	10 825	62 725	2 885
3344	Semiconductor & other electronic component mfg	1	14	3	675	12 830	608	1 228	8 281	48 651	7 178	53 084	2 570
33441	Semiconductor & other electronic component mfg	1	14	3	675	12 830	608	1 228	8 281	48 651	7 178	53 084	2 570
334417	Electronic connector mfg	-	1	1	f	D	D	D	D	D	D	D	D
ONTARIO, CA													
31-33	Manufacturing	1	420	179	16 296	483 434	12 703	25 118	312 446	1 692 554	1 560 225	3 257 532	101 124
311	Food mfg	2	17	6	1 043	31 931	713	1 522	18 748	430 879	278 656	712 009	11 111
322	Paper mfg	-	17	13	807	29 100	628	1 438	18 886	95 095	159 628	254 198	7 911
3222	Converted paper product mfg	-	16	12	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	1	13	9	573	18 811	461	1 062	12 372	41 340	95 823	136 564	D
323	Printing & related support activities	2	35	9	595	19 985	428	903	13 722	66 225	51 468	119 072	1 763
3231	Printing & related support activities	2	35	9	595	19 985	428	903	13 722	66 225	51 468	119 072	1 763
326	Plastics & rubber products mfg	1	50	33	2 871	72 905	2 363	4 330	46 570	183 889	143 075	322 437	16 586
3261	Plastics product mfg	1	48	32	h	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	27	19	1 601	42 167	1 318	2 441	27 167	102 770	53 881	154 078	8 482
326199	All other plastics product mfg	-	26	18	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	86	23	2 363	70 173	1 848	3 710	45 772	152 045	117 662	269 828	9 562
3323	Architectural & structural metals mfg	-	18	4	681	15 960	536	921	8 246	33 773	43 581	77 392	1 012
33232	Ornamental & architectural metal products mfg	-	11	3	586	13 210	474	789	6 914	28 525	34 780	63 356	795
332321	Metal window & door mfg	-	4	3	542	12 248	446	744	6 401	25 604	32 022	57 675	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	42	10	826	29 617	657	1 397	20 998	58 995	41 757	100 097	5 198
333	Machinery mfg	6	36	9	582	24 807	436	896	15 560	53 871	38 180	92 455	3 064
335	Electrical equipment, appliance, & component mfg	-	9	3	841	25 567	714	1 532	17 693	139 399	87 683	227 587	D
3351	Electric lighting equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	-	1	1	f	D	D	D	D	D	D	D	D
335129	Other lighting equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	31	22	2 049	75 913	1 610	2 993	53 507	175 448	375 903	547 432	30 881
3363	Motor vehicle parts mfg ...	2	14	10	579	15 637	432	799	8 965	36 701	33 969	70 916	2 958
3364	Aerospace product & parts mfg	-	8	7	1 024	49 139	810	1 413	37 214	118 275	303 331	416 745	D
33641	Aerospace product & parts mfg	-	8	7	1 024	49 139	810	1 413	37 214	118 275	303 331	416 745	D
336412	Aircraft engine & engine parts mfg	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	34	22	2 163	49 828	1 719	3 241	32 688	108 932	109 946	232 476	5 278
3371	Household & institutional furniture & kitchen cabinet mfg	-	18	11	1 467	30 195	1 232	2 293	21 322	53 331	70 336	137 414	4 163
33712	Household & institutional furniture mfg	-	15	11	1 456	29 957	1 223	2 278	21 157	52 916	70 019	136 679	4 143
337122	Nonupholstered wood household furniture mfg	-	9	7	864	15 486	707	1 441	10 038	25 310	48 351	87 951	3 497
339	Miscellaneous mfg	1	22	10	863	25 989	662	1 366	16 379	86 186	36 992	119 549	2 940
3399	Other miscellaneous mfg ..	-	15	7	730	22 670	578	1 201	14 545	71 862	30 471	98 796	2 486

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ORANGE, CA													
31-33	Manufacturing	1	338	111	10 463	309 389	7 545	14 723	162 875	767 521	681 805	1 452 639	38 842
323	Printing & related support activities.....	1	43	9	564	15 546	420	775	9 453	32 090	20 205	52 368	1 620
3231	Printing & related support activities.....	1	43	9	564	15 546	420	775	9 453	32 090	20 205	52 368	1 620
32311	Printing	1	37	7	504	14 382	367	696	8 771	30 387	19 922	50 351	1 520
326	Plastics & rubber products mfg	2	19	10	1 482	36 962	1 204	2 207	21 612	104 635	125 344	227 662	8 281
3261	Plastics product mfg	3	18	9	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	-	1	1	f	D	D	D	D	D	D	D	D
326299	All other rubber product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	70	29	2 084	57 949	1 633	3 375	35 966	119 686	88 105	208 794	7 964
3321	Forging & stamping	1	7	6	596	14 362	495	1 172	10 148	21 469	31 971	53 901	820
33211	Forging & stamping	1	7	6	596	14 362	495	1 172	10 148	21 469	31 971	53 901	820
3328	Coating, engraving, heat treating, & allied activities	1	15	12	640	16 073	514	956	9 611	36 102	14 489	50 930	2 671
33281	Coating, engraving, heat treating, & allied activities.....	1	15	12	640	16 073	514	956	9 611	36 102	14 489	50 930	2 671
333	Machinery mfg	-	22	6	1 461	62 200	693	1 190	18 922	195 698	141 312	343 716	5 239
3331	Agriculture, construction, & mining machinery mfg.	-	2	1	f	D	D	D	D	D	D	D	D
33313	Mining & oil & gas field machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333132	Oil & gas field machinery & equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	3	2	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	-	3	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	2	34	9	984	28 724	678	1 480	15 901	55 202	41 227	96 832	4 065
3344	Semiconductor & other electronic component mfg	1	18	8	829	22 559	602	1 334	13 456	41 016	33 541	75 084	D
33441	Semiconductor & other electronic component mfg	1	18	8	829	22 559	602	1 334	13 456	41 016	33 541	75 084	D
337	Furniture & related product mfg	-	26	12	677	16 894	567	1 181	10 598	32 762	35 888	67 144	1 754
OROVILLE, CA													
31-33	Manufacturing	1	42	9	1 084	31 428	919	1 894	24 629	79 370	104 062	184 676	4 039
OXNARD, CA													
31-33	Manufacturing	1	172	70	6 935	220 767	5 242	10 264	130 276	749 006	697 880	1 440 730	42 231
311	Food mfg	3	24	8	617	10 640	548	816	8 771	39 949	26 624	67 429	6 854
315	Apparel mfg	-	7	2	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	6	2	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	6	4	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	4	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	13	11	1 153	32 499	976	1 988	20 360	69 842	33 644	103 485	1 979
3261	Plastics product mfg	-	13	11	1 153	32 499	976	1 988	20 360	69 842	33 644	103 485	1 979
32619	Other plastics product mfg	-	12	11	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg.....	-	12	11	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	32	11	588	22 558	405	875	13 253	51 992	37 410	89 658	4 322
333	Machinery mfg	-	15	5	f	D	D	D	D	D	D	D	461
3335	Metalworking machinery mfg	-	4	2	f	D	D	D	D	D	D	D	121
33351	Metalworking machinery mfg	-	4	2	f	D	D	D	D	D	D	D	121
333512	Machine tool (metal cutting types) mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	22	7	814	17 771	621	1 239	10 013	54 769	25 470	80 337	1 840
3399	Other miscellaneous mfg ..	-	11	4	643	13 170	513	1 060	7 891	44 721	20 514	65 322	1 542

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
PALMDALE, CA													
31-33	Manufacturing	-	44	4	i	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	5	2	i	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	-	2	1	i	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	2	1	i	D	D	D	D	D	D	D	D
336411	Aircraft mfg	-	1	1	i	D	D	D	D	D	D	D	D
PALM DESERT, CA													
31-33	Manufacturing	2	57	4	702	18 887	518	919	10 831	40 973	40 205	82 227	3 731
PALM SPRINGS, CA													
31-33	Manufacturing	1	37	9	734	22 534	470	921	8 467	73 771	35 022	107 626	1 462
PALO ALTO, CA													
31-33	Manufacturing	-	114	33	7 983	362 574	5 766	10 162	231 750	1 825 277	397 448	2 232 002	69 872
334	Computer & electronic product mfg	-	33	14	5 456	276 179	4 321	7 284	189 755	1 616 598	245 395	1 858 502	48 912
3342	Communications equipment mfg	-	5	5	h	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	-	4	4	h	D	D	D	D	D	D	D	40 817
334220	Radio & TV broadcasting & wireless communications equipment mfg	-	4	4	h	D	D	D	D	D	D	D	40 817
3344	Semiconductor & other electronic component mfg	-	11	4	600	31 024	429	792	14 843	83 948	36 064	118 615	3 624
33441	Semiconductor & other electronic component mfg	-	11	4	600	31 024	429	792	14 843	83 948	36 064	118 615	3 624
3345	Navigational, measuring, medical, & control instruments mfg	-	7	4	f	D	D	D	D	D	D	D	3 256
33451	Navigational, measuring, medical, & control instruments mfg	-	7	4	f	D	D	D	D	D	D	D	3 256
339	Miscellaneous mfg	4	21	5	972	30 685	568	1 062	17 137	70 273	48 900	128 075	3 490
PARAMOUNT, CA													
31-33	Manufacturing	2	268	86	6 401	199 444	4 813	9 397	125 605	450 626	616 266	1 081 657	24 168
332	Fabricated metal product mfg	3	87	33	2 238	91 943	1 695	3 416	62 008	186 804	139 484	325 887	13 647
3321	Forging & stamping	6	8	5	587	39 890	454	1 156	27 677	80 948	81 762	163 550	6 525
33211	Forging & stamping	6	8	5	587	39 890	454	1 156	27 677	80 948	81 762	163 550	6 525
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	36	10	653	21 623	525	987	14 858	40 296	18 486	58 371	3 979
PASADENA, CA													
31-33	Manufacturing	3	151	37	2 877	87 403	1 931	3 592	44 204	207 570	179 501	388 990	9 781
339	Miscellaneous mfg	-	19	6	546	15 146	456	832	8 861	33 760	34 683	67 742	891
PATTERSON, CA													
31-33	Manufacturing	1	9	3	f	D	D	D	D	D	D	D	1 334
311	Food mfg	-	1	1	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	-	1	1	f	D	D	D	D	D	D	D	D
31141	Frozen food mfg	-	1	1	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
PERRIS, CA													
31-33	Manufacturing	-	40	18	2 616	59 659	2 071	4 116	42 434	170 290	255 029	421 668	10 353
336	Transportation equipment mfg	-	5	5	1 221	21 332	965	1 866	17 918	73 096	141 844	211 020	4 979
3362	Motor vehicle body & trailer mfg	-	2	2	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	-	2	2	f	D	D	D	D	D	D	D	D
336213	Motor home mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
PETALUMA, CA													
31-33	Manufacturing	-	119	47	4 998	249 793	2 730	5 436	82 366	665 302	792 764	1 403 678	49 523
311	Food mfg	-	14	9	643	20 265	341	726	8 616	72 134	450 405	522 347	10 249
333	Machinery mfg	3	11	7	622	29 389	277	579	9 334	77 505	34 633	108 749	2 996
334	Computer & electronic product mfg.....	-	10	8	g	D	D	D	D	D	D	D	21 458
3342	Communications equipment mfg	-	4	4	f	D	D	D	D	D	D	D	D
33421	Telephone apparatus mfg	-	3	3	f	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg	-	3	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	10	2	g	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	-	4	2	g	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	4	2	g	D	D	D	D	D	D	D	D
339115	Ophthalmic goods mfg	-	2	2	g	D	D	D	D	D	D	D	D
PICO RIVERA, CA													
31-33	Manufacturing	2	81	42	3 122	89 024	2 269	4 377	46 298	259 350	258 509	518 526	8 017
322	Paper mfg	-	7	5	657	18 920	509	1 040	11 365	46 467	35 214	84 439	998
3222	Converted paper product mfg	-	7	5	657	18 920	509	1 040	11 365	46 467	35 214	84 439	998
PITTSBURG, CA													
31-33	Manufacturing	-	46	16	2 362	118 346	1 651	3 349	81 588	616 901	890 439	1 503 127	30 967
325	Chemical mfg	-	6	5	633	41 194	378	756	25 580	265 148	163 822	433 239	7 355
3251	Basic chemical mfg	-	3	3	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	1	1	f	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	-	1	1	f	D	D	D	D	D	D	D	D
33122	Rolling & drawing of purchased steel	-	1	1	f	D	D	D	D	D	D	D	D
331221	Cold-rolled steel shape mfg	-	1	1	f	D	D	D	D	D	D	D	D
PLACENTIA, CA													
31-33	Manufacturing	2	134	43	3 438	85 903	2 468	4 394	49 758	288 940	159 345	447 223	18 447
332	Fabricated metal product mfg	1	35	13	773	23 061	599	1 306	14 958	62 748	24 359	86 049	5 815
PLEASANTON, CA													
31-33	Manufacturing	1	100	21	1 759	77 082	989	2 036	31 478	188 177	144 644	328 364	45 626

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
POMONA, CA													
31-33	Manufacturing	2	253	85	9 792	301 949	6 435	12 388	148 964	742 598	815 912	1 551 395	62 696
311	Food mfg	1	15	7	1 252	46 068	582	1 143	17 210	141 420	53 940	195 515	D
3118	Bakeries & tortilla mfg	-	8	3	g	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	7	2	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries	-	2	1	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	8	6	537	26 580	445	814	16 353	50 686	105 903	158 339	3 538
323	Printing & related support activities	-	18	3	541	16 117	446	864	10 714	43 189	64 413	107 309	D
3231	Printing & related support activities	-	18	3	541	16 117	446	864	10 714	43 189	64 413	107 309	D
32311	Printing	-	17	3	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	14	3	531	15 950	439	855	10 608	42 851	64 214	106 771	D
326	Plastics & rubber products mfg	6	23	13	1 618	35 041	1 257	2 649	22 239	125 839	118 467	243 593	11 326
3261	Plastics product mfg	6	21	12	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	7	13	8	1 261	25 090	1 021	2 201	17 474	95 644	94 464	189 623	8 077
326199	All other plastics product mfg	7	12	7	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	2	5	4	526	15 141	426	898	10 509	33 230	40 234	75 246	1 485
332	Fabricated metal product mfg	1	50	10	980	26 923	572	1 109	14 456	70 041	36 088	102 361	1 542
333	Machinery mfg	1	18	6	829	24 001	370	707	7 403	83 917	41 886	125 451	3 425
3333	Commercial & service industry machinery mfg ..	-	3	2	f	D	D	D	D	D	D	D	2 815
33331	Commercial & service industry machinery mfg	-	3	2	f	D	D	D	D	D	D	D	2 815
333319	Other commercial & service industry machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	3	17	11	1 417	63 070	671	1 441	18 921	93 554	182 947	274 501	13 933
PORTERVILLE, CA													
31-33	Manufacturing	2	35	8	1 045	28 092	874	1 704	20 968	96 988	62 157	161 393	5 199
POWAY, CA													
31-33	Manufacturing	1	52	11	1 397	41 212	1 023	1 893	21 493	104 298	123 255	227 565	5 226
RANCHO CUCAMONGA, CA													
31-33	Manufacturing	-	243	102	9 913	311 742	7 625	16 013	196 244	977 336	1 043 603	2 009 113	202 751
311	Food mfg	-	9	4	1 069	34 066	946	2 248	23 831	147 444	141 848	289 832	21 688
3119	Other food mfg	-	2	2	f	D	D	D	D	D	D	D	D
31191	Snack food mfg	-	1	1	f	D	D	D	D	D	D	D	D
311919	Other snack food mfg	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	2	29	21	1 615	46 117	1 375	2 941	32 881	146 735	176 695	320 967	18 407
3261	Plastics product mfg	2	23	17	1 364	39 132	1 153	2 497	28 225	128 998	152 581	279 215	17 575
32619	Other plastics product mfg	-	12	10	745	19 401	617	1 325	13 615	46 688	42 833	89 329	3 191
326199	All other plastics product mfg	-	12	10	745	19 401	617	1 325	13 615	46 688	42 833	89 329	3 191
331	Primary metal mfg	-	7	5	866	33 891	747	1 522	23 675	90 529	158 183	257 091	D
332	Fabricated metal product mfg	-	51	22	2 157	71 150	1 598	3 575	47 752	211 094	271 663	463 988	133 448
3328	Coating, engraving, heat treating, & allied activities ..	-	9	7	649	22 858	543	1 348	17 936	66 974	123 468	182 390	D
33281	Coating, engraving, heat treating, & allied activities ..	-	9	7	649	22 858	543	1 348	17 936	66 974	123 468	182 390	D
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	-	6	6	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	27	7	524	17 324	371	720	9 792	37 079	48 115	84 847	1 986
334	Computer & electronic product mfg	1	15	6	643	24 637	383	730	8 976	67 506	34 012	100 257	3 595
339	Miscellaneous mfg	4	22	7	552	16 389	382	695	7 821	43 258	26 473	69 789	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
RED BLUFF, CA													
31-33	Manufacturing	7	23	5	766	23 467	627	1 244	18 759	61 538	39 917	101 126	5 252
REDDING, CA													
31-33	Manufacturing	3	110	13	1 351	37 988	912	1 573	20 608	77 257	88 817	166 157	7 975
REDLANDS, CA													
31-33	Manufacturing	-	54	13	1 803	41 331	1 526	3 283	29 445	99 920	95 896	196 081	4 212
337	Furniture & related product mfg	-	6	3	960	20 538	857	2 002	16 857	47 683	51 672	98 876	388
3371	Household & institutional furniture & kitchen cabinet mfg	-	5	2	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	3	2	f	D	D	D	D	D	D	D	D
337121	Upholstered household furniture mfg	-	3	2	f	D	D	D	D	D	D	D	D
REDONDO BEACH, CA													
31-33	Manufacturing	-	40	5	i	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	4	1	i	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	-	1	1	i	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	1	1	i	D	D	D	D	D	D	D	D
336414	Guided missile & space vehicle mfg ...	-	1	1	i	D	D	D	D	D	D	D	D
REDWOOD CITY, CA													
31-33	Manufacturing	5	98	30	4 606	238 552	2 179	4 461	68 694	632 348	289 535	930 137	38 360
334	Computer & electronic product mfg	5	18	11	3 278	192 149	1 164	2 496	38 800	525 041	226 565	759 966	27 449
3342	Communications equipment mfg	6	7	4	2 426	143 354	804	1 597	24 719	478 330	165 634	651 860	24 195
33421	Telephone apparatus mfg	9	4	2	g	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg	9	4	2	g	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	-	3	2	g	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	-	3	2	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	4	3	564	31 549	200	333	7 700	22 309	47 851	70 820	D
33451	Navigational, measuring, medical, & control instruments mfg	-	4	3	564	31 549	200	333	7 700	22 309	47 851	70 820	D
REEDLEY, CA													
31-33	Manufacturing	-	15	4	565	13 983	329	552	6 873	30 623	41 144	71 839	1 657
RIALTO, CA													
31-33	Manufacturing	2	66	21	1 935	50 241	1 493	2 635	32 705	140 246	160 316	298 987	9 203
RICHMOND, CA													
31-33	Manufacturing	-	137	42	4 640	207 799	3 280	6 998	133 314	985 497	2 000 556	2 979 032	142 745
324	Petroleum & coal products mfg	-	6	5	g	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	-	6	5	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 mfg	-	32	12	1 121	48 599	741	1 329	25 429	68 972	159 603	237 238	4 894
3329	Other fabricated metal product mfg	6	3	3	506	20 895	330	546	11 647	7 982	15 823	33 605	D
RIVERBANK, CA													
31-33	Manufacturing	1	11	6	778	19 633	596	1 129	15 513	24 346	83 350	105 128	2 727

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
RIVERSIDE, CA													
31-33	Manufacturing	1	289	84	10 901	322 423	7 732	14 839	195 233	789 082	880 781	1 687 198	46 596
311	Food mfg.....	-	12	4	1 103	22 490	565	1 157	15 428	56 962	106 060	162 944	3 832
3114	Fruit & vegetable preserving & specialty food mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
31141	Frozen food mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	1	37	6	597	15 724	457	754	9 791	36 226	64 137	100 342	2 278
3231	Printing & related support activities.....	1	37	6	597	15 724	457	754	9 791	36 226	64 137	100 342	2 278
32311	Printing.....	1	34	6	589	15 663	454	750	9 745	36 110	64 111	100 200	2 271
326	Plastics & rubber products mfg.....	-	22	13	1 690	53 719	1 338	2 759	36 206	187 934	120 063	324 799	3 199
3261	Plastics product mfg.....	-	19	12	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg.....	-	17	10	1 250	42 700	969	1 823	26 997	143 504	68 834	229 671	2 094
326199	All other plastics product mfg.....	-	17	10	1 250	42 700	969	1 823	26 997	143 504	68 834	229 671	2 094
332	Fabricated metal product mfg.....	-	60	11	1 165	43 728	884	1 761	28 330	77 435	124 358	198 804	9 129
334	Computer & electronic product mfg.....	-	19	9	831	29 580	343	628	6 592	64 395	27 305	94 517	1 618
336	Transportation equipment mfg.....	6	25	8	2 064	62 701	1 727	3 055	45 867	84 815	133 556	218 610	8 843
3363	Motor vehicle parts mfg...	9	11	3	1 033	22 826	897	1 572	17 270	51 902	85 799	135 921	7 253
33639	Other motor vehicle parts mfg.....	9	7	3	1 007	22 383	878	1 550	17 028	50 992	84 745	133 932	7 152
336399	All other motor vehicle parts mfg.....	9	7	3	1 007	22 383	878	1 550	17 028	50 992	84 745	133 932	7 152
3364	Aerospace product & parts mfg.....	-	6	2	702	33 599	535	969	23 089	13 480	23 743	40 475	D
33641	Aerospace product & parts mfg.....	-	6	2	702	33 599	535	969	23 089	13 480	23 743	40 475	D
336413	Other aircraft part & auxiliary equipment mfg.....	-	6	2	702	33 599	535	969	23 089	13 480	23 743	40 475	D
337	Furniture & related product mfg.....	1	16	7	867	18 207	731	1 335	12 578	37 726	47 292	85 293	1 276
3371	Household & institutional furniture & kitchen cabinet mfg.....	-	12	4	659	14 095	569	1 056	9 623	28 417	38 523	67 140	D
33712	Household & institutional furniture mfg.....	-	9	4	649	13 888	561	1 043	9 471	28 040	38 244	66 483	853
339	Miscellaneous mfg.....	-	26	4	671	20 415	384	762	8 409	51 208	25 564	76 303	5 353
3391	Medical equipment & supplies mfg.....	-	15	3	585	19 128	320	644	7 527	48 938	23 799	72 222	5 265
33911	Medical equipment & supplies mfg.....	-	15	3	585	19 128	320	644	7 527	48 938	23 799	72 222	5 265
339113	Surgical appliance & supplies mfg.....	-	5	3	f	D	D	D	D	D	D	D	5 156
ROCKLIN, CA													
31-33	Manufacturing	-	32	6	798	26 660	696	1 362	20 239	85 041	133 611	215 981	5 799
ROHNERT PARK, CA													
31-33	Manufacturing	1	48	9	781	27 629	480	799	10 538	80 853	55 268	136 201	2 350
ROSEMEAD, CA													
31-33	Manufacturing	1	82	19	1 759	38 082	1 380	2 308	24 459	86 277	62 761	149 641	4 925

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ROSEVILLE, CA													
31-33	Manufacturing	-	57	12									
334	Computer & electronic product mfg.....	-	6	4	i	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg.....	-	2	2	h	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg.....	-	2	2	h	D	D	D	D	D	D	D	D
334111	Electronic computer mfg.....	-	2	2	h	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg....	-	1	1	g	D	D	D	D	D	D	D	D
SACRAMENTO, CA													
31-33	Manufacturing	1	423	127	15 763	579 149	10 275	19 808	279 764	1 965 437	1 710 897	3 582 712	102 449
311	Food mfg.....	-	48	19	4 688	165 124	3 016	5 853	89 454	994 437	599 072	1 594 469	29 200
3114	Fruit & vegetable preserving & specialty food mfg.....	-	3	2	g	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying.....	-	2	2	g	D	D	D	D	D	D	D	D
311422	Specialty canning.....	-	1	1	g	D	D	D	D	D	D	D	D
3115	Dairy product mfg.....	2	5	4	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg.....	-	29	11	1 729	63 880	705	1 268	17 613	136 014	68 473	204 799	5 187
31181	Bread & bakery product mfg.....	-	24	7	1 458	58 038	549	986	15 850	120 006	62 017	182 344	4 218
311812	Commercial bakeries ..	-	9	6	1 352	56 920	480	919	15 309	117 019	60 189	177 529	4 065
3119	Other food mfg.....	-	3	1	g	D	D	D	D	D	D	D	D
31191	Snack food mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
311911	Roasted nuts & peanut butter mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg.....	-	5	5	f	D	D	D	D	D	D	D	D
3121	Beverage mfg.....	-	5	5	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg.....	-	4	4	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg.....	-	3	3	f	D	D	D	D	D	D	D	D
321	Wood product mfg.....	-	17	10	586	11 973	477	925	8 991	29 198	73 395	95 218	803
3219	Other wood product mfg....	-	16	9	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	1	87	18	1 494	44 901	1 163	2 240	28 831	96 986	60 977	157 659	11 676
3231	Printing & related support activities.....	1	87	18	1 494	44 901	1 163	2 240	28 831	96 986	60 977	157 659	11 676
32311	Printing.....	1	72	17	1 371	41 654	1 069	2 073	26 613	89 312	59 156	148 157	11 291
323110	Commercial lithographic printing ..	1	41	14	1 003	32 655	757	1 421	20 509	70 188	44 465	114 482	10 811
332	Fabricated metal product mfg.....	1	59	14	993	31 317	737	1 507	21 175	60 785	91 167	151 699	D
3323	Architectural & structural metals mfg.....	1	22	11	577	16 841	417	884	10 654	34 601	32 924	67 785	D
33232	Ornamental & architectural metal products mfg.....	2	18	10	516	15 194	375	802	9 813	27 999	27 519	55 713	D
333	Machinery mfg.....	-	18	6	725	19 614	402	890	9 848	51 133	132 828	176 107	D
3339	Other general-purpose machinery mfg.....	-	5	3	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	7	15	8	1 416	72 704	1 137	2 322	29 495	164 713	174 904	344 169	14 088
3341	Computer & peripheral equipment mfg.....	7	3	2	g	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg.....	7	3	2	g	D	D	D	D	D	D	D	D
334111	Electronic computer mfg.....	9	2	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	20	9	g	D	D	D	D	D	D	D	2 122
3364	Aerospace product & parts mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
336415	Guided missile & space vehicle propulsion unit & parts mfg.....	-	1	1	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SACRAMENTO, CA—Con.													
31-33	Manufacturing—Con.												
337	Furniture & related product mfg	2	30	10	912	21 479	750	1 122	14 933	39 893	38 104	77 953	1 853
3371	Household & institutional furniture & kitchen cabinet mfg	1	19	6	f	D	D	D	D	D	D	D	1 446
ST. HELENA, CA													
31-33	Manufacturing	—	31	15	1 463	69 107	698	1 277	24 523	299 549	333 811	621 577	30 761
312	Beverage & tobacco product mfg	—	20	11	1 239	60 461	518	930	18 264	277 174	311 966	577 516	28 870
3121	Beverage mfg	—	20	11	1 239	60 461	518	930	18 264	277 174	311 966	577 516	28 870
31213	Wineries	—	20	11	1 239	60 461	518	930	18 264	277 174	311 966	577 516	28 870
312130	Wineries	—	20	11	1 239	60 461	518	930	18 264	277 174	311 966	577 516	28 870
SALINAS, CA													
31-33	Manufacturing	2	97	24	2 752	96 041	1 994	3 970	57 719	345 127	296 529	641 614	16 598
311	Food mfg	2	23	7	914	28 558	702	1 360	19 482	206 657	128 180	333 258	D
3119	Other food mfg	—	6	5	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	9	4	3	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	9	4	3	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	9	4	3	f	D	D	D	D	D	D	D	D
SAN BERNARDINO, CA													
31-33	Manufacturing	3	150	51	4 140	106 107	3 208	5 787	69 845	269 114	323 989	589 513	19 931
323	Printing & related support activities.....	9	19	4	642	13 474	531	765	9 365	24 664	15 206	39 661	1 910
3231	Printing & related support activities.....	9	19	4	642	13 474	531	765	9 365	24 664	15 206	39 661	1 910
SAN BUENAVENTURA (VENTURA), CA													
31-33	Manufacturing	4	157	38	3 126	90 918	2 439	4 854	57 068	225 031	152 644	374 728	16 417
332	Fabricated metal product mfg	1	36	8	663	21 552	474	1 019	12 245	56 266	26 754	83 322	2 141
SAN CARLOS, CA													
31-33	Manufacturing	2	148	43	3 712	144 356	2 659	5 464	93 857	339 898	219 756	561 615	19 679
332	Fabricated metal product mfg	3	44	11	810	33 520	618	1 283	22 373	65 008	23 124	87 879	4 068
334	Computer & electronic product mfg	—	9	3	952	38 347	689	1 502	28 552	73 371	35 222	107 343	5 198
3344	Semiconductor & other electronic component mfg	—	6	2	901	35 340	661	1 468	27 512	66 816	31 250	97 031	4 910
33441	Semiconductor & other electronic component mfg	—	6	2	901	35 340	661	1 468	27 512	66 816	31 250	97 031	4 910
334411	Electron tube mfg	—	3	2	882	34 855	647	1 445	27 249	65 916	30 475	95 314	4 822
SAN CLEMENTE, CA													
31-33	Manufacturing	4	91	19	1 452	49 276	973	1 885	24 678	100 164	89 868	189 252	12 871

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SAN DIEGO, CA													
31-33	Manufacturing	1	1 444	417	65 599	2 562 746	37 155	74 819	1 026 081	6 680 426	7 839 590	14 315 378	578 674
311	Food mfg	2	98	20	2 517	67 536	1 698	3 237	35 168	176 015	130 333	318 647	23 159
3114	Fruit & vegetable preserving & specialty food mfg	—	4	3	924	18 786	764	1 444	11 032	57 296	60 408	117 715	D
31141	Frozen food mfg	—	3	2	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	—	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	7	70	13	934	19 678	530	921	9 615	50 832	27 779	78 656	D
31181	Bread & bakery product mfg	7	60	12	800	17 574	452	792	8 345	44 611	22 958	67 596	D
311812	Commercial bakeries	8	22	10	564	13 982	301	600	6 647	36 573	18 586	55 176	1 762
3119	Other food mfg	1	14	3	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	3	14	6	754	21 841	301	586	8 280	92 998	138 830	230 418	4 511
3121	Beverage mfg	3	13	6	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	3	7	4	678	19 531	256	517	6 925	87 872	134 488	221 013	3 940
312111	Soft drink mfg	3	3	2	f	D	D	D	D	D	D	D	D
314	Textile product mills	3	45	7	512	8 663	389	623	5 332	22 115	16 611	38 355	928
315	Apparel mfg	1	69	17	2 044	29 955	1 566	2 933	20 282	85 863	80 554	166 654	4 008
3152	Cut & sew apparel mfg	1	53	13	1 513	22 222	1 113	2 140	14 986	57 480	44 772	102 945	D
31521	Cut & sew apparel contractors	2	28	5	752	8 106	598	1 245	7 437	13 970	3 075	16 387	981
315212	Women's, girls', & infants' cut & sew apparel contractors	2	23	5	735	7 881	582	1 219	7 269	13 562	3 007	15 911	957
323	Printing & related support activities	4	239	38	2 941	83 759	2 093	3 971	52 294	187 117	113 069	299 959	13 472
3231	Printing & related support activities	4	239	38	2 941	83 759	2 093	3 971	52 294	187 117	113 069	299 959	13 472
32311	Printing	4	206	33	2 502	73 504	1 822	3 499	45 587	167 004	108 723	275 497	11 816
323110	Commercial lithographic printing	5	94	22	1 513	49 777	1 085	2 203	30 926	108 854	73 309	182 133	8 600
325	Chemical mfg	1	60	21	2 687	128 603	1 232	2 478	40 273	384 580	219 279	605 352	62 108
3254	Pharmaceutical & medicine mfg	1	32	16	2 222	107 860	997	2 076	33 719	283 037	113 822	398 127	57 759
32541	Pharmaceutical & medicine mfg	1	32	16	2 222	107 860	997	2 076	33 719	283 037	113 822	398 127	57 759
325413	In-vitro diagnostic substance mfg	—	8	6	1 280	62 317	601	1 215	21 040	178 533	43 351	218 371	39 488
325414	Biological product (except diagnostic) mfg	1	14	7	715	37 490	260	579	9 481	77 895	59 575	144 114	16 448
326	Plastics & rubber products mfg	4	48	20	1 537	45 094	1 127	2 025	22 148	118 873	114 939	229 347	18 778
3261	Plastics product mfg	4	41	17	1 345	40 128	1 004	1 857	20 281	108 788	102 036	206 517	18 574
32619	Other plastics product mfg	5	28	13	780	20 109	611	1 075	10 447	46 242	50 228	94 196	11 454
326199	All other plastics product mfg	5	28	13	780	20 109	611	1 075	10 447	46 242	50 228	94 196	11 454
327	Nonmetallic mineral product mfg	2	26	6	665	15 284	303	527	7 698	39 671	39 649	79 701	1 893
332	Fabricated metal product mfg	1	152	35	2 525	79 099	1 913	3 555	51 630	173 492	132 656	301 910	10 800
3323	Architectural & structural metals mfg	—	32	10	1 001	29 227	761	1 437	20 601	67 761	42 056	107 698	3 765
33232	Ornamental & architectural metal products mfg	1	27	8	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	67	12	f	D	D	D	D	D	D	D	D
33271	Machine shops	2	64	11	701	25 276	550	974	16 826	47 520	19 455	66 289	3 720
332710	Machine shops	2	64	11	701	25 276	550	974	16 826	47 520	19 455	66 289	3 720
333	Machinery mfg	—	70	18	5 428	253 861	3 102	6 486	111 118	1 000 497	545 585	1 523 604	56 448
3332	Industrial machinery mfg	—	9	1	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	—	8	1	f	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg	—	2	1	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	—	3	2	h	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	—	3	2	h	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg	—	2	2	h	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SAN DIEGO, CA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg.....	-	241	125	25 129	1 160 464	10 645	21 453	326 754	2 780 428	5 064 651	7 708 243	272 913
3341	Computer & peripheral equipment mfg.....	-	39	18	7 495	406 422	2 287	4 829	74 699	962 478	3 757 512	4 564 625	90 716
33411	Computer & peripheral equipment mfg.....	-	39	18	7 495	406 422	2 287	4 829	74 699	962 478	3 757 512	4 564 625	90 716
334111	Electronic computer mfg.....	-	11	4	f	D	D	D	D	D	D	D	D
334112	Computer storage device mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg.....	-	25	11	6 098	360 871	1 927	4 002	62 684	402 434	3 506 632	3 787 712	76 725
3342	Communications equipment mfg.....	1	36	24	3 521	142 161	1 429	2 648	36 592	208 855	212 023	421 281	D
33421	Telephone apparatus mfg.....	-	6	5	1 153	59 475	297	565	8 525	45 923	99 491	146 881	4 481
334210	Telephone apparatus mfg.....	-	6	5	1 153	59 475	297	565	8 525	45 923	99 491	146 881	4 481
33422	Radio & TV broadcasting & wireless communications equipment mfg.....	2	26	17	2 262	78 929	1 092	2 034	27 447	156 730	108 666	264 300	20 949
334220	Radio & TV broadcasting & wireless communications equipment mfg.....	2	26	17	2 262	78 929	1 092	2 034	27 447	156 730	108 666	264 300	20 949
3344	Semiconductor & other electronic component mfg.....	3	75	36	5 293	182 957	3 199	6 562	80 752	433 207	321 883	766 843	88 810
33441	Semiconductor & other electronic component mfg.....	3	75	36	5 293	182 957	3 199	6 562	80 752	433 207	321 883	766 843	88 810
334412	Bare printed circuit board mfg.....	-	22	12	1 734	44 893	1 422	2 931	30 072	128 168	105 188	232 104	15 122
334413	Semiconductor & related device mfg...	5	15	9	1 162	57 435	624	1 321	21 886	156 263	59 795	223 465	59 696
334414	Electronic capacitor mfg.....	4	5	5	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg.....	5	13	7	1 563	51 349	630	1 327	15 436	81 421	119 995	206 499	9 268
3345	Navigational, measuring, medical, & control instruments mfg.....	-	74	42	8 253	411 881	3 314	6 678	124 379	1 140 192	647 959	1 795 375	65 055
33451	Navigational, measuring, medical, & control instruments mfg.....	-	74	42	8 253	411 881	3 314	6 678	124 379	1 140 192	647 959	1 795 375	65 055
334510	Electromedical & electrotherapeutic apparatus mfg.....	-	10	8	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg.....	-	12	11	4 342	210 999	1 368	2 626	50 265	496 518	203 082	702 553	17 674
334515	Electricity measuring & testing instrument mfg.....	-	17	8	1 509	71 070	782	1 571	28 606	249 251	194 647	442 532	28 031
335	Electrical equipment, appliance, & component mfg.....	-	23	15	1 556	72 066	900	2 142	30 863	232 079	219 573	437 091	48 997
3353	Electrical equipment mfg..	-	7	5	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg.....	-	7	5	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg.....	-	12	7	f	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg.....	-	8	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	51	26	9 715	343 629	7 290	15 967	222 714	746 932	579 913	1 292 716	21 010
3364	Aerospace product & parts mfg.....	-	12	9	2 484	111 818	1 655	3 412	72 375	288 836	158 714	428 992	D
33641	Aerospace product & parts mfg.....	-	12	9	2 484	111 818	1 655	3 412	72 375	288 836	158 714	428 992	D
336413	Other aircraft part & auxiliary equipment mfg.....	-	9	7	g	D	D	D	D	D	D	D	D
3366	Ship & boat building.....	-	9	7	6 580	210 867	5 162	11 685	139 369	402 982	365 192	768 199	D
33661	Ship & boat building....	-	9	7	6 580	210 867	5 162	11 685	139 369	402 982	365 192	768 199	D
336611	Ship building & repairing.....	-	7	7	i	D	D	D	D	D	D	D	D
337	Furniture & related product mfg.....	1	54	9	942	22 559	710	1 467	14 148	41 798	45 581	85 599	2 040

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SAN DIEGO, CA—Con.													
31-33	Manufacturing—Con.												
339	Miscellaneous mfg.....	1	207	43	5 945	211 592	3 466	6 631	69 869	508 554	313 827	824 349	34 223
3391	Medical equipment & supplies mfg.....	1	94	21	3 757	153 625	1 801	3 218	38 731	364 498	214 621	586 008	26 417
33911	Medical equipment & supplies mfg.....	1	94	21	3 757	153 625	1 801	3 218	38 731	364 498	214 621	586 008	26 417
339112	Surgical & medical instrument mfg.....	1	25	12	2 219	97 016	919	1 629	17 201	174 131	99 804	274 900	20 434
339115	Ophthalmic goods mfg.....	—	10	2	f	D	D	D	D	D	D	D	2 892
3399	Other miscellaneous mfg..	1	113	22	2 188	57 967	1 665	3 413	31 138	144 056	99 206	238 341	7 806
33992	Sporting & athletic goods mfg.....	1	43	11	1 445	35 103	1 170	2 480	20 018	84 022	58 719	138 421	5 903
339920	Sporting & athletic goods mfg.....	1	43	11	1 445	35 103	1 170	2 480	20 018	84 022	58 719	138 421	5 903
SAN DIMAS, CA													
31-33	Manufacturing	4	99	26	2 382	73 139	1 678	3 189	39 884	183 111	142 141	321 689	18 508
334	Computer & electronic product mfg.....	1	11	4	537	19 233	201	410	4 529	47 234	41 205	85 843	3 205
SAN FERNANDO, CA													
31-33	Manufacturing	1	97	40	5 053	136 202	4 055	8 351	83 985	422 450	277 805	706 286	12 899
315	Apparel mfg.....	—	15	9	1 602	32 346	1 543	3 092	29 081	43 193	42 852	88 194	1 039
3152	Cut & sew apparel mfg....	—	14	9	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg.....	—	3	2	889	19 091	851	1 918	18 005	24 327	17 476	41 701	D
315239	Women's & girls' cut & sew other outerwear mfg.....	—	2	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg.....	—	3	3	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
325411	Medicinal & botanical mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	5	5	3	755	15 867	632	1 180	10 143	35 022	23 341	58 927	672
SAN FRANCISCO, CA													
31-33	Manufacturing	1	1 247	309	25 037	642 429	19 500	35 967	392 849	1 998 438	1 999 422	3 978 945	67 132
311	Food mfg.....	1	150	38	3 020	76 308	2 145	3 612	45 172	242 771	182 817	429 634	10 097
3118	Bakeries & tortilla mfg.....	2	85	17	1 613	42 452	1 030	1 602	23 697	118 835	47 120	166 256	4 060
31181	Bread & bakery product mfg.....	1	75	16	1 508	40 677	951	1 484	22 617	113 842	43 025	157 160	3 789
311812	Commercial bakeries ..	1	22	11	1 128	34 776	654	1 072	18 655	102 834	36 641	139 776	3 219
315	Apparel mfg.....	—	320	149	11 694	220 817	10 000	18 429	142 589	1 026 012	1 346 564	2 353 619	11 635
3151	Apparel knitting mills.....	—	6	6	f	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills.....	—	6	6	f	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills.....	—	6	6	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg....	—	298	141	10 795	198 868	9 244	16 612	129 158	979 903	1 310 953	2 273 431	10 223
31521	Cut & sew apparel contractors.....	5	194	91	5 156	67 388	4 789	8 844	60 047	103 760	21 673	125 261	2 906
315212	Women's, girls', & infants' cut & sew apparel contractors..	6	183	84	4 727	60 887	4 381	8 043	54 518	92 444	18 051	110 323	2 695
31522	Men's & boys' cut & sew apparel mfg.....	—	16	14	g	D	D	D	D	D	D	D	D
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg.....	—	4	4	f	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg.....	—	3	3	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg.....	—	75	31	h	D	D	D	D	D	D	D	D
315232	Women's & girls' cut & sew blouse & shirt mfg.....	—	26	13	g	D	D	D	D	D	D	D	D
315233	Women's & girls' cut & sew dress mfg.....	—	15	7	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SAN FRANCISCO, CA—Con.													
31-33	Manufacturing—Con.												
323	Printing & related support activities.....	3	266	43	3 324	121 365	2 419	4 781	78 285	224 152	125 572	349 654	20 119
3231	Printing & related support activities.....	3	266	43	3 324	121 365	2 419	4 781	78 285	224 152	125 572	349 654	20 119
32311	Printing	4	211	32	2 476	83 772	1 774	3 444	52 504	155 713	109 470	264 601	15 867
323110	Commercial lithographic printing ..	4	120	22	1 640	64 510	1 154	2 356	40 157	116 854	79 525	195 976	12 585
32312	Support activities for printing.....	1	55	11	848	37 593	645	1 337	25 781	68 439	16 102	85 053	4 252
323122	Prepress services	1	45	9	660	32 032	476	980	21 305	56 220	13 061	69 558	3 581
332	Fabricated metal product mfg	1	70	11	947	31 182	736	1 281	20 373	87 630	34 697	122 861	2 512
334	Computer & electronic product mfg.....	2	26	6	1 028	24 429	671	1 245	11 854	61 999	58 741	119 690	3 684
3344	Semiconductor & other electronic component mfg	—	6	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	—	6	1	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	—	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	3	79	12	913	31 586	685	1 318	18 132	59 517	30 139	88 162	1 444
3371	Household & institutional furniture & kitchen cabinet mfg	3	61	7	625	20 980	444	920	11 352	39 259	22 603	61 516	963
339	Miscellaneous mfg.....	3	135	14	1 031	25 069	752	1 238	12 992	57 583	35 773	92 423	2 889
3399	Other miscellaneous mfg ..	3	79	12	764	18 437	541	908	8 826	43 575	27 677	69 995	2 159
SAN GABRIEL, CA													
31-33	Manufacturing	5	54	14	628	10 960	490	668	6 923	22 580	13 829	36 469	1 174
SANGER, CA													
31-33	Manufacturing	2	16	8	1 355	28 475	1 165	2 533	20 416	64 978	85 165	150 896	6 927
311	Food mfg.....	9	5	2	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	9	2	1	f	D	D	D	D	D	D	D	D
31141	Frozen food mfg.....	9	1	1	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg.....	9	1	1	f	D	D	D	D	D	D	D	D
SAN JACINTO, CA													
31-33	Manufacturing	1	27	5	669	15 837	551	918	10 375	52 719	34 902	85 679	1 713
SAN JOSE, CA													
31-33	Manufacturing	—	1 225	408	86 726	4 263 508	39 798	80 307	1 320 390	14 933 197	11 932 193	26 808 113	1 415 735
311	Food mfg.....	2	77	19	2 537	70 489	2 063	4 029	52 839	333 499	480 442	811 309	14 142
3114	Fruit & vegetable preserving & specialty food mfg	—	10	8	1 385	39 926	1 180	2 387	31 797	215 286	234 379	448 781	4 361
31142	Fruit & vegetable canning, pickling, & drying	—	8	6	g	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning	—	6	5	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg	7	4	2	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	7	3	2	f	D	D	D	D	D	D	D	D
311513	Cheese mfg	7	2	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	2	115	17	1 740	61 659	1 234	2 241	39 847	121 282	66 559	187 972	12 305
3231	Printing & related support activities.....	2	115	17	1 740	61 659	1 234	2 241	39 847	121 282	66 559	187 972	12 305
32311	Printing	2	104	14	1 542	54 178	1 140	2 052	36 988	110 709	64 508	175 351	11 820
323110	Commercial lithographic printing ..	2	49	7	517	16 070	385	700	10 673	31 625	19 424	50 966	D

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	SAN JOSE, CA—Con.												
31-33	Manufacturing—Con.												
325	Chemical mfg	—	21	7	1 117	80 075	264	464	21 820	273 368	38 029	310 096	D
3254	Pharmaceutical & medicine mfg	—	5	4	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	—	5	4	f	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance mfg	—	2	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	8	36	16	1 970	68 501	1 556	3 138	48 143	164 991	146 439	310 170	15 254
3261	Plastics product mfg	8	31	15	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	8	21	11	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	8	19	10	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	26	12	911	28 156	735	1 626	23 103	74 478	68 759	143 207	3 139
332	Fabricated metal product mfg	1	258	73	6 171	208 124	4 927	9 761	140 480	440 947	272 385	711 737	28 817
3323	Architectural & structural metals mfg	1	56	26	2 684	88 458	2 113	4 556	59 066	194 526	167 785	361 460	11 407
33232	Ornamental & architectural metal products mfg	1	46	24	2 549	84 232	2 013	4 345	56 148	180 420	159 534	339 076	11 032
332322	Sheet metal work mfg	1	37	22	2 434	80 944	1 917	4 165	54 070	173 581	155 679	328 381	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	140	25	2 127	77 411	1 760	3 245	54 338	146 877	48 379	192 886	10 765
33271	Machine shops	1	131	20	1 773	64 122	1 486	2 790	44 576	127 032	38 409	165 206	9 961
332710	Machine shops	1	131	20	1 773	64 122	1 486	2 790	44 576	127 032	38 409	165 206	9 961
3328	Coating, engraving, heat treating, & allied activities	5	33	12	692	18 990	551	1 013	12 595	32 645	13 982	47 833	2 347
33281	Coating, engraving, heat treating, & allied activities	5	33	12	692	18 990	551	1 013	12 595	32 645	13 982	47 833	2 347
333	Machinery mfg	2	89	33	6 045	326 221	2 378	5 342	87 170	680 494	732 163	1 405 876	83 357
3332	Industrial machinery mfg	2	38	19	4 706	264 626	1 699	4 001	62 128	575 663	642 440	1 207 754	74 128
33329	Other industrial machinery mfg	2	36	17	h	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg	1	23	12	3 446	222 760	834	1 820	39 121	479 107	586 418	1 055 593	D
333298	All other industrial machinery mfg	9	9	5	1 082	34 785	763	1 974	19 633	90 841	42 051	132 379	D
3339	Other general-purpose machinery mfg	—	12	3	600	27 730	241	402	7 437	48 783	53 416	105 989	3 611
334	Computer & electronic product mfg	—	351	181	60 518	3 228 546	23 365	47 653	825 737	12 364 601	9 807 661	22 101 645	1 203 636
3341	Computer & peripheral equipment mfg	—	46	19	11 255	522 599	5 097	11 772	174 647	2 155 032	3 254 369	5 527 675	339 643
33411	Computer & peripheral equipment mfg	—	46	19	11 255	522 599	5 097	11 772	174 647	2 155 032	3 254 369	5 527 675	339 643
334111	Electronic computer mfg	—	16	6	2 998	162 420	617	1 724	27 918	671 271	735 648	1 498 460	D
334112	Computer storage device mfg	—	11	6	i	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	2	15	5	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	—	46	28	17 968	932 321	3 415	6 871	125 688	5 716 124	2 803 943	8 438 918	184 101
33421	Telephone apparatus mfg	—	19	13	14 136	713 931	2 581	5 220	100 392	5 295 216	2 455 476	7 678 386	146 989
334210	Telephone apparatus mfg	—	19	13	14 136	713 931	2 581	5 220	100 392	5 295 216	2 455 476	7 678 386	146 989
33422	Radio & TV broadcasting & wireless communications equipment mfg	2	25	15	h	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	2	25	15	h	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SAN JOSE, CA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg	—	177	87	18 531	991 286	9 446	18 418	328 828	2 703 404	2 790 737	5 467 333	471 796
33441	Semiconductor & other electronic component mfg	—	177	87	18 531	991 286	9 446	18 418	328 828	2 703 404	2 790 737	5 467 333	471 796
334412	Bare printed circuit board mfg	1	40	17	1 734	51 817	1 357	2 282	31 388	131 483	88 638	219 449	11 520
334413	Semiconductor & related device mfg ...	—	73	32	12 072	784 711	4 746	9 205	216 879	2 273 431	2 224 154	4 460 526	433 639
334418	Printed circuit assembly (electronic assembly) mfg	1	27	24	3 627	120 662	2 538	5 375	61 622	234 847	433 187	677 563	22 114
334419	Other electronic component mfg	5	25	8	688	20 384	514	933	11 486	36 579	30 121	68 524	2 984
3345	Navigational, measuring, medical, & control instruments mfg	—	63	37	9 855	647 538	3 250	6 933	150 594	1 546 041	752 656	2 212 561	96 995
33451	Navigational, measuring, medical, & control instruments mfg	—	63	37	9 855	647 538	3 250	6 933	150 594	1 546 041	752 656	2 212 561	96 995
334511	Search, detection, navigation, & guidance instrument mfg	—	4	3	1 207	85 955	365	650	12 799	132 805	82 094	205 739	D
334513	Industrial process control instrument mfg	4	10	8	703	34 972	324	625	15 444	21 411	51 549	72 421	3 756
334515	Electricity measuring & testing instrument mfg	—	25	17	6 477	437 075	2 133	4 885	106 375	1 121 705	503 568	1 552 030	79 245
334516	Analytical laboratory instrument mfg	—	9	3	f	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media .	2	16	8	2 774	130 321	2 057	3 447	43 719	233 984	191 708	430 815	110 627
33461	Mfg & reproducing magnetic & optical media	2	16	8	2 774	130 321	2 057	3 447	43 719	233 984	191 708	430 815	110 627
334613	Magnetic & optical recording media mfg .	2	9	5	2 644	125 538	1 959	3 227	40 472	215 094	182 062	402 386	107 310
335	Electrical equipment, appliance, & component mfg	—	19	9	885	31 916	622	1 247	15 954	65 939	53 347	119 348	2 962
3359	Other electrical equipment & component mfg	—	11	6	700	22 906	531	1 063	13 243	48 941	36 760	85 583	1 909
336	Transportation equipment mfg	—	23	6	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	—	5	3	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	—	5	3	g	D	D	D	D	D	D	D	D
336992	Military armored vehicle, tank, & tank component mfg	—	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	3	52	9	846	22 351	587	1 068	13 044	52 781	48 170	101 732	2 207
339	Miscellaneous mfg	4	94	7	563	14 971	377	658	7 467	32 545	18 012	51 102	1 322
	SAN JUAN CAPISTRANO, CA												
31-33	Manufacturing	1	44	12	1 108	40 678	709	1 355	17 214	125 726	54 220	176 594	7 594
	SAN LEANDRO, CA												
31-33	Manufacturing	1	257	89	9 002	310 709	6 524	13 467	182 837	1 027 711	1 236 532	2 260 595	61 912
311	Food mfg	1	20	12	1 565	44 776	1 155	2 124	25 788	293 690	388 204	674 251	19 171
3113	Sugar & confectionery product mfg	—	2	2	f	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate ...	—	2	2	f	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate	—	2	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	—	31	6	703	20 727	597	1 142	15 103	53 977	96 453	151 292	D
3231	Printing & related support activities	—	31	6	703	20 727	597	1 142	15 103	53 977	96 453	151 292	D
32311	Printing	—	29	5	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	—	20	5	642	19 152	551	1 043	13 990	50 732	95 169	146 766	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SAN LEANDRO, CA—Con.												
31-33	Manufacturing—Con.												
326	Plastics & rubber products mfg	2	19	9	745	20 337	545	1 143	13 122	70 115	76 334	144 907	8 880
3261	Plastics product mfg	2	17	8	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	7	5	518	18 512	422	853	12 196	42 704	27 291	69 670	D
332	Fabricated metal product mfg	1	52	18	1 149	44 694	842	1 801	28 046	134 951	114 125	248 175	7 451
334	Computer & electronic product mfg	—	11	4	792	27 924	612	1 384	16 588	110 045	98 428	211 826	1 891
3346	Mfg & reproducing magnetic & optical media	—	1	1	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media	—	1	1	f	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing	—	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	6	4	583	21 748	297	611	7 362	49 823	31 794	84 346	2 599
3351	Electric lighting equipment mfg	—	4	4	f	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	—	4	4	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	—	21	4	717	29 272	346	661	9 414	57 871	62 588	127 730	4 113
3391	Medical equipment & supplies mfg	—	13	2	559	24 521	251	478	7 240	47 448	47 390	101 901	2 964
33911	Medical equipment & supplies mfg	—	13	2	559	24 521	251	478	7 240	47 448	47 390	101 901	2 964
	SAN LUIS OBISPO, CA												
31-33	Manufacturing	2	78	16	1 521	43 920	993	1 775	19 844	124 966	72 592	195 025	10 678
	SAN MARCOS, CA												
31-33	Manufacturing	2	227	74	5 981	172 145	4 070	8 054	91 488	500 039	364 448	872 069	30 389
332	Fabricated metal product mfg	—	50	15	1 642	46 696	1 022	1 897	24 023	149 627	42 869	195 505	10 433
3329	Other fabricated metal product mfg	—	5	2	f	D	D	D	D	D	D	D	D
33291	Metal valve mfg	—	2	1	f	D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting & trim mfg	—	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	1	18	9	550	17 261	342	629	7 229	53 412	50 038	103 083	1 488
334	Computer & electronic product mfg	4	21	8	504	19 056	255	448	6 939	54 608	17 708	72 242	4 057
339	Miscellaneous mfg	—	24	6	692	17 328	568	1 438	12 804	42 025	46 502	94 560	1 966
3391	Medical equipment & supplies mfg	—	7	3	516	13 032	447	1 193	10 403	34 565	39 917	80 621	1 736
33911	Medical equipment & supplies mfg	—	7	3	516	13 032	447	1 193	10 403	34 565	39 917	80 621	1 736
	SAN MATEO, CA												
31-33	Manufacturing	5	77	4	531	18 393	335	585	10 377	39 341	28 213	67 482	6 690
	SAN RAFAEL, CA												
31-33	Manufacturing	5	149	19	1 809	58 321	1 171	2 124	28 095	129 558	93 472	223 164	6 923

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SANTA ANA, CA													
31-33	Manufacturing	1	961	310	30 246	878 109	22 469	45 914	491 817	2 343 812	1 723 047	4 052 420	143 426
311	Food mfg.....	-	48	15	1 794	44 960	1 333	2 411	23 993	118 341	210 532	325 012	12 385
3118	Bakeries & tortilla mfg.....	1	29	9	720	14 307	530	954	8 341	34 297	23 475	57 629	8 677
31181	Bread & bakery product mfg.....	1	26	8	f	D	D	D	D	D	D	D	D
314	Textile product mills.....	-	26	7	901	26 539	594	1 075	10 346	36 181	79 667	113 893	3 241
3141	Textile furnishings mills....	-	13	4	532	20 439	342	589	6 053	27 100	60 621	86 636	2 703
315	Apparel mfg.....	5	105	31	1 921	24 971	1 714	2 865	19 487	49 833	32 186	80 382	2 214
3152	Cut & sew apparel mfg....	5	99	29	1 819	23 537	1 627	2 744	18 517	46 503	28 512	73 381	1 975
31521	Cut & sew apparel contractors.....	4	68	12	858	9 056	811	1 190	7 455	15 272	2 991	18 255	742
315212	Women's, girls', & infants' cut & sew apparel contractors..	6	61	7	621	5 769	591	804	5 107	10 059	2 111	12 162	506
31522	Men's & boys' cut & sew apparel mfg.....	5	13	11	628	9 507	579	1 120	8 093	18 548	14 798	31 809	D
323	Printing & related support activities.....	2	92	21	1 181	32 274	823	1 413	18 315	65 448	34 768	100 062	5 784
3231	Printing & related support activities.....	2	92	21	1 181	32 274	823	1 413	18 315	65 448	34 768	100 062	5 784
32311	Printing.....	2	81	19	1 018	27 942	731	1 232	16 082	57 544	33 556	90 940	5 476
325	Chemical mfg.....	1	35	15	1 093	37 602	776	1 494	17 613	382 003	169 333	554 634	9 736
326	Plastics & rubber products mfg.....	1	47	24	2 313	63 920	1 820	3 798	40 103	173 870	194 190	368 662	8 743
3261	Plastics product mfg.....	1	44	23	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg.....	1	24	12	1 320	31 825	1 026	2 158	19 763	75 483	88 842	165 327	3 323
326199	All other plastics product mfg.....	2	20	9	g	D	D	D	D	D	D	D	3 119
327	Nonmetallic mineral product mfg.....	1	26	11	695	21 731	511	1 132	13 335	53 778	58 830	113 341	4 415
332	Fabricated metal product mfg.....	1	213	54	5 060	177 017	3 977	8 353	116 563	375 186	180 137	551 630	30 268
3321	Forging & stamping.....	-	10	2	801	32 933	703	1 773	25 006	69 918	26 746	96 902	5 398
33211	Forging & stamping.....	-	10	2	801	32 933	703	1 773	25 006	69 918	26 746	96 902	5 398
332112	Nonferrous forging....	-	1	1	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg.....	3	26	9	563	16 713	419	832	10 216	38 575	21 810	58 866	2 235
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	1	117	24	1 951	76 476	1 496	3 021	49 757	165 242	80 221	245 617	13 977
33271	Machine shops.....	1	100	18	1 029	34 633	826	1 540	22 965	91 948	32 577	123 947	4 084
332710	Machine shops.....	1	100	18	1 029	34 633	826	1 540	22 965	91 948	32 577	123 947	4 084
33272	Turned product & screw, nut, & bolt mfg.....	-	17	6	922	41 843	670	1 481	26 792	73 294	47 644	121 670	9 893
332722	Bolt, nut, screw, rivet, & washer mfg.....	-	6	3	805	38 247	573	1 254	24 052	66 600	44 776	112 103	9 452
3328	Coating, engraving, heat treating, & allied activities..	-	30	11	922	24 049	803	1 639	17 699	45 396	9 921	55 499	1 907
33281	Coating, engraving, heat treating, & allied activities.....	-	30	11	922	24 049	803	1 639	17 699	45 396	9 921	55 499	1 907
332813	Electroplating, plating, polishing, anodizing, & coloring.....	-	24	10	845	22 079	741	1 520	16 333	41 411	9 132	50 788	1 700
333	Machinery mfg.....	2	62	25	1 909	63 634	1 287	2 808	33 933	165 578	120 252	278 890	7 601
3339	Other general-purpose machinery mfg.....	-	15	6	612	19 295	339	855	7 403	59 500	42 449	101 538	2 697
334	Computer & electronic product mfg.....	1	96	43	6 507	207 957	4 371	10 258	93 645	521 046	323 246	838 151	32 801
3341	Computer & peripheral equipment mfg.....	-	9	4	579	19 590	178	414	6 737	58 009	54 047	115 081	2 965
33411	Computer & peripheral equipment mfg.....	-	9	4	579	19 590	178	414	6 737	58 009	54 047	115 081	2 965
3343	Audio & video equipment mfg.....	-	5	3	f	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg.....	-	5	3	f	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg.....	-	5	3	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SANTA ANA, CA—Con. Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg	1	56	26	4 407	124 819	3 424	8 223	61 431	321 927	143 303	467 420	22 543
33441	Semiconductor & other electronic component mfg	1	56	26	4 407	124 819	3 424	8 223	61 431	321 927	143 303	467 420	22 543
334412	Bare printed circuit board mfg	2	25	8	683	25 292	575	1 191	15 502	55 691	26 310	82 169	3 770
334413	Semiconductor & related device mfg ...	—	7	3	676	17 091	366	765	5 979	60 831	11 659	70 800	2 442
334417	Electronic connector mfg	—	3	3	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	3	7	7	836	19 938	675	1 320	12 650	39 403	34 665	73 293	2 534
3345	Navigational, measuring, medical, & control instruments mfg	—	18	8	772	34 951	417	877	15 510	54 341	35 642	87 295	2 921
33451	Navigational, measuring, medical, & control instruments mfg	—	18	8	772	34 951	417	877	15 510	54 341	35 642	87 295	2 921
335	Electrical equipment, appliance, & component mfg	1	34	14	888	23 918	579	1 154	11 666	72 056	43 751	116 458	1 665
336	Transportation equipment mfg	3	29	10	1 907	48 316	1 652	3 298	34 560	98 921	58 450	158 739	10 490
3363	Motor vehicle parts mfg ...	1	13	3	1 088	19 305	1 025	2 113	16 552	35 933	10 536	47 360	D
33632	Motor vehicle electrical & electronic equipment mfg	1	4	2	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	1	4	2	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	31	10	989	21 279	773	1 519	14 966	59 889	48 183	107 546	2 693
339	Miscellaneous mfg	1	71	19	2 033	55 847	1 479	2 760	27 853	105 306	103 259	211 331	4 107
3399	Other miscellaneous mfg ..	1	46	14	1 585	42 813	1 162	2 181	21 949	83 842	81 761	165 248	3 126
33999	All other miscellaneous mfg	4	8	5	648	16 915	500	861	9 336	32 841	17 005	49 996	1 053
31-33	SANTA BARBARA, CA Manufacturing	3	155	30	2 204	68 698	1 278	2 281	28 397	146 777	113 311	262 578	9 242
31-33	SANTA CLARA, CA Manufacturing	—	711	252	46 029	2 398 910	25 363	53 252	941 819	7 469 243	5 432 820	12 883 951	983 304
322	Paper mfg	—	9	6	625	24 083	493	1 016	16 307	77 028	90 535	166 104	2 559
323	Printing & related support activities	2	53	10	836	25 909	636	1 176	16 161	53 725	25 450	79 176	8 248
3231	Printing & related support activities	2	53	10	836	25 909	636	1 176	16 161	53 725	25 450	79 176	8 248
32311	Printing	1	42	8	602	20 491	446	845	12 076	43 506	23 055	66 541	D
327	Nonmetallic mineral product mfg	1	11	6	620	25 769	470	972	20 111	102 760	54 465	159 212	6 308
332	Fabricated metal product mfg	1	255	74	4 884	174 700	3 834	8 342	115 772	358 672	164 591	525 933	22 363
3323	Architectural & structural metals mfg	—	34	13	1 116	40 597	832	1 804	25 326	69 460	59 292	130 430	5 215
33232	Ornamental & architectural metal products mfg	—	30	13	1 095	40 129	817	1 783	25 032	68 472	58 038	128 185	5 165
332322	Sheet metal work mfg ..	—	27	13	g	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	164	33	2 213	87 436	1 814	3 993	61 139	194 920	61 499	257 111	13 438
33271	Machine shops	2	157	29	2 038	80 103	1 668	3 684	55 198	173 957	56 127	231 141	12 469
332710	Machine shops	2	157	29	2 038	80 103	1 668	3 684	55 198	173 957	56 127	231 141	12 469
3328	Coating, engraving, heat treating, & allied activities ..	—	34	21	1 142	30 803	885	1 900	20 260	60 027	15 742	75 903	2 431
33281	Coating, engraving, heat treating, & allied activities	—	34	21	1 142	30 803	885	1 900	20 260	60 027	15 742	75 903	2 431
332813	Electroplating, plating, polishing, anodizing, & coloring	—	19	15	834	21 499	638	1 392	14 202	40 189	10 354	50 663	1 980

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SANTA CLARA, CA— Con. Manufacturing— Con.												
333	Machinery mfg	-	59	15	3 421	95 848	2 976	5 817	70 753	564 135	1 039 816	1 571 543	D
3332	Industrial machinery mfg ..	-	21	8	2 940	78 364	2 644	5 186	59 984	528 386	1 026 913	1 522 854	D
33329	Other industrial machinery mfg	-	21	8	2 940	78 364	2 644	5 186	59 984	528 386	1 026 913	1 522 854	D
333295	Semiconductor machinery mfg	-	12	4	2 721	68 935	2 502	4 880	55 184	509 017	1 012 328	1 488 666	D
334	Computer & electronic product mfg	-	207	98	31 871	1 894 727	14 749	31 776	643 630	5 945 100	3 824 239	9 781 279	692 424
3341	Computer & peripheral equipment mfg	-	29	5	6 488	438 181	2 844	6 742	175 552	1 001 439	1 497 568	2 490 035	131 143
33411	Computer & peripheral equipment mfg	-	29	5	6 488	438 181	2 844	6 742	175 552	1 001 439	1 497 568	2 490 035	131 143
334111	Electronic computer mfg	-	7	2	f	D	D	D	D	D	D	D	D
334112	Computer storage device mfg	-	3	1	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	-	18	2	h	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	-	22	14	5 721	384 173	1 630	3 222	104 195	1 637 523	1 083 209	2 697 983	38 639
33421	Telephone apparatus mfg	-	6	5	4 923	346 420	1 241	2 450	90 650	1 618 401	1 008 184	2 595 075	34 492
334210	Telephone apparatus mfg	-	6	5	4 923	346 420	1 241	2 450	90 650	1 618 401	1 008 184	2 595 075	34 492
33422	Radio & TV broadcasting & wireless communications equipment mfg	1	15	9	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	1	15	9	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	114	63	14 179	773 226	8 146	17 245	292 128	2 658 630	883 022	3 575 756	470 716
33441	Semiconductor & other electronic component mfg	-	114	63	14 179	773 226	8 146	17 245	292 128	2 658 630	883 022	3 575 756	470 716
334412	Bare printed circuit board mfg	1	32	15	1 736	64 035	1 348	2 943	36 630	120 030	90 243	208 844	12 302
334413	Semiconductor & related device mfg	-	48	28	8 303	545 285	3 990	8 104	177 214	2 052 343	592 290	2 670 370	421 777
334418	Printed circuit assembly (electronic assembly) mfg	-	17	14	3 549	134 472	2 363	5 218	67 022	431 967	179 885	620 561	32 627
334419	Other electronic component mfg	-	14	4	510	24 886	381	867	9 128	44 455	14 736	59 283	3 509
3345	Navigational, measuring, medical, & control instruments mfg	-	34	13	4 623	264 880	1 542	3 411	59 972	553 092	300 326	870 138	21 392
33451	Navigational, measuring, medical, & control instruments mfg	-	34	13	4 623	264 880	1 542	3 411	59 972	553 092	300 326	870 138	21 392
334510	Electromedical & electrotherapeutic apparatus mfg	-	4	2	f	D	D	D	D	D	D	D	2 455
334515	Electricity measuring & testing instrument mfg	-	16	6	3 172	181 758	1 036	2 439	43 294	288 360	131 694	436 807	13 927
334516	Analytical laboratory instrument mfg	-	5	3	705	35 975	290	574	11 053	147 697	75 707	220 740	3 953
3346	Mfg & reproducing magnetic & optical media	2	8	3	860	34 267	587	1 156	11 783	94 416	60 114	147 367	30 534
33461	Mfg & reproducing magnetic & optical media	2	8	3	860	34 267	587	1 156	11 783	94 416	60 114	147 367	30 534
334613	Magnetic & optical recording media mfg	2	7	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	19	9	1 464	80 250	714	1 403	24 369	159 190	97 653	255 585	10 847
3359	Other electrical equipment & component mfg	-	13	6	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	-	9	4	967	54 657	475	1 007	19 107	98 190	53 626	148 053	6 278
335999	All other miscellaneous electrical equipment & component mfg	-	9	4	967	54 657	475	1 007	19 107	98 190	53 626	148 053	6 278
31-33	SANTA CLARITA, CA Manufacturing	-	66	11	1 136	39 470	800	1 764	22 997	101 915	65 873	164 289	11 511

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SANTA CRUZ, CA													
31-33	Manufacturing	1	122	26	2 969	101 158	1 622	2 842	46 320	498 363	359 119	866 775	33 433
334	Computer & electronic product mfg.....	2	17	5	1 353	44 303	596	1 023	13 878	366 047	244 437	616 469	D
3344	Semiconductor & other electronic component mfg.....	-	6	2	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	-	6	2	f	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg....	-	2	1	f	D	D	D	D	D	D	D	D
SANTA FE SPRINGS, CA													
31-33	Manufacturing	1	649	260	19 438	597 087	14 111	27 300	355 793	1 504 180	1 513 411	3 028 051	93 960
311	Food mfg.....	2	16	7	843	19 250	711	1 243	14 870	76 213	133 546	211 235	5 500
314	Textile product mills.....	-	7	3	g	D	D	D	D	D	D	D	D
3141	Textile furnishings mills....	-	5	3	f	D	D	D	D	D	D	D	D
31411	Carpet & rug mills.....	-	3	2	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills.....	-	3	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg.....	3	25	9	1 156	15 955	968	1 171	10 222	21 391	39 021	59 043	1 447
3152	Cut & sew apparel mfg....	3	22	7	f	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors.....	9	16	4	f	D	D	D	D	D	D	D	518
315212	Women's, girls', & infants' cut & sew apparel contractors..	9	16	4	f	D	D	D	D	D	D	D	518
322	Paper mfg.....	1	28	20	1 894	70 860	1 288	2 775	41 456	172 154	240 196	412 144	9 978
3222	Converted paper product mfg.....	1	27	19	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg.....	-	12	10	1 219	49 009	850	1 870	28 788	106 525	182 122	288 232	5 750
322211	Corrugated & solid fiber box mfg.....	-	9	9	g	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	1	76	29	1 536	46 083	1 034	1 893	25 978	101 668	56 823	157 915	4 983
3231	Printing & related support activities.....	1	76	29	1 536	46 083	1 034	1 893	25 978	101 668	56 823	157 915	4 983
32311	Printing.....	2	64	26	1 365	38 323	919	1 668	21 407	89 096	54 154	142 638	3 973
325	Chemical mfg.....	1	30	18	982	40 485	478	1 061	17 663	92 288	126 674	222 158	6 752
326	Plastics & rubber products mfg.....	3	39	17	1 253	35 389	994	1 882	20 923	79 653	81 044	160 029	7 187
3261	Plastics product mfg.....	3	30	14	1 063	29 996	836	1 585	17 344	68 426	68 999	136 718	6 714
32619	Other plastics product mfg.....	5	21	9	686	19 890	544	970	11 615	47 356	40 063	86 864	4 653
326199	All other plastics product mfg.....	5	21	9	686	19 890	544	970	11 615	47 356	40 063	86 864	4 653
331	Primary metal mfg.....	1	10	9	636	24 361	485	1 110	15 946	103 686	130 333	242 458	4 385
332	Fabricated metal product mfg.....	1	186	55	4 106	138 192	3 055	6 349	89 491	331 620	168 998	496 442	21 419
3323	Architectural & structural metals mfg.....	-	20	9	511	21 368	330	771	10 723	63 383	42 405	105 977	2 092
3325	Hardware mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
33251	Hardware mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
332510	Hardware mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	1	94	20	1 522	51 956	1 222	2 193	35 735	115 791	60 579	172 315	10 338
33271	Machine shops.....	1	80	12	962	33 615	758	1 349	22 238	71 245	31 581	99 690	4 781
332710	Machine shops.....	1	80	12	962	33 615	758	1 349	22 238	71 245	31 581	99 690	4 781
33272	Turned product & screw, nut, & bolt mfg.....	1	14	8	560	18 341	464	844	13 497	44 546	28 998	72 625	5 557
3328	Coating, engraving, heat treating, & allied activities.	1	29	12	617	16 693	483	891	9 825	33 248	9 736	43 073	2 359
33281	Coating, engraving, heat treating, & allied activities.....	1	29	12	617	16 693	483	891	9 825	33 248	9 736	43 073	2 359
333	Machinery mfg.....	2	80	29	1 632	52 301	1 121	1 993	28 953	105 216	67 916	171 412	4 108
3339	Other general-purpose machinery mfg.....	3	26	10	524	19 971	303	565	8 775	38 450	22 077	59 984	1 308
335	Electrical equipment, appliance, & component mfg.....	-	19	9	736	23 617	568	1 219	15 193	65 413	60 034	126 595	5 090

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SANTA FE SPRINGS, CA—Con.												
	Manufacturing—Con.												
336	Transportation equipment mfg	1	27	13	1 104	40 185	809	1 626	23 513	87 223	58 314	145 002	7 583
3364	Aerospace product & parts mfg	—	7	5	545	24 699	356	751	14 433	45 538	28 368	72 358	4 242
33641	Aerospace product & parts mfg	—	7	5	545	24 699	356	751	14 433	45 538	28 368	72 358	4 242
337	Furniture & related product mfg	2	35	15	969	20 761	753	1 348	13 398	43 648	45 126	89 595	3 646
3371	Household & institutional furniture & kitchen cabinet mfg	1	22	9	705	13 580	545	978	9 269	28 901	33 342	62 713	2 684
33712	Household & institutional furniture mfg	1	16	8	660	12 519	511	920	8 616	26 816	32 209	59 493	2 661
337122	Nonupholstered wood household furniture mfg	2	9	6	501	10 052	406	706	6 852	17 389	24 279	42 159	2 489
	SANTA MARIA, CA												
31-33	Manufacturing	—	86	22	2 608	63 699	1 906	3 228	34 375	283 543	174 084	452 384	10 057
311	Food mfg	—	8	3	600	10 275	550	813	6 567	73 173	45 270	118 079	D
3114	Fruit & vegetable preserving & specialty food mfg	—	4	2	f	D	D	D	D	D	D	D	D
31141	Frozen food mfg	—	2	2	f	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg	—	2	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	7	3	565	13 629	397	868	7 783	44 576	34 370	77 286	1 140
3261	Plastics product mfg	—	5	2	f	D	D	D	D	D	D	D	D
	SANTA MONICA, CA												
31-33	Manufacturing	3	147	30	4 065	140 994	2 469	4 888	71 512	330 028	233 870	560 629	33 455
334	Computer & electronic product mfg	3	18	6	1 648	60 604	687	1 308	17 473	150 681	68 511	217 711	6 774
3345	Navigational, measuring, medical, & control instruments mfg	2	5	2	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	2	5	2	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	—	2	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	—	21	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	—	15	1	f	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg	—	1	1	f	D	D	D	D	D	D	D	D
339941	Pen & mechanical pencil mfg	—	1	1	f	D	D	D	D	D	D	D	D
	SANTA ROSA, CA												
31-33	Manufacturing	—	203	45	9 598	418 173	6 678	12 877	236 901	1 199 566	606 225	1 784 128	82 556
333	Machinery mfg	—	11	6	1 377	62 314	942	1 911	28 612	137 180	72 271	207 900	D
3333	Commercial & service industry machinery mfg ..	—	2	1	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg	—	2	1	f	D	D	D	D	D	D	D	D
333314	Optical instrument & lens mfg	—	2	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	15	8	i	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	—	6	3	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	—	6	3	h	D	D	D	D	D	D	D	D
334515	Electricity measuring & testing instrument mfg	—	1	1	h	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	—	35	5	812	27 965	541	1 091	14 885	103 348	16 938	116 690	D
3391	Medical equipment & supplies mfg	—	20	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	—	20	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SANTEE, CA													
31-33	Manufacturing	1	127	33	2 356	61 132	1 564	2 893	32 286	132 407	85 657	216 918	8 277
332	Fabricated metal product mfg	1	42	13	743	20 617	527	967	12 230	44 959	24 203	68 109	3 188
SCOTTS VALLEY, CA													
31-33	Manufacturing	1	34	18	1 997	73 115	1 016	2 437	27 262	226 758	225 061	455 025	14 596
333	Machinery mfg	-	2	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333994	Industrial process furnace & oven mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	2	12	10	730	28 297	374	930	14 907	74 081	72 449	148 741	5 601
SEAL BEACH, CA													
31-33	Manufacturing	-	10	4	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	3	1	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	-	1	1	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	1	1	g	D	D	D	D	D	D	D	D
336411	Aircraft mfg	-	1	1	g	D	D	D	D	D	D	D	D
SELMA, CA													
31-33	Manufacturing	-	13	4	715	17 402	539	1 022	10 905	42 869	89 642	131 680	4 216
333	Machinery mfg	-	2	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
333923	Overhead traveling crane, hoist, & monorail system mfg.	-	1	1	f	D	D	D	D	D	D	D	D
SIGNAL HILL, CA													
31-33	Manufacturing	3	103	17	1 133	38 436	791	1 442	20 332	89 046	79 477	166 939	7 653
SIMI VALLEY, CA													
31-33	Manufacturing	-	157	46	4 709	170 491	2 952	5 888	72 985	646 633	595 198	1 208 305	25 692
332	Fabricated metal product mfg	1	40	8	548	16 448	438	892	11 153	35 664	21 172	57 375	1 596
334	Computer & electronic product mfg	-	37	18	2 304	98 064	1 205	2 367	32 729	409 886	455 922	832 783	17 110
3341	Computer & peripheral equipment mfg	-	7	2	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	-	7	2	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	-	5	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	7	6	856	39 296	493	1 136	15 371	295 212	316 010	577 403	6 627
33451	Navigational, measuring, medical, & control instruments mfg	-	7	6	856	39 296	493	1 136	15 371	295 212	316 010	577 403	6 627

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SOUTH EL MONTE, CA													
31-33	Manufacturing	2	683	221	14 289	264 993	11 911	19 249	176 892	554 214	434 912	991 676	25 439
315	Apparel mfg	2	342	125	7 648	88 199	6 903	10 413	70 532	197 865	164 225	359 091	5 360
3152	Cut & sew apparel mfg	1	323	122	7 429	85 183	6 709	10 076	68 057	190 936	158 094	345 941	5 117
31521	Cut & sew apparel contractors	4	267	94	5 400	51 872	5 061	6 956	44 910	97 135	41 452	138 360	3 772
315212	Women's, girls', & infants' cut & sew apparel contractors ..	4	259	87	4 970	46 663	4 651	6 263	40 435	89 685	40 063	129 526	3 302
31522	Men's & boys' cut & sew apparel mfg	-	14	10	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	41	18	1 266	21 937	981	1 828	14 059	63 685	73 704	139 254	794
315232	Women's & girls' cut & sew blouse & shirt mfg	-	27	10	531	8 759	437	639	5 457	16 289	26 422	44 116	476
315239	Women's & girls' cut & sew other outerwear mfg	-	7	5	570	10 931	414	899	6 641	42 899	44 489	87 836	264
323	Printing & related support activities.....	3	38	8	533	9 921	376	582	6 501	20 928	10 228	31 231	896
3231	Printing & related support activities.....	3	38	8	533	9 921	376	582	6 501	20 928	10 228	31 231	896
325	Chemical mfg	1	12	5	642	24 088	478	979	14 360	42 034	51 481	97 145	2 788
326	Plastics & rubber products mfg	2	20	9	1 099	26 998	916	1 693	16 943	53 890	35 683	89 855	4 123
3261	Plastics product mfg	2	17	8	1 040	25 890	865	1 576	16 022	52 097	33 220	85 576	4 070
32619	Other plastics product mfg	2	12	7	934	20 774	772	1 397	12 848	45 086	25 917	70 814	3 518
326199	All other plastics product mfg	2	10	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	2	105	23	1 651	50 008	1 260	2 204	28 897	100 264	63 406	165 051	5 433
333	Machinery mfg	-	27	11	602	20 958	355	669	11 386	52 290	23 613	76 183	1 399
SOUTH GATE, CA													
31-33	Manufacturing	2	200	76	7 603	214 925	6 088	12 362	146 147	591 688	751 382	1 330 923	41 220
315	Apparel mfg	-	23	8	1 614	25 911	1 428	2 871	20 208	46 129	104 790	149 772	1 650
3152	Cut & sew apparel mfg	-	20	6	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	-	1	1	g	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	-	1	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	13	6	642	21 926	534	1 090	15 733	77 495	51 411	129 594	5 959
331	Primary metal mfg	-	13	10	701	18 204	563	997	12 179	38 278	41 902	78 600	4 391
3315	Foundries	-	11	9	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	48	10	1 220	40 559	889	1 873	26 371	111 077	92 665	193 884	8 264
3323	Architectural & structural metals mfg	1	13	5	511	16 162	307	666	9 853	28 887	27 028	55 394	1 551
337	Furniture & related product mfg	-	12	6	740	26 889	646	1 577	22 396	97 786	79 288	177 504	3 284
SOUTH SAN FRANCISCO, CA													
31-33	Manufacturing	1	193	77	10 151	485 909	5 524	11 244	149 288	1 477 988	558 427	2 011 214	196 346
311	Food mfg	4	35	22	2 427	87 275	1 596	3 176	41 561	271 181	180 060	450 521	12 724
3113	Sugar & confectionery product mfg	-	4	3	f	D	D	D	D	D	D	D	3 595
31133	Confectionery mfg from purchased chocolate ...	-	1	1	f	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate	-	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	8	12	9	1 248	45 519	657	1 256	14 329	93 871	52 119	145 794	5 557
31181	Bread & bakery product mfg	9	11	8	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	9	5	5	908	38 178	409	782	9 633	75 951	40 448	116 394	D
322	Paper mfg	-	7	6	508	21 983	413	809	14 603	42 450	68 327	110 490	5 856
3222	Converted paper product mfg	-	7	6	508	21 983	413	809	14 603	42 450	68 327	110 490	5 856

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SOUTH SAN FRANCISCO, CA—Con.												
	Manufacturing—Con.												
323	Printing & related support activities.....	3	34	10	901	34 737	566	1 134	19 944	71 526	39 375	111 515	2 802
3231	Printing & related support activities.....	3	34	10	901	34 737	566	1 134	19 944	71 526	39 375	111 515	2 802
32311	Printing.....	3	31	8	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	4	20	6	534	23 598	355	706	14 543	43 477	33 231	76 759	2 059
325	Chemical mfg	—	14	5	h	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg	—	4	2	h	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	—	4	2	h	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	—	3	1	h	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	—	19	8	903	23 988	592	1 275	13 587	128 282	33 603	159 702	4 858
	STANTON, CA												
31-33	Manufacturing	5	64	11	1 251	31 427	955	1 645	19 776	66 689	49 984	117 233	5 443
	STOCKTON, CA												
31-33	Manufacturing	1	191	72	8 783	256 735	6 900	14 278	181 845	774 595	1 103 993	1 809 775	63 230
311	Food mfg.....	2	31	17	2 484	71 157	2 050	3 942	52 420	353 743	545 503	826 895	34 205
3114	Fruit & vegetable preserving & specialty food mfg	—	6	6	1 337	33 630	1 206	2 188	27 237	161 364	160 645	278 091	D
31142	Fruit & vegetable canning, pickling, & drying	—	6	6	1 337	33 630	1 206	2 188	27 237	161 364	160 645	278 091	D
311421	Fruit & vegetable canning	—	6	6	1 337	33 630	1 206	2 188	27 237	161 364	160 645	278 091	D
321	Wood product mfg	—	10	8	1 261	32 723	1 036	2 041	24 271	71 805	147 898	218 687	3 792
3219	Other wood product mfg ...	—	10	8	1 261	32 723	1 036	2 041	24 271	71 805	147 898	218 687	3 792
32199	All other wood product mfg	—	1	1	f	D	D	D	D	D	D	D	D
321999	All other miscellaneous wood product mfg ...	—	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg	—	5	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	27	11	1 002	30 332	674	1 531	18 970	61 731	101 101	162 941	5 565
3323	Architectural & structural metals mfg	—	10	6	620	17 550	374	906	9 495	35 270	45 809	81 444	D
33231	Plate work & fabricated structural product mfg ..	—	6	4	549	14 846	322	810	8 065	30 592	41 989	72 957	1 387
332312	Fabricated structural metal mfg	—	5	3	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	—	5	3	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	4	3	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	—	4	3	f	D	D	D	D	D	D	D	D
334412	Bare printed circuit board mfg	—	3	2	f	D	D	D	D	D	D	D	D
	SUNNYVALE, CA												
31-33	Manufacturing	—	438	205	43 471	2 682 976	15 750	30 933	561 767	7 469 489	3 604 084	11 208 575	944 863
323	Printing & related support activities.....	3	45	11	870	32 715	636	1 259	17 820	64 777	42 524	108 813	D
3231	Printing & related support activities.....	3	45	11	870	32 715	636	1 259	17 820	64 777	42 524	108 813	D
32311	Printing.....	3	43	11	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	65	20	1 245	50 990	998	1 910	35 546	88 959	42 338	130 401	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	49	13	863	35 570	685	1 363	25 563	65 172	30 702	95 369	D
33271	Machine shops.....	1	44	11	772	30 964	612	1 177	22 322	53 234	25 526	78 644	5 032
332710	Machine shops.....	1	44	11	772	30 964	612	1 177	22 322	53 234	25 526	78 644	5 032

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SUNNYVALE, CA—Con.												
	Manufacturing—Con.												
333	Machinery mfg	-	28	16	2 556	147 372	1 092	2 257	46 882	283 864	218 718	513 583	21 967
3332	Industrial machinery mfg ..	1	15	10	1 332	73 243	751	1 716	31 525	141 709	113 138	262 965	D
33329	Other industrial machinery mfg	1	15	10	1 332	73 243	751	1 716	31 525	141 709	113 138	262 965	D
333295	Semiconductor machinery mfg	1	13	9	g	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	1	192	107	23 041	1 538 432	9 200	17 542	326 436	4 031 922	1 725 206	5 718 067	583 538
3341	Computer & peripheral equipment mfg	2	28	8	1 449	102 087	546	1 018	29 078	156 084	158 779	326 693	9 835
33411	Computer & peripheral equipment mfg	2	28	8	1 449	102 087	546	1 018	29 078	156 084	158 779	326 693	9 835
334111	Electronic computer mfg	-	8	2	901	69 438	313	530	14 516	88 072	76 057	160 781	3 977
334119	Other computer peripheral equipment mfg	4	16	5	503	29 558	196	403	12 899	59 973	78 100	152 489	5 448
3342	Communications equipment mfg	4	22	18	4 308	245 314	1 405	2 811	44 087	577 207	385 200	964 464	43 043
33421	Telephone apparatus mfg	7	7	6	g	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg	7	7	6	g	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	1	14	11	2 518	122 239	927	1 798	20 477	290 017	214 051	509 512	25 594
334220	Radio & TV broadcasting & wireless communications equipment mfg	1	14	11	2 518	122 239	927	1 798	20 477	290 017	214 051	509 512	25 594
3344	Semiconductor & other electronic component mfg	-	86	46	12 659	951 565	5 759	11 024	202 547	2 674 472	890 442	3 530 343	507 423
33441	Semiconductor & other electronic component mfg	-	86	46	12 659	951 565	5 759	11 024	202 547	2 674 472	890 442	3 530 343	507 423
334412	Bare printed circuit board mfg	1	7	6	f	D	D	D	D	D	D	D	5 551
334413	Semiconductor & related device mfg	-	51	28	10 277	872 168	3 855	7 021	147 710	2 536 064	706 633	3 200 135	493 686
334419	Other electronic component mfg	1	15	5	f	D	D	D	D	D	D	D	3 217
3345	Navigational, measuring, medical, & control instruments mfg	-	47	30	4 255	228 090	1 290	2 295	43 430	595 750	263 804	840 409	17 317
33451	Navigational, measuring, medical, & control instruments mfg	-	47	30	4 255	228 090	1 290	2 295	43 430	595 750	263 804	840 409	17 317
334510	Electromedical & electrotherapeutic apparatus mfg	-	4	2	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	-	4	2	f	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument mfg	-	9	7	972	54 696	282	559	10 367	167 953	83 844	248 177	6 467
334519	Other measuring & controlling device mfg	-	6	6	1 029	55 943	230	564	8 859	175 681	76 469	241 214	D
336	Transportation equipment mfg	-	8	2	j	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	-	2	1	j	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	2	1	j	D	D	D	D	D	D	D	D
336414	Guided missile & space vehicle mfg	-	1	1	j	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	2	43	22	1 856	99 211	1 025	2 035	38 301	200 568	100 392	303 783	18 206
3391	Medical equipment & supplies mfg	2	32	18	1 712	93 095	961	1 908	36 796	186 944	90 169	279 330	17 868
33911	Medical equipment & supplies mfg	2	32	18	1 712	93 095	961	1 908	36 796	186 944	90 169	279 330	17 868
339112	Surgical & medical instrument mfg	3	16	13	1 325	76 715	758	1 450	30 626	141 878	58 929	200 395	16 752

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
TEMECULA, CA													
31-33	Manufacturing	-	107	32	4 321	145 555	2 904	6 256	70 915	843 028	278 129	1 113 354	37 229
326	Plastics & rubber products mfg	-	8	3	551	15 229	406	615	7 466	48 609	32 848	81 210	D
3261	Plastics product mfg	-	6	3	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	5	3	544	15 109	400	604	7 373	48 338	32 521	80 609	D
326199	All other plastics product mfg	-	4	3	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	11	6	885	30 687	589	1 219	13 081	75 960	94 028	171 170	4 227
339	Miscellaneous mfg	-	18	7	1 673	58 301	984	2 521	25 654	626 799	89 480	708 565	7 910
3391	Medical equipment & supplies mfg	-	7	3	g	D	D	D	D	D	D	D	1 009
33911	Medical equipment & supplies mfg	-	7	3	g	D	D	D	D	D	D	D	1 009
339112	Surgical & medical instrument mfg	-	4	2	f	D	D	D	D	D	D	D	D
THOUSAND OAKS, CA													
31-33	Manufacturing	2	137	39	4 172	158 883	2 156	4 456	57 729	342 749	257 217	601 973	28 783
325	Chemical mfg	1	6	3	857	44 378	198	432	9 046	103 213	38 139	136 475	11 769
332	Fabricated metal product mfg	-	18	7	574	24 284	380	856	10 907	56 252	19 480	74 088	3 299
333	Machinery mfg	3	10	5	923	33 106	423	808	9 555	81 811	101 968	188 175	6 268
334	Computer & electronic product mfg	4	34	14	1 187	41 193	677	1 471	18 629	69 601	74 481	148 008	6 046
3344	Semiconductor & other electronic component mfg	6	12	6	518	16 142	316	689	7 453	26 561	40 254	71 712	3 114
33441	Semiconductor & other electronic component mfg	6	12	6	518	16 142	316	689	7 453	26 561	40 254	71 712	3 114
TORRANCE, CA													
31-33	Manufacturing	-	328	114	16 065	719 938	10 890	23 082	400 999	1 849 269	2 514 557	4 364 100	165 467
324	Petroleum & coal products mfg	-	1	1	f	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	-	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
332	Fabricated metal product mfg	-	57	23	2 511	96 486	1 999	3 929	64 750	221 512	203 435	430 121	22 963
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	35	11	1 866	73 173	1 495	2 963	49 766	166 596	59 224	232 105	11 248
33272	Turned product & screw, nut, & bolt mfg	-	5	3	g	D	D	D	D	D	D	D	D
332722	Bolt, nut, screw, rivet, & washer mfg	-	2	2	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	35	15	2 628	121 535	1 548	3 136	53 453	299 422	237 916	545 606	18 760
3332	Industrial machinery mfg ..	-	11	4	521	20 445	246	570	8 594	53 231	52 705	101 524	2 043
33329	Other industrial machinery mfg	-	10	4	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	10	5	1 005	46 108	532	1 065	18 868	87 134	37 977	134 938	3 633
33399	All other general-purpose machinery mfg	-	10	5	1 005	46 108	532	1 065	18 868	87 134	37 977	134 938	3 633
334	Computer & electronic product mfg	1	47	18	2 818	121 533	1 935	4 412	72 724	244 677	188 671	422 970	26 951
3344	Semiconductor & other electronic component mfg	-	14	6	1 751	74 236	1 384	3 087	58 092	128 508	87 447	208 545	21 082
33441	Semiconductor & other electronic component mfg	-	14	6	1 751	74 236	1 384	3 087	58 092	128 508	87 447	208 545	21 082
334411	Electron tube mfg	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
TORRANCE, CA—Con.													
31-33	Manufacturing—Con.												
336	Transportation equipment mfg	-	17	7	3 448	204 812	2 291	5 307	114 261	374 764	259 287	634 686	31 594
3364	Aerospace product & parts mfg	-	6	5	h	D	D	D	D	D	D	D	25 572
33641	Aerospace product & parts mfg	-	6	5	h	D	D	D	D	D	D	D	25 572
336411	Aircraft mfg	-	1	1	f	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	-	4	3	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	38	8	820	28 444	552	1 100	15 940	111 811	68 931	174 817	4 217
TRACY, CA													
31-33	Manufacturing	-	48	22	2 527	77 504	2 063	3 903	54 842	264 366	390 725	651 192	10 399
311	Food mfg	-	9	5	1 154	37 543	978	2 106	29 113	166 990	280 018	447 044	5 349
TULARE, CA													
31-33	Manufacturing	-	35	16	1 797	61 028	1 428	3 282	43 996	206 316	1 136 200	1 331 823	39 990
311	Food mfg	-	13	9	1 337	47 697	1 105	2 652	35 946	178 030	1 114 066	1 281 612	D
3115	Dairy product mfg	-	6	6	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	-	5	5	f	D	D	D	D	D	D	D	D
TURLOCK, CA													
31-33	Manufacturing	1	69	29	3 636	92 972	3 009	6 067	69 521	409 913	445 217	857 167	19 012
311	Food mfg	-	16	11	2 271	53 871	2 028	4 250	44 358	306 476	314 544	622 194	8 373
3116	Meat product mfg	-	3	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	3	2	g	D	D	D	D	D	D	D	D
311615	Poultry processing	-	2	2	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	17	7	621	19 069	455	825	11 948	43 777	49 159	93 165	2 169
TUSTIN, CA													
31-33	Manufacturing	-	141	48	6 771	282 538	4 470	8 819	132 245	833 818	642 075	1 446 290	62 075
326	Plastics & rubber products mfg	3	8	5	558	11 426	455	772	6 398	38 235	35 235	71 384	3 745
3261	Plastics product mfg	3	8	5	558	11 426	455	772	6 398	38 235	35 235	71 384	3 745
333	Machinery mfg	-	10	7	702	19 557	388	796	8 343	56 083	107 661	161 691	7 755
3333	Commercial & service industry machinery mfg ..	-	3	2	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg	-	3	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	38	16	2 404	133 824	1 359	2 635	45 528	309 205	206 429	515 733	24 148
3342	Communications equipment mfg	-	3	1	f	D	D	D	D	D	D	D	D
33421	Telephone apparatus mfg	-	2	1	f	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg	-	2	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	20	8	1 141	35 916	826	1 616	17 637	88 690	68 063	157 052	D
33441	Semiconductor & other electronic component mfg	-	20	8	1 141	35 916	826	1 616	17 637	88 690	68 063	157 052	D
337	Furniture & related product mfg	-	7	2	g	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	-	2	1	g	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	-	2	1	g	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) mfg	-	1	1	g	D	D	D	D	D	D	D	D
UKIAH, CA													
31-33	Manufacturing	-	35	6	654	19 472	443	919	12 619	39 321	65 176	106 668	4 584

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
UNION CITY, CA													
31-33	Manufacturing	1	93	39	3 696	128 063	2 640	5 369	78 476	360 615	317 003	677 524	19 329
311	Food mfg.....	1	9	5	898	32 977	780	1 583	24 353	114 002	128 696	242 243	5 444
3113	Sugar & confectionery product mfg.....	3	3	3	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg....	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	17	8	585	18 152	437	878	13 527	48 597	35 705	82 577	3 409
UPLAND, CA													
31-33	Manufacturing	3	95	21	1 510	40 091	1 044	1 986	21 656	99 138	125 435	224 140	5 546
VACAVILLE, CA													
31-33	Manufacturing	3	58	17	2 382	71 058	1 952	3 121	46 591	217 827	136 810	355 804	14 086
311	Food mfg.....	9	6	2	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg.....	9	2	2	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying.....	9	2	2	f	D	D	D	D	D	D	D	D
311422	Specialty canning.....	9	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg.....	1	4	4	f	D	D	D	D	D	D	D	D
VALLEJO, CA													
31-33	Manufacturing	-	40	8	682	23 001	470	969	14 448	84 067	113 340	198 232	8 984
VERNON, CA *													
31-33	Manufacturing	1	396	270	28 688	780 120	22 741	46 151	484 651	2 364 022	2 921 064	5 257 056	98 068
311	Food mfg.....	1	45	32	4 923	141 168	3 876	7 883	89 398	573 232	847 439	1 407 049	22 448
3116	Meat product mfg.....	1	16	11	2 180	55 257	1 901	3 911	40 190	193 110	427 286	623 877	5 376
31161	Animal slaughtering & processing.....	1	16	11	2 180	55 257	1 901	3 911	40 190	193 110	427 286	623 877	5 376
311611	Animal (except poultry) slaughtering.....	-	6	5	1 556	39 910	1 345	3 102	30 839	122 187	344 694	468 003	2 643
3118	Bakeries & tortilla mfg.....	-	4	4	f	D	D	D	D	D	D	D	3 760
31181	Bread & bakery product mfg.....	-	3	3	655	16 734	443	935	8 462	55 310	30 241	85 637	D
311812	Commercial bakeries ..	-	3	3	655	16 734	443	935	8 462	55 310	30 241	85 637	D
313	Textile mills.....	3	37	23	2 492	59 711	2 161	3 960	40 683	112 922	163 477	277 359	10 066
3132	Fabric mills.....	4	16	11	1 437	31 772	1 258	2 088	19 704	55 924	95 115	151 973	5 087
31321	Broadwoven fabric mills ..	9	5	3	500	6 832	464	558	6 216	10 984	15 225	26 224	D
313210	Broadwoven fabric mills.....	9	5	3	500	6 832	464	558	6 216	10 984	15 225	26 224	D
31324	Knit fabric mills.....	3	7	6	735	21 435	626	1 184	11 087	34 387	72 163	107 469	2 772
313241	Weft knit fabric mills ..	3	7	6	735	21 435	626	1 184	11 087	34 387	72 163	107 469	2 772
3133	Textile & fabric finishing & fabric coating mills.....	3	18	12	1 030	27 399	879	1 826	20 517	55 921	66 225	122 172	4 758
31331	Textile & fabric finishing mills.....	2	15	9	923	23 761	799	1 673	18 459	48 946	51 596	100 480	D
313312	Textile & fabric finishing mills.....	2	6	4	648	16 465	564	1 261	13 358	20 511	33 751	53 780	3 356
314	Textile product mills.....	3	26	16	1 685	30 189	1 424	4 919	22 403	65 947	81 288	143 323	3 300
3141	Textile furnishings mills....	3	9	7	1 010	17 470	912	1 618	14 162	44 380	65 303	105 486	1 261
31412	Curtain & linen mills.....	3	9	7	1 010	17 470	912	1 618	14 162	44 380	65 303	105 486	1 261
314129	Other household textile product mills.....	3	8	7	g	D	D	D	D	D	D	D	D
3149	Other textile product mills..	4	17	9	675	12 719	512	3 301	8 241	21 567	15 985	37 837	2 039

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	VERNON, CA *—Con.												
	Manufacturing—Con.												
315	Apparel mfg	2	105	73	7 121	160 846	5 733	10 431	95 362	411 711	577 955	990 394	8 541
3151	Apparel knitting mills	2	10	6	504	10 011	405	649	6 106	19 676	33 130	54 136	810
3152	Cut & sew apparel mfg	1	84	62	6 228	145 055	5 045	9 426	86 324	378 290	537 018	914 573	7 282
31521	Cut & sew apparel contractors	5	35	22	1 835	23 485	1 759	3 256	20 250	42 943	11 384	53 837	1 419
315212	Women's, girls', & infants' cut & sew apparel contractors ..	6	28	16	1 492	19 905	1 428	2 592	17 061	36 776	8 856	45 160	1 219
31522	Men's & boys' cut & sew apparel mfg	1	9	7	835	20 080	629	1 081	9 549	50 580	50 856	98 171	1 172
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	-	4	4	592	14 845	466	737	5 865	33 453	21 511	53 991	D
31523	Women's & girls' cut & sew apparel mfg	1	40	33	3 558	101 490	2 657	5 089	56 525	284 767	474 778	762 565	4 691
315232	Women's & girls' cut & sew blouse & shirt mfg	2	13	11	997	25 315	739	1 173	12 044	82 081	151 446	227 923	891
315233	Women's & girls' cut & sew dress mfg	-	14	12	1 171	46 019	845	1 685	25 402	99 894	219 820	321 156	2 200
315239	Women's & girls' cut & sew other outerwear mfg	4	10	8	1 145	22 145	932	1 848	13 897	82 658	79 414	167 911	1 321
322	Paper mfg	-	15	13	1 282	44 670	993	1 900	30 523	117 231	160 862	279 421	5 216
3222	Converted paper product mfg	-	14	12	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	7	7	685	24 174	515	1 044	15 598	54 539	74 892	129 439	2 125
323	Printing & related support activities	1	22	16	1 397	34 119	1 128	2 377	23 795	70 205	52 856	124 494	5 851
3231	Printing & related support activities	1	22	16	1 397	34 119	1 128	2 377	23 795	70 205	52 856	124 494	5 851
32311	Printing	2	18	13	1 260	30 265	1 017	2 154	20 990	62 124	51 079	114 637	D
323113	Commercial screen printing	2	11	7	905	15 273	792	1 610	12 294	32 574	26 570	59 619	1 821
325	Chemical mfg	-	14	9	869	28 682	706	1 450	17 619	191 194	178 021	367 953	7 606
326	Plastics & rubber products mfg	1	13	10	1 075	20 640	936	1 303	13 309	102 096	102 541	201 038	2 973
3261	Plastics product mfg	1	13	10	1 075	20 640	936	1 303	13 309	102 096	102 541	201 038	2 973
32619	Other plastics product mfg	1	6	5	738	11 154	650	726	8 530	81 484	71 310	149 449	2 241
326199	All other plastics product mfg	1	6	5	738	11 154	650	726	8 530	81 484	71 310	149 449	2 241
327	Nonmetallic mineral product mfg	1	14	9	989	36 079	847	1 700	28 790	107 614	80 422	190 541	4 052
3272	Glass & glass product mfg ..	-	5	4	715	28 845	630	1 273	23 555	89 954	64 738	157 152	2 005
32721	Glass & glass product mfg	-	5	4	715	28 845	630	1 273	23 555	89 954	64 738	157 152	2 005
327213	Glass container mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	10	8	709	32 235	550	1 223	20 068	71 355	147 001	214 705	6 947
332	Fabricated metal product mfg	-	30	18	1 041	35 544	765	1 645	19 753	84 981	66 843	150 607	3 059
333	Machinery mfg	1	11	6	846	38 946	491	961	20 131	89 529	60 449	142 611	3 795
3339	Other general-purpose machinery mfg	-	4	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	5	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	3	4	4	541	11 812	450	897	6 715	24 470	11 046	35 679	784
3363	Motor vehicle parts mfg ...	3	4	4	541	11 812	450	897	6 715	24 470	11 046	35 679	784
337	Furniture & related product mfg	4	16	13	1 415	33 483	1 197	2 414	23 049	55 860	57 651	114 658	1 925
3371	Household & institutional furniture & kitchen cabinet mfg	4	11	9	1 265	30 537	1 067	2 165	20 818	51 447	49 386	102 005	1 754
33712	Household & institutional furniture mfg	4	11	9	1 265	30 537	1 067	2 165	20 818	51 447	49 386	102 005	1 754
337122	Nonupholstered wood household furniture mfg	3	3	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	14	9	768	16 778	616	1 273	10 756	39 186	33 563	73 226	1 833
3399	Other miscellaneous mfg ..	1	11	8	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	1	9	7	704	14 562	566	1 206	9 674	32 216	30 332	62 811	1 554
339999	All other miscellaneous mfg	-	6	6	660	13 652	533	1 139	9 097	30 392	28 568	59 177	1 488

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
VICTORVILLE, CA													
31-33	Manufacturing	-	29	5	773	27 799	616	1 140	20 176	128 099	90 094	216 258	28 058
327	Nonmetallic mineral product mfg	-	6	2	f	D	D	D	D	D	D	D	D
VISALIA, CA													
31-33	Manufacturing	1	87	32	3 873	106 724	3 033	5 927	75 360	373 411	458 928	821 209	19 823
311	Food mfg	-	10	5	875	29 532	770	1 505	24 012	141 665	211 371	339 880	5 413
323	Printing & related support activities	5	11	5	f	D	D	D	D	D	D	D	2 628
3231	Printing & related support activities	5	11	5	f	D	D	D	D	D	D	D	2 628
32311	Printing	5	11	5	f	D	D	D	D	D	D	D	2 628
323117	Book printing	-	1	1	f	D	D	D	D	D	D	D	D
VISTA, CA													
31-33	Manufacturing	2	153	54	5 607	148 864	3 903	7 997	79 781	390 261	351 193	743 903	31 691
323	Printing & related support activities	4	12	5	630	20 228	455	993	12 843	39 027	26 241	65 180	4 256
3231	Printing & related support activities	4	12	5	630	20 228	455	993	12 843	39 027	26 241	65 180	4 256
32311	Printing	4	12	5	630	20 228	455	993	12 843	39 027	26 241	65 180	4 256
326	Plastics & rubber products mfg	1	14	4	710	19 179	422	803	8 304	55 397	62 996	119 644	2 653
3261	Plastics product mfg	-	8	2	609	16 255	359	682	6 835	47 384	58 462	107 173	2 146
32619	Other plastics product mfg	-	5	2	f	D	D	D	D	D	D	D	1 925
326191	Plastics plumbing fixture mfg	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	25	9	504	16 984	374	707	10 117	35 215	17 562	52 656	3 343
333	Machinery mfg	3	11	3	512	14 229	330	645	6 878	39 185	23 721	62 748	4 359
334	Computer & electronic product mfg	5	15	9	767	21 908	443	1 020	8 953	74 634	83 046	159 710	4 702
339	Miscellaneous mfg	-	21	7	571	15 933	403	729	6 878	38 126	26 498	65 154	2 793
WALNUT, CA													
31-33	Manufacturing	2	48	9	665	22 963	455	886	9 960	77 308	71 227	146 721	4 082
WALNUT CREEK, CA													
31-33	Manufacturing	3	45	7	1 417	63 520	617	1 183	18 712	239 193	117 212	355 131	11 288
334	Computer & electronic product mfg	2	6	4	1 070	51 964	392	762	12 084	205 674	93 484	297 675	9 439
3345	Navigational, measuring, medical, & control instruments mfg	2	5	3	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	2	5	3	f	D	D	D	D	D	D	D	D
WATSONVILLE, CA													
31-33	Manufacturing	1	81	31	3 482	87 020	2 498	4 678	50 196	268 444	260 387	555 602	21 131
311	Food mfg	-	25	11	1 765	36 118	1 466	2 739	26 429	133 227	139 570	288 541	D
3114	Fruit & vegetable preserving & specialty food mfg	-	9	6	g	D	D	D	D	D	D	D	6 512
31141	Frozen food mfg	-	7	5	1 296	24 652	1 174	2 191	19 699	74 917	83 544	174 027	D
311411	Frozen fruit, juice, & vegetable mfg	-	7	5	1 296	24 652	1 174	2 191	19 699	74 917	83 544	174 027	D
334	Computer & electronic product mfg	-	12	7	910	26 982	458	834	9 231	76 686	54 004	140 441	D
3344	Semiconductor & other electronic component mfg	-	7	5	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	7	5	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WESTLAKE VILLAGE, CA													
31-33	Manufacturing	1	42	11	1 312	47 297	817	1 686	22 101	122 245	62 708	184 879	4 652
334	Computer & electronic product mfg.....	2	16	6	573	23 475	326	653	10 122	60 126	28 144	88 654	2 729
WESTMINSTER, CA													
31-33	Manufacturing	4	128	19	1 984	43 728	1 644	2 674	28 791	96 068	70 637	168 506	6 301
WEST SACRAMENTO, CA													
31-33	Manufacturing	-	68	17	2 487	91 457	1 386	2 888	40 099	342 378	402 462	712 910	25 599
325	Chemical mfg.....	1	7	5	f	D	D	D	D	D	D	D	D
WHITTIER, CA													
31-33	Manufacturing	-	76	26	2 733	69 367	2 108	3 939	40 819	158 062	140 510	298 336	7 908
337	Furniture & related product mfg.....	-	7	5	893	20 046	679	1 389	14 332	50 785	59 272	109 304	2 334
3371	Household & institutional furniture & kitchen cabinet mfg.....	-	5	4	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg.....	-	5	4	f	D	D	D	D	D	D	D	D
337124	Metal household furniture mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
WILLITS, CA													
31-33	Manufacturing	-	25	8	964	22 830	642	1 036	14 749	68 622	53 151	117 274	2 460
332	Fabricated metal product mfg.....	-	7	3	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg.....	-	3	1	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
WOODLAND, CA													
31-33	Manufacturing	1	65	23	2 309	77 605	1 769	3 781	48 484	205 393	271 462	484 640	D
311	Food mfg.....	2	11	5	530	19 176	466	1 041	13 579	36 780	121 625	167 183	D
321	Wood product mfg.....	-	8	4	f	D	D	D	D	D	D	D	649
3219	Other wood product mfg...	-	5	3	f	D	D	D	D	D	D	D	D
32199	All other wood product mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
321991	Manufactured home (mobile home) mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
YORBA LINDA, CA													
31-33	Manufacturing	1	72	13	1 523	70 600	844	1 550	22 893	116 866	88 923	205 796	9 696
YUBA CITY, CA													
31-33	Manufacturing	-	35	5	759	27 239	569	1 336	16 960	116 044	125 886	234 111	7 379

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

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

Table 5. Detailed Statistics for the State: 1997

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

Item	Value	Item	Value
CALIFORNIA		CALIFORNIA—Con.	
Companies ¹ number..	46 670	Quantity of electricity purchased for heat and power 1,000 kWh..	44 426 236
All establishments number..	49 418	Quantity of electricity generated less sold for heat and power . . . 1,000 kWh..	2 313 969
Establishments with 1 to 19 employees number..	34 152	Total value of shipments \$1,000..	379 612 443
Establishments with 20 to 99 employees number..	11 669	Value of resales \$1,000..	15 955 627
Establishments with 100 employees or more number..	3 597	Value added \$1,000..	195 872 810
All employees number..	1 809 667	Total inventories, beginning of year \$1,000..	49 339 189
Total compensation ² \$1,000..	81 050 421	Finished goods inventories, beginning of year \$1,000..	14 633 192
Annual payroll \$1,000..	65 762 848	Work-in-process inventories, beginning of year \$1,000..	18 905 395
Total fringe benefits \$1,000..	15 287 573	Materials and supplies inventories, beginning of year \$1,000..	15 800 602
Production workers, average for year number..	1 181 865	Total inventories, end of year \$1,000..	51 027 587
Production workers on March 12 number..	1 162 372	Finished goods inventories, end of year \$1,000..	15 783 917
Production workers on May 12 number..	1 173 191	Work-in-process inventories, end of year \$1,000..	18 561 398
Production workers on August 12 number..	1 206 255	Materials and supplies inventories, end of year \$1,000..	16 682 272
Production workers on November 12 number..	1 185 642	Gross book value of total assets at beginning of year \$1,000..	122 716 487
Production-worker hours 1,000..	2 317 867	Total capital expenditures (new and used) \$1,000..	16 422 155
Production-worker wages \$1,000..	31 140 024	Capital expenditures for buildings and other structures (new and used) \$1,000..	3 073 392
Total cost of materials \$1,000..	184 701 629	Capital expenditures for machinery and equipment (new and used) \$1,000..	13 348 763
Cost of materials, parts, containers, etc., consumed \$1,000..	158 755 349	Total retirements ² \$1,000..	5 208 776
Cost of resales \$1,000..	12 316 693	Gross book value of total assets at end of year \$1,000..	133 929 866
Cost of fuels \$1,000..	1 492 597	Total depreciation during year ² \$1,000..	10 001 818
Cost of purchased electricity \$1,000..	3 441 065	Total rental payments ² \$1,000..	4 776 690
Cost of contract work \$1,000..	8 695 925	Buildings and other structures rental payments ² \$1,000..	2 669 983
		Machinery and equipment rental payments ² \$1,000..	2 106 707

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

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

Appendix A.

Explanation of Terms

BEGINNING- AND END-OF-YEAR INVENTORIES

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

Inventory Data by Stage of Fabrication

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

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

COST OF MATERIALS

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

Included in this item are:

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

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

Duplication in Cost of Materials and Value of Shipment

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

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

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

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

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

DEPRECIATION CHARGES FOR FIXED ASSETS

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

EMPLOYEES

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

Production Workers

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

All Other Employees

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

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

FRINGE BENEFITS

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

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

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

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

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

NUMBER OF ESTABLISHMENTS AND COMPANIES

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

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

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

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

PAYROLL

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

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

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

PRODUCTION-WORKER HOURS

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

QUANTITY OF ELECTRIC ENERGY CONSUMED FOR HEAT AND POWER

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

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

RENTAL PAYMENTS

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

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

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

RETIREMENTS OF DEPRECIABLE ASSETS

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

TOTAL CAPITAL EXPENDITURES (NEW AND USED)

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

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

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

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

VALUE ADDED

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

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

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

VALUE OF SHIPMENTS

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

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

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

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

Duplication in Cost of Materials and Value of Shipment

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

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

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

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

Appendix B.

NAICS Codes, Titles, and Descriptions

SECTOR 31-33 MANUFACTURING

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

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

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

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

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

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

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

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

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

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

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

311 Food Manufacturing

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

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

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

3111 Animal Food Manufacturing

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

31111 Animal Food Manufacturing

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

311111 Dog and Cat Food Manufacturing

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

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

2047 Dog and cat food

311119 Other Animal Food Manufacturing

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

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

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

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

3112 Grain and Oilseed Milling

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

31121 Flour Milling and Malt Manufacturing

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

311211 Flour Milling

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

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

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

2041 Flour and other grain mill products

311212 Rice Milling

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

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

2044 Rice milling

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

311213 Malt Manufacturing

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

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

2083 Malt

31122 Starch and Vegetable Fats and Oils Manufacturing

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

311221 Wet Corn Milling

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

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

2046 Wet corn milling

311222 Soybean Processing

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

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

2075 Soybean oil mills (pt)

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

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

311223 Other Oilseed Processing

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

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

2074 Cottonseed oil mills (pt)

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

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

311225 Fats and Oils Refining and Blending

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

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

2074 Cottonseed oil mills (pt)

2075 Soybean oil mills (pt)

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

2077 Animal and marine fats and oil (pt)

2079 Shortening and cooking oils

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

31123 Breakfast Cereal Manufacturing

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

311230 Breakfast Cereal Manufacturing

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

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

2043 Cereal breakfast foods (pt)

3113 Sugar and Confectionery Product Manufacturing

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

31131 Sugar Manufacturing

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

311311 Sugarcane Mills

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

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

2061 Raw cane sugar

311312 Cane Sugar Refining

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

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

2062 Cane sugar refining

311313 Beet Sugar Manufacturing

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

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

2063 Beet sugar

31132 Chocolate and Confectionery Manufacturing From Cacao Beans

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

311320 Chocolate and Confectionery Manufacturing From Cacao Beans

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

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

2066 Chocolate and cocoa products

31133 Confectionery Manufacturing From Purchased Chocolate

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

311330 Confectionery Manufacturing From Purchased Chocolate

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

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

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

5441 Candy, nut, and confectionery stores (pt)

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

3113301 Chocolate and Chocolate-type Confectionery Retail – Manufacturer

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

3113302 Chocolate and Chocolate-type Confectionery – Manufacturer

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

31134 Nonchocolate Confectionery Manufacturing

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

311340 Nonchocolate Confectionery Manufacturing

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

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

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

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

5441 Candy, nut, and confectionery stores (pt)

3113401 Nonchocolate-Type Confectionery Products Retail – Manufacturer

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

3113402 Nonchocolate-Type Confectionery Products – Manufacturer

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

3114 Fruit and Vegetable Preserving and Specialty Food Manufacturing

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

31141 Frozen Food Manufacturing

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

311411 Frozen Fruit, Juice, and Vegetable Manufacturing

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

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

2037 Frozen fruits and vegetables

311412 Frozen Specialty Food Manufacturing

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

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

2038 Frozen specialties, n.e.c.

31142 Fruit and Vegetable Canning, Pickling, and Drying

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

311421 Fruit and Vegetable Canning

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

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

2033 Canned fruits and vegetables

2035 Pickles, sauces, and salad dressings (pt)

311422 Specialty Canning

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

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

2032 Canned specialties (pt)

311423 Dried and Dehydrated Food Manufacturing

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

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

2034 Dehydrated fruits, vegetables, and soups (pt)

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

3115 Dairy Product Manufacturing

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

31151 Dairy Product (Except Frozen) Manufacturing

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

311511 Fluid Milk Manufacturing

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

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

2026 Fluid milk

311512 Creamery Butter Manufacturing

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

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

2021 Creamery butter

311513 Cheese Manufacturing

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

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

2022 Cheese, natural and processed

311514 Dry, Condensed, and Evaporated Dairy Product Manufacturing

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

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

2023 Dry, condensed and evaporated milk

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

31152 Ice Cream and Frozen Dessert Manufacturing

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

311520 Ice Cream and Frozen Dessert Manufacturing

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

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

2024 Ice cream and frozen desserts

3116 Meat Product Manufacturing

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

31161 Animal Slaughtering and Processing

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

311611 Animal (Except Poultry) Slaughtering

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

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

2011 Meat packing plants

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

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

311612 Meat Processed From Carcasses

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

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

2013 Sausages and other prepared meats

5147 Meat and meat products (pt)

311613 Rendering and Meat Byproduct Processing

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

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

2077 Animal and marine fats and oil (pt)

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

311615 Poultry Processing

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

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

2015 Poultry and egg processing (pt)

3117 Seafood Product Preparation and Packaging

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

31171 Seafood Product Preparation and Packaging

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

311711 Seafood Canning

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

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

2077 Animal and marine fats and oil (pt)

2091 Canned and cured seafood

311712 Fresh and Frozen Seafood Processing

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

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

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

2077 Animal and marine fats and oil (pt)

2092 Prepared fresh or frozen fish and seafood

3118 Bakeries and Tortilla Manufacturing

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

31181 Bread and Bakery Product Manufacturing

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

311811 Retail Bakeries

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

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

5461 Retail bakeries (pt)

311812 Commercial Bakeries

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

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

2051 Bread, cake, and related products

2052 Cookies and crackers (pt)

311813 Frozen Cakes, Pies, and Other Pastries Manufacturing

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

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

2053 Frozen bakery products, except bread

31182 Cookie, Cracker, and Pasta Manufacturing

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

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

311821 Cookie and Cracker Manufacturing

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

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

2052 Cookies and crackers (pt)

311822 Flour Mixes and Dough Manufacturing From Purchased Flour

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

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

2045 Blended and prepared flour

311823 Dry Pasta Manufacturing

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

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

2098 Macaroni and spaghetti

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

31183 Tortilla Manufacturing

This industry comprises establishments primarily engaged in manufacturing tortillas.

311830 Tortilla Manufacturing

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

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

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

3119 Other Food Manufacturing

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

31191 Snack Food Manufacturing

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

311911 Roasted Nuts and Peanut Butter Manufacturing

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

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

2068 Salted and roasted nuts and seeds

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

311919 Other Snack Food Manufacturing

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

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

2052 Cookies and crackers (pt)

2096 Potato chips and similar snacks

31192 Coffee and Tea Manufacturing

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

311920 Coffee and Tea Manufacturing

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

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

2043 Cereal breakfast foods (pt)

2095 Roasted coffee (pt)

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

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

31193 Flavoring Syrup and Concentrate Manufacturing

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

311930 Flavoring Syrup and Concentrate Manufacturing

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

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

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

31194 Seasoning and Dressing Manufacturing

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

311941 Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing

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

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

2035 Pickles, sauces, and salad dressings (pt)

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

311942 Spice and Extract Manufacturing

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

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

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

2095 Roasted coffee (pt)

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

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

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

31199 All Other Food Manufacturing

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

311991 Perishable Prepared Food Manufacturing

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

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

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

311999 All Other Miscellaneous Food Manufacturing

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

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

2015 Poultry slaughtering and processing (pt)

2032 Canned specialties (pt)

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

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

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

312 Beverage and Tobacco Product Manufacturing

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

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

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

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

3121 Beverage Manufacturing

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

31211 Soft Drink and Ice Manufacturing

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

312111 Soft Drink Manufacturing

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

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

2086 Bottled and canned soft drinks (pt)

312112 Bottled Water Manufacturing

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

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

2086 Bottled and canned soft drinks (pt)

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

312113 Ice Manufacturing

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

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

2097 Manufactured ice

31212 Breweries

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

312120 Breweries

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

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

2082 Malt beverages

31213 Wineries

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

312130 Wineries

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

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

2084 Wines, brandy, and brandy spirits

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

31214 Distilleries

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

312140 Distilleries

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

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

2085 Distilled liquor, except brandy

3122 Tobacco Manufacturing

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

31221 Tobacco Stemming and Redrying

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

312210 Tobacco Stemming and Redrying

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

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

2141 Tobacco stemming and redrying (pt)

31222 Tobacco Product Manufacturing

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

312221 Cigarette Manufacturing

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

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

2111 Cigarettes

312229 Other Tobacco Product Manufacturing

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

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

2121 Cigars

2131 Chewing and smoking tobacco

2141 Tobacco stemming and redrying (pt)

313 Textile Mills

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

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

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

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

3131 Fiber, Yarn, and Thread Mills

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

31311 Fiber, Yarn, and Thread Mills

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

313111 Yarn Spinning Mills

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

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

2281 Yarn spinning mills

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

313112 Yarn Texturizing, Throwing, and Twisting Mills

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

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

2282 Yarn throwing and winding mills (pt)

3131121 Yarn Texturing, Throwing, and Twisting Mills – Manufacturer

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

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

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

313113 Thread Mills

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

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

2284 Thread mills (pt)

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

3132 Fabric Mills

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

31321 Broadwoven Fabric Mills

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

313210 Broadwoven Fabric Mills

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

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

2211 Weaving mills, cotton

2221 Weaving mills, synthetics

2231 Weaving and finishing mills, wool (pt)

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

31322 Narrow Fabric Mills and Schiffli Machine Embroidery

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

313221 Narrow Fabric Mills

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

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

2241 Narrow fabric mills

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

313222 Schiffli Machine Embroidery

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

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

2397 Schiffli machine embroideries

31323 Nonwoven Fabric Mills

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

313230 Nonwoven Fabric Mills

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

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

2297 Nonwoven fabrics

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

31324 Knit Fabric Mills

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

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

313241 Weft Knit Fabric Mills

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

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

2257 Circular knit fabric mills (pt)

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

3132411 Weft Knit Fabric Mills – Manufacturer

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

3132412 Weft Knit Fabric Mills – Jobber

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

3132413 Weft Knit Fabric Mills – Contractor

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

313249 Other Knit Fabric and Lace Mills

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

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

2258 Lace and warp knit fabric mills (pt)

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

3132491 Other Knit Fabric and Lace Mills – Manufacturer

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

3132492 Other Knit Fabric and Lace Mills – Jobber

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

3132493 Other Knit Fabric and Lace Mills – Contractor

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

3133 Textile and Fabric Finishing and Fabric Coating Mills

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

31331 Textile and Fabric Finishing Mills

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

313311 Broadwoven Fabric Finishing Mills

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

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

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

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

3133111 Broadwoven Fabric Finishing Mills – Manufacturer

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

3133112 Broadwoven Fabric Finishing Mills – Converter

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

3133113 Broadwoven Fabric Finishing Mills – Commission Finisher

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

313312 Textile and Fabric Finishing (Except Broadwoven Fabric) Mills

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

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

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

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

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

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

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

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

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

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

31332 Fabric Coating Mills

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

313320 Fabric Coating Mills

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

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

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

314 Textile Product Mills

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

3141 Textile Furnishings Mills

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

31411 Carpet and Rug Mills

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

314110 Carpet and Rug Mills

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

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

2273 Carpets and rugs

31412 Curtain and Linen Mills

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

314121 Curtain and Drapery Mills

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

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

2391 Curtains and draperies

5714 Drapery and upholstery stores (pt)

314129 Other Household Textile Product Mills

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

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

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

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

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

3149 Other Textile Product Mills

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

31491 Textile Bag and Canvas Mills

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

314911 Textile Bag Mills

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

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

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

2393 Textile bags

314912 Canvas and Related Product Mills

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

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

2394 Canvas and related products

31499 All Other Textile Product Mills

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

314991 Rope, Cordage, and Twine Mills

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

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

2298 Cordage and twine

314992 Tire Cord and Tire Fabric Mills

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

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

2296 Tire cord and fabric

314999 All Other Miscellaneous Textile Product Mills

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

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

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

2395 Pleating and stitching (pt)

2396 Automotive and apparel trimmings (pt)

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

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

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

315 Apparel Manufacturing

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

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

3151 Apparel Knitting Mills

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

31511 Hosiery and Sock Mills

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

315111 Sheer Hosiery Mills

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

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

2251 Women's hosiery, except socks

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

315119 Other Hosiery and Sock Mills

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

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

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

31519 Other Apparel Knitting Mills

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

315191 Outerwear Knitting Mills

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

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

2253 Knit outerwear mills

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

3151911 Outerwear Knitting Mills – Manufacturer

Establishments primarily engaged in knitting outerwear clothing.

3151912 Outerwear Knitting Mills – Jobber

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

3151913 Outerwear Knitting Mills – Contractor

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

315192 Underwear and Nightwear Knitting Mills

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

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

2254 Knit underwear mills

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

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

3152 Cut and Sew Apparel Manufacturing

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

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

31521 Cut and Sew Apparel Contractors

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

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

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

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

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

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

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

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

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

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

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

2384 Robes and dressing gowns (pt)

2385 Waterproof outer garments (pt)

2395 Pleating and stitching (pt)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2385 Waterproof outer garments (pt)

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

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

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

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

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

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

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

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

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

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

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

2342 Brassieres and allied garments (pt)

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

2384 Robes and dressing gowns (pt)

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

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

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

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

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

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

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

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

2331 Women's blouses and waists (pt)

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

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

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

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

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

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

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

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

2335 Women's dresses (pt)

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

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

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

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

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

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

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

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

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

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

2337 Women's suits and coats (pt)

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

2385 Waterproof outer garments (pt)

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

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

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

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

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

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

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

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

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

2385 Waterproof outer garments (pt)

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

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

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

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

31529 Other Cut and Sew Apparel Manufacturing

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

315291 Infants' Cut and Sew Apparel Manufacturing

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

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

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

3152911 Infants' Cut and Sew Apparel Manufacturing – Manufacturer

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

3152912 Infants' Cut and Sew Apparel Manufacturing – Jobbers

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

315292 Fur and Leather Apparel Manufacturing

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

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

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

315299 All Other Cut and Sew Apparel Manufacturing

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

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

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

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

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

3152991 All Other Cut and Sew Apparel Manufacturing – Manufacturer

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

3152992 All Other Cut and Sew Apparel Manufacturing – Jobbers

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

3159 Apparel Accessories and Other Apparel Manufacturing

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

31599 Apparel Accessories and Other Apparel Manufacturing

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

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

315991 Hat, Cap, and Millinery Manufacturing

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

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

2353 Hats, caps, and millinery

315992 Glove and Mitten Manufacturing

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

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

2381 Fabric gloves and mittens

3151 Leather gloves and mittens

315993 Men's and Boys' Neckwear Manufacturing

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

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

2323 Men's and boys' neckwear

315999 Other Apparel Accessories and Other Apparel Manufacturing

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

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

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

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

2385 Waterproof outer garments (pt)

2387 Apparel belts

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

2396 Automotive and apparel trimmings (pt)

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

5699 Miscellaneous apparel and accessory stores (pt)

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

316 Leather and Allied Product Manufacturing

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

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

3161 Leather and Hide Tanning and Finishing

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

31611 Leather and Hide Tanning and Finishing

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

316110 Leather and Hide Tanning and Finishing

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

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

3111 Leather tanning and finishing

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

3162 Footwear Manufacturing

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

31621 Footwear Manufacturing

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

316211 Rubber and Plastics Footwear Manufacturing

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

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

Rubber and plastics footwear

316212 House Slipper Manufacturing

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

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

3142 House slippers

316213 Men's Footwear (Except Athletic) Manufacturing

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

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

3143 Men's footwear, except athletic

316214 Women's Footwear (Except Athletic) Manufacturing

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

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

3144 Women's footwear, except athletic

316219 Other Footwear Manufacturing

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

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

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

3169 Other Leather and Allied Product Manufacturing

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

31699 Other Leather and Allied Product Manufacturing

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

316991 Luggage Manufacturing

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

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

3161 Luggage

316992 Women's Handbag and Purse Manufacturing

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

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

3171 Women's handbags and purses

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

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

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

3172 Personal leather goods, n.e.c.

316999 All Other Leather Goods Manufacturing

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

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

3131 Footwear cut stock and findings (pt)

3199 Leather goods, n.e.c.

321 Wood Product Manufacturing

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

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

3211 Sawmills and Wood Preservation

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

32111 Sawmills and Wood Preservation

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

321113 Sawmills

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

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

2421 Sawmills and planing mills, general (pt)

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

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

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

321114 Wood Preservation

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

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

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

2491 Wood preserving

3212 Veneer, Plywood, and Engineered Wood Product Manufacturing

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

32121 Veneer, Plywood, and Engineered Wood Product Manufacturing

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

321211 Hardwood Veneer and Plywood Manufacturing

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

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

2435 Hardwood veneer and plywood

321212 Softwood Veneer and Plywood Manufacturing

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

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

2436 Softwood veneer and plywood

321213 Engineered Wood Member (Except Truss) Manufacturing

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

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

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

321214 Truss Manufacturing

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

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

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

321219 Reconstituted Wood Product Manufacturing

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

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

2493 Reconstituted wood products

3219 Other Wood Product Manufacturing

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

32191 Millwork

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

321911 Wood Window and Door Manufacturing

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

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

2431 Millwork (pt)

321912 Cut Stock, Resawing Lumber, and Planing

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

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

2421 Sawmills and planing mills, general (pt)

2426 Hardwood dimension and flooring mills (pt)

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

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

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

321918 Other Millwork (Including Flooring)

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

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

2421 Sawmills and planing mills, general (pt)

2426 Hardwood dimension and flooring mills (pt)

2431 Millwork (pt)

32192 Wood Container and Pallet Manufacturing

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

321920 Wood Container and Pallet Manufacturing

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

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

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

2441 Nailed wood boxes & shoo

2448 Wood pallets and skids

2449 Wood containers, n.e.c.

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

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

32199 All Other Wood Product Manufacturing

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

321991 Manufactured Home (Mobile Home) Manufacturing

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

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

2451 Mobile homes

321992 Prefabricated Wood Building Manufacturing

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

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

2452 Prefabricated wood buildings

321999 All Other Miscellaneous Wood Product Manufacturing

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

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

2421 Sawmills and planing mills, general (pt)

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

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

3131 Footwear cut stock and findings (pt)

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

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

322 Paper Manufacturing

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

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

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

An important process used in the Paper Bag and Coated and Treated Paper Manufacturing industry is lamination, often combined with coating. Lamination and coating makes a composite material with improved properties of strength, impermeability, and so on. The laminated materials may be paper, metal foil, or plastics film. While paper is often one of the components, it is not always. Lamination of plastics film to plastics film is classified in the NAICS Subsector 326, Plastics and Rubber Products Manufacturing, because establishments that do this often first make the film.

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

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

3221 Pulp, Paper, and Paperboard Mills

This industry group comprises establishments primarily engaged in manufacturing pulp, paper, or paperboard.

32211 Pulp Mills

This industry comprises establishments primarily engaged in manufacturing pulp without manufacturing paper or paperboard. The pulp is made by separating the cellulose fibers from the other impurities in wood or other materials, such as used or recycled rags, linters, scrap paper, and straw.

322110 Pulp Mills

This U.S. industry comprises establishments primarily engaged in manufacturing pulp without manufacturing paper or paperboard. The pulp is made by separating the cellulose fibers from the other impurities in wood or other materials, such as used or recycled rags, linters, scrap paper, and straw.

The data published with NAICS code 322110 include the following SIC industry:

2611 Pulp mills

32212 Paper Mills

This industry comprises establishments primarily engaged in manufacturing paper from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may convert the paper they make. The activity of making paper classifies an establishment into this industry regardless of the output.

322121 Paper (Except Newsprint) Mills

This U.S. industry comprises establishments primarily engaged in manufacturing paper (except newsprint and uncoated groundwood paper) from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paper they make.

The data published with NAICS code 322121 include the following SIC industries:

2621 Paper mills (pt)

2676 Sanitary paper products (pt)

3842 Surgical appliances and supplies (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 322121 include paper mills which convert sanitary paper stock into sanitary paper products, but do not include paper mills which are primarily engaged in the manufacture of other converted paper products. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3221211 Paper (Except Newsprint) Mills – Integrated Producer

Establishments primarily engaged in manufacturing paper (except newsprint and uncoated groundwood paper) from pulp in combination with pulp manufacture.

3221212 Paper (Except Newsprint) Mills – Nonintegrated Producer

Establishments primarily engaged in manufacturing paper (except newsprint and uncoated groundwood paper) from pulp not in combination with pulp manufacture.

322122 Newsprint Mills

This U.S. industry comprises establishments primarily engaged in manufacturing newsprint and uncoated groundwood paper from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paper they make.

The data published with NAICS code 322122 include the following SIC industry:

2621 Paper mills (pt)

3221221 Newsprint Mills – Integrated Producer

Establishments primarily engaged in manufacturing newsprint and uncoated groundwood paper from pulp in combination with pulp manufacture.

3221222 Newsprint Mills – Nonintegrated Producer

Establishments primarily engaged in manufacturing newsprint and uncoated groundwood paper from pulp not in combination with pulp manufacture.

32213 Paperboard Mills

This industry comprises establishments primarily engaged in manufacturing paperboard from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paperboard they make.

322130 Paperboard Mills

This U.S. industry comprises establishments primarily engaged in manufacturing paperboard from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paperboard they make.

The data published with NAICS code 322130 include the following SIC industry:

2631 Paperboard mills

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 322130 do not include paperboard mills primarily engaged in converting paperboard into paperboard products. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3221301 Paperboard Mills – Integrated Producer

Establishments primarily engaged in manufacturing paperboard from pulp in combination with pulp manufacture.

3221302 Paperboard Mills – Nonintegrated Producer

Establishments primarily engaged in manufacturing paperboard from pulp not in combination with pulp manufacture or paperboard converting.

3222 Converted Paper Product Manufacturing

This industry group comprises establishments primarily engaged in converting paper or paperboard without manufacturing paper or paperboard.

32221 Paperboard Container Manufacturing

This industry comprises establishments primarily engaged in converting paperboard into containers without manufacturing paperboard. These establishments use corrugating, cutting, and shaping machinery to form paperboard into containers. Products made by these establishments include boxes; corrugated sheets, pads, and pallets; paper dishes; and fiber drums and reels.

322211 Corrugated and Solid Fiber Box Manufacturing

This U.S. industry comprises establishments primarily engaged in laminating purchased paper or paperboard into corrugated or solid fiber boxes and related products, such as pads, partitions, pallets, and corrugated paper without manufacturing paperboard. These boxes are generally used for shipping.

The data published with NAICS code 322211 include the following SIC industry:

2653 Corrugated and solid fiber boxes

322212 Folding Paperboard Box Manufacturing

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

The data published with NAICS code 322212 include the following SIC industry:

2657 Folding paperboard boxes

322213 Setup Paperboard Box Manufacturing

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

The data published with NAICS code 322213 include the following SIC industry:

2652 Setup paperboard boxes

322214 Fiber Can, Tube, Drum, and Similar Products Manufacturing

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

The data published with NAICS code 322214 include the following SIC industry:

2655 Fiber cans, drums, and similar products

322215 Nonfolding Sanitary Food Container Manufacturing

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

The data published with NAICS code 322215 include the following SIC industry:

2656 Sanitary food containers

32222 Paper Bag and Coated and Treated Paper Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) cutting and coating paper and paperboard; (2) cutting and laminating paper and paperboard and other flexible materials (except plastics film to plastics film); (3) manufacturing bags or multiwall bags or sacks of paper, metal foil, coated paper, or laminates or coated combinations of paper and foil with plastics film; (4) manufacturing laminated aluminum and other converted metal foils from purchased foils; and (5) surface coating paper or paperboard.

322221 Coated and Laminated Packaging Paper and Plastics Film Manufacturing

This U.S. industry comprises establishments primarily engaged in performing one or more of the following activities associated with the manufacturing of packaging materials: (1) cutting and coating paper; and (2) cutting and laminating paper with other flexible materials (except plastics to plastics or foil to paper laminates). The products made in this industry are made from purchased sheet materials and may be printed in the same establishment.

The data published with NAICS code 322221 include the following SIC industry:

2671 Paper - coated and laminated, packaging (pt)

322222 Coated and Laminated Paper Manufacturing

This U.S. industry comprises establishments primarily engaged in performing one or more of the following activities associated with making products designed for purposes other than packaging: (1) cutting and coating paper; (2) cutting and laminating paper and other flexible materials (except plastics film to plastics film); and (3) manufacturing converted aluminum and other metal foils for non-packaging uses from purchased foils. The products made in this industry are made from purchased sheet materials and may be printed in the same establishment.

The data published with NAICS code 322222 include the following SIC industries:

2672 Paper - coated and laminated, n.e.c.

2679 Converted paper products, n.e.c. (pt)

322223 Plastics, Foil, and Coated Paper Bag Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing bags of coated paper, of metal foil, or of laminated or coated combinations of plastics, foil, and paper, whether or not printed.

The data published with NAICS code 322223 include the following SIC industry:

2673 Bags - plastics, laminated, and coated (pt)

322224 Uncoated Paper and Multiwall Bag Manufacturing

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

The data published with NAICS code 322224 include the following SIC industry:

2674 Bags - uncoated paper and multiwall

322225 Laminated Aluminum Foil Manufacturing for Flexible Packaging Uses

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

The data published with NAICS code 322225 include the following SIC industry:

3497 Metal foil and leaf (pt)

322226 Surface-Coated Paperboard Manufacturing

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

The data published with NAICS code 322226 include the following SIC industry:

2675 Die-cut paper and board (pt)

32223 Stationery Product Manufacturing

This industry comprises establishments primarily engaged in converting paper or paperboard into products used for writing, filing, art work, and similar applications.

322231 Die-Cut Paper and Paperboard Office Supplies Manufacturing

This U.S. industry comprises establishments primarily engaged in converting paper rollstock or paperboard into die-cut paper or paperboard office supplies. For the purpose of this industry, office supplies are defined as office products, such as filing folders, index cards, rolls for adding machines, file separators and dividers, tabulating cards, and other paper and paperboard office supplies.

The data published with NAICS code 322231 include the following SIC industries:

2675 Die-cut paper and board (pt)

2679 Converted paper products, n.e.c. (pt)

322232 Envelope Manufacturing

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

The data published with NAICS code 322232 include the following SIC industry:

2677 Envelopes

322233 Stationery, Tablet, and Related Product Manufacturing

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

The data published with NAICS code 322233 include the following SIC industry:

2678 Stationery products

32229 Other Converted Paper Product Manufacturing

This industry comprises establishments primarily engaged in (1) converting paper and paperboard into products (except containers, bags, coated and treated paper and paperboard, and stationery products), or (2) converting pulp into pulp products, such as disposable diapers, or molded pulp egg cartons, food trays, and dishes. Processes used include laminating or lining purchased paper or paperboard.

322291 Sanitary Paper Product Manufacturing

This U.S. industry comprises establishments primarily engaged in converting purchased sanitary paper stock or wadding into sanitary paper products, such as facial tissues and handkerchiefs, table napkins, toilet paper, towels, disposable diapers, sanitary napkins, and tampons.

The data published with NAICS code 322291 include the following SIC industries:

2676 Sanitary paper products (pt)

3842 Surgical appliances and supplies (pt)

322299 All Other Converted Paper Product Manufacturing

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

The data published with NAICS code 322299 include the following SIC industries:

2675 Die-cut paper and board (pt)

2679 Converted paper products, n.e.c. (pt)

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

323 Printing and Related Support Activities

Industries in the Printing and Related Support Activities subsector print products, such as newspapers, books, periodicals, business forms, greeting cards, and other materials, and perform support activities, such as book-binding, platemaking services, and data imaging. The support activities included here are an integral part of the printing industry, and a product (a printing plate, a bound book, or a computer disk or file) that is an integral part of the printing industry is almost always provided by these operations.

Processes used in printing include a variety of methods used to transfer an image from a plate, screen, or computer file to some medium, such as paper, plastics, metal, textile articles, or wood. The most prominent of these methods is to transfer the image from a plate or screen to the medium (lithographic, gravure, screen, and flexographic printing). A rapidly growing new technology uses a computer file to directly “drive” the printing mechanism to create the image and new electrostatic and other types of equipment (digital or nonimpact printing).

In contrast to many other classification systems that locate publishing of printed materials in manufacturing, NAICS classifies the publishing of printed products in Subsector 511, Publishing Industries. Though printing and publishing are often carried out by the same enterprise (a newspaper, for example), it is less and less the case that these distinct activities are carried out in the same establishment. When publishing and printing are done in the same establishment, the establishment is classified in Sector 51, Information, in the appropriate NAICS industry even if the receipts for printing exceed those for publishing.

This subsector includes printing on clothing because the production process for that activity is printing, not clothing manufacturing. For instance, the printing of T-shirts is included in this subsector. In contrast, printing on fabric (or grey goods) is not included. This activity is part of the process of finishing the fabric and is included in the NAICS Textile Mills subsector in Industry 31331, Textile and Fabric Finishing Mills.

3231 Printing and Related Support Activities

This NAICS industry group includes establishments classified in the following NAICS Industries: 32311, Printing; and 32312, Support Activities for Printing.

32311 Printing

This industry comprises establishments primarily engaged in printing on apparel and textile products, paper, metal, glass, plastics, and other materials, except fabric (grey goods). The printing processes employed include, but are not limited to, lithographic, gravure, screen, flexographic, digital, and letterpress. Establishments in this industry do not manufacture the stock that they print but may perform postprinting activities, such as bending, cutting, or laminating the materials they print, and mailing.

323110 Commercial Lithographic Printing

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

The data published with NAICS code 3231 10 include the following SIC industries:

- 2752 Commercial printing, lithographic (pt)
- 2771 Greeting cards (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

323111 Commercial Gravure Printing

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

The data published with NAICS code 3231 11 include the following SIC industries:

- 2754 Commercial printing, gravure
- 2771 Greeting cards (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

323112 Commercial Flexographic Printing

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

The data published with NAICS code 3231 12 include the following SIC industries:

- 2759 Commercial printing, n.e.c. (pt)
- 2771 Greeting cards (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

323113 Commercial Screen Printing

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

The data published with NAICS code 3231 13 include the following SIC industries:

- 2396 Automotive and apparel trimmings (pt)
- 2759 Commercial printing, n.e.c. (pt)
- 2771 Greeting cards (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

323114 Quick Printing

This U.S. industry comprises establishments primarily engaged in traditional printing activities, such as short-run offset printing or prepress services, in combination with providing document photocopying service. Prepress services include receiving documents in electronic format and directly duplicating from the electronic file and formatting, colorizing, and otherwise modifying the original document to improve presentation. These establishments, known as quick printers, generally provide short-run printing and copying with fast turnaround times.

The data published with NAICS code 3231 14 include the following SIC industries:

- 2752 Commercial printing, lithographic (pt)
- 2759 Commercial printing, n.e.c. (pt)

323115 Digital Printing

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

The data published with NAICS code 3231 15 include the following SIC industry:

- 2759 Commercial printing, n.e.c. (pt)

323116 Manifold Business Form Printing

This U.S. industry comprises establishments primarily engaged in printing special forms, including checkbooks, for use in the operation of a business. The forms may be in single and multiple sets, including carbonized, interleaved with carbon, or otherwise processed for multiple reproduction.

The data published with NAICS code 3231 16 include the following SIC industries:

- 2761 Manifold business forms
- 2782 Blankbooks and looseleaf binders (pt)

323117 Book Printing

This U.S. industry comprises establishments primarily engaged in printing or printing and binding books and pamphlets without publishing.

The data published with NAICS code 3231 17 include the following SIC industry:

- 2732 Book printing

323118 Blankbook, Looseleaf Binders, and Devices Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing blankbooks, looseleaf devices, and binders. Establishments in this industry may print or print and bind.

The data published with NAICS code 323118 include the following SIC industry:

2782 Blankbooks and looseleaf binders (pt)

323119 Other Commercial Printing

This U.S. industry comprises establishments primarily engaged in commercial printing (except lithographic, gravure, screen, or flexographic printing) without publishing (except books, grey goods, and manifold business forms). Printing processes included in this industry are letterpress printing and engraving printing. This industry includes establishments engaged in commercial printing on purchased stock materials, such as stationery, invitations, labels, and similar items, on a job order basis.

The data published with NAICS code 323119 include the following SIC industries:

2759 Commercial printing, n.e.c. (pt)

2771 Greeting cards (pt)

3999 Manufacturing industries, n.e.c. (pt)

32312 Support Activities for Printing

This industry comprises establishments primarily engaged in performing prepress (e.g., platemaking, typesetting) and postpress services (e.g., book binding) in support of printing activities.

323121 Tradebinding and Related Work

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) tradebinding; (2) sample mounting; and (3) postpress services (e.g., book or paper bronzing, die-cutting, edging, embossing, folding, gilding, gluing, indexing).

The data published with NAICS code 323121 include the following SIC industry:

2789 Bookbinding and related work

323122 Prepress Services

This U.S. industry comprises (1) establishments primarily engaged in prepress services, such as imagesetting or typesetting, for printers and (2) establishments primarily engaged in preparing film or plates for printing purposes.

The data published with NAICS code 323122 include the following SIC industries:

2791 Typesetting

2796 Platemaking services

324 Petroleum and Coal Products Manufacturing

The Petroleum and Coal Products Manufacturing subsector is based on the transformation of crude petroleum and coal into usable products. The dominant process is

petroleum refining that involves the separation of crude petroleum into component products through such techniques as cracking and distillation.

In addition, this subsector includes establishments that primarily further process refined petroleum and coal products and produce products, such as asphalt coatings and petroleum lubricating oils. However, establishments that manufacture petrochemicals from refined petroleum are classified in Industry 32511, Petrochemical Manufacturing.

3241 Petroleum and Coal Products Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32411, Petroleum Refineries; 32412, Asphalt Paving, Roofing, and Saturated Materials Manufacturing; and 32419, Other Petroleum and Coal Products Manufacturing.

32411 Petroleum Refineries

This industry comprises establishments primarily engaged in refining crude petroleum into refined petroleum. Petroleum refining involves one or more of the following activities: (1) fractionation; (2) straight distillation of crude oil; and (3) cracking.

324110 Petroleum Refineries

This U.S. industry comprises establishments primarily engaged in refining crude petroleum into refined petroleum. Petroleum refining involves one or more of the following activities: (1) fractionation; (2) straight distillation of crude oil; and (3) cracking.

The data published with NAICS code 324110 include the following SIC industry:

2911 Petroleum refining

32412 Asphalt Paving, Roofing, and Saturated Materials Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing asphalt and tar paving mixtures and blocks and roofing cements and coatings from purchased asphaltic materials and/or (2) saturating purchased mats and felts with asphalt or tar from purchased asphaltic materials.

32412 Asphalt Paving, Roofing, and Saturated Materials Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing asphalt and tar paving mixtures and blocks and roofing cements and coatings from purchased asphaltic materials and/or (2) saturating purchased mats and felts with asphalt or tar from purchased asphaltic materials.

324121 Asphalt Paving Mixture and Block Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing asphalt and tar paving mixtures and blocks from purchased asphaltic materials.

The data published with NAICS code 324121 include the following SIC industry:

2951 Asphalt paving mixtures and blocks

324122 Asphalt Shingle and Coating Materials Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) saturating purchased mats and felts with asphalt or tar from purchased asphaltic materials and (2) manufacturing asphalt and tar and roofing cements and coatings from purchased asphaltic materials.

The data published with NAICS code 324122 include the following SIC industry:

2952 Asphalt felts and coatings

32419 Other Petroleum and Coal Products Manufacturing

This industry comprises establishments primarily engaged in manufacturing petroleum products (except asphalt paving, roofing, and saturated materials) from refined petroleum or coal products made in coke ovens not integrated with a steel mill.

324191 Petroleum Lubricating Oil and Grease Manufacturing

This U.S. industry comprises establishments primarily engaged in blending or compounding refined petroleum to make lubricating oils and greases and/or re-refining used petroleum lubricating oils.

The data published with NAICS code 324191 include the following SIC industry:

2992 Lubricating oils and greases

324199 All Other Petroleum and Coal Products Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing petroleum products (except asphalt paving, roofing, and saturated materials and lubricating oils and greases) from refined petroleum and coal products made in coke ovens not integrated with a steel mill.

The data published with NAICS code 324199 include the following SIC industries:

2999 Petroleum and coal products, n.e.c.

3312 Blast furnaces and steel mills (pt)

325 Chemical Manufacturing

The Chemical Manufacturing subsector is based on the transformation of organic and inorganic raw materials by a chemical process and the formulation of products. This subsector distinguishes the production of basic chemicals that comprise the first industry group from the production of intermediate and end products produced by further processing of basic chemicals that make up the remaining industry groups.

This subsector does not include all industries transforming raw materials by a chemical process. It is common for some chemical processing to occur during mining operations. These beneficiating operations, such as copper concentrating, are classified in Sector 21, Mining. Furthermore, the refining of crude petroleum is included in Subsector 324, Petroleum and Coal Products Manufacturing. In addition, the manufacturing of aluminum oxide is included in Subsector 331, Primary Metal Manufacturing; and beverage distilleries are classified in Subsector 312, Beverage and Tobacco Product Manufacturing. As in the case of these two activities, the grouping of industries into subsectors may take into account the association of the activities performed with other activities in the subsector.

3251 Basic Chemical Manufacturing

This industry group comprises establishments primarily engaged in manufacturing chemicals using basic processes, such as thermal cracking and distillation. Chemicals manufactured in this industry group are usually separate chemical elements or separate chemically-defined compounds.

32511 Petrochemical Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing acyclic (i.e., aliphatic) hydrocarbons such as ethylene, propylene, and butylene made from refined petroleum or liquid hydrocarbon and/or (2) manufacturing cyclic aromatic hydrocarbons such as benzene, toluene, styrene, xylene, ethyl benzene, and cumene made from refined petroleum or liquid hydrocarbons.

325110 Petrochemical Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing acyclic (i.e., aliphatic) hydrocarbons such as ethylene, propylene, and butylene made from refined petroleum or liquid hydrocarbon and/or (2) manufacturing cyclic aromatic hydrocarbons such as benzene, toluene, styrene, xylene, ethyl benzene, and cumene made from refined petroleum or liquid hydrocarbons.

The data published with NAICS code 325110 include the following SIC industries:

2865 Cyclic crudes and intermediates (pt)

2869 Industrial organic chemicals, n.e.c. (pt)

32512 Industrial Gas Manufacturing

This industry comprises establishments primarily engaged in manufacturing industrial organic and inorganic gases in compressed, liquid, and solid forms.

325120 Industrial Gas Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial organic and inorganic gases in compressed, liquid, and solid forms.

The data published with NAICS code 325120 include the following SIC industries:

2813 Industrial gases

2869 Industrial organic chemicals, n.e.c. (pt)

32513 Synthetic Dye and Pigment Manufacturing

This industry comprises establishments primarily engaged in manufacturing synthetic organic and inorganic dyes and pigments, such as lakes and toners (except electrostatic and photographic).

325131 Inorganic Dye and Pigment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing inorganic dyes and pigments.

The data published with NAICS code 325131 include the following SIC industries:

2816 Inorganic pigments (pt)

2819 Industrial inorganic chemicals, n.e.c. (pt)

325132 Synthetic Organic Dye and Pigment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing synthetic organic dyes and pigments, such as lakes and toners (except electrostatic and photographic).

The data published with NAICS code 325132 include the following SIC industry:

2865 Cyclic crudes and intermediates (pt)

32518 Other Basic Inorganic Chemical Manufacturing

This industry comprises establishments primarily engaged in manufacturing basic inorganic chemicals (except industrial gases and synthetic dyes and pigments).

325181 Alkalies and Chlorine Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing chlorine, sodium hydroxide (i.e., caustic soda), and other alkalies often using an electrolysis process.

The data published with NAICS code 325181 include the following SIC industry:

2812 Alkalies and chlorine

325182 Carbon Black Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing carbon black, bone black, and lamp black.

The data published with NAICS code 325182 include the following SIC industries:

2816 Inorganic pigments (pt)

2895 Carbon black

325188 All Other Basic Inorganic Chemical Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing basic inorganic chemicals (except industrial gases, inorganic dyes and pigments, alkalies and chlorine, and carbon black).

The data published with NAICS code 325188 include the following SIC industries:

2819 Industrial inorganic chemicals, n.e.c. (pt)

2869 Industrial organic chemicals, n.e.c. (pt)

32519 Other Basic Organic Chemical Manufacturing

This industry comprises establishments primarily engaged in manufacturing basic organic chemicals (except petrochemicals, industrial gases, and synthetic dyes and pigments).

325191 Gum and Wood Chemical Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) distilling wood or gum into products, such as tall oil and wood distillates, and (2) manufacturing wood or gum chemicals, such as naval stores, natural tanning materials, charcoal briquettes, and charcoal (except activated).

The data published with NAICS code 325191 include the following SIC industry:

2861 Gum and wood chemicals

325192 Cyclic Crude and Intermediate Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) distilling coal tars and/or (2) manufacturing cyclic crudes or cyclic intermediates (i.e., hydrocarbons, except aromatic petrochemicals) from refined petroleum or natural gas.

The data published with NAICS code 325192 include the following SIC industry:

2865 Cyclic crudes and intermediates (pt)

325193 Ethyl Alcohol Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonpotable ethyl alcohol.

The data published with NAICS code 325193 include the following SIC industry:

2869 Industrial organic chemicals, n.e.c. (pt)

325199 All Other Basic Organic Chemical Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing basic organic chemical products (except aromatic petrochemicals, industrial gases, synthetic organic dyes and pigments, gum and wood chemicals, cyclic crudes and intermediates, and ethyl alcohol).

The data published with NAICS code 325199 include the following SIC industries:

2869 Industrial organic chemicals, n.e.c. (pt)

2899 Chemical preparations, n.e.c. (pt)

3252 Resin, Synthetic Rubber, and Artificial and Synthetic Fibers and Filaments Manufacturing

32521 Resin and Synthetic Rubber Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing synthetic resins, plastics materials, and nonvulcanizable elastomers and mixing and blending resins on a custom basis; (2) manufacturing noncustomized synthetic resins; and (3) manufacturing synthetic rubber.

325211 Plastics Material and Resin Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing resins, plastics materials, and nonvulcanizable thermoplastic elastomers and mixing and blending resins on a custom basis and/or (2) manufacturing noncustomized synthetic resins.

The data published with NAICS code 325211 include the following SIC industry:

2821 Plastics materials and resins

325212 Synthetic Rubber Manufacturing

This U.S. industry consists of establishments primarily engaged in manufacturing synthetic rubber.

The data published with NAICS code 325212 include the following SIC industry:

2822 Synthetic rubber

32522 Artificial and Synthetic Fibers and Filaments Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing cellulosic (i.e., rayon and acetate) and noncellulosic (i.e., nylon, polyolefin, and polyester) fibers and filaments in the form of monofilament, filament yarn, staple, or tow or (2) manufacturing and texturing cellulosic and noncellulosic fibers and filaments.

325221 Cellulosic Organic Fiber Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing cellulosic (i.e., rayon and acetate) fibers and filaments in the form of monofilament, filament yarn, staple, or tow or (2) manufacturing and texturing cellulosic fibers and filaments.

The data published with NAICS code 325221 include the following SIC industry:

2823 Cellulosic manmade fibers

325222 Noncellulosic Organic Fiber Manufacturing

This U.S. industry consists of establishments primarily engaged in (1) manufacturing noncellulosic (i.e., nylon, polyolefin, and polyester) fibers and filaments in the form of monofilament, filament yarn, staple, or tow or (2) manufacturing and texturing noncellulosic fibers and filaments.

The data published with NAICS code 325222 include the following SIC industry:

2824 Organic fibers, noncellulosic

3253 Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32531, Fertilizer Manufacturing; and 32532, Pesticide and Other Agricultural Chemical Manufacturing.

32531 Fertilizer Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing nitrogenous or phosphatic fertilizer materials; (2) manufacturing fertilizers from sewage or animal waste; (3) manufacturing nitrogenous or phosphatic materials and mixing with other ingredients into fertilizers; and (4) mixing ingredients made elsewhere into fertilizers.

325311 Nitrogenous Fertilizer Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing nitrogenous fertilizer materials and mixing ingredients

into fertilizers; (2) manufacturing fertilizers from sewage or animal waste; and (3) manufacturing nitrogenous materials and mixing them into fertilizers.

The data published with NAICS code 325311 include the following SIC industry:

2873 Nitrogenous fertilizers

325312 Phosphatic Fertilizer Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing phosphatic fertilizer materials or (2) manufacturing phosphatic materials and mixing them into fertilizers.

The data published with NAICS code 325312 include the following SIC industry:

2874 Phosphatic fertilizers

325314 Fertilizer (Mixing Only) Manufacturing

This U.S. industry comprises establishments primarily engaged in mixing ingredients made elsewhere into fertilizers.

The data published with NAICS code 325314 include the following SIC industry:

2875 Fertilizers, mixing only

32532 Pesticide and Other Agricultural Chemical Manufacturing

This industry comprises establishments primarily engaged in the formulation and preparation of agricultural and household pest control chemicals (except fertilizers).

325320 Pesticide and Other Agricultural Chemical Manufacturing

This U.S. industry comprises establishments primarily engaged in the formulation and preparation of agricultural and household pest control chemicals (except fertilizers).

The data published with NAICS code 325320 include the following SIC industry:

2879 Agricultural chemicals, n.e.c.

3254 Pharmaceutical and Medicine Manufacturing

This NAICS industry group includes establishments classified in Industry 32541, Pharmaceutical and Medicine Manufacturing.

32541 Pharmaceutical and Medicine Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing biological and medicinal products; (2) processing (i.e., grading, grinding, and milling) botanical drugs and herbs; (3) isolating active medicinal principals from botanical drugs and herbs; and (4) manufacturing pharmaceutical

products intended for internal and external consumption in such forms as ampoules, tablets, capsules, vials, ointments, powders, solutions, and suspensions.

325411 Medicinal and Botanical Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing uncompounded medicinal chemicals and their derivatives (i.e., generally for use by pharmaceutical preparation manufacturers) and/or (2) grading, grinding, and milling uncompounded botanicals.

The data published with NAICS code 325411 include the following SIC industry:

2833 Medicinals and botanicals

325412 Pharmaceutical Preparation Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing in-vivo diagnostic substances and pharmaceutical preparations (except biological) intended for internal and external consumption in dose forms, such as ampoules, tablets, capsules, vials, ointments, powders, solutions, and suspensions.

The data published with NAICS code 325412 include the following SIC industries:

2834 Pharmaceutical preparations

2835 Diagnostic substances (pt)

325413 In-Vitro Diagnostic Substance Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing in-vitro (i.e., not taken internally) diagnostic substances, such as chemical, biological, or radioactive substances. The substances are used for diagnostic tests that are performed in test tubes, petri dishes, machines, and other diagnostic test-type devices.

The data published with NAICS code 325413 include the following SIC industry:

2835 Diagnostic substances (pt)

325414 Biological Product (Except Diagnostic) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing vaccines, toxoids, blood fractions, and culture media of plant or animal origin (except diagnostic).

The data published with NAICS code 325414 include the following SIC industry:

2836 Biological products, except diagnostic

3255 Paint, Coating, and Adhesive Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32551, Paint and Coating Manufacturing; and 32552, Adhesive Manufacturing.

32551 Paint and Coating Manufacturing

This industry comprises establishments primarily engaged in (1) mixing pigments, solvents, and binders into paints and other coatings, such as stains, varnishes, lacquers, enamels, shellacs, and water repellent coatings for concrete and masonry, and/or (2) manufacturing allied paint products, such as putties, paint and varnish removers, paint brush cleaners, and frit.

325510 Paint and Coating Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) mixing pigments, solvents, and binders into paints and other coatings, such as stains, varnishes, lacquers, enamels, shellacs, and water repellent coatings for concrete and masonry, and/or (2) manufacturing allied paint products, such as putties, paint and varnish removers, paint brush cleaners, and frit.

The data published with NAICS code 325510 include the following SIC industries:

2851 Paints and allied products

2899 Chemical preparations, n.e.c. (pt)

32552 Adhesive Manufacturing

This industry comprises establishments primarily engaged in manufacturing adhesives, glues, and caulking compounds.

325520 Adhesive Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing adhesives, glues, and caulking compounds.

The data published with NAICS code 325520 include the following SIC industry:

2891 Adhesives and sealants

3256 Soap, Cleaning Compound, and Toilet Preparation Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32561, Soap and Cleaning Compound Manufacturing; and 32562, Toilet Preparation Manufacturing.

32561 Soap and Cleaning Compound Manufacturing

This industry comprises establishments primarily engaged in manufacturing and packaging soap and other cleaning compounds, surface active agents, and textile and leather finishing agents used to reduce tension or speed the drying process.

325611 Soap and Other Detergent Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and packaging soaps and other detergents, such as laundry detergents; dishwashing detergents; toothpaste gels and tooth powders; and natural glycerin.

The data published with NAICS code 325611 include the following SIC industries:

2841 Soap and other detergents

2844 Toilet preparations (pt)

325612 Polish and Other Sanitation Good Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and packaging polishes and specialty cleaning preparations.

The data published with NAICS code 325612 include the following SIC industry:

2842 Polishes and sanitation goods

325613 Surface Active Agent Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing bulk surface active agents for use as wetting agents, emulsifiers, and penetrants, and/or (2) manufacturing textiles and leather finishing agents used to reduce tension or speed the drying process.

The data published with NAICS code 325613 include the following SIC industry:

2843 Surface active agents

32562 Toilet Preparation Manufacturing

This industry comprises establishments primarily engaged in preparing, blending, compounding, and packaging toilet preparations, such as perfumes, shaving preparations, hair preparations, face creams, lotions (including sunscreens), and other cosmetic preparations.

325620 Toilet Preparation Manufacturing

This U.S. industry comprises establishments primarily engaged in preparing, blending, compounding, and packaging toilet preparations, such as perfumes, shaving preparations, hair preparations, face creams, lotions (including sunscreens), and other cosmetic preparations.

The data published with NAICS code 325620 include the following SIC industry:

2844 Toilet preparations (pt)

3259 Other Chemical Product Manufacturing

This industry group comprises establishments primarily engaged in manufacturing chemical products (except basic chemicals; resins, synthetic rubber, cellulosic and

noncellulosic fibers and filaments; pesticides, fertilizers, and other agricultural chemicals; pharmaceuticals and medicines; paints, coatings, and adhesives; soaps and cleaning compounds; and toilet preparations).

32591 Printing Ink Manufacturing

This industry comprises establishments primarily engaged in manufacturing printing and inkjet inks and inkjet cartridges.

325910 Printing Ink Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing printing and inkjet inks and inkjet cartridges.

The data published with NAICS code 325910 include the following SIC industry:

2893 Printing ink

32592 Explosives Manufacturing

This industry comprises establishments primarily engaged in manufacturing explosives.

325920 Explosives Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing explosives.

The data published with NAICS code 325920 include the following SIC industry:

2892 Explosives

32599 All Other Chemical Product and Preparation Manufacturing

This industry comprises establishments primarily engaged in manufacturing chemical products (except basic chemicals, resins, and synthetic rubber; cellulosic and noncellulosic fibers and filaments; pesticides, fertilizers, and other agricultural chemicals; pharmaceuticals and medicines; paints, coatings, and adhesives; and soaps, cleaning compounds, and toilet preparations; printing inks; and explosives).

325991 Custom Compounding of Purchased Resins

This U.S. industry comprises establishments primarily engaged in (1) custom mixing and blending plastics resins made elsewhere or (2) reformulating plastics resins from recycled plastics products.

The data published with NAICS code 325991 include the following SIC industries:

3087 Custom compound purchased resins

325992 Photographic Film, Paper, Plate, and Chemical Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sensitized film, sensitized paper, sensitized cloth, sensitized plates, toners (i.e., for photocopiers, laser printers, and similar electrostatic printing devices), toner cartridges, and photographic chemicals.

The data published with NAICS code 325992 include the following SIC industry:

3861 Photographic equipment and supplies (pt)

325998 All Other Miscellaneous Chemical Product and Preparation Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing chemical products (except basic chemicals, resins, synthetic rubber; cellulosic and noncellulosic fiber and filaments; pesticides, fertilizers, and other agricultural chemicals; pharmaceuticals and medicines; paints, coatings, and adhesives; soap, cleaning compounds, and toilet preparations; printing inks; explosives; custom compounding of purchased resins; and photographic films, papers, plates, and chemicals).

The data published with NAICS code 325998 include the following SIC industries:

2819 Industrial inorganic chemicals, n.e.c. (pt)

2899 Chemical preparations, n.e.c. (pt)

3952 Lead pencils and art goods (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 325998 do not include establishments primarily engaged in aerosol packaging. The NAICS definitions will be fully implemented with the 2002 Economic Census.

326 Plastics and Rubber Products Manufacturing

Industries in the Plastics and Rubber Products Manufacturing subsector make goods by processing plastics materials and raw rubber. The core technology employed by establishments in this subsector is that of plastics or rubber product production. Plastics and rubber are combined in the same subsector because plastics are increasingly being used as a substitute for rubber; however, the subsector is generally restricted to the production of products made of just one material, either solely plastics or rubber.

Many manufacturing activities use plastics or rubber, for example the manufacture of footwear, or furniture. Typically, the production process of these products

involves more than one material. In these cases, technologies that allow disparate materials to be formed and combined are of central importance in describing the manufacturing activity. In NAICS, such activities (the footwear and furniture manufacturing) are not classified in the Plastics and Rubber Products Manufacturing subsector because the core technologies for these activities are diverse and involve multiple materials.

Within the Plastics and Rubber Products Manufacturing subsector, a distinction is made between plastics and rubber products at the industry group level, although it is not a rigid distinction, as can be seen from the definition of Industry 32622, Rubber and Plastics Hose and Belting Manufacturing. As materials technology progresses, plastics are increasingly being used as a substitute for rubber; and eventually, the distinction may disappear as a basis for establishment classification.

In keeping with the core technology focus of plastics, lamination of plastics film to plastics film as well as the production of bags from plastics only is classified in this subsector. Lamination and bag production involving plastics and materials other than plastics are classified in the NAICS Subsector 322, Paper Manufacturing.

3261 Plastics Product Manufacturing

This industry group comprises establishments primarily engaged in processing new or spent (i.e., recycled) plastics resins into intermediate or final products, using such processes as compression molding; extrusion molding; injection molding; blow molding; and casting. Within most of these industries, the production process is such that a wide variety of products can be made.

32611 Unsupported Plastics Film, Sheet, and Bag Manufacturing

This industry comprises establishments primarily engaged in (1) converting plastics resins into unsupported plastics film and sheet and/or (2) forming, coating, or laminating plastics film and sheet into plastics bags.

326111 Unsupported Plastics Bag Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) converting plastics resins into plastics bags or (2) forming, coating, or laminating plastics film and sheet into single wall or multiwall plastics bags. Establishments in this industry may print on the bags they manufacture.

The data published with NAICS code 326111 include the following SIC industry:

2673 Bags - plastics, laminated, and coated (pt)

326112 Unsupported Plastics Packaging Film and Sheet Manufacturing

This U.S. industry comprises establishments primarily engaged in converting plastics resins into plastics packaging (flexible) film and packaging sheet.

The data published with NAICS code 326112 include the following SIC industry:

2671 Paper - coated and laminated, packaging (pt)

326113 Unsupported Plastics Film and Sheet (Except Packaging) Manufacturing

This U.S. industry comprises establishments primarily engaged in converting plastics resins into plastics film and unlaminated sheet (except packaging).

The data published with NAICS code 326113 include the following SIC industry:

3081 Unsupported plastics film and sheet

32612 Plastics Pipe, Pipe Fitting, and Unsupported Profile Shape Manufacturing

This industry comprises establishments primarily engaged in manufacturing plastics pipes and pipe fittings, and plastics profile shapes such as rod, tube, and sausage casings.

326121 Unsupported Plastics Profile Shapes Manufacturing

This U.S. industry comprises establishments primarily engaged in converting plastics resins into nonrigid plastics profile shapes (except film, sheet, and bags), such as rod, tube, and sausage casings.

The data published with NAICS code 326121 include the following SIC industry:

3082 Unsupported plastics profile shapes

326122 Plastics Pipe and Pipe Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in converting plastics resins into rigid plastics pipes and pipe fittings.

The data published with NAICS code 326122 include the following SIC industries:

3084 Plastics pipe

3089 Plastics products, n.e.c. (pt)

32613 Laminated Plastics Plate, Sheet, and Shape Manufacturing

This industry comprises establishments primarily engaged in laminating plastics profile shapes such as plate, sheet (except packaging), and rod. The lamination process generally involves bonding or impregnating profiles with plastics resins and compressing them under heat.

326130 Laminated Plastics Plate, Sheet, and Shape Manufacturing

This U.S. industry comprises establishments primarily engaged in laminating plastics profile shapes such as plate, sheet (except packaging), and rod. The lamination process generally involves bonding or impregnating profiles with plastics resins and compressing them under heat.

The data published with NAICS code 326130 include the following SIC industry:

3083 Laminated plastics plate and sheet

32614 Polystyrene Foam Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing polystyrene foam products.

326140 Polystyrene Foam Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing polystyrene foam products.

The data published with NAICS code 326140 include the following SIC industry:

3086 Plastics foam products (pt)

32615 Urethane and Other Foam Product (Except Polystyrene) Manufacturing

This industry comprises establishments primarily engaged in manufacturing plastics foam products (except polystyrene).

326150 Urethane and Other Foam Product (Except Polystyrene) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing plastics foam products (except polystyrene).

The data published with NAICS code 326150 include the following SIC industry:

3086 Plastics foam products (pt)

32616 Plastics Bottle Manufacturing

This industry comprises establishments primarily engaged in manufacturing plastics bottles.

326160 Plastics Bottle Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing plastics bottles.

The data published with NAICS code 326160 include the following SIC industry:

3085 Plastics bottles

32619 Other Plastics Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing resilient floor covering and other plastics products (except film, sheet, bags, profile shapes, pipes, pipe fittings, laminates, foam products, and bottles).

326191 Plastics Plumbing Fixture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing plastics or fiberglass plumbing fixtures. Examples of products made by these establishments are plastics or fiberglass bathtubs, hot tubs, portable toilets, and shower stalls.

The data published with NAICS code 326191 include the following SIC industry:

3088 Plastics plumbing fixtures

326192 Resilient Floor Covering Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing resilient floor coverings for permanent installation.

The data published with NAICS code 326192 include the following SIC industries:

3069 Fabricated rubber products, n.e.c. (pt)

3996 Hard surface floor coverings

326199 All Other Plastics Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing plastics products (except film, sheet, bags, profile shapes, pipes, pipe fittings, laminates, foam products, bottles, plumbing fixtures, and resilient floor coverings).

The data published with NAICS code 326199 include the following SIC industries:

3089 Plastics products, n.e.c. (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 326199 include establishments primarily engaged in the manufacture of plastic furniture parts. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3262 Rubber Product Manufacturing

This industry group comprises establishments primarily engaged in processing natural and synthetic or reclaimed rubber materials into intermediate or final products using processes such as vulcanizing, cementing, molding, extruding, and lathe-cutting.

32621 Tire Manufacturing

This industry comprises establishments primarily engaged in manufacturing tires and inner tubes from natural and synthetic rubber and retreading or rebuilding tires.

326211 Tire Manufacturing (Except Retreading)

This U.S. industry comprises establishments primarily engaged in manufacturing tires and inner tubes from natural and synthetic rubber.

The data published with NAICS code 326211 include the following SIC industry:

3011 Tires and inner tubes

326212 Tire Retreading

This U.S. industry comprises establishments primarily engaged in retreading, or rebuilding tires.

The data published with NAICS code 326212 include the following SIC industry:

7534 Tire retreading and repair shops (pt)

32622 Rubber and Plastics Hoses and Belting Manufacturing

This industry comprises establishments primarily engaged in manufacturing rubber hose and/or plastics (reinforced) hose and belting from natural and synthetic rubber and/or plastics resins. Establishments manufacturing garden hoses from purchased hose are included in this industry.

326220 Rubber and Plastics Hoses and Belting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing rubber hose and/or plastics (reinforced) hose and belting from natural and synthetic rubber and/or plastics resins. Establishments manufacturing garden hoses from purchased hose are included in this industry.

The data published with NAICS code 326220 include the following SIC industry:

3052 Rubber and plastics hose and belting

32629 Other Rubber Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing rubber products (except tires, hoses, and belting) from natural and synthetic rubber.

326291 Rubber Product Manufacturing for Mechanical Use

This U.S. industry comprises establishments primarily engaged in molding, extruding, or lathe-cutting rubber to manufacture rubber goods (except tubing) for mechanical applications. Products of this industry are generally parts for motor vehicles, machinery, and equipment.

The data published with NAICS code 326291 include the following SIC industry:

3061 Mechanical rubber goods

326299 All Other Rubber Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing rubber products (except tires; hoses and belting; and molded, extruded, and lathe-cut rubber goods for mechanical applications) from natural and synthetic rubber.

The data published with NAICS code 326299 include the following SIC industry:

3069 Fabricated rubber products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 326299 include establishments primarily engaged in the manufacture of rubber products including gloves, toys, pants, raincoats, bibs, aprons, bathing caps, life jackets, and wet suits. The NAICS definitions will be fully implemented with the 2002 Economic Census.

327 Nonmetallic Mineral Product Manufacturing

The Nonmetallic Mineral Product Manufacturing subsector transforms mined or quarried nonmetallic minerals, such as sand, gravel, stone, clay, and refractory materials, into products for intermediate or final consumption. Processes used include grinding, mixing, cutting, shaping, and honing. Heat often is used in the process and chemicals are frequently mixed to change the composition, purity, and chemical properties for the intended product. For example, glass is produced by heating silica sand to the melting point (sometimes combined with cullet or recycled glass) and then drawn, floated, or blow molded to the desired shape or thickness. Refractory materials are heated and then formed into bricks or other shapes for use in industrial applications.

The Nonmetallic Mineral Product Manufacturing subsector includes establishments that manufacture products, such as bricks, refractories, ceramic products, and glass and glass products, such as plate glass and containers. Also included are cement and concrete products, lime, gypsum and other nonmetallic mineral products including abrasive products, ceramic plumbing fixtures, statuary, cut stone products, and mineral wool. The products are used in a wide range of activities from construction and heavy and light manufacturing to articles for personal use.

Mining, beneficiating, and manufacturing activities often occur in a single location. Separate receipts will be collected for these activities whenever possible. When receipts cannot be broken out between mining and manufacturing, establishments that mine or quarry nonmetallic minerals, beneficiate the nonmetallic minerals and further

process the nonmetallic minerals into a more finished manufactured product are classified based on the primary activity of the establishment. A mine that manufactures a small amount of finished products will be classified in Sector 21, Mining. An establishment that mines whose primary output is a more-finished manufactured product will be classified in the Manufacturing Sector.

Excluded from the Nonmetallic Mineral Product Manufacturing subsector are establishments that primarily benefit mined nonmetallic minerals. Beneficiation is the process whereby the extracted material is reduced to particles that can be separated into mineral and waste, the former suitable for further processing or direct use. Beneficiation establishments are included in Sector 21, Mining.

3271 Clay Product and Refractory Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32711, Pottery, Ceramics, and Plumbing Fixture Manufacturing; and 32712, Clay Building Material and Refractories Manufacturing.

32711 Pottery, Ceramics, and Plumbing Fixture Manufacturing

This industry comprises establishments primarily engaged in shaping, molding, glazing, and firing pottery, ceramics, and plumbing fixtures made entirely or partly of clay or other ceramic materials.

327111 Vitreous China Plumbing Fixture and China and Earthenware Bathroom Accessories Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing vitreous china plumbing fixtures and china and earthenware bathroom accessories, such as faucet handles, towel bars, and soap dishes.

The data published with NAICS code 327111 include the following SIC industry:

3261 Vitreous plumbing fixtures

327112 Vitreous China, Fine Earthenware, and Other Pottery Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing table and kitchen articles, art and ornamental items, and similar vitreous china, fine earthenware, stoneware, coarse earthenware, and pottery products.

The data published with NAICS code 327112 include the following SIC industries:

3262 Vitreous china table and kitchen articles

3263 Fine earthenware table and kitchen articles

3269 Pottery products, n.e.c.

3299 Nonmetallic mineral products, n.e.c. (pt)

327113 Porcelain Electrical Supply Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing porcelain electrical insulators, molded porcelain parts for electrical devices, ferrite or ceramic magnets, and electronic and electrical supplies from nonmetallic minerals, such as clay and ceramic materials.

The data published with NAICS code 327113 include the following SIC industry:

3264 Porcelain electrical supplies

32712 Clay Building Material and Refractories Manufacturing

This industry comprises establishments primarily engaged in shaping, molding, baking, burning, or hardening clay refractories, nonclay refractories, ceramic tile, structural clay tile, brick, and other structural clay building materials.

327121 Brick and Structural Clay Tile Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing brick and structural clay tiles.

The data published with NAICS code 327121 include the following SIC industry:

3251 Brick and structural clay tile

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 327121 include establishments primarily engaged in the manufacture of slumped brick. The NAICS definitions will be fully implemented with the 2002 Economic Census.

327122 Ceramic Wall and Floor Tile Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ceramic wall and floor tiles.

The data published with NAICS code 327122 include the following SIC industry:

3253 Ceramic wall and floor tile

327123 Other Structural Clay Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing clay sewer pipe, drain tile, flue lining tile, architectural terra-cotta, and other structural clay products.

The data published with NAICS code 327123 include the following SIC industry:

3259 Structural clay products, n.e.c.

327124 Clay Refractory Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing clay refractory, mortar, brick, block, tile, and fabricated clay refractories, such as melting pots. A refractory is a material that will retain its shape and chemical identity when subjected to high temperatures and is used in applications that require extreme resistance to heat, such as furnace linings.

The data published with NAICS code 327124 include the following SIC industry:

3255 Clay refractories

327125 Nonclay Refractory Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonclay refractory, mortar, brick, block, tile, and fabricated nonclay refractories such as graphite, magnesite, silica, or alumina crucibles. A refractory is a material that will retain its shape and chemical identity when subjected to high temperatures and is used in applications that require extreme resistance to heat, such as furnace linings.

The data published with NAICS code 327125 include the following SIC industry:

3297 Nonclay refractories

3272 Glass and Glass Product Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 32721, Glass and Glass Product Manufacturing.

32721 Glass and Glass Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing glass and/or glass products. Establishments in this industry may manufacture glass and/or glass products by melting silica sand or cullet, or purchasing glass.

327211 Flat Glass Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing flat glass by melting silica sand or cullet or (2) manufacturing both flat glass and laminated glass by melting silica sand or cullet.

The data published with NAICS code 327211 include the following SIC industry:

3211 Flat glass

327212 Other Pressed and Blown Glass and Glassware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing glass by melting silica sand or cullet and making pressed, blown, or shaped glass or glassware (except glass packaging containers).

The data published with NAICS code 327212 include the following SIC industry:

3229 Pressed and blown glass, n.e.c.

327213 Glass Container Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing glass packaging containers.

The data published with NAICS code 327213 include the following SIC industry:

3221 Glass containers

327215 Glass Product Manufacturing Made of Purchased Glass

This U.S. industry comprises establishments primarily engaged in remelting, pressing, blowing, or shaping purchased glass.

The data published with NAICS code 327215 include the following SIC industry:

3231 Products of purchased glass

3273 Cement and Concrete Product Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32731, Cement Manufacturing; 32732, Ready-Mix Concrete Manufacturing; 32733, Concrete Pipe, Brick, and Block Manufacturing; and 32739, Other Concrete Product Manufacturing.

32731 Cement Manufacturing

This industry comprises establishments primarily engaged in manufacturing portland, natural, masonry, pozzalanic, and other hydraulic cements. Cement manufacturing establishments may calcine earths or mine, quarry, manufacture, or purchase lime.

327310 Cement Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing portland, natural, masonry, pozzalanic, and other hydraulic cements. Cement manufacturing establishments may calcine earths or mine, quarry, manufacture, or purchase lime.

The data published with NAICS code 327310 include the following SIC industry:

3241 Cement, hydraulic

32732 Ready-Mix Concrete Manufacturing

This industry comprises establishments, such as batch plants or mix plants, primarily engaged in manufacturing concrete delivered to a purchaser in a plastic and unhardened state. Ready-mix concrete manufacturing establishments may mine, quarry, or purchase sand and gravel.

327320 Ready-Mix Concrete Manufacturing

This U.S. industry comprises establishments, such as batch plants or mix plants, primarily engaged in manufacturing concrete delivered to a purchaser in a plastic and unhardened state. Ready-mix concrete manufacturing establishments may mine, quarry, or purchase sand and gravel.

The data published with NAICS code 327320 include the following SIC industry:

3273 Ready-mixed concrete

32733 Concrete Pipe, Brick, and Block Manufacturing

This industry comprises establishments primarily engaged in manufacturing concrete pipe, brick, and block

327331 Concrete Block and Brick Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing concrete block and brick.

The data published with NAICS code 327331 include the following SIC industry:

3271 Concrete brick and block

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 327331 do not include establishments primarily engaged in the manufacture of slumped brick. The NAICS definitions will be fully implemented with the 2002 Economic Census.

327332 Concrete Pipe Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing concrete pipe.

The data published with NAICS code 327332 include the following SIC industry:

3272 Concrete products, n.e.c. (pt)

32739 Other Concrete Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing concrete products (except block, brick, and pipe).

327390 Other Concrete Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing concrete products (except block, brick, and pipe).

The data published with NAICS code 327390 include the following SIC industry:

3272 Concrete products, n.e.c. (pt)

3274 Lime and Gypsum Product Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32741, Lime Manufacturing; and 32742, Gypsum Product Manufacturing.

32741 Lime Manufacturing

This industry comprises establishments primarily engaged in manufacturing lime from calcitic limestone, dolomitic limestone, or other calcareous materials, such as coral, chalk, and shells. Lime manufacturing establishments may mine, quarry, collect, or purchase the sources of calcium carbonate.

327410 Lime Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing lime from calcitic limestone, dolomitic limestone, or other calcareous materials, such as coral, chalk, and shells. Lime manufacturing establishments may mine, quarry, collect, or purchase the sources of calcium carbonate.

The data published with NAICS code 327410 include the following SIC industry:

3274 Lime

32742 Gypsum Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing gypsum products such as wall-board, plaster, plasterboard, molding, ornamental moldings, statuary, and architectural plaster work. Gypsum product manufacturing establishments may mine, quarry, or purchase gypsum.

327420 Gypsum Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing gypsum products, such as wall-board, plaster, plasterboard, molding, ornamental moldings, statuary, and architectural plaster work. Gypsum product manufacturing establishments may mine, quarry, or purchase gypsum.

The data published with NAICS code 327420 include the following SIC industries:

3275 Gypsum products

3299 Nonmetallic mineral products, n.e.c. (pt)

3279 Other Nonmetallic Mineral Product Manufacturing

The Other Nonmetallic Mineral Product Manufacturing industry group comprises establishments manufacturing nonmetallic mineral products (except clay products, refractory products, glass products, cement and concrete products, lime, and gypsum products).

32791 Abrasive Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, abrasive-coated products, and other abrasive products

327910 Abrasive Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, abrasive-coated products, and other abrasive products.

The data published with NAICS code 327910 include the following SIC industry:

3291 Abrasive products (pt)

32799 All Other Nonmetallic Mineral Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing nonmetallic mineral products (except pottery, ceramics, and plumbing fixtures; clay building materials and refractories; glass and glass products; cement; ready-mix concrete; concrete products; lime; gypsum products; and abrasive products).

327991 Cut Stone and Stone Product Manufacturing

This U.S. industry comprises establishments primarily engaged in cutting, shaping, and finishing granite, marble, limestone, slate, and other stone for building and miscellaneous uses. Stone product manufacturing establishments may mine, quarry, or purchase stone.

The data published with NAICS code 327991 include the following SIC industry:

3281 Cut stone and stone products

327992 Ground or Treated Mineral and Earth Manufacturing

This U.S. industry comprises establishments primarily engaged in calcining, dead burning, or otherwise processing beyond beneficiation, clays, ceramic and refractory minerals, barite, and miscellaneous nonmetallic minerals.

The data published with NAICS code 327992 include the following SIC industry:

3295 Minerals, ground or treated

327993 Mineral Wool Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing mineral wool and mineral wool (i.e., fiberglass) insulation products made of such siliceous materials as rock, slag, and glass or combinations thereof.

The data published with NAICS code 327993 include the following SIC industry:

3296 Mineral wool

327999 All Other Miscellaneous Nonmetallic Mineral Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonmetallic mineral products (except pottery, ceramics, and plumbing fixtures; clay building materials and refractories; glass and glass products; cement; ready-mix concrete; concrete products; lime; gypsum products; abrasive products; cut stone and stone products; ground and treated minerals and earth; and mineral wool).

The data published with NAICS code 327999 include the following SIC industries:

3272 Concrete products, n.e.c. (pt)

3292 Asbestos products (pt)

3299 Nonmetallic mineral products, n.e.c. (pt)

331 Primary Metal Manufacturing

Industries in the Primary Metal Manufacturing subsector smelt and/or refine ferrous and nonferrous metals from ore, pig or scrap, using electrometallurgical and other process metallurgical techniques. Establishments in this subsector also manufacture metal alloys and superalloys by introducing other chemical elements to pure metals. The output of smelting and refining, usually in ingot form, is used in rolling, drawing, and extruding operations to make sheet, strip, bar, rod, or wire, and in molten form to make castings and other basic metal products.

Primary manufacturing of ferrous and nonferrous metals begins with ore or concentrate as the primary input. Establishments manufacturing primary metals from ore and/or concentrate remain classified in the primary smelting, primary refining, or iron and steel mill, industries regardless of the form of their output. Establishments primarily engaged in secondary smelting and/or secondary refining recover ferrous and nonferrous metals from scrap and/or dross. The output of the secondary smelting and/or secondary refining industries is limited to shapes, such as ingot or billet, that will be further processed. Recovery of metals from scrap often occurs in establishments that are primarily engaged in activities, such as rolling, drawing, extruding, or similar processes.

Excluded from the Primary Metal Manufacturing subsector are establishments primarily engaged in manufacturing ferrous and nonferrous forgings (except ferrous forgings made in steel mills) and stampings. Although forging, stamping, and casting are all methods used to make metal shapes, forging and stamping do not use molten metals and are included in Subsector 332, Fabricated Metal Product Manufacturing. Establishments primarily engaged in operating coke ovens are classified in Industry 32419, Other Petroleum and Coal Products Manufacturing.

3311 Iron and Steel Mills and Ferroalloy Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33111, Iron and Steel Mills and Ferroalloy Manufacturing.

33111 Iron and Steel Mills and Ferroalloy Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) direct reduction of iron ore; (2) manufacturing pig iron in molten or solid form; (3) converting pig iron into steel; (4) manufacturing ferroalloys; (5) making steel; (6) making steel and manufacturing shapes (e.g., bar, plate, rod, sheet, strip, wire); and (7) making steel and forming pipe and tube.

331111 Iron and Steel Mills

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) direct reduction of iron ore; (2) manufacturing pig iron in molten or solid form; (3) converting pig iron into steel; (4) making steel; (5) making steel and manufacturing shapes (e.g., bar, plate, rod, sheet, strip, wire); and (6) making steel and forming tube and pipe.

The data published with NAICS code 331111 include the following SIC industries:

3312 Blast furnaces and steel mills (pt)

3399 Primary metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 331111 include establishments primarily engaged in the manufacture of ferrous metal powder, paste, and flake. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3311111 Iron and Steel Mills – Fully Integrated

Establishments primarily engaged in smelting iron ore in a blast furnace to produce pig iron in molten or solid form; then converting pig iron into steel by removal of the carbon in the iron through combustion in a basic oxygen or electric furnace; then producing iron and steel basic shapes, such as plates, sheets, strips, and bars, and other related products, such as pipes, tubes, and wire.

3311112 Iron and Steel Mills – Partially Integrated With a Blast Furnace

Establishments primarily engaged in smelting iron ore in a blast furnace to produce pig iron in molten or solid form; then converting pig iron into steel by removal of the carbon in the iron through combustion in a basic oxygen or electric furnace; then producing ingots and/or semfinished shapes, such as blooms, billets, and rods.

3311113 Iron and Steel Mills – Partially Integrated Without a Blast Furnace

Establishments primarily engaged in converting pig iron, direct reduced iron, and/or scrap into steel by removal of the carbon in the iron through combustion in a basic oxygen or electric furnace; then producing iron and steel basic shapes, such as plates, sheets, strips, and bars, and other related products, such as pipes, tubes, and wire.

3311114 Iron and Steel Mills – Nonintegrated

Establishments primarily engaged in producing iron and steel basic shapes, such as plates, sheets, strips, and bars, and other related products, such as pipes, tubes, and wire from purchased ingots and/or semfinished shapes, such as blooms, billets, and rods.

331112 Electrometallurgical Ferroalloy Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electrometallurgical ferroalloys. Ferroalloys add critical elements, such as silicon and manganese for carbon steel and chromium, vanadium, tungsten, titanium, and molybdenum for low- and high-alloy metals. Ferroalloys include iron-rich alloys and more pure forms of elements added during the steel manufacturing process that alter or improve the characteristics of the metal being made.

The data published with NAICS code 331112 include the following SIC industry:

3313 Electrometallurgical products (pt)

3312 Steel Product Manufacturing From Purchased Steel

This industry group comprises establishments primarily engaged in manufacturing iron and steel tube and pipe, drawing steel wire, and rolling or drawing shapes from purchased iron or steel.

33121 Iron and Steel Pipes and Tubes Manufacturing From Purchased Steel

This industry comprises establishments primarily engaged in manufacturing welded, riveted, or seamless pipe and tube from purchased iron or steel.

331210 Iron and Steel Pipes and Tubes Manufacturing From Purchased Steel

This U.S. industry comprises establishments primarily engaged in manufacturing welded, riveted, or seamless pipe and tube from purchased iron or steel.

The data published with NAICS code 331210 include the following SIC industry:

3317 Steel pipe and tubes

33122 Rolling and Drawing of Purchased Steel

This industry comprises establishments primarily engaged in rolling and/or drawing steel shapes, such as plate, sheet, strip, rod, and bar, from purchased steel.

331221 Rolled Steel Shape Manufacturing

This U.S. industry comprises establishments primarily engaged in rolling or drawing shapes (except wire), such as plate, sheet, strip, rod, and bar, from purchased steel.

The data published with NAICS code 331221 include the following SIC industry:

3316 Cold finishing of steel shapes

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 331221 do not include establishments primarily engaged in making coke oven and blast furnace products; in making steel and rolling or drawing steel shapes; or in the making of ferrous metal powder, paste, and flake. The NAICS definitions will be fully implemented with the 2002 Economic Census.

331222 Steel Wire Drawing

This U.S. industry comprises establishments primarily engaged in drawing wire from purchased steel.

The data published with NAICS code 331222 include the following SIC industry:

3315 Steel wire and related products (pt)

3313 Alumina and Aluminum Production and Processing

This NAICS industry group includes establishments classified in NAICS Industry 33131, Alumina and Aluminum Production and Processing.

33131 Alumina and Aluminum Production and Processing

This industry comprises establishments primarily engaged in one or more of the following: (1) refining alumina; (2) making (i.e., the primary production) aluminum from alumina; (3) recovering aluminum from scrap or dross; (4) alloying purchased aluminum; and (5) manufacturing aluminum primary forms (e.g., bar, foil, pipe, plate, rod, sheet, tube, wire).

331311 Alumina Refining

This U.S. industry comprises establishments primarily engaged in refining alumina (i.e., aluminum oxide) generally from bauxite.

The data published with NAICS code 331311 include the following SIC industry:

2819 Industrial inorganic chemicals, n.e.c. (pt)

331312 Primary Aluminum Production

This U.S. industry comprises establishments primarily engaged in (1) making aluminum from alumina and/or (2) making aluminum from alumina and rolling, drawing, extruding, or casting the aluminum they make into primary forms (e.g., bar, billet, ingot, plate, rod, sheet, strip). Establishments in this industry may make primary aluminum or aluminum-based alloys from alumina.

The data published with NAICS code 331312 include the following SIC industry:

3334 Primary aluminum

331314 Secondary Smelting and Alloying of Aluminum

This U.S. industry comprises establishments primarily engaged in (1) recovering aluminum and aluminum alloys from scrap and/or dross (i.e., secondary smelting) and making billet or ingot (except by rolling) and/or (2) manufacturing alloys, powder, paste, or flake from purchased aluminum.

The data published with NAICS code 331314 include the following SIC industries:

3341 Secondary nonferrous metals (pt)

3399 Primary metal products, n.e.c. (pt)

331315 Aluminum Sheet, Plate, and Foil Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) flat rolling or continuous casting sheet, plate, foil, and welded tube from purchased aluminum and/or (2) recovering aluminum from scrap and flat rolling or continuous casting sheet, plate, foil, and welded tube in integrated mills.

The data published with NAICS code 331315 include the following SIC industry:

3353 Aluminum sheet, plate, and foil (pt)

331316 Aluminum Extruded Product Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) extruding aluminum bar, pipe, and tube blooms or extruding or drawing tube from purchased aluminum; and/or (2) recovering aluminum from scrap and extruding bar, pipe, and tube blooms or drawing tube in integrated mills.

The data published with NAICS code 331316 include the following SIC industry:

3354 Aluminum extruded products

331319 Other Aluminum Rolling and Drawing

This U.S. industry comprises establishments primarily engaged in (1) rolling, drawing, or extruding shapes (except flat rolled sheet, plate, foil, and welded tube; extruded rod, bar, pipe, and tube blooms; and drawn or extruded tube) from purchased aluminum and/or (2) recovering aluminum from scrap and rolling, drawing or extruding shapes (except flat rolled sheet, plate, foil, and welded tube; extruded rod, bar, pipe, and tube blooms; and drawn or extruded tube) in integrated mills.

The data published with NAICS code 331319 include the following SIC industries:

3355 Aluminum rolling and drawing, n.e.c.

3357 Nonferrous wire drawing and insulating (pt)

3314 Nonferrous Metal (Except Aluminum) Production and Processing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33141, Nonferrous Metal (Except Aluminum) Smelting and Refining; 33142, Copper Rolling, Drawing, Extruding, and Alloying; and 33149, Nonferrous Metal (Except Copper and Aluminum) Rolling, Drawing, Extruding, and Alloying.

33141 Nonferrous Metal (Except Aluminum) Smelting and Refining

This industry comprises establishments primarily engaged in (1) smelting ores into nonferrous metals and/or (2) the primary refining of nonferrous metals (except aluminum) using electrolytic or other processes.

331411 Primary Smelting and Refining of Copper

This U.S. industry comprises establishments primarily engaged in (1) smelting copper ore and/or (2) the primary refining of copper by electrolytic methods or other processes. Establishments in this industry make primary copper and copper-based alloys, such as brass and bronze, from ore or concentrates.

The data published with NAICS code 331411 include the following SIC industry:

3331 Primary copper

331419 Primary Smelting and Refining of Nonferrous Metal (Except Copper and Aluminum)

This U.S. industry comprises establishments primarily engaged in (1) making (i.e., the primary production) nonferrous metals by smelting ore and/or (2) the primary refining of nonferrous metals by electrolytic methods or other processes.

The data published with NAICS code 331419 include the following SIC industry:

3339 Primary nonferrous metals, n.e.c.

33142 Copper Rolling, Drawing, Extruding, and Alloying

This industry comprises establishments primarily engaged in one or more of the following: (1) recovering copper or copper alloys from scraps; (2) alloying purchased copper; (3) rolling, drawing, or extruding shapes, (e.g., bar, plate, sheet, strip, tube, and wire) from purchased copper; and (4) recovering copper or copper alloys from scrap and rolling drawing, or extruding shapes (e.g., bar, plate, sheet, strip, tube, and wire).

331421 Copper Rolling, Drawing, and Extruding

This U.S. industry comprises establishments primarily engaged in (1) rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, tube (except bare or insulated copper communication or energy wire)) from purchased copper; and/or (2) recovering copper from scrap and rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, tube (except bare or insulated copper communication or energy wire in integrated mills)).

The data published with NAICS code 331421 include the following SIC industry:

3351 Copper rolling and drawing

331422 Copper Wire (Except Mechanical) Drawing

This U.S. industry comprises establishments primarily engaged in drawing or drawing and insulating communication and energy wire and cable from purchased copper or in integrated secondary smelting and wire drawing plants.

The data published with NAICS code 331422 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

331423 Secondary Smelting, Refining, and Alloying of Copper

This U.S. industry comprises establishments primarily engaged in (1) recovering copper and copper alloys from scrap and/or (2) alloying purchased copper. Establishments in this industry make primary forms, such as ingot, wire bar, cake, and slab from copper or copper alloys, such as brass and bronze.

The data published with NAICS code 331423 include the following SIC industries:

3341 Secondary nonferrous metals (pt)

3399 Primary metal products, n.e.c. (pt)

33149 Nonferrous Metal (Except Copper and Aluminum) Rolling, Drawing, Extruding, and Alloying

This industry comprises establishments primarily engaged in one or more of the following: (1) recovering nonferrous metals (except copper and aluminum) and nonferrous metal alloys from scrap; (2) alloying purchased

nonferrous metals (except copper and aluminum); (3) rolling, drawing, and extruding shapes from purchased nonferrous metals (except copper and aluminum); and (4) recovering nonferrous metals from scrap (except copper and aluminum) and rolling, drawing, or extruding shapes in integrated facilities.

331491 Nonferrous Metal (Except Copper and Aluminum) Rolling, Drawing, and Extruding

This U.S. industry comprises establishments primarily engaged in (1) rolling, drawing, or extruding shapes (e.g., bar, plate, sheet, strip, tube) from purchased nonferrous metals) and/or (2) recovering nonferrous metals from scrap and rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, tube) in integrated mills.

The data published with NAICS code 331491 include the following SIC industries:

3356 Nonferrous rolling and drawing, n.e.c.

3357 Nonferrous wire drawing and insulating (pt)

331492 Secondary Smelting, Refining, and Alloying of Nonferrous Metal (Except Copper and Aluminum)

This U.S. industry comprises establishments primarily engaged in (1) alloying purchased nonferrous metals and/or (2) recovering nonferrous metals from scrap. Establishments in this industry make primary forms (e.g., bar, billet, bloom, cake, ingot, slab, slug, wire) using smelting or refining processes.

The data published with NAICS code 331492 include the following SIC industries:

3313 Electrometallurgical products (pt)

3341 Secondary nonferrous metals (pt)

3399 Primary metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 331492 include establishments primarily engaged in the manufacture of other nonferrous additive alloys. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3315 Foundries

This industry group comprises establishments primarily engaged in pouring molten metal into molds or dies to form castings. Establishments making castings and further manufacturing, such as machining or assembling, a specific manufactured product are classified in the industry of the finished product. Foundries may perform operations, such as cleaning and deburring, on the castings they manufacture. More involved processes, such as tapping,

threading, milling, or machining to tight tolerances, that transform castings into more finished products are classified elsewhere in the manufacturing sector based on the product being made.

Establishments in this industry group make castings from purchased metals or in integrated secondary smelting and casting facilities. When the production of primary metals is combined with making castings, the establishment is classified in 331 with the primary metal being made.

33151 Ferrous Metal Foundries

This industry comprises establishments primarily engaged in pouring molten iron and steel into molds of a desired shape to make castings. Establishments in this industry purchase iron and steel made in other establishments.

331511 Iron Foundries

This U.S. industry comprises establishments primarily engaged in pouring molten pig iron or iron alloys into molds to manufacture castings, (e.g., cast iron man-hole covers, cast iron pipe, cast iron skillets). Establishments in this industry purchase iron made in other establishments.

The data published with NAICS code 331511 include the following SIC industries:

3321 Gray iron foundries

3322 Malleable iron foundries

331512 Steel Investment Foundries

This U.S. industry comprises establishments primarily engaged in manufacturing steel investment castings. Investment molds are formed by covering a wax shape with a refractory slurry. After the refractory slurry hardens, the wax is melted, leaving a seamless mold. Investment molds provide highly detailed, consistent castings. Establishments in this industry purchase steel made in other establishments.

The data published with NAICS code 331512 include the following SIC industry:

3324 Steel investment foundries

331513 Steel Foundries (Except Investment)

This U.S. industry comprises establishments primarily engaged in manufacturing steel castings (except steel investment castings). Establishments in this industry purchase steel made in other establishments.

The data published with NAICS code 331513 include the following SIC industry:

3325 Steel foundries, n.e.c.

33152 Nonferrous Metal Foundries

This industry comprises establishments primarily engaged in pouring and/or introducing molten nonferrous metal, under high pressure, into metal molds or dies to manufacture castings. Establishments in this industry purchase nonferrous metals made in other establishments.

331521 Aluminum Die-Casting Foundries

This U.S. industry comprises establishments primarily engaged in introducing molten aluminum, under high pressure, into molds or dies to make aluminum die-castings. Establishments in this industry purchase aluminum made in other establishments.

The data published with NAICS code 331521 include the following SIC industry:

3363 Aluminum die-castings

331522 Nonferrous (Except Aluminum) Die-Casting Foundries

This U.S. industry comprises establishments primarily engaged in introducing molten nonferrous metal (except aluminum), under high pressure, into molds to make nonferrous metal die-castings. Establishments in this industry purchase nonferrous metals made in other establishments.

The data published with NAICS code 331522 include the following SIC industry:

3364 Nonferrous die-casting, except aluminum

331524 Aluminum Foundries (Except Die-Casting)

This U.S. industry comprises establishments primarily engaged in pouring molten aluminum into molds to manufacture aluminum castings. Establishments in this industry purchase aluminum made in other establishments.

The data published with NAICS code 331524 include the following SIC industry:

3365 Aluminum foundries

331525 Copper Foundries (Except Die-Casting)

This U.S. industry comprises establishments primarily engaged in pouring molten copper into molds to manufacture copper castings. Establishments in this industry purchase copper made in other establishments.

The data published with NAICS code 331525 include the following SIC industry:

3366 Copper foundries

331528 Other Nonferrous Foundries (Except Die-Casting)

This U.S. industry comprises establishments primarily engaged in pouring molten nonferrous metals (except aluminum and copper) into molds to manufacture nonferrous castings (except aluminum die-castings, nonferrous

(except aluminum) die-castings, aluminum castings, and copper castings). Establishments in this industry purchase nonferrous metals, such as nickel, lead, and zinc, made in other establishments.

The data published with NAICS code 331528 include the following SIC industry:

3369 Nonferrous foundries, n.e.c.

332 Fabricated Metal Product Manufacturing

Industries in the Fabricated Metal Product Manufacturing subsector transform metal into intermediate or end products, other than machinery, computers and electronics, and metal furniture or treating metals and metal formed products fabricated elsewhere. Important fabricated metal processes are forging, stamping, bending, forming, and machining, used to shape individual pieces of metal; and other processes, such as welding and assembling, used to join separate parts together. Establishments in this subsector may use one of these processes or a combination of these processes.

The NAICS structure for this subsector distinguishes the forging and stamping processes in a single industry. The remaining industries, in the subsector, group establishments based on similar combinations of processes used to make products.

The manufacturing performed in the Fabricated Metal Product Manufacturing subsector begins with manufactured metal shapes. The establishments in this sector further fabricate the purchased metal shapes into a product. For instance, the Spring and Wire Product Manufacturing industry starts with wire and fabricates such items.

Within manufacturing there are other establishments that make the same products made by this subsector; only these establishments begin production further back in the production process. These establishments have a more integrated operation. For instance, one establishment may manufacture steel, draw it into wire, and make wire products in the same establishment. Such operations are classified in the Primary Metal Manufacturing subsector.

3321 Forging and Stamping

This NAICS industry group includes establishments classified in NAICS Industry 33211, Forging and Stamping.

33211 Forging and Stamping

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing forgings from purchased metals; (2) manufacturing metal custom roll forming products; (3) manufacturing metal stamped and spun products (except automotive, cans, coins); and (4) manufacturing powder metallurgy products. Establishments making metal forgings, metal stampings, and metal spun products and further manufacturing (e.g., machining, assembling) a specific manufactured product are classified in the industry of the finished

product. Metal forging, metal stamping, and metal spun products establishments may perform surface finishing operations, such as cleaning and deburring, on the products they manufacture.

332111 Iron and Steel Forging

This U.S. industry comprises establishments primarily engaged in manufacturing iron and steel forgings from purchased iron and steel by hammering mill shapes. Establishments making iron and steel forgings and further manufacturing (e.g., machining, assembling) a specific manufactured product are classified in the industry of the finished product. Iron and steel forging establishments may perform surface finishing operations, such as cleaning and deburring, on the forgings they manufacture.

The data published with NAICS code 332111 include the following SIC industry:

3462 Iron and steel forgings

332112 Nonferrous Forging

This U.S. industry comprises establishments primarily engaged in manufacturing nonferrous forgings from purchased nonferrous metals by hammering mill shapes. Establishments making nonferrous forgings and further manufacturing (e.g., machining, assembling) a specific manufactured product are classified in the industry of the finished product. Nonferrous forging establishments may perform surface finishing operations, such as cleaning and deburring, on the forgings they manufacture.

The data published with NAICS code 332112 include the following SIC industry:

3463 Nonferrous forgings

332114 Custom Roll Forming

This U.S. industry comprises establishments primarily engaged in custom roll forming metal products by use of rotary motion of rolls with various contours to bend or shape the products.

The data published with NAICS code 332114 include the following SIC industry:

3449 Miscellaneous metal work (pt)

332115 Crown and Closure Manufacturing

This U.S. industry comprises establishments primarily engaged in stamping metal crowns and closures, such as bottle caps and home canning lids and rings.

The data published with NAICS code 332115 include the following SIC industry:

3466 Crowns and closures

332116 Metal Stamping

This U.S. industry comprises establishments primarily engaged in manufacturing unfinished metal stampings and spinning unfinished metal products (except crowns, cans, closures, automotive, and coins). Establishments making metal stampings and metal spun products and further manufacturing (e.g., machining, assembling) a specific product are classified in the industry of the finished product. Metal stamping and metal spun products establishments may perform surface finishing operations, such as cleaning and deburring, on the products they manufacture.

The data published with NAICS code 332116 include the following SIC industry:

3469 Metal stampings, n.e.c. (pt)

332117 Powder Metallurgy Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing powder metallurgy products by compacting them in a shaped die and sintering. Establishments in this industry generally make a wide range of parts on a job or order basis.

The data published with NAICS code 332117 include the following SIC industry:

3499 Fabricated metal products, n.e.c. (pt)

3322 Cutlery and Handtool Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33221, Cutlery and Handtool Manufacturing.

33221 Cutlery and Handtool Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing nonprecious and precious plated metal cutlery and flatware; (2) manufacturing nonpowered hand and edge tools; (3) manufacturing nonpowered handsaws; (4) manufacturing saw blades, all types (including those for sawing machines); and (5) manufacturing metal kitchen utensils (except cutting-type) and pots and pans (except those manufactured by casting (e.g., cast iron skillets) or stamped without further fabrication).

332211 Cutlery and Flatware (Except Precious) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonprecious and precious plated metal cutlery and flatware.

The data published with NAICS code 332211 include the following SIC industries:

3421 Cutlery

3914 Silverware and plated ware (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census—Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332211 do not include establishments primarily engaged in the manufacture of hand-operated clippers for human hair. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332212 Hand and Edge Tool Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonpowered hand and edge tools (except saws).

The data published with NAICS code 332212 include the following SIC industries:

- 3423 Hand and edge tools, n.e.c.
- 3523 Farm machinery and equipment (pt)
- 3524 Lawn and garden equipment (pt)
- 3545 Machine tool accessories (pt)
- 3699 Electrical equipment and supplies, n.e.c. (pt)
- 3799 Transportation equipment, n.e.c. (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census—Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332212 include establishments primarily engaged in the manufacture of wheelbarrows or quality control laser equipment but do not include establishments primarily engaged in the manufacture of tool-type shears or fish wire, an electrical wiring tool. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332213 Saw Blade and Handsaw Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing nonpowered handsaws and/or (2) manufacturing saw blades, all types (including those for power sawing machines).

The data published with NAICS code 332213 include the following SIC industry:

- 3425 Saw blades and handsaws

332214 Kitchen Utensil, Pot, and Pan Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal kitchen utensils (except cutting-type), pots, and pans (except those manufactured by casting (e.g., cast iron skillets) or stamped without further fabrication).

The data published with NAICS code 332214 include the following SIC industry:

- 3469 Metal stampings, n.e.c. (pt)

3323 Architectural and Structural Metals Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33231, Plate Work and Fabricated Structural Product Manufacturing; and 33232, Ornamental and Architectural Metal Products Manufacturing.

33231 Plate Work and Fabricated Structural Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following: (1) prefabricated metal buildings, panels, and sections; (2) structural metal products; and (3) metal plate work products.

332311 Prefabricated Metal Building and Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing prefabricated metal buildings, panels, and sections.

The data published with NAICS code 332311 include the following SIC industry:

- 3448 Prefabricated metal buildings

332312 Fabricated Structural Metal Manufacturing

This U.S. industry comprises establishments primarily engaged in fabricating structural metal products, such as concrete reinforcing bars and fabricated bar joists.

The data published with NAICS code 332312 include the following SIC industries:

- 3441 Fabricated structural metal
- 3449 Miscellaneous metal work (pt)

332313 Plate Work Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated metal plate work by cutting, punching, bending, shaping, and welding purchased metal plate.

The data published with NAICS code 332313 include the following SIC industry:

- 3443 Fabricated plate work, boiler shops (pt)

33232 Ornamental and Architectural Metal Products Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following: (1) metal framed windows (i.e., typically using purchased glass) and metal doors; (2) sheet metal work; and (3) ornamental and architectural metal products.

332321 Metal Window and Door Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal framed windows (i.e., typically using purchased glass) and metal doors. Examples of products made by these establishments are metal door frames; metal framed window and door screens; metal molding and trim (except automotive); and metal curtain walls.

The data published with NAICS code 332321 include the following SIC industries:

- 2499 Wood products, n.e.c. (pt)
- 3442 Metal doors, sash, and trim
- 3449 Miscellaneous metal work (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332321 include establishments primarily engaged in the manufacture of metal finished moldings for mirrors and pictures. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332322 Sheet Metal Work Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sheet metal work (except stampings).

The data published with NAICS code 332322 include the following SIC industry:

- 3444 Sheet metal work (pt)

332323 Ornamental and Architectural Metal Work Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ornamental and architectural metal work, such as staircases, metal open steel flooring, fire escapes, railings, and scaffolding.

The data published with NAICS code 332323 include the following SIC industries:

- 3446 Architectural metal work
- 3449 Miscellaneous metal work (pt)
- 3523 Farm machinery and equipment (pt)

3324 Boiler, Tank, and Shipping Container Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33241, Power Boiler and Heat Exchanger Manufacturing; 33242, Metal Tank (Heavy Gauge) Manufacturing; and 33243, Metal Can, Box, and Other Metal Container (Light Gauge) Manufacturing.

33241 Power Boiler and Heat Exchanger Manufacturing

This industry comprises establishments primarily engaged in manufacturing power boilers and heat exchangers. Establishments in this industry may perform installation in addition to manufacturing power boilers and heat exchangers.

332410 Power Boiler and Heat Exchanger Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing power boilers and heat exchangers. Establishments in this industry may perform installation in addition to manufacturing power boilers and heat exchangers.

The data published with NAICS code 332410 include the following SIC industry:

- 3443 Fabricated plate work, boiler shops (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332410 do not include establishments primarily engaged in the manufacture of nuclear control drive mechanisms. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33242 Metal Tank (Heavy Gauge) Manufacturing

This industry comprises establishments primarily engaged in cutting, forming, and joining heavy gauge metal to manufacture tanks, vessels, and other containers.

332420 Metal Tank (Heavy Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in cutting, forming, and joining heavy gauge metal to manufacture tanks, vessels, and other containers.

The data published with NAICS code 332420 include the following SIC industry:

- 3443 Fabricated plate work, boiler shops (pt)

33243 Metal Can, Box, and Other Metal Container (Light Gauge) Manufacturing

This industry comprises establishments primarily engaged in forming light gauge metal containers.

332431 Metal Can Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal cans, lids, and ends.

The data published with NAICS code 332431 include the following SIC industry:

- 3411 Metal cans

332439 Other Metal Container Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal (light gauge) containers (except cans).

The data published with NAICS code 332439 include the following SIC industries:

- 3412 Metal barrels, drums, and pails
- 3429 Hardware, n.e.c. (pt)
- 3444 Sheet metal work (pt)
- 3499 Fabricated metal products, n.e.c. (pt)
- 3537 Industrial trucks and tractors (pt)

3325 Hardware Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33251, Hardware Manufacturing.

33251 Hardware Manufacturing

This industry comprises establishments primarily engaged in manufacturing metal hardware, such as metal hinges, metal handles, keys, and locks (except coin-operated, time locks).

332510 Hardware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal hardware, such as metal hinges, metal handles, keys, and locks (except coin-operated, time locks).

The data published with NAICS code 332510 include the following SIC industries:

- 3429 Hardware, n.e.c. (pt)
- 3499 Fabricated metal products, n.e.c. (pt)

3326 Spring and Wire Product Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33261, Spring and Wire Product Manufacturing.

33261 Spring and Wire Product Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing steel springs by forming, such as cutting, bending, and heat winding metal rod or strip stock and/or (2) manufacturing wire springs and fabricated wire products from wire drawn elsewhere (except watch and clock springs).

332611 Spring (Heavy Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing heavy gauge springs by forming, such as cutting, bending, and heat winding rod or strip stock.

The data published with NAICS code 332611 include the following SIC industry:

- 3493 Steel springs, except wire

332612 Spring (Light Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing light gauge springs from purchased wire or strip.

The data published with NAICS code 332612 include the following SIC industry:

- 3495 Wire springs (pt)

332618 Other Fabricated Wire Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated wire products (except springs) made from purchased wire.

The data published with NAICS code 332618 include the following SIC industries:

- 3315 Steel wire and related products (pt)
- 3399 Primary metal products, n.e.c. (pt)
- 3496 Miscellaneous fabricated wire products

3327 Machine Shops; Turned Product; and Screw, Nut, and Bolt Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33271, Machine Shops; and 33272, Turned Product and Screw, Nut, and Bolt Manufacturing.

33271 Machine Shops

This industry comprises establishments known as machine shops primarily engaged in machining metal parts on a job or order basis. Generally machine shop jobs are low volume using machine tools, such as lathes (including computer numerically controlled); automatic screw machines; and machines for boring, grinding, and milling.

332710 Machine Shops

This U.S. industry comprises establishments known as machine shops primarily engaged in machining metal parts on a job or order basis. Generally machine shop jobs are low volume using machine tools, such as lathes (including computer numerically controlled); automatic screw machines; and machines for boring, grinding, and milling.

The data published with NAICS code 332710 include the following SIC industry:

- 3599 Industrial machinery, n.e.c. (pt)

33272 Turned Product and Screw, Nut, and Bolt Manufacturing

This industry comprises establishments primarily engaged in (1) machining precision turned products or (2) manufacturing metal bolts, nuts, screws, rivets, and other industrial fasteners. Included in this industry are establishments primarily engaged manufacturing parts for machinery and equipment on a customized basis.

332721 Precision Turned Product Manufacturing

This U.S. industry comprises establishments known as precision turned manufacturers primarily engaged in machining precision products of all materials on a job or order basis. Generally precision turned product jobs are large volume using machines, such as automatic screw machines, rotary transfer machines, computer numerically controlled (CNC) lathes, or turning centers.

The data published with NAICS code 332721 include the following SIC industry:

3451 Screw machine products

332722 Bolt, Nut, Screw, Rivet, and Washer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal bolts, nuts, screws, rivets, and washers, and other industrial fasteners using machines, such as headers, threaders, and nut forming machines.

The data published with NAICS code 332722 include the following SIC industry:

3452 Bolts, nuts, rivets, and washers

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332722 do not include establishments primarily engaged in the manufacture of turnbuckles and hose clamps. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3328 Coating, Engraving, Heat Treating, and Allied Activities

This NAICS industry group includes establishments classified in NAICS Industry 33281, Coating, Engraving, Heat Treating, and Allied Activities.

33281 Coating, Engraving, Heat Treating, and Allied Activities

This industry comprises establishments primarily engaged in one or more of the following: (1) heat treating metals and metal products; (2) enameling, lacquering, varnishing metals and metal products; (3) hot dip galvanizing metals and metal products; (4) engraving, chasing, or

etching metals and metal products (except jewelry; personal goods carried on or about the person, such as compacts and cigarette cases; precious metal products (except precious plated flatware and other plated ware); and printing plates); (5) powder coating metals and metal products; (6) electroplating, plating, anodizing, coloring, and finishing metals and metal products; and (7) providing other metal surfacing services for the trade. Establishments in this industry coat engravings and heat treat metals and metal formed products fabricated elsewhere.

332811 Metal Heat Treating

This U.S. industry comprises establishments primarily engaged in heat treating, such as annealing, tempering, and brazing, metals and metal products for the trade.

The data published with NAICS code 332811 include the following SIC industry:

3398 Metal heat treating

332812 Metal Coating, Engraving (Except Jewelry and Silverware), and Allied Services to Manufacturers

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) enameling, lacquering, and varnishing metals and metal products; (2) hot dip galvanizing metals and metal products; (3) engraving, chasing, or etching metals and metal products (except jewelry; personal goods carried on or about the person, such as compacts and cigarette cases; precious metal products (except precious plated flatware and other plated ware); and printing plates); (4) powder coating metals and metal products; and (5) providing other metal surfacing services for the trade.

The data published with NAICS code 332812 include the following SIC industry:

3479 Metal coating and allied services (pt)

332813 Electroplating, Plating, Polishing, Anodizing, and Coloring

This U.S. industry comprises establishments primarily engaged in electroplating, plating, anodizing, coloring, buffing, polishing, cleaning, and sandblasting metals and metal products for the trade.

The data published with NAICS code 332813 include the following SIC industry:

3471 Plating and polishing

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332813 do not include establishments primarily engaged in laminating steel. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3329 Other Fabricated Metal Product Manufacturing

This industry group comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metals, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, and nuts and bolts).

33291 Metal Valve Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following metal valves: (1) industrial valves; (2) fluid power valves and hose fittings; (3) plumbing fixture fittings and trim; and (4) other metal valves and pipe fittings.

332911 Industrial Valve Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial valves and valves for water works and municipal water systems.

The data published with NAICS code 332911 include the following SIC industries:

3491 Industrial valves

332912 Fluid Power Valve and Hose Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power valves and hose fittings.

The data published with NAICS code 332912 include the following SIC industries:

3492 Fluid power valves and hose fittings

3728 Aircraft parts and equipment, n.e.c. (pt)

332913 Plumbing Fixture Fitting and Trim Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal and plastics plumbing fixture fittings and trim, such as faucets, flush valves, and shower heads.

The data published with NAICS code 332913 include the following SIC industry:

3432 Plumbing fittings and brass goods (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332913 include establishments primarily engaged in the manufacture of lawn hose nozzels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332919 Other Metal Valve and Pipe Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal valves (except industrial valves, fluid power valves, fluid power hose fittings, and plumbing fixture fittings and trim).

The data published with NAICS code 332919 include the following SIC industries:

3429 Hardware, n.e.c. (pt)

3494 Valves and pipe fittings, n.e.c. (pt)

3499 Fabricated metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332919 do not include establishments primarily engaged in manufacturing lawn hose nozzels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33299 All Other Fabricated Metal Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metal products, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, nuts and bolts, and metal valves).

332991 Ball and Roller Bearing Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ball and roller bearings of all materials.

The data published with NAICS code 332991 include the following SIC industry:

3562 Ball and roller bearings

332992 Small Arms Ammunition Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small arms ammunition.

The data published with NAICS code 332992 include the following SIC industry:

3482 Small arms ammunition

332993 Ammunition (Except Small Arms) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ammunition (except small arms). Examples of products made by these establishments are bombs, depth charges, rockets (except guided missiles), grenades, mines, and torpedoes.

The data published with NAICS code 332993 include the following SIC industry:

3483 Ammunition, except small arms, n.e.c.

332994 Small Arms Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small firearms that are carried and fired by the individual.

The data published with NAICS code 332994 include the following SIC industry:

3484 Small arms

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332994 do not include establishments primarily engaged in the manufacture of tranquilizer guns. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332995 Other Ordnance and Accessories Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ordnance (except small arms) and accessories.

The data published with NAICS code 332995 include the following SIC industry:

3489 Ordnance and accessories, n.e.c.

332996 Fabricated Pipe and Pipe Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in fabricating (such as cutting, threading and bending) metal pipes and pipe fittings made from purchased metal pipe.

The data published with NAICS code 332996 include the following SIC industries:

3353 Aluminum sheet, plate, and foil (pt)

3498 Fabricated pipe and fittings

332997 Industrial Pattern Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial patterns.

The data published with NAICS code 332997 include the following SIC industry:

3543 Industrial patterns

332998 Enameled Iron and Metal Sanitary Ware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing enameled iron and metal sanitary ware.

The data published with NAICS code 332998 include the following SIC industry:

3431 Metal sanitary ware

332999 All Other Miscellaneous Fabricated Metal Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metals, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, nuts, and bolts, metal valves, ball and roller bearings, ammunition, small arms and other ordnances, fabricated pipes and pipe fittings, industrial patterns, and enameled iron and metal sanitary ware).

The data published with NAICS code 332999 include the following SIC industries:

3291 Abrasive products (pt)

3432 Plumbing fixture fittings and trim

3494 Valves and pipe fittings, n.e.c. (pt)

3497 Metal foil and leaf (pt)

3499 Fabricated metal products, n.e.c. (pt)

3537 Industrial trucks and tractors (pt)

3599 Industrial machinery, n.e.c. (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332999 do not include establishments primarily engaged in manufacturing fire-place fixtures, traps, handcuffs and leg irons, ladder jacks, or other like metal products, or primarily engaged in manufacturing precious metal hollowware. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333 Machinery Manufacturing

Industries in the Machinery Manufacturing subsector create end products that apply mechanical force, for example, the application of gears and levers, to perform work. Some important processes for the manufacture of machinery are forging, stamping, bending, forming, and machining that are used to shape individual pieces of metal. Processes, such as welding and assembling are used to join separate parts together. Although these processes are similar to those used in metal fabricating establishments, machinery manufacturing is different because it

typically employs multiple metal forming processes in manufacturing the various parts of the machine. Moreover, complex assembly operations are an inherent part of the production process.

In general, design considerations are very important in machinery production. Establishments specialize in making machinery designed for particular applications. Thus, design is considered to be part of the production process for the purpose of implementing NAICS. The NAICS structure reflects this by defining industries and industry groups that make machinery for different applications. A broad distinction exists between machinery that is generally used in a variety of industrial applications (i.e., general-purpose machinery) and machinery that is designed to be used in a particular industry (i.e., special-purpose machinery). Three industry groups consist of special-purpose machinery—Agricultural, Construction, and Mining Machinery Manufacturing; Industrial Machinery Manufacturing; and Commercial and Service Industry Machinery Manufacturing. The other industry groups make general-purpose machinery: Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing; Metalworking Machinery Manufacturing; Engine, Turbine, and Power Transmission Equipment Manufacturing; and Other General-Purpose Machinery Manufacturing.

3331 Agriculture, Construction, and Mining Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33311, Agricultural Implement Manufacturing; 33312, Construction Machinery Manufacturing; and 33313, Mining and Oil and Gas Field Machinery Manufacturing.

33311 Agricultural Implement Manufacturing

This industry comprises establishments primarily engaged in manufacturing farm machinery and equipment, powered mowing equipment, and other powered home lawn and garden equipment.

333111 Farm Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing agricultural and farm machinery and equipment, and other turf and grounds care equipment, including planting, harvesting, and grass mowing equipment (except lawn and garden-type).

The data published with NAICS code 333111 include the following SIC industry:

3523 Farm machinery and equipment (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to

NAICS. Data for NAICS industry 333111 do not include establishments primarily engaged in manufacturing cotton ginning machinery. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333112 Lawn and Garden Tractor and Home Lawn and Garden Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing powered lawnmowers, lawn and garden tractors, and other home lawn and garden equipment, such as tillers, shredders, and yard vacuums and blowers.

The data published with NAICS code 333112 include the following SIC industry:

3524 Lawn and garden equipment (pt)

33312 Construction Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing construction machinery, surface mining machinery, and logging equipment.

333120 Construction Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing construction machinery, surface mining machinery, and logging equipment.

The data published with NAICS code 333120 include the following SIC industry:

3531 Construction machinery (pt)

33313 Mining and Oil and Gas Field Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing oil and gas field and underground mining machinery and equipment.

333131 Mining Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing underground mining machinery and equipment, such as coal breakers, mining cars, core drills, coal cutters, rock drills and (2) manufacturing mineral beneficiating machinery and equipment used in surface or underground mines.

The data published with NAICS code 333131 include the following SIC industry:

3532 Mining machinery

333132 Oil and Gas Field Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing oil and gas field machinery and equipment, such as oil and gas field drilling machinery and equipment; oil and gas field production machinery and equipment; and oil and gas field derricks and (2) manufacturing water well drilling machinery.

The data published with NAICS code 333132 include the following SIC industry:

3533 Oil field machinery

3332 Industrial Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33321, Sawmill and Woodworking Machinery Manufacturing; 33322, Plastics and Rubber Industry Machinery Manufacturing; and 33329, Other Industrial Machinery Manufacturing.

33321 Sawmill and Woodworking Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing sawmill and woodworking machinery (except handheld), such as circular and band sawing equipment, planing machinery, and sanding machinery.

333210 Sawmill and Woodworking Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sawmill and woodworking machinery (except handheld), such as circular and band sawing equipment, planing machinery, and sanding machinery.

The data published with NAICS code 333210 include the following SIC industry:

3553 Woodworking machinery

33322 Plastics and Rubber Industry Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing plastics and rubber products making machinery, such as plastics compression, extrusion and injection molding machinery and equipment, and tire building and recapping machinery and equipment.

333220 Plastics and Rubber Industry Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing plastics and rubber products making machinery, such as plastics compression, extrusion and injection molding machinery and equipment, and tire building and recapping machinery and equipment.

The data published with NAICS code 333220 include the following SIC industry:

3559 Special industry machinery, n.e.c. (pt)

33329 Other Industrial Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing industrial machinery (except agricultural and farm-type, construction, mining, sawmill and woodworking, and plastics and rubber products making machinery).

333291 Paper Industry Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing paper industry machinery for making paper and paper products, such as pulp making machinery, paper and paperboard making machinery, and paper and paperboard converting machinery.

The data published with NAICS code 333291 include the following SIC industry:

3554 Paper industries machinery

333292 Textile Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing textile machinery for making thread, yarn, and fiber.

The data published with NAICS code 333292 include the following SIC industries:

3552 Textile machinery

3699 Electrical equipment and supplies, n.e.c. (pt)

333293 Printing Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing printing and bookbinding machinery and equipment, such as printing presses, type-setting machinery, and bindery machinery.

The data published with NAICS code 333293 include the following SIC industries:

3555 Printing trades machinery

3699 Electrical equipment and supplies, n.e.c. (pt)

333294 Food Product Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing food and beverage manufacturing-type machinery and equipment, such as dairy product plant machinery and equipment (e.g., homogenizers, pasteurizers, ice cream freezers), bakery machinery and equipment (e.g., dough mixers, bake ovens, pastry rolling machines), meat and poultry processing and preparation machinery, and other commercial food products machinery (e.g., slicers, choppers, and mixers).

The data published with NAICS code 333294 include the following SIC industry:

3556 Food products machinery

333295 Semiconductor Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wafer processing equipment, semiconductor assembly and packaging equipment, and other semiconductor making machinery.

The data published with NAICS code 333295 include the following SIC industry:

3559 Special industry machinery, n.e.c. (pt)

333298 All Other Industrial Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial machinery (except agricultural and farm-type, construction and mining machinery, sawmill and woodworking machinery, plastics and rubber making machinery, paper and paperboard making machinery, textile machinery, printing machinery and equipment, food manufacturing-type machinery, and semiconductor making machinery).

The data published with NAICS code 333298 include the following SIC industries:

3559 Special industry machinery, n.e.c. (pt)

3639 Household appliances, n.e.c. (pt)

3333 Commercial and Service Industry Machinery Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33331, Commercial and Service Industry Machinery Manufacturing.

33331 Commercial and Service Industry Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing commercial and service machinery, such as automatic vending machinery, commercial laundry and drycleaning machinery, office machinery, photographic and photocopying machinery, optical instruments and machinery, automotive maintenance equipment (except mechanic's handtools), industrial vacuum cleaners, and commercial-type cooking equipment.

333311 Automatic Vending Machine Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing coin, token, currency, or magnetic card operated vending machines and/or (2) manufacturing coin operated mechanism for machines, such as vending machines, lockers, and laundry machines.

The data published with NAICS code 333311 include the following SIC industry:

3581 Automatic merchandising machines

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333311 do not include establishments primarily engaged in the manufacture of change making machines. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333312 Commercial Laundry, Drycleaning, and Pressing Machine Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing commercial and industrial laundry and drycleaning equipment and pressing machines.

The data published with NAICS code 333312 include the following SIC industry:

3582 Commercial laundry equipment

333313 Office Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing office machinery (except computers and photocopying equipment), such as mail-handling machinery and equipment, calculators, typewriters, and dedicated word processing equipment.

The data published with NAICS code 333313 include the following SIC industries:

3578 Calculating and accounting equipment (pt)

3579 Office machines, n.e.c. (pt)

333314 Optical Instrument and Lens Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing optical instruments and lens, such as binoculars, microscopes (except electron, proton), telescopes, prisms, and lenses (except ophthalmic); (2) coating or polishing lenses (except ophthalmic); and (3) mounting lenses (except ophthalmic).

The data published with NAICS code 333314 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3827 Optical instruments and lenses

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333314 include establishments primarily engaged in the manufacture of sighting and tracking laser products.

333315 Photographic and Photocopying Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing photographic and photocopying equipment, such as cameras (except television, video, digital projectors, film developing equipment, photocopying equipment, and microfilm equipment).

The data published with NAICS code 333315 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3861 Photographic equipment and supplies (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333315 include establishments primarily engaged in the manufacture of photographic laser products.

333319 Other Commercial and Service Industry Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing commercial and service industry equipment (except automatic vending machines, commercial laundry, drycleaning and pressing machines, office machinery, optical instruments and lenses, and photographic and photocopying equipment).

The data published with NAICS code 333319 include the following SIC industries:

3559 Special industry machinery, n.e.c. (pt)

3589 Service industry machinery, n.e.c.

3599 Industrial machinery, n.e.c. (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333319 do not include establishments primarily engaged in the manufacture of beauty and barbershop equipment, except chairs. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3334 Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33341, Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing.

33341 Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing ventilating, heating, air-conditioning, and commercial and industrial refrigeration and freezer equipment.

333411 Air Purification Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing stationary air purification equipment, such as industrial dust and fume collection equipment, electrostatic precipitation equipment, warm air furnace filters, air washers, and other dust collection equipment.

The data published with NAICS code 333411 include the following SIC industry:

3564 Blowers and fans (pt)

333412 Industrial and Commercial Fan and Blower Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing attic fans and industrial and commercial fans and blowers, such as commercial exhaust fans and commercial ventilating fans.

The data published with NAICS code 333412 include the following SIC industry:

3564 Blowers and fans (pt)

333414 Heating Equipment (Except Warm Air Furnaces) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing heating equipment (except electric and warm air furnaces), such as heating boilers, heating stoves, floor and wall furnaces, and wall and baseboard heating units.

The data published with NAICS code 333414 include the following SIC industries:

3433 Heating equipment, except electric

3634 Electric housewares and fans (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333414 do not include establishments primarily engaged in the manufacture of cooling towers of wood, metal, or sheet metal, or the manufacture of electric swimming pool heaters. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333415 Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing air-conditioning (except motor vehicle) and warm air furnace equipment and/or (2) manufacturing commercial and industrial refrigeration and freezer equipment.

The data published with NAICS code 333415 include the following SIC industries:

3443 Fabricated plate work, boiler shops (pt)

3585 Refrigeration and heating equipment (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to

NAICS. Data for NAICS industry 333415 include establishments primarily engaged in the manufacture of metal cooling towers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3335 Metalworking Machinery Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33351, Metalworking Machinery Manufacturing.

33351 Metalworking Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing metalworking machinery, such as metal cutting and metal forming machine tools; cutting tools; and accessories for metalworking machinery; special dies, tools, jigs, and fixtures; industrial molds; rolling mill machinery; assembly machinery; coil handling, conversion, or straightening equipment; and wire drawing and fabricating machines.

333511 Industrial Mold Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial molds for casting metals or forming other materials, such as plastics, glass, or rubber.

The data published with NAICS code 333511 include the following SIC industry:

3544 Special dies, tools, jigs, and fixtures (pt)

333512 Machine Tool (Metal Cutting Types) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal cutting machine tools (except handtools).

The data published with NAICS code 333512 include the following SIC industries:

3541 Machine tools, metal cutting types

3699 Electrical equipment and supplies, n.e.c. (pt)

333513 Machine Tool (Metal Forming Types) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal forming machine tools (except handtools), such as punching, sheering, bending, forming, pressing, forging and die-casting machines.

The data published with NAICS code 333513 include the following SIC industries:

3542 Machine tools, metal forming types

333514 Special Die and Tool, Die Set, Jig, and Fixture Manufacturing

This U.S. industry comprises establishments, known as tool and die shops, primarily engaged in manufacturing special tools and fixtures, such as cutting dies and jigs.

The data published with NAICS code 333514 include the following SIC industry:

3544 Special dies, tools, jigs, and fixtures (pt)

333515 Cutting Tool and Machine Tool Accessory Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing accessories and attachments for metal cutting and metal forming machine tools.

The data published with NAICS code 333515 include the following SIC industry:

3545 Machine tool accessories (pt)

333516 Rolling Mill Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing rolling mill machinery and equipment for metal production.

The data published with NAICS code 333516 include the following SIC industry:

3547 Rolling mill machinery

333518 Other Metalworking Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal working machinery (except industrial molds; metal cutting machine tools; metal forming machine tools; special dies and tools, die sets, jigs, and fixtures; cutting tools and machine tool accessories; and rolling mill machinery and equipment).

The data published with NAICS code 333518 include the following SIC industry:

3549 Metalworking machinery, n.e.c.

3336 Engine, Turbine, and Power Transmission Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33361, Engine, Turbine, and Power Transmission Equipment Manufacturing.

33361 Engine, Turbine, and Power Transmission Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing turbines, power transmission equipment, and internal combustion engines (except automotive gasoline and aircraft).

333611 Turbine and Turbine Generator Set Units Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing turbines (except aircraft); and complete turbine generator set units, such as steam, hydraulic, gas, and wind.

The data published with NAICS code 333611 include the following SIC industry:

3511 Turbines and turbine generator sets

333612 Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing gears, speed changers, and industrial high-speed drives (except hydrostatic).

The data published with NAICS code 333612 include the following SIC industry:

3566 Speed changers, drives, and gears

333613 Mechanical Power Transmission Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing mechanical power transmission equipment (except motor vehicle and aircraft), such as plain bearings, brakes and clutches (except motor vehicle and electromagnetic industrial control), couplings, joints, and drive chains.

The data published with NAICS code 333613 include the following SIC industry:

3568 Power transmission equipment, n.e.c.

333618 Other Engine Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing internal combustion engines (except automotive gasoline and aircraft).

The data published with NAICS code 333618 include the following SIC industries:

3519 Internal combustion engines, n.e.c. (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

3339 Other General-Purpose Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33391, Pump and Compressor Manufacturing; 33392, Material Handling Equipment Manufacturing; and 33399, All Other General-Purpose Machinery Manufacturing.

33391 Pump and Compressor Manufacturing

This industry comprises establishments primarily engaged in manufacturing pumps and compressors, such as general-purpose air and gas compressors, nonagricultural spraying and dusting equipment, general-purpose pumps and pumping equipment (except fluid power pumps and motors), and measuring and dispensing pumps.

333911 Pump and Pumping Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing general-purpose pumps and pumping equipment (except fluid power pumps and motors), such as reciprocating pumps, turbine pumps, centrifugal pumps, rotary pumps, diaphragm pumps, domestic water system pumps, oil well and oil field pumps and sump pumps.

The data published with NAICS code 333911 include the following SIC industries:

3561 Pumps and pumping equipment

3743 Railroad equipment (pt)

333912 Air and Gas Compressor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing general-purpose air and gas compressors, such as reciprocating compressors, centrifugal compressors, vacuum pumps (except laboratory), and nonagricultural spraying and dusting compressors and spray gun units.

The data published with NAICS code 333912 include the following SIC industry:

3563 Air and gas compressors

333913 Measuring and Dispensing Pump Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing measuring and dispensing pumps, such as gasoline pumps and lubricating oil measuring and dispensing pumps.

The data published with NAICS code 333913 include the following SIC industry:

3586 Measuring and dispensing pumps

33392 Material Handling Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing material handling equipment, such as elevators and moving stairs; conveyors and conveying equipment; overhead traveling cranes, hoists, and monorail systems; and industrial trucks, tractors, trailers, and stacker machinery.

333921 Elevator and Moving Stairway Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing elevators and moving stairways.

The data published with NAICS code 333912 include the following SIC industry:

3534 Elevators and moving stairways

333922 Conveyor and Conveying Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing conveyors and conveying equipment, such as gravity conveyors, trolley conveyors, tow conveyors, pneumatic tube conveyors, carousel conveyors, farm conveyors, and belt conveyors.

The data published with NAICS code 333922 include the following SIC industries:

3523 Farm machinery and equipment (pt)

3535 Conveyors and conveying equipment

333923 Overhead Traveling Crane, Hoist, and Monorail System Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing overhead traveling cranes, hoists, and monorail systems.

The data published with NAICS code 333923 include the following SIC industries:

3531 Construction machinery (pt)

3536 Hoists, cranes, and monorails

333924 Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, and stackers (i.e., truck-type) such as forklifts, pallet loaders and unloaders, and portable loading docks.

The data published with NAICS code 333924 include the following SIC industry:

3537 Industrial trucks and tractors (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332994 do not include establishments primarily engaged in the manufacture of tranquilizer guns. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33399 All Other General-Purpose Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing general-purpose machinery (except ventilation, heating, air-conditioning, and commercial refrigeration equipment; metal working machinery; engines, turbines, and power transmission equipment; pumps and compressors; and material handling equipment).

333991 Power-Driven Handtool Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing power-driven (e.g., battery, corded, pneumatic) handtools, such as drills, screwguns, circular saws, chain saws, staplers, and nailers.

The data published with NAICS code 333991 include the following SIC industry:

3546 Power-driven handtools

333992 Welding and Soldering Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing welding and soldering equipment and accessories (except transformers), such as arc, resistance, gas, plasma, laser, electron beam, and ultrasonic welding equipment; welding electrodes; coated or cored welding wire; and soldering equipment (except handheld).

The data published with NAICS code 333992 include the following SIC industries:

3548 Welding apparatus (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

333993 Packaging Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing packaging machinery, such as wrapping, bottling, canning, and labeling machinery.

The data published with NAICS code 333993 include the following SIC industry:

3565 Packaging machinery

333994 Industrial Process Furnace and Oven Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial process furnaces, ovens, induction and dielectric heating equipment, and kilns (except cement, chemical, wood).

The data published with NAICS code 333994 include the following SIC industry:

3567 Industrial furnaces and ovens

333995 Fluid Power Cylinder and Actuator Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power (i.e., hydraulic and pneumatic) cylinders and actuators.

The data published with NAICS code 333995 include the following SIC industries:

3593 Fluid power cylinders and actuators

3728 Aircraft parts and equipment, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333995 include establishments primarily engaged in the manufacture of aerospace-type fluid power actuators. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333996 Fluid Power Pump and Motor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power (i.e., hydraulic and pneumatic) pumps and motors.

The data published with NAICS code 333996 include the following SIC industries:

3594 Fluid power pumps and motors

3728 Aircraft parts and equipment, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333996 include establishments primarily engaged in the manufacture of aerospace-type fluid power actuators. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333997 Scale and Balance (Except Laboratory) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing scales and balances (except laboratory).

The data published with NAICS code 333997 include the following SIC industry:

3596 Scales and balances, except laboratory

333999 All Other Miscellaneous General-Purpose Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing general-purpose machinery (except ventilating, heating, air-conditioning, and commercial refrigeration equipment; metal working machinery;

engines, turbines, and power transmission equipment; pumps and compressors; material handling equipment; power-driven handtools; welding and soldering equipment; packaging machinery; industrial process furnaces and ovens; fluid power cylinders and actuators; fluid power pumps and motors; and scales and balances).

The data published with NAICS code 333999 include the following SIC industries:

3569 General industrial machinery, n.e.c.

3599 Industrial machinery, n.e.c. (pt)

334 Computer and Electronic Product Manufacturing

Industries in the Computer and Electronic Product Manufacturing subsector group establishments that manufacture computers, computer peripherals, communications equipment, and similar electronic products, and establishments that manufacture components for such products. The Computer and Electronic Product Manufacturing industries have been combined in the hierarchy of NAICS because of the economic significance they have attained. Their rapid growth suggests that they will become even more important to the economies of all three North American countries in the future, and in addition their manufacturing processes are fundamentally different from the manufacturing processes of other machinery and equipment. The design and use of integrated circuits and the application of highly specialized miniaturization technologies are common elements in the production technologies of the computer and electronic subsector. Convergence of technology motivates this NAICS subsector. Digitalization of sound recording, for example, causes both the medium (the compact disc) and the equipment to resemble the technologies for recording, storing, transmitting, and manipulating data. Communications technology and equipment have been converging with computer technology. When technologically related components are in the same sector, it makes it easier to adjust the classification for future changes, without needing to redefine its basic structure. The creation of the Computer and Electronic Product Manufacturing subsector will assist in delineating new and emerging industries because the activities that will serve as the probable sources of new industries, such as computer manufacturing and communications equipment manufacturing, or computers and audio equipment are brought together. As new activities emerge, they are less likely, therefore, to cross the subsector boundaries of the classification.

3341 Computer and Peripheral Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33411, Computer and Peripheral Equipment Manufacturing.

33411 Computer and Peripheral Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or assembling electronic computers, such as mainframes, personal computers, workstations, laptops, and computer servers; and computer peripheral equipment, such as storage devices, printers, monitors, input/output devices and terminals. Computers can be analog, digital, or hybrid. Digital computers, the most common type, are devices that do all of the following: (1) store the processing program or programs and the data immediately necessary for the execution of the program; (2) can be freely programmed in accordance with the requirements of the user; (3) perform arithmetical computations specified by the user; and (4) execute, without human intervention, a processing program that requires the computer to modify its execution by logical decision during the processing run. Analog computers are capable of simulating mathematical models and comprise at least analog, control, and programming elements.

334111 Electronic Computer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or assembling electronic computers, such as mainframes, personal computers, workstations, laptops, and computer servers. Computers can be analog, digital, or hybrid. Digital computers, the most common type, are devices that do all of the following: (1) store the processing program or programs and the data immediately necessary for the execution of the program; (2) can be freely programmed in accordance with the requirements of the user; (3) perform arithmetical computations specified by the user; and (4) execute, without human intervention, a processing program that requires the computer to modify its execution by logical decision during the processing run. Analog computers are capable of simulating mathematical models and contain at least analog, control, and programming elements. The manufacture of computers includes the assembly or integration of processors, coprocessors, memory, storage, and input/output devices into a user-programmable final product.

The data published with NAICS code 334111 include the following SIC industry:

3571 Electronic computers

334112 Computer Storage Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing computer storage devices that allow the storage and retrieval of data from a phase change, magnetic, optical, or magnetic/optical media. Examples of products made by these establishments are CD-ROM drives, floppy disk drives, hard disk drives, and tape storage and backup units.

The data published with NAICS code 334112 include the following SIC industry:

3572 Computer storage devices

334113 Computer Terminal Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing computer terminals. Computer terminals are input/output devices that connect with a central computer for processing.

The data published with NAICS code 334113 include the following SIC industry:

3575 Computer terminals

334119 Other Computer Peripheral Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing computer peripheral equipment (except storage devices and computer terminals).

The data published with NAICS code 334119 include the following SIC industries:

3577 Computer peripheral equipment, n.e.c.

3578 Calculating and accounting equipment (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334119 include establishments primarily engaged in the manufacture of laser products.

3342 Communications Equipment Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33421, Telephone Apparatus Manufacturing; 33422, Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing; and 33429, Other Communications Equipment Manufacturing.

33421 Telephone Apparatus Manufacturing

This industry comprises establishments primarily engaged in manufacturing wire telephone and data communications equipment. These products may be stand-alone or board-level components of a larger system. Examples of products made by these establishments are central office switching equipment, cordless telephones (except cellular), PBX equipment, telephones, telephone answering machines, and data communications equipment, such as bridges, routers, and gateways.

334210 Telephone Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wire telephone and data communications equipment. These products may be stand-alone or board-level components of a larger system. Examples of products made by these establishments are central office switching equipment, cordless telephones (except cellular), PBX equipment, telephones, telephone answering machines, and data communications equipment, such as bridges, routers, and gateways.

The data published with NAICS code 334210 include the following SIC industry:

3661 Telephone and telegraph apparatus (pt)

33422 Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communications equipment. Examples of products made by these establishments are: transmitting and receiving antennas, cable television equipment, GPS equipment, pagers, cellular phones, mobile communications equipment, and radio and television studio and broadcasting equipment.

334220 Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communications equipment. Examples of products made by these establishments are: transmitting and receiving antennas, cable television equipment, GPS equipment, pagers, cellular phones, mobile communications equipment, and radio and television studio and broadcasting equipment.

The data published with NAICS code 334220 include the following SIC industries:

3663 Radio and TV communications equipment

3679 Electronic components, n.e.c. (pt)

33429 Other Communications Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing communications equipment (except telephone apparatus, and radio and television broadcast, and wireless communications equipment).

334290 Other Communications Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing communications equipment (except telephone apparatus, radio and television broadcast, and wireless communications equipment).

The data published with NAICS code 334290 include the following SIC industry:

3669 Communications equipment, n.e.c.

3343 Audio and Video Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33431, Audio and Video Equipment Manufacturing.

33431 Audio and Video Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing electronic audio and video equipment for home entertainment, motor vehicle, public address and musical instrument amplifications. Examples of products made by these establishments are video cassette recorders, televisions, stereo equipment, speaker systems, household-type video cameras, jukeboxes, and amplifiers for musical instruments and public address systems.

334310 Audio and Video Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic audio and video equipment for home entertainment, motor vehicle, public address and musical instrument amplifications. Examples of products made by these establishments are video cassette recorders, televisions, stereo equipment, speaker systems, household-type video cameras, jukeboxes, and amplifiers for musical instruments and public address systems.

The data published with NAICS code 334310 include the following SIC industry:

3651 Household audio and video equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334310 do not include establishments primarily engaged in the manufacture of radio headphones. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3344 Semiconductor and Other Electronic Component Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33441, Semiconductor and Other Electronic Component Manufacturing.

33441 Semiconductor and Other Electronic Component Manufacturing

This industry comprises establishments primarily engaged in manufacturing semiconductors and other components for electronic applications. Examples of products

made by these establishments are capacitors, resistors, microprocessors, bare and loaded printed circuit boards, electron tubes, electronic connectors, and computer modems.

334411 Electron Tube Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electron tubes and parts (except glass blanks). Examples of products made by these establishments are cathode ray tubes (i.e., picture tubes), klystron tubes, magnetron tubes, and traveling wave tubes.

The data published with NAICS code 334411 include the following SIC industries:

3671 Electron tubes

334412 Bare Printed Circuit Board Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing bare (i.e., rigid or flexible) printed circuit boards without mounted electronic components. These establishments print, perforate, plate, screen, etch, or photoprint interconnecting pathways for electric current on laminates.

The data published with NAICS code 334412 include the following SIC industry:

3672 Printed circuit boards

334413 Semiconductor and Related Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing semiconductors and related solid state devices. Examples of products made by these establishments are integrated circuits, memory chips, microprocessors, diodes, transistors, solar cells, and other optoelectronic devices.

The data published with NAICS code 334413 include the following SIC industry:

3674 Semiconductors and related devices

334414 Electronic Capacitor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic fixed and variable capacitors and condensers.

The data published with NAICS code 334414 include the following SIC industry:

3675 Electronic capacitors

334415 Electronic Resistor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic resistors, such as fixed and variable resistors, resistor networks, thermistors, and varistors.

The data published with NAICS code 334415 include the following SIC industry:

3676 Electronic resistors

334416 Electronic Coil, Transformer, and Other Inductor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic inductors, such as coils and transformers.

The data published with NAICS code 334416 include the following SIC industries:

3661 Telephone and telegraph apparatus (pt)

3677 Electronic coils and transformers

3825 Instruments to measure electricity (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334416 include establishments primarily engaged in the manufacture of telephone transformers or portable instrument transformers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

334417 Electronic Connector Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic connectors, such as coaxial, cylindrical, rack and panel, pin and sleeve, printed circuit and fiber optic.

The data published with NAICS code 334417 include the following SIC industry:

3678 Electronic connectors

334418 Printed Circuit Assembly (Electronic Assembly) Manufacturing

This U.S. industry comprises establishments primarily engaged in loading components onto printed circuit boards or who manufacture and ship loaded printed circuit boards. Also known as printed circuit assemblies, electronics assemblies, or modules, these products are printed circuit boards that have some or all of the semiconductor and electronic components inserted or mounted and are inputs to a wide variety of electronic systems and devices.

The data published with NAICS code 334418 include the following SIC industries:

3661 Telephone and telegraph apparatus (pt)

3679 Electronic components, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334418 do not include

establishments primarily engaged in the manufacture of plotter controllers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

334419 Other Electronic Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic components (except electron tubes; bare printed circuit boards; semiconductors and related devices; electronic capacitors; electronic resistors; coils, transformers and other inductors; connectors; and loaded printed circuit boards).

The data published with NAICS code 334419 include the following SIC industry:

3679 Electronic components, n.e.c. (pt)

3345 Navigational, Measuring, Medical, and Control Instruments Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33451, Navigational, Measuring, Medical, and Control Instruments Manufacturing.

33451 Navigational, Measuring, Medical, and Control Instruments Manufacturing

This industry comprises establishments primarily engaged in manufacturing navigational, measuring, electromedical, and control instruments. Examples of products made by these establishments are aeronautical instruments, appliance regulators and controls (except switches), laboratory analytical instruments, navigation and guidance systems, and physical properties testing equipment.

334510 Electromedical and Electrotherapeutic Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electromedical and electrotherapeutic apparatus, such as magnetic resonance imaging equipment, medical ultrasound equipment, pacemakers, hearing aids, electrocardiographs, and electromedical endoscopic equipment.

The data published with NAICS code 334510 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3842 Surgical appliances and supplies (pt)

3845 Electromedical equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334510 include establishments primarily engaged in the manufacture of electro-medical laser products.

334511 Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing search, detection, navigation, guidance, aeronautical, and nautical systems and instruments. Examples of products made by these establishments are aircraft instruments (except engine), flight recorders, navigational instruments and systems, radar systems and equipment, and sonar systems and equipment.

The data published with NAICS code 334511 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3812 Search and navigation equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334511 include establishments primarily engaged in the manufacture of search and detection laser products.

334512 Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use

This U.S. industry comprises establishments primarily engaged in manufacturing automatic controls and regulators for applications, such as heating, air-conditioning, refrigeration and appliances.

The data published with NAICS code 334512 include the following SIC industry:

3822 Environmental controls

334513 Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables

This U.S. industry comprises establishments primarily engaged in manufacturing instruments and related devices for measuring, displaying, indicating, recording, transmitting, and controlling industrial process variables. These instruments measure, display or control (monitor, analyze, and so forth) industrial process variables, such as temperature, humidity, pressure, vacuum, combustion, flow, level, viscosity, density, acidity, concentration, and rotation.

The data published with NAICS code 334513 include the following SIC industry:

3823 Process control instruments

334514 Totalizing Fluid Meter and Counting Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing totalizing (i.e., registering) fluid meters and counting devices. Examples of products made

by these establishments are gas consumption meters, water consumption meters, parking meters, taxi meters, motor vehicle gauges, and fare collection equipment.

The data published with NAICS code 334514 include the following SIC industry:

3824 Fluid meters and counting devices

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334514 do not include establishments primarily engaged in the manufacture of automotive ammeters and voltmeters or motor vehicle gauges. The NAICS definitions will be fully implemented with the 2002 Economic Census.

334515 Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals

This U.S. industry comprises establishments primarily engaged in manufacturing instruments for measuring and testing the characteristics of electricity and electrical signals. Examples of products made by these establishments are circuit and continuity testers, volt meters, ohm meters, wattmeters, multimeters, and semiconductor test equipment.

The data published with NAICS code 334515 include the following SIC industry:

3825 Instruments to measure electricity (pt)

334516 Analytical Laboratory Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing instruments and instrumentation systems for laboratory analysis of the chemical or physical composition or concentration of samples of solid, fluid, gaseous, or composite material.

The data published with NAICS code 334516 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3826 Analytical instruments

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334516 include establishments primarily engaged in the manufacture of analytical and scientific laser products.

334517 Irradiation Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing irradiation apparatus and tubes for applications, such as medical diagnostic, medical therapeutic, industrial, research and scientific evaluation. Irradiation can take the form of beta-rays, gamma-rays, X-rays, or other ionizing radiation.

The data published with NAICS code 334517 include the following SIC industry:

3844 X-ray apparatus and tubes

334518 Watch, Clock, and Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or assembling clocks; watches; timing mechanisms for clockwork operated devices; time clocks; time and date recording devices; and clock and watch parts (except crystals), such as springs, jewels, and modules.

The data published with NAICS code 334518 include the following SIC industries:

3495 Wire springs (pt)

3579 Office machines, n.e.c. (pt)

3873 Watches, clocks, and watchcases

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334518 do not include establishments primarily engaged in the manufacture of electronic chronometers or watch jewels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

334519 Other Measuring and Controlling Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing measuring and controlling devices (except search, detection, navigation, guidance, aeronautical, and nautical instruments and systems; automatic environmental controls for residential, commercial, and appliance use; instruments for measurement, display, and control of industrial process variables; totalizing fluid meters and counting devices; instruments for measuring and testing electricity and electrical signals; analytical laboratory instruments; watches, clocks, and parts; irradiation equipment; and electromedical and electrotherapeutic apparatus).

The data published with NAICS code 334519 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3829 Measuring and controlling devices, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334519 include establishments primarily engaged in the manufacture of commercial geophysical, meteorological, survey, and drafting laser products.

3346 Manufacturing and Reproducing Magnetic and Optical Media

This NAICS industry group includes establishments classified in NAICS Industry 33461, Manufacturing and Reproducing Magnetic and Optical Media.

33461 Manufacturing and Reproducing Magnetic and Optical Media

This industry comprises establishments primarily engaged in (1) manufacturing optical and magnetic media, such as blank audio tape, blank video tape, and blank diskettes and/or (2) mass duplicating (i.e., making copies) audio, video, software, and other data on magnetic, optical, and similar media.

334611 Software Reproducing

This U.S. industry comprises establishments primarily engaged in mass reproducing computer software. These establishments do not generally develop any software; they mass reproduce data and programs on magnetic media, such as diskettes, tapes, or cartridges. Establishments in this industry mass reproduce products, such as CD-ROMs and game cartridges.

The data published with NAICS code 334611 include the following SIC industries:

7379 Computer Related Services, n.e.c. (pt)

334612 Prerecorded Compact Disc (Except Software), Tape, and Record Reproducing

This U.S. industry comprises establishments primarily engaged in mass reproducing audio and video material on magnetic or optical media. Examples of products mass reproduced by these establishments are audio compact discs, prerecorded audio and video cassettes, and laser discs.

The data published with NAICS code 334612 include the following SIC industries:

3652 Prerecorded records and tapes

7819 Services allied to motion pictures (pt)

334613 Magnetic and Optical Recording Media Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing magnetic and optical recording media, such as blank magnetic tape, blank diskettes, blank optical discs, hard drive media, and blank magnetic tape cassettes.

The data published with NAICS code 334613 include the following SIC industry:

3695 Magnetic and optical recording media

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334613 do not include establishments primarily engaged in the manufacture of magnetic tape cleaners. The NAICS definitions will be fully implemented with the 2002 Economic Census.

335 Electrical Equipment, Appliance, and Component Manufacturing

Industries in the Electrical Equipment, Appliance, and Component Manufacturing subsector manufacture products that generate, distribute and use electrical power. Electric lighting equipment manufacturing establishments produce electric lamp bulbs, lighting fixtures, and parts. Household appliance manufacturing establishments make both small and major electrical appliances and parts. Electrical equipment manufacturing establishments make goods, such as electric motors, generators, transformers, and switchgear apparatus. Other electrical equipment and component manufacturing establishments make devices for storing electrical power (e.g., batteries), for transmitting electricity (e.g., insulated wire), and wiring devices (e.g., electrical outlets, fuse boxes, and light switches).

3351 Electric Lighting Equipment Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33511, Electric Lamp Bulb and Parts Manufacturing; and 33512, Lighting Fixture Manufacturing.

33511 Electric Lamp Bulb and Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing electric light bulbs and tubes, and parts and components (except glass blanks for electric light bulbs).

335110 Electric Lamp Bulb and Part Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric light bulbs and tubes, and parts and components (except glass blanks for electric light bulbs).

The data published with NAICS code 335110 include the following SIC industry:

3641 Electric lamps

33512 Lighting Fixture Manufacturing

This industry comprises establishments primarily engaged in manufacturing electric lighting fixtures (except vehicular), nonelectric lighting equipment, lamp shades (except glass and plastics) and lighting fixture components (except current-carrying wiring devices).

335121 Residential Electric Lighting Fixture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fixed or portable residential electric lighting fixtures and lamp shades of metal, paper, or textiles. Residential electric lighting fixtures include those for use both inside and outside the residence.

The data published with NAICS code 335121 include the following SIC industries:

- 3089 Plastics products, n.e.c. (pt)
- 3645 Residential lighting fixtures
- 3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 335121 include establishments primarily engaged in the manufacture of plastic lampshades. The NAICS definitions will be fully implemented with the 2002 Economic Census.

335122 Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing commercial, industrial, and institutional electric lighting fixtures.

The data published with NAICS code 335122 include the following SIC industry:

- 3646 Commercial lighting fixtures

335129 Other Lighting Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric lighting fixtures (except residential, commercial, industrial, institutional, and vehicular electric lighting fixtures) and nonelectric lighting equipment.

The data published with NAICS code 335129 include the following SIC industries:

- 3648 Lighting equipment, n.e.c.
- 3699 Electrical equipment and supplies, n.e.c. (pt)

3352 Household Appliance Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33521, Small Electrical Appliance Manufacturing; and 33522, Major Appliance Manufacturing.

33521 Small Electrical Appliance Manufacturing

This industry comprises establishments primarily engaged in manufacturing small electric appliances and electric housewares, household-type fans, household-type vacuum cleaners, and other electric household-type floor care machines.

335211 Electric Housewares and Household Fan Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small electric appliances and electric housewares for heating, cooking, and other purposes, and electric household-type fans (except attic fans).

The data published with NAICS code 335211 include the following SIC industry:

- 3634 Electric housewares and fans (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 335211 do not include establishments primarily engaged in the manufacture of electric hair clippers for humans. The NAICS definitions will be fully implemented with the 2002 Economic Census.

335212 Household Vacuum Cleaner Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric vacuum cleaners, electric floor waxing machines, and other electric floor care machines typically for household use.

The data published with NAICS code 335212 include the following SIC industries:

- 3635 Household vacuum cleaners
- 3639 Household appliances, n.e.c. (pt)

33522 Major Appliance Manufacturing

This industry comprises establishments primarily engaged in manufacturing household-type cooking appliances, household-type laundry equipment, household-type refrigerators, upright and chest freezers, and other electrical and nonelectrical major household-type appliances, such as dishwashers, water heaters, and garbage disposal units.

335221 Household Cooking Appliance Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type electric and nonelectric cooking equipment (except small electric appliances and electric housewares).

The data published with NAICS code 335221 include the following SIC industry:

- 3631 Household cooking equipment

335222 Household Refrigerator and Home Freezer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type refrigerators and upright and chest freezers.

The data published with NAICS code 335222 include the following SIC industry:

3632 Household refrigerators and freezers

335224 Household Laundry Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type laundry equipment.

The data published with NAICS code 335224 include the following SIC industry:

3633 Household laundry equipment

335228 Other Major Household Appliance Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric and nonelectric major household-type appliances (except cooking equipment, refrigerators, upright and chest freezers, and household-type laundry equipment).

The data published with NAICS code 335228 include the following SIC industry:

3639 Household appliances, n.e.c. (pt)

3353 Electrical Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33531, Electrical Equipment Manufacturing.

33531 Electrical Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers; electric motors, generators, and motor generator sets; switchgear and switchboard apparatus; relays; and industrial controls.

335311 Power, Distribution, and Specialty Transformer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers (except electronic components). Industrial-type and consumer-type transformers in this industry vary (e.g., step up or step down) voltage but do not convert alternating to direct or direct to alternating current.

The data published with NAICS code 335311 include the following SIC industries:

3548 Welding apparatus (pt)

3612 Transformers

335312 Motor and Generator Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric motors (except internal combustion engine starting motors), power generators (except battery charging alternators for internal combustion engines), and motor generator sets (except turbine generator set units). This industry includes establishments rewinding armatures on a factory basis.

The data published with NAICS code 335312 include the following SIC industries:

3621 Motors and generators

7694 Armature rewinding shops (pt)

335313 Switchgear and Switchboard Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing switchgear and switchboard apparatus.

The data published with NAICS code 335313 include the following SIC industry:

3613 Switchgear and switchboard apparatus

335314 Relay and Industrial Control Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing relays, motor starters and controllers, and other industrial controls and control accessories.

The data published with NAICS code 335314 include the following SIC industry:

3625 Relays and industrial controls

3359 Other Electrical Equipment and Component Manufacturing

This industry group comprises establishments manufacturing electrical equipment and components (except electric lighting equipment, household-type appliances, transformers, switchgear, relays, motors, and generators).

33591 Battery Manufacturing

This industry comprises establishments primarily engaged in manufacturing primary and storage batteries.

335911 Storage Battery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing storage batteries.

The data published with NAICS code 335911 include the following SIC industry:

3691 Storage batteries

335912 Primary Battery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wet or dry primary batteries.

The data published with NAICS code 335912 include the following SIC industry:

3692 Primary batteries, dry and wet

33592 Communication and Energy Wire and Cable Manufacturing

This industry comprises establishments insulating fiber-optic cable, and manufacturing insulated nonferrous wire and cable from nonferrous wire drawn in other establishments.

335921 Fiber Optic Cable Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing insulated fiber-optic cable from purchased fiber-optic strand.

The data published with NAICS code 335921 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

335929 Other Communication and Energy Wire Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing insulated wire and cable of nonferrous metals from purchased wire.

The data published with NAICS code 335929 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

33593 Wiring Device Manufacturing

This industry comprises establishments primarily engaged in manufacturing current-carrying wiring devices and noncurrent-carrying wiring devices for wiring electrical circuits.

335931 Current-Carrying Wiring Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing current-carrying wiring devices.

The data published with NAICS code 335931 include the following SIC industry:

3643 Current-carrying wiring devices

335932 Noncurrent-Carrying Wiring Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing noncurrent-carrying wiring devices.

The data published with NAICS code 335932 include the following SIC industry:

3644 Noncurrent-carrying wiring devices

33599 All Other Electrical Equipment and Component Manufacturing

This industry comprises establishments primarily engaged in manufacturing electrical equipment (except electric lighting equipment, household-type appliances, transformers, motors, generators, switchgear, relays, industrial controls, batteries, communication and energy wire and cable, and wiring devices).

335991 Carbon and Graphite Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing carbon, graphite, and metal-graphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; carbon and graphite fibers; and other carbon, graphite, and metal-graphite products.

The data published with NAICS code 335991 include the following SIC industry:

3624 Carbon and graphite products

335999 All Other Miscellaneous Electrical Equipment and Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial and commercial electric apparatus and other equipment (except lighting equipment, household appliances, transformers, motors, generators, switchgear, relays, industrial controls, batteries, communication and energy wire and cable, wiring devices, and carbon and graphite products). This industry includes power converters (i.e., AC to DC and DC to AC), power supplies, surge suppressors, and similar equipment for industrial-type and consumer-type equipment.

The data published with NAICS code 335999 include the following SIC industries:

3629 Electrical industrial apparatus, n.e.c.

3699 Electrical equipment and supplies, n.e.c. (pt)

336 Transportation Equipment Manufacturing

Industries in the Transportation Equipment Manufacturing subsector produce equipment for transporting people and goods. Transportation equipment is a type of machinery. An entire subsector is devoted to this activity because of the significance of its economic size in all three North American countries.

Establishments in this subsector utilize production processes similar to those of other machinery manufacturing establishments - bending, forming, welding, machining, and assembling metal or plastic parts into components and finished products. However, the assembly of components and subassemblies and their further assembly into finished vehicles tends to be a more common production process in this subsector than in the Machinery Manufacturing subsector.

NAICS has industry groups for the manufacture of equipment for each mode of transport - road, rail, air, and water. Parts for motor vehicles warrant a separate industry group because of their importance and because parts manufacture requires less assembly, and the establishments that manufacture only parts are not as vertically integrated as those that make complete vehicles.

Land use motor vehicle equipment not designed for highway operation (e.g., agricultural equipment, construction equipment, and materials handling equipment) is classified in the appropriate NAICS subsector based on the type and use of the equipment.

3361 Motor Vehicle Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33611, Automobile and Light Duty Motor Vehicle Manufacturing; and 33612, Heavy Duty Truck Manufacturing.

33611 Automobile and Light Duty Motor Vehicle Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing complete automobile and light duty motor vehicles (i.e., body and chassis or unibody) or (2) manufacturing chassis only.

336111 Automobile Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing complete automobiles (i.e., body and chassis or unibody) or (2) manufacturing automobile chassis only.

The data published with NAICS code 336111 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

336112 Light Truck and Utility Vehicle Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing complete light trucks and utility vehicles (i.e., body and chassis) or (2) manufacturing light truck and utility vehicle chassis only. Vehicles made include light duty vans, pick-up trucks, minivans, and sport utility vehicles.

The data published with NAICS code 336112 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

33612 Heavy Duty Truck Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing heavy duty truck chassis and assembling complete heavy duty trucks, buses, heavy duty motor homes, and other special-purpose, heavy duty motor vehicles for highway use or (2) manufacturing heavy duty truck chassis only.

336120 Heavy Duty Truck Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing heavy duty truck chassis and assembling complete heavy duty trucks, buses, heavy duty motor homes, and other special-purpose, heavy duty motor vehicles for highway use or (2) manufacturing heavy duty truck chassis only.

The data published with NAICS code 336120 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

3362 Motor Vehicle Body and Trailer Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33621, Motor Vehicle Body and Trailer Manufacturing.

33621 Motor Vehicle Body and Trailer Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing motor vehicle bodies and cabs or (2) manufacturing truck, automobile and utility trailers, truck trailer chassis, detachable trailer bodies and detachable trailer chassis. The products made may be sold separately or may be assembled on purchased chassis and sold as complete vehicles.

Motor homes are units where the motor and the living quarters are contained in the same integrated unit, while travel trailers are designed to be towed by a motor unit, such as an automobile or a light truck.

336211 Motor Vehicle Body Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing truck and bus bodies and cabs and automobile bodies. The products made may be sold separately or may be assembled on purchased chassis and sold as complete vehicles.

The data published with NAICS code 336211 include the following SIC industries:

3711 Motor vehicles and car bodies (pt)

3713 Truck and bus bodies

3714 Motor vehicle parts and accessories (pt)

336212 Truck Trailer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing truck trailers, truck trailer chassis, cargo container chassis, detachable trailer bodies, and detachable trailer chassis for sale separately.

The data published with NAICS code 336212 include the following SIC industry:

3715 Truck trailers

336213 Motor Home Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing motor homes on purchased chassis and/or (2) manufacturing conversion vans on an assembly line basis. Motor homes are units where the motor and the living quarters are integrated in the same unit.

The data published with NAICS code 336213 include the following SIC industry:

3716 Motor homes

336214 Travel Trailer and Camper Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing travel trailers and campers designed to attach to motor vehicles; (2) manufacturing pickup coaches (i.e., campers) and caps (i.e., covers) for mounting on pickup trucks; and (3) manufacturing automobile, utility, and light-truck trailers. Travel trailers do not have their own motor but are designed to be towed by a motor unit, such as an automobile or a light truck.

The data published with NAICS code 336214 include the following SIC industries:

3792 Travel trailer and campers

3799 Transportation equipment, n.e.c. (pt)

3363 Motor Vehicle Parts Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33631, Motor Vehicle Gasoline Engine and Engine Parts Manufacturing; 33632, Motor Vehicle Electrical and Electronic Equipment Manufacturing; 33633, Motor Vehicle Steering and Suspension Component (Except Spring) Manufacturing; 33634, Motor Vehicle Brake System Manufacturing; 33635, Motor Vehicle Transmission and Power Train Parts Manufacturing; 33636, Motor Vehicle Seating and Interior Trim Manufacturing; 33637, Motor Vehicle Metal Stamping; and 33639, Other Motor Vehicle Parts Manufacturing.

33631 Motor Vehicle Gasoline Engine and Engine Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle gasoline engines and engine parts, whether or not for vehicular use.

336311 Carburetor, Piston, Piston Ring, and Valve Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding carburetors, pistons, piston rings, and engine intake and exhaust valves.

The data published with NAICS code 336311 include the following SIC industries:

3592 Carburetors, pistons, rings, and valves

336312 Gasoline Engine and Engine Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding gasoline motor vehicle engines and gasoline motor vehicle engine parts, excluding carburetors, pistons, piston rings, and valves.

The data published with NAICS code 336312 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

33632 Motor Vehicle Electrical and Electronic Equipment Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing vehicular lighting and/or (2) manufacturing and/or rebuilding motor vehicle electrical and electronic equipment. The products made can be used for all types of transportation equipment (i.e., aircraft, automobiles, trains, ships).

336321 Vehicular Lighting Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing vehicular lighting fixtures.

The data published with NAICS code 336321 include the following SIC industry:

3647 Vehicular lighting equipment

336322 Other Motor Vehicle Electrical and Electronic Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding electrical and electronic equipment for motor vehicles and internal combustion engines.

The data published with NAICS code 336322 include the following SIC industries:

3679 Electronic components, n.e.c. (pt)

3694 Engine electrical equipment

3714 Motor vehicle parts and accessories (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336322 include establishments primarily engaged in the manufacture of electronic control modular chips for motor vehicles. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33633 Motor Vehicle Steering and Suspension Component (Except Spring) Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle steering mechanisms and suspension components (except springs).

336330 Motor Vehicle Steering and Suspension Component (Except Spring) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle steering mechanisms and suspension components (except springs).

The data published with NAICS code 336330 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

33634 Motor Vehicle Brake System Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle brake systems and related components.

336340 Motor Vehicle Brake System Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle brake systems and related components.

The data published with NAICS code 336340 include the following SIC industries:

3292 Asbestos products (pt)

3714 Motor vehicle parts and accessories (pt)

33635 Motor Vehicle Transmission and Power Train Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle transmission and power train parts.

336350 Motor Vehicle Transmission and Power Train Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle transmission and power train parts.

The data published with NAICS code 336350 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

33636 Motor Vehicle Seating and Interior Trim Manufacturing

This industry comprises establishments primarily engaged in manufacturing motor vehicle seating, seats, seat frames, seat belts, and interior trimmings.

336360 Motor Vehicle Seating and Interior Trim Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing motor vehicle seating, seats, seat frames, seat belts, and interior trimmings.

The data published with NAICS code 336360 include the following SIC industries:

2396 Automotive and apparel trimmings (pt)

2399 Fabricated textile products, n.e.c. (pt)

2531 Public building and related furniture (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336360 do not include establishments primarily engaged in the manufacture of metal motor vehicle seat frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33637 Motor Vehicle Metal Stamping

This industry comprises establishments primarily engaged in manufacturing motor vehicle stampings, such as fenders, tops, body parts, trim, and molding.

336370 Motor Vehicle Metal Stamping

This U.S. industry comprises establishments primarily engaged in manufacturing motor vehicle stampings, such as fenders, tops, body parts, trim, and molding.

The data published with NAICS code 336370 include the following SIC industry:

3465 Automotive stampings

33639 Other Motor Vehicle Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle parts and accessories (except motor vehicle gasoline engines and engine parts, motor vehicle electrical and electronic equipment, motor vehicle steering and suspension components, motor vehicle brake systems, motor vehicle transmission and power train parts, motor vehicle seating and interior trim, and motor vehicle stampings).

336391 Motor Vehicle Air-Conditioning Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing air-conditioning systems and compressors for motor vehicles, such as automobiles, trucks, buses, aircraft, farm machinery, construction machinery, and other related vehicles.

The data published with NAICS code 336391 include the following SIC industry:

3585 Refrigeration and heating equipment (pt)

336399 All Other Motor Vehicle Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle parts and accessories (except motor vehicle gasoline engines and engine parts, motor vehicle electrical and electronic equipment, motor vehicle steering and suspension components, motor vehicle brake systems, motor vehicle transmission and power train parts, motor vehicle seating and interior trim, motor vehicle stampings, and motor vehicle air-conditioning systems and compressors).

The data published with NAICS code 336399 include the following SIC industries:

3519 Internal combustion engines, n.e.c. (pt)

3714 Motor vehicle parts and accessories (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336399 do not include establishments primarily engaged in the manufacture of luggage and utility racks or trailer hitches. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3364 Aerospace Product and Parts Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33641, Aerospace Product and Parts Manufacturing.

33641 Aerospace Product and Parts Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing complete aircraft, missiles, or space vehicles; (2) manufacturing aerospace engines, propulsion units, auxiliary equipment or parts; (3) developing and making prototypes of aerospace products; (4) aircraft conversion (i.e., major modifications to systems); and (5) complete aircraft or propulsion systems overhaul and rebuilding (i.e., periodic restoration of aircraft to original design specifications).

336411 Aircraft Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing or assembling complete aircraft; (2) developing and making aircraft prototypes; (3) aircraft conversion (i.e., major modifications to systems); and (4) complete aircraft overhaul and rebuilding (i.e., periodic restoration of aircraft to original design specifications).

The data published with NAICS code 336411 include the following SIC industry:

3721 Aircraft

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336411 do not include establishments primarily engaged in the manufacture of target drones. The NAICS definitions will be fully implemented with the 2002 Economic Census.

336412 Aircraft Engine and Engine Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing aircraft engines and engine parts; (2) developing and making prototypes of aircraft engines and engine parts; (3) aircraft propulsion system conversion (i.e., major modifications to systems); and (4) aircraft propulsion systems overhaul and rebuilding (i.e., periodic restoration of aircraft propulsion system to original design specifications).

The data published with NAICS code 336412 include the following SIC industry:

3724 Aircraft engines and engine parts

336413 Other Aircraft Parts and Auxiliary Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing aircraft parts or auxiliary equipment (except engines and aircraft fluid power subassemblies) and/or (2) developing and making prototypes of aircraft parts and auxiliary equipment. Auxiliary equipment includes such items as crop dusting apparatus, armament racks, inflight refueling equipment, and external fuel tanks.

The data published with NAICS code 336413 include the following SIC industry:

3728 Aircraft parts and equipment, n.e.c. (pt)

336414 Guided Missile and Space Vehicle Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing complete guided missiles and space vehicles and/or (2) developing and making prototypes of guided missile or space vehicles.

The data published with NAICS code 336414 include the following SIC industry:

3761 Guided missiles and space vehicles

336415 Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing guided missile and/or space vehicle propulsion units and propulsion unit parts and/or (2) developing and making prototypes of guided missile and space vehicle propulsion units and propulsion unit parts.

The data published with NAICS code 336415 include the following SIC industry:

3764 Space propulsion units and parts

336419 Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing guided missile and space vehicle parts and auxiliary equipment (except guided missile and space vehicle propulsion units and propulsion unit parts) and/or (2) developing and making prototypes of guided missile and space vehicle parts and auxiliary equipment.

The data published with NAICS code 336419 include the following SIC industry:

3769 Space vehicle equipment, n.e.c.

3365 Railroad Rolling Stock Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33651, Railroad Rolling Stock Manufacturing.

33651 Railroad Rolling Stock Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing and/or rebuilding locomotives, locomotive frames and parts; (2) manufacturing railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and (3) manufacturing rail layers, ballast distributors, rail tamping equipment, and other railway track maintenance equipment.

336510 Railroad Rolling Stock Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing and/or rebuilding locomotives, locomotive frames, and parts; (2) manufacturing railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and (3) manufacturing rail layers, ballast distributors, rail tamping equipment, and other railway track maintenance equipment.

The data published with NAICS code 336510 include the following SIC industries:

3531 Construction machinery (pt)

3743 Railroad equipment (pt)

3366 Ship and Boat Building

This NAICS industry group includes establishments classified in NAICS Industry 33661, Ship and Boat Building.

33661 Ship and Boat Building

This industry comprises establishments primarily engaged in operating shipyards or boat yards (i.e., ship or boat manufacturing facilities). Shipyards are fixed facilities with drydocks and fabrication equipment capable of building a ship, defined as watercraft typically suitable or intended for other than personal or recreational use. Boats are defined as watercraft typically suitable or intended for personal use. Activities of shipyards include the construction of ships, their repair, conversion and alteration, the production of prefabricated ship and barge sections, and specialized services, such as ship scaling.

336611 Ship Building and Repairing

This U.S. industry comprises establishments primarily engaged in operating a shipyard. Shipyards are fixed facilities with drydocks and fabrication equipment capable of building a ship, defined as watercraft typically suitable or intended for other than personal or recreational use. Activities of shipyards include the construction of ships, their repair, conversion and alteration, the production of prefabricated ship and barge sections, and specialized services, such as ship scaling.

The data published with NAICS code 336611 include the following SIC industry:

3731 Ship building and repairing

336612 Boat Building

This U.S. industry comprises establishments primarily engaged in building boats. Boats are defined as watercraft not built in shipyards and typically of the type suitable or intended for personal use.

The data published with NAICS code 336612 include the following SIC industry:

3732 Boat building and repairing (pt)

3369 Other Transportation Equipment Manufacturing

This industry group comprises establishments primarily engaged in manufacturing transportation equipment (except motor vehicles and parts, aerospace products and parts, railroad rolling stock, ship building, and boat manufacturing).

33699 Other Transportation Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, metal tricycles, complete military armored vehicles, tanks, self-propelled weapons, vehicles pulled by draft animals, and other transportation equipment (except motor vehicles, boats, ships, railroad rolling stock, and aerospace products), including parts thereof.

336991 Motorcycle, Bicycle, and Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, tricycles and similar equipment and parts.

The data published with NAICS code 336991 include the following SIC industries:

3751 Motorcycles, bicycles, and parts

3944 Games, toys, and children's vehicles (pt)

336992 Military Armored Vehicle, Tank, and Tank Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing complete military armored vehicles, combat tanks, specialized components for combat tanks, and self-propelled weapons.

The data published with NAICS code 336992 include the following SIC industries:

3711 Motor vehicles and car bodies (pt)

3795 Tanks and tank components

336999 All Other Transportation Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing transportation equipment (except motor vehicles, motor vehicle parts, boats, ships, railroad rolling stock, aerospace products, motorcycles, bicycles, armored vehicles, and tanks).

The data published with NAICS code 336999 include the following SIC industry:

3799 Transportation equipment, n.e.c. (pt)

337 Furniture and Related Product Manufacturing

Industries in the Furniture and Related Product Manufacturing subsector make furniture and related articles, such as mattresses, window blinds, cabinets, and fixtures. The processes used in the manufacture of furniture include the cutting, bending, molding, laminating, and assembly of such materials as wood, metal, glass, plastics, and rattan. However, the production process for furniture is not solely bending metal, cutting and shaping wood, or extruding and molding plastics. Design and fashion trends play an important part in the production of furniture. The integrated design of the article for both esthetic and functional qualities is also a major part of the process of manufacturing furniture. Design services may be performed by the furniture establishment's work force or may be purchased from industrial designers.

Furniture may be made of any material, but the most common ones used in North America are metal and wood. Furniture manufacturing establishments may specialize in making articles primarily from one material. Some of the

equipment required to make a wooden table, for example, is different from that used to make a metal one. However, furniture is usually made from several materials. A wooden table might have metal brackets, and a wooden chair, a fabric or plastics seat. Therefore, in NAICS, furniture initially is classified based on the type of furniture (application for which it is designed) rather than the material used. For example, an upholstered sofa is treated as household furniture, although it may also be used in hotels or offices.

When classifying furniture according to the component material from which it is made, furniture made from more than one material is classified based on the material used in the frame, or if there is no frame, the predominant component material. Upholstered household furniture (excluding kitchen and dining room chairs with upholstered seats) is classified without regard to the frame material. Kitchen or dining room chairs with upholstered seats are classified according to the frame material.

Furniture may be made on a stock or custom basis and may be shipped assembled or unassembled (i.e., knock-down). The manufacture of furniture parts and frames is included in this subsector.

Some of the processes used in furniture manufacturing are similar to processes that are used in other segments of manufacturing. For example, cutting and assembly occurs in the production of wood trusses that are classified in Subsector 321, Wood Product Manufacturing. However, the multiple processes that distinguish wood furniture manufacturing from wood product manufacturing warrant inclusion of wooden furniture manufacturing in the Furniture and Related Product Manufacturing subsector. Metal furniture manufacturing uses techniques that are also employed in the manufacturing of roll-formed products classified in Subsector 332, Fabricated Metal Product Manufacturing. The molding process for plastics furniture is similar to the molding of other plastics products. However, plastics furniture producing establishments tend to specialize in furniture.

NAICS attempts to keep furniture manufacturing together, but there are two notable exceptions: seating for transportation equipment and laboratory and hospital furniture. These exceptions are related to that fact that some of the aspects of the production process for these products, primarily the design, are highly integrated with that of other manufactured goods, namely motor vehicles and health equipment.

3371 Household and Institutional Furniture and Kitchen Cabinet Manufacturing

This industry group comprises establishments manufacturing household-type furniture, such as living room, kitchen, and bedroom furniture, and institutional (i.e., public building) furniture, such as furniture for schools, theaters, and churches.

33711 Wood Kitchen Cabinet and Countertop Manufacturing

This industry comprises establishments primarily engaged in manufacturing wood or plastics laminated on wood kitchen cabinets, bathroom vanities, and countertops (except freestanding). The cabinets and counters may be made on a stock or custom basis.

337110 Wood Kitchen Cabinet and Countertop Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood or plastics laminated on wood kitchen cabinets, bathroom vanities, and countertops (except freestanding). The cabinets and counters may be made on a stock or custom basis.

The data published with NAICS code 3371110 include the following SIC industries:

2434 Wood kitchen cabinets

2541 Wood partitions and fixtures (pt)

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337110 include establishments primarily engaged in manufacturing wood countertops as part of wood office and store fixtures. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33712 Household and Institutional Furniture Manufacturing

This industry comprises establishments primarily engaged in manufacturing household-type and public building furniture (i.e., library, school, theater, and church furniture). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337121 Upholstered Household Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing upholstered household-type furniture. The furniture may be made on a stock or custom basis.

The data published with NAICS code 337121 include the following SIC industries:

2512 Upholstered household furniture

2515 Mattresses and bedsprings (pt)

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337121 do not include establishments primarily engaged in manufacturing upholstered metal household furniture. The NAICS definitions will be fully implemented with the 2002 Economic Census.

337122 Nonupholstered Wood Household Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonupholstered wood household-type furniture and freestanding cabinets (except television, radio, and sewing machine cabinets). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337122 include the following SIC industries:

2511 Wood household furniture

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337122 include establishments primarily engaged in manufacturing wood box spring frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

337124 Metal Household Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal household-type furniture and freestanding cabinets. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337124 include the following SIC industry:

2514 Metal household furniture

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337124 include establishments primarily engaged in manufacturing upholstered metal household furniture or metal box spring frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

337125 Household Furniture (Except Wood and Metal) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type furniture of materials other than wood or metal, such as plastics, reed,

rattan, wicker, and fiberglass. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337125 include the following SIC industry:

2519 Household furniture, n.e.c.

337127 Institutional Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing institutional-type furniture (e.g., library, school, theater, and church furniture). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337127 include the following SIC industries:

2531 Public building and related furniture (pt)

2599 Furniture and fixtures, n.e.c. (pt)

3952 Lead pencils and art goods (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337127 do not include establishments primarily engaged in manufacturing wood or nonwood lunchroom tables and chairs. The NAICS definitions will be fully implemented with the 2002 Economic Census.

337129 Wood Television, Radio, and Sewing Machine Cabinet Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood cabinets used as housings by television, stereo, loudspeaker, and sewing machine manufacturers.

The data published with NAICS code 337129 include the following SIC industry:

2517 Wood TV and radio cabinets

3372 Office Furniture (Including Fixtures) Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33721, Office Furniture (Including Fixtures) Manufacturing.

33721 Office Furniture (Including Fixtures) Manufacturing

This industry comprises establishments primarily engaged in manufacturing office furniture and/or office and store fixtures. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337211 Wood Office Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood office-type furniture. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337211 include the following SIC industry:

2521 Wood office furniture

337212 Custom Architectural Woodwork and Millwork Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing custom designed interiors consisting of architectural woodwork and fixtures utilizing wood, wood products, and plastics laminates. All of the industry output is made to individual order on a job shop basis and requires skilled craftsmen as a labor input. A job might include custom manufacturing of display fixtures, gondolas, wall shelving units, entrance and window architectural detail, sales and reception counters, wall paneling, and matching furniture.

The data published with NAICS code 337212 include the following SIC industry:

2541 Wood partitions and fixtures (pt)

337214 Office Furniture (Except Wood) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonwood office-type furniture. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337214 include the following SIC industry:

2522 Office furniture, except wood

337215 Showcase, Partition, Shelving, and Locker Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood and nonwood office and store fixtures, shelving, lockers, frames, partitions, and related fabricated products of wood and nonwood materials, including plastics laminated fixture tops. The products are made on a stock basis and may be assembled or unassembled (i.e., knockdown). Establishments exclusively making furniture parts (e.g., frames) are included in this industry.

The data published with NAICS code 337215 include the following SIC industries:

2426 Hardwood dimension and flooring mills (pt)

2541 Wood partitions and fixtures (pt)

2542 Partitions and fixtures, except wood

3499 Fabricated metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337215 include establishments primarily engaged in manufacturing wood or non-wood lunchroom tables and chairs, but do not include establishments primarily engaged in manufacturing wood or metal box spring frames, finished plastic furniture parts, convertible bed sleeper mechanisms or chair glides. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3379 Other Furniture Related Product Manufacturing

This industry group comprises establishments manufacturing furniture related products, such as mattresses, blinds, and shades.

33791 Mattress Manufacturing

This industry comprises establishments primarily engaged in manufacturing innerspring, box spring, and noninnerspring mattresses, including mattresses for waterbeds.

337910 Mattress Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing innerspring, box spring, and noninnerspring mattresses, including mattresses for waterbeds.

The data published with NAICS code 337910 include the following SIC industry:

2515 Mattresses and bedsprings (pt)

33792 Blind and Shade Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following: venetian blinds, other window blinds, shades; curtain and drapery rods, poles; and/or curtain and drapery fixtures. The blinds and shades may be made on a stock or custom basis and may be made of any material.

337920 Blind and Shade Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing one or more of the following: venetian blinds, other window blinds, shades; curtain and drapery rods, poles; and/or curtain and drapery fixtures. The blinds and shades may be made on a stock or custom basis and may be made of any material.

The data published with NAICS code 337920 include the following SIC industry:

2591 Drapery hardware, blinds, and shades

339 Miscellaneous Manufacturing

Industries in the Miscellaneous Manufacturing subsector make a wide range of products that cannot readily be classified in specific NAICS subsectors in manufacturing. Processes used by these establishments vary significantly, both among and within industries. For example, a variety of manufacturing processes are used in manufacturing sporting and athletic goods that include products, such as tennis racquets and golf balls. The processes for these products differ from each other, and the processes differ significantly from the fabrication processes used in making dolls or toys, the melting and shaping of precious metals to make jewelry, and the bending, forming, and assembly used in making medical products.

The industries in this subsector are defined by what is made rather than how it is made. Although individual establishments might be appropriately classified elsewhere in the NAICS structure, for historical continuity, these product-based industries were maintained. In most cases, no one process or material predominates for an industry.

Establishments in this subsector manufacture products as diverse as medical equipment and supplies, jewelry, sporting goods, toys, and office supplies.

3391 Medical Equipment and Supplies Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33911, Medical Equipment and Supplies Manufacturing.

33911 Medical Equipment and Supplies Manufacturing

This industry comprises establishments primarily engaged in manufacturing medical equipment and supplies. Examples of products made by these establishments are laboratory apparatus and furniture, surgical and medical instruments, surgical appliances and supplies, dental equipment and supplies, orthodontic goods, dentures, and orthodontic appliances.

339111 Laboratory Apparatus and Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing laboratory apparatus and laboratory and hospital furniture (except dental). Examples of products made by these establishments are hospital beds, operating room tables, laboratory balances and scales, furnaces, ovens, centrifuges, cabinets, cases, benches, tables, and stools.

The data published with NAICS code 339111 include the following SIC industry:

3821 Laboratory apparatus and furniture

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339111 do not include establishments primarily engaged in the manufacture of hospital beds or operating tables. The NAICS definitions will be fully implemented with the 2002 Economic Census.

339112 Surgical and Medical Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing medical, surgical, ophthalmic, and veterinary instruments and apparatus (except electrotherapeutic, electromedical, and irradiation apparatus). Examples of products made by these establishments are syringes, hypodermic needles, anesthesia apparatus, blood transfusion equipment, catheters, surgical clamps, and medical thermometers.

The data published with NAICS code 339112 include the following SIC industries:

3829 Measuring and controlling devices, n.e.c. (pt)

3841 Surgical and medical instruments

339113 Surgical Appliance and Supplies Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing surgical appliances and supplies. Examples of products made by these establishments are orthopedic devices, prosthetic appliances, surgical dressings, crutches, surgical sutures, and personal industrial safety devices (except protective eyewear).

The data published with NAICS code 339113 include the following SIC industries:

2599 Furniture and fixtures, n.e.c. (pt)

3842 Surgical appliances and supplies (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339113 do not include establishments primarily engaged in the manufacture of rubber gloves and life jackets. The NAICS definitions will be fully implemented with the 2002 Economic Census.

339114 Dental Equipment and Supplies Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing dental equipment and supplies used by dental laboratories and offices of dentists, such as dental chairs, dental instrument delivery systems, dental hand instruments, and dental impression material.

The data published with NAICS code 339114 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3843 Dental equipment and supplies

339115 Ophthalmic Goods Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ophthalmic goods. Examples of products made by these establishments are prescription eyeglasses (except manufactured in a retail setting), contact lenses, sunglasses, eyeglass frames, and reading glasses made to standard powers.

The data published with NAICS code 339115 include the following SIC industry:

3851 Ophthalmic goods

339116 Dental Laboratories

This U.S. industry comprises establishments primarily engaged in manufacturing dentures, crowns, bridges, and orthodontic appliances customized for individual application.

The data published with NAICS code 339116 include the following SIC industry:

8072 Dental laboratories

3399 Other Miscellaneous Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33991, Jewelry and Silverware Manufacturing; 33992, Sporting and Athletic Goods Manufacturing; 33993, Doll, Toy, and Game Manufacturing; 33994, Office Supplies (Except Paper) Manufacturing; 33995, Sign Manufacturing; and 33999, All Other Miscellaneous Manufacturing.

33991 Jewelry and Silverware Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing, engraving, chasing, or etching jewelry; (2) manufacturing metal personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases); (3) manufacturing, engraving, chasing, or etching precious metal solid, precious metal clad, or pewter cutlery and flatware; (4) manufacturing, engraving, chasing, or etching personal metal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases); (5) stamping coins; (6) manufacturing unassembled jewelry parts and stock shop products, such as sheet, wire, and tubing; (7) cutting, slabbing, tumbling, carving, engraving, polishing, or faceting precious or semiprecious stones and gems; (8) recutting, repolishing, and setting gem stones; and (9) drilling, sawing, and peeling cultured and costume pearls.

339911 Jewelry (Except Costume) Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing, engraving, chasing, or etching precious metal solid or precious metal clad jewelry; (2) manufacturing, engraving, chasing, or etching personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases) made of precious solid or clad metal; and (3) stamping coins.

The data published with NAICS code 339911 include the following SIC industries:

3479 Metal coating and allied services (pt)

3911 Jewelry, precious metal

339912 Silverware and Holloware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing, engraving, chasing, or etching precious metal solid, precious metal clad, or pewter flatware and other plated ware.

The data published with NAICS code 339912 include the following SIC industries:

3479 Metal coating and allied services (pt)

3914 Silverware and plated ware (pt)

339913 Jewelers' Material and Lapidary Work Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing unassembled jewelry parts and stock shop products, such as sheet, wire, and tubing; (2) cutting, slabbing, tumbling, carving, engraving, polishing or faceting precious or semiprecious stones and gems; (3) recutting, repolishing, and setting gem stones; and (4) drilling, sawing, and peeling cultured pearls.

The data published with NAICS code 339913 include the following SIC industry:

3915 Jewelers' materials and lapidary work

339914 Costume Jewelry and Novelty Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing, engraving, chasing, and etching costume jewelry; and/or (2) manufacturing, engraving, chasing, or etching nonprecious metal personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases). This industry includes establishments primarily engaged in manufacturing precious plated jewelry and precious plated personal goods.

The data published with NAICS code 339914 include the following SIC industries:

3479 Metal coating and allied services (pt)

3499 Fabricated metal products, n.e.c. (pt)

3961 Costume jewelry

33992 Sporting and Athletic Goods Manufacturing

This industry comprises establishments primarily engaged in manufacturing sporting and athletic goods (except apparel and footwear).

339920 Sporting and Athletic Goods Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sporting and athletic goods (except apparel and footwear).

The data published with NAICS code 339920 include the following SIC industry:

3949 Sporting and athletic goods, n.e.c.

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339920 do not include establishments primarily engaged in the manufacture of wet suits. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33993 Doll, Toy, and Game Manufacturing

This industry comprises establishments primarily engaged in manufacturing dolls, toys, and games, such as complete dolls, doll parts, doll clothes, action figures, toys, games (including electronic), hobby kits, and children's vehicles (except metal bicycles and tricycles).

339931 Doll and Stuffed Toy Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing complete dolls, doll parts, and doll clothes, action figures, and stuffed toys.

The data published with NAICS code 339931 include the following SIC industry:

3942 Dolls

339932 Game, Toy, and Children's Vehicle Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing games (including electronic), toys, and children's vehicles (except bicycles and metal tricycles).

The data published with NAICS code 339932 include the following SIC industry:

3944 Games, toys, and children's vehicles (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339932 do not include

establishments primarily engaged in the manufacture of rubber toys, except dolls or embroidery kits. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33994 Office Supplies (Except Paper) Manufacturing

This industry comprises establishments primarily engaged in manufacturing office supplies. Examples of products made by these establishments are pens, pencils, felt tip markers, crayons, chalk, pencil sharpeners, staplers, hand operated stamps, modeling clay, and inked ribbons.

339941 Pen and Mechanical Pencil Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing pens, ballpoint pen refills and cartridges, mechanical pencils, and felt tipped markers.

The data published with NAICS code 339941 include the following SIC industry:

3951 Pens and mechanical pencils

339942 Lead Pencil and Art Goods Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonmechanical pencils and art goods. Examples of products made by these establishments are pencil leads, crayons, chalk, framed blackboards, pencil sharpeners, staplers, artists' palettes and paints, and modeling clay.

The data published with NAICS code 339942 include the following SIC industries:

2531 Public building and related furniture (pt)

3579 Office machines, n.e.c. (pt)

3952 Lead pencils and art goods (pt)

339943 Marking Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing marking devices, such as hand operated stamps, embossing stamps, stamp pads, and stencils.

The data published with NAICS code 339943 include the following SIC industry:

3953 Marking devices

339944 Carbon Paper and Inked Ribbon Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing carbon paper and inked ribbons.

The data published with NAICS code 339944 include the following SIC industry:

3955 Carbon paper and inked ribbons

33995 Sign Manufacturing

This industry comprises establishments primarily engaged in manufacturing signs and related displays of all materials (except printing paper and paperboard signs, notices, displays).

339950 Sign Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing signs and related displays of all materials (except printing paper and paperboard signs, notices, displays).

The data published with NAICS code 339950 include the following SIC industries:

3993 Signs and advertising specialties

33999 All Other Miscellaneous Manufacturing

This industry comprises establishments primarily engaged in miscellaneous manufacturing (except medical equipment and supplies, jewelry and flatware, sporting and athletic goods, dolls, toys, games, office supplies (except paper), and signs).

339991 Gasket, Packing, and Sealing Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing gaskets, packing, and sealing devices of all materials.

The data published with NAICS code 339991 include the following SIC industry:

3053 Gaskets, packing and sealing devices

339992 Musical Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing musical instruments (except toys).

The data published with NAICS code 339992 include the following SIC industry:

3931 Musical instruments

339993 Fastener, Button, Needle, and Pin Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fasteners, buttons, needles, pins, and buckles (except precious metals or precious and semiprecious stones and gems).

The data published with NAICS code 339993 include the following SIC industries:

3131 Footwear cut stock and findings (pt)

3965 Fasteners, buttons, needles, and pins

339994 Broom, Brush, and Mop Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing brooms, mops, and brushes.

The data published with NAICS code 339994 include the following SIC industries:

2392 Housefurnishings, n.e.c. (pt)

3991 Brooms and brushes

339995 Burial Casket Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing burial caskets, cases, and vaults (except concrete).

The data published with NAICS code 339995 include the following SIC industry:

3995 Burial caskets

339999 All Other Miscellaneous Manufacturing

This U.S. industry comprises establishments primarily engaged in miscellaneous manufacturing (except medical

equipment and supplies, jewelry and flatware, sporting and athletic goods, dolls, toys, games, office supplies (except paper), musical instruments, fasteners, buttons, needles, pins, brooms, brushes, mops, and burial caskets).

The data published with NAICS code 339999 include the following SIC industries:

2499 Wood products, n.e.c. (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339999 do not include establishments primarily engaged in the manufacture of electronic cigarette lighters. The NAICS definitions will be fully implemented with the 2002 Economic Census.

Appendix C.

Coverage and Methodology

MAIL/NONMAIL UNIVERSE

The manufacturing universe includes about 400,000 establishments. This number includes those industries in the North American Industry Classification System (NAICS) definition of manufacturing, but not those industries leaving the manufacturing sector in the classification change. The amounts of information requested from manufacturing establishments were dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the annual survey of manufactures (ASM). The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in the publication are described below:

1. Small single-establishment companies not sent a report form.

Approximately 40 percent of the manufacturing establishments were small single-establishment companies that were excused from filing a census report. Selection of these establishments was based on two factors: annual payroll and our ability to assign the correct six-digit NAICS industry classification to the establishment. For each four-digit Standard Industrial Classification (SIC) industry code, an annual payroll cutoff was determined. These cutoffs were derived so that the establishments with payroll less than the cutoff were expected to account for no more than 3 percent of the value of shipments for the industry. Generally, all single-establishment companies with less than 5 employees were excused, while all establishments with more than 20 employees were mailed forms. Establishments below the cutoff that could not be directly assigned a six-digit NAICS code were mailed a classification report which requested information for assigning NAICS industry codes. Establishments below the cutoff that could be directly assigned a six-digit NAICS code were excused from filing any report. For below cutoff establishments, information on the physical location, payroll, and receipts was obtained from the administrative records of other Federal agencies under special arrangements that safeguarded their confidentiality.

Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials were not distributed among specific products and materials for these

establishments but were included in the product and material “not specified by kind” (nsc) categories.

The industry classification codes included in the administrative-record files were assigned on the basis of brief descriptions of the general activity of the establishment. As a result, an indeterminate number of establishments were erroneously coded to a four-digit SIC industry and then erroneously re-coded to a six-digit NAICS industry. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes the administrative-record cases had only two- or three-digit SIC group classification codes available in the files. For the 1997 Economic Census – Manufacturing, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the appropriate six-digit NAICS level. Establishments that did not return the classification form were coded later to those six-digit NAICS industries identified as “All other” industries within the given subsector.

As a result of these situations, a number of small establishments may have been misclassified by industry. However, such possible misclassification has no significant effect on the statistics other than on the number of companies and establishments.

The total establishment count for individual industries should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 employees or more are far more reliable than the count of total number of establishments.

2. Establishments sent a report form.

The establishments covered in the mail canvass were divided into three groups:

- a. ASM sample establishments.

This group accounts for approximately 15 percent of all manufacturing establishments. The ASM panel covers all the units of large manufacturing establishments as well as a sample of the medium and smaller establishments. The probability of selection was proportionate to size. For more information, see the Description of the ASM Survey Sample.

In an economic census year, the ASM report form (MA-1000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll, and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply additional information on gross book value of assets and capital expenditures. ASM establishments were also requested to provide information on retirements, depreciation, rental payments, and supplemental labor costs. For establishments not included in the ASM, these additional items were estimated using relationships observed in the ASM establishment data. The census statistics for these variables are a sum of the ASM establishment data and the estimated data for non-ASM establishments. ASM establishments were also requested to provide information for selected purchased services. The census statistics for the purchased service items were derived solely from the ASM establishments. See Appendix A, Explanation of Terms for an explanation of these items. The census part of the report form is 1 of 220 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of this many forms to canvass the 480 manufacturing industries. Each form was developed for a group of related industries.

Appearing on each form was a list of products primary to the group of related industries as well as secondary products and miscellaneous services that establishments classified in these industries were likely to perform. Respondents were requested to identify the products, the value of each product, and, in many cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materials-consumed inquiry which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided for the respondent to describe significant materials not identified on the form.

A wide variety of special inquiries was included to measure activities peculiar to a given industry, such as operations performed and equipment used.

b. Large and medium establishments (non-ASM).

Approximately 30 percent of all manufacturing establishments were included in this group. A variable cutoff, based on administrative-record payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive 1 of the 220 economic census – manufacturing regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.

c. Small single-establishment companies (non-ASM).

This group includes approximately 15 percent of all manufacturing establishments. For those industries where application of the variable cutoff for administrative-record cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or short form was used. These establishments received 1 of the 31 versions of the short form, which requested summary product and material data and totals but no details on employment, payroll, cost of materials, inventories, and capital expenditures.

Use of the short form has no adverse effect on published totals for the industry statistics because the same data were collected on the short form as on the long form. However, detailed information on products and materials consumed was not collected on the short form; thus, its use would increase the value of the nsk categories.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the 1997 Economic Census – Manufacturing was classified in 1 of 480 industries (473 manufacturing industries and 7 former manufacturing industries) in accordance with the industry definitions in the 1997 NAICS Manual. This is the first edition of the NAICS Manual and it is a major change from the 1987 SIC Manual that was used previously. Appendix A of the 1997 NAICS Manual notes the comparability between the 1987 SIC and 1997 NAICS classification systems. When applicable, Appendix G of this report shows the product class and product comparability between the two systems for data in this report.

In the NAICS system, an industry is generally defined as a group of establishments that have similar production processes. To the extent practical, the system uses supply-based or production-oriented concepts in defining industries. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees.

The coding system works in such a way that the definitions progressively become narrower with successive additions of numerical digits. In the manufacturing sector for 1997, there are 21 subsectors (three-digit NAICS), 86 industry groups (four-digit NAICS), 184 NAICS industries (five-digit NAICS) that are comparable with Canadian and Mexican classification, and 473 U.S. industries (six-digit NAICS). This represents an expansion of the four-digit SIC-based U.S. industries from 459 in 1987. Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. In the new system, there are about 1,500 product classes (seven-digit codes), about 6,000 census products, and an additional 3,700 CIR products (ten-digit codes). The ten-digit products are considered the primary products of the industry with the same first six digits. These counts do not include the seven former manufacturing industries that are included in the 1997 Economic Census – Manufacturing.

For the 1997 Economic Census – Manufacturing, all establishments were classified in particular industries based on the products they produced. If an establishment made products of more than one industry, it was classified in the industry with the largest product value. For 1997, there were no “resistance rules” or “frozen industries.”

In ASM years, establishments included in the ASM sample with certainty weights are reclassified by industry only if the change in the primary activity from the prior year is significant or if the change has occurred for 2 successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year. However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The results of these rules covering the switching of plants from one industry classification to another are that some industries comprise different mixes of establishments in different survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the six-digit NAICS level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrative-record cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of companies and establishments.

Establishments frequently make products classified both in their industry (primary products) and other industries (secondary products). Industry statistics (employment, payroll, value added by manufacture, value of shipments, etc.) reflect the activities of the establishments which may make both primary and secondary products. Product statistics, however, represent the output of all establishments without regard for the classification of the producing establishment. For this reason, when relating the industry statistics, especially the value of shipments, to the product statistics, the composition of the industry’s output should be considered.

The extent to which industry and product statistics may be matched with each other is measured by the primary product specialization ratio and the coverage ratio. The primary product specialization ratio is the proportion of industry shipments accounted for by the primary products of establishments classified in the industry. The coverage ratio is the proportion of product shipments accounted for by establishments classified in the industry.

ESTABLISHMENT BASIS OF REPORTING

The economic census – manufacturing is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location or establishment. The ASM also is conducted on an establishment basis, but separate reports are filed for just those establishments selected in the sample. Companies engaged in distinctly different lines of activity at one location are requested to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

In 1997, as in earlier years, a minimum size limit was set for inclusion of establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures except for data on number of establishments for a few industries.

The 1997 Economic Census – Manufacturing excludes data for central administrative offices (CAOs). These would include separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company. These data are published in a separate report series.

DESCRIPTION OF THE ASM SURVEY SAMPLE

The annual survey of manufactures (ASM) sample is drawn for the second survey year after a census. The most recent sample was drawn for the 1994 survey year based on the 1992 Census of Manufactures. This sample will be in place through the 1998 ASM.

In 1992, there were approximately 370,000 individual manufacturing establishments. For sample efficiency and cost considerations, the 1992 manufacturing population was partitioned into two components for developing estimates within the ASM; a mail stratum and a nonmail stratum.

Mail stratum. The mail stratum of the survey is comprised of larger single-location manufacturing companies and all manufacturing establishments of multiunit companies (companies that operate at more than one physical location). Approximately 230,000 of the 370,000 establishments in the 1992 census were assigned to the mail stratum. On an annual basis, the mail stratum is supplemented with larger, newly active single-location companies identified from a list provided by the Internal Revenue Service (IRS) and new manufacturing locations of multiunit companies identified from the Census Bureau's Company Organization Survey (COS).

For the 1994 survey, a new sample of approximately 58,000 individual establishments was selected from the mail stratum assembled from the 1992 census. Supplemental samples representing both 1993 and 1994 births (newly active establishments that were not included in the 1992 census) were also selected. Establishments selected for the sample are mailed an ASM survey questionnaire for each year through 1998.

The 1994-98 ASM sample design is similar to the one used since 1984. Companies in the 1992 Census of Manufactures with manufacturing shipments of at least \$500 million were defined as company certainties. For these large companies, each manufacturing establishment is included in the mail sample. For the 1994-98 sample, there are approximately 650 certainty companies collectively accounting for over 18,000 establishments.

For the remaining portion of the mail component of the survey, the establishment was defined as the sample unit. All establishments with 250 employees or more were defined as employment certainties. In addition, all establishments producing products in SIC 3571 (Electronic Computers) were defined as certainties. Across these three arbitrary certainty classes, there were approximately 25,000 establishments included in the sample with certainty. Collectively, these certainty establishments accounted for approximately 80 percent of the total value of shipments in the 1992 Census of Manufactures.

Smaller establishments in the remaining portion of the mail stratum were sampled with probabilities ranging from .02 to 1.00. The initial probabilities of selection assigned to these establishments were proportionate to a measure-of-size determined for each establishment. The measure-of-size was a function of the establishment's 1992 industry classification, its 1992 product class data, and the historical variability of the year-to-year estimates of the product class estimates. For each product class (1,755) and four-digit industry (459), a desired reliability

constraint was specified. Using a technique developed by Dr. James R. Chromy of the Research Triangle Institute, the initial establishment probabilities were optimized such that the expected sample satisfied all industry and product class reliability constraints while the sample size was minimized. This technique reduces the likelihood of selecting nonrepresentative samples for individual product classes or industries.

This method of assigning probabilities based on product class shipments is motivated by our primary desire to produce reliable estimates of both product class and industry shipments. The high correlation between shipments and employment, value-added, and other general statistics assures that these variables will also be well represented by the sample. The actual sample selection procedure uses an independent chance of selection method (Poisson sampling) which permits us to prevent small establishments from being selected in consecutive samples without introducing a bias into the survey estimates.

Nonmail component. The initial nonmail component of the survey was comprised of approximately 140,000 small, single-establishment companies that were tabulated as administrative records in the 1992 Census of Manufactures. The nonmail stratum is also supplemented annually using the list of newly active single-location companies provided by the Internal Revenue Service (IRS) and payroll cutoffs. Companies with payroll below the payroll cutoff are added to the nonmail stratum. For this portion of the population, sampling is not used. The data for this group are estimated based on selected information obtained annually from the administrative records of the IRS and Social Security Administration (SSA). This administrative information, which includes payroll, total employment, industry classification, and physical location, is obtained under conditions which safeguard the confidentiality of both tax and census records.

DESCRIPTION OF THE ASM ESTIMATING PROCEDURE

Most of the ASM estimates derived for the mail stratum are computed using a difference estimator. At the establishment level, there is a strong correlation between the current-year data values and the corresponding 1992 (base) data values. Therefore, within the mailed stratum, for each item at each level of aggregation, an estimate of the "difference" between the current year and the base year is computed from sample cases and added to the corresponding base-year values. For the 1993-1997 ASM estimates, the 1992 Census of Manufactures values serve as the base year. For the 1998 ASM, the base will be updated to be the 1997 Economic Census – Manufacturing.

Due to the positive year-to-year correlation, estimates derived using this methodology are generally more reliable than comparable estimates developed from the current sample data alone. Estimates for the capital expenditures variables are not generated using the difference

estimator because the year-to-year correlations are considerably weaker. The standard linear estimator is used for these variables.

For the nonmail stratum, estimates for payroll and employment are directly tabulated from the administrative-record data provided by IRS and SSA. Estimates of data other than payroll and employment are developed from industry averages. Although the nonmail stratum contains approximately 170,000 individual establishments in 1994, it accounts for less than 2 percent of the estimate for total value of shipments at the total manufacturing level.

Corresponding estimates for the mail and nonmail components are combined to produce the estimates included in this publication.

QUALIFICATIONS OF THE ASM DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sample lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the difference between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of estimates.

The particular sample selected for the ASM is one of many similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretically comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected ASM statistics in this report. They are represented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, complete-coverage value for specified percentages of all the possible samples).

The complete-coverage value would be included in the range:

From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.

From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.

From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown at 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during the Census Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

DATA FROM THE CURRENT INDUSTRIAL REPORTS (CIR)

The CIR program provides product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. When detail product data are collected in the CIR, they are not also collected in the census. However, the annual CIR data are included in the census Product Summary report.

The CIR program uses a unified data collection, processing, and publication system. The Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic

census – manufacturing. The economic census – manufacturing provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. While the CIR program includes both mandatory and voluntary surveys, the annual data are mandatory.

DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

Data for cost of materials and value of shipments include varying amounts of duplication, especially at higher levels of aggregation. This is because the products of one establishment may be the materials of another. The value added statistics avoid this duplication and are, for most purposes, the best measure for comparing the relative economic importance of industries and geographic areas.

VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS

The 1997 Economic Census – Manufacturing shows value of shipments data for industries and products. In the industry statistics tables and files, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in the products statistics tables and files represent the total value of all products shipped that are classified as primary to an industry regardless of the classification of the producing establishment.

Appendix D.

Geographic Notes

CALIFORNIA

Buellton was incorporated in February 1992.

Calabasas was incorporated in April 1991, but this change was not submitted to the Census Bureau until November 1992.

Grover Beach name was changed from Grover City in December 1992.

Industry does not qualify as a “place” for the economic census based on its 1990 population but is included because of its dense concentration of economic activity.

Malibu was incorporated in March 1991, but this change was not submitted to the Census Bureau until January 1993.

Shasta Lake was incorporated in July 1993.

Truckee was incorporated in March 1993.

Vernon does not qualify as a “place” for the economic census based on its 1990 population but is included because of its dense concentration of economic activity.

Windsor was incorporated in July 1992.

Appendix E. Metropolitan Areas

CALIFORNIA

Bakersfield, CA MSA

Kern County, CA

Chico—Paradise, CA MSA

Butte County, CA

Fresno, CA MSA

Fresno County, CA

Madera County, CA

Los Angeles—Riverside—Orange County, CA CMSA

Los Angeles—Long Beach, CA PMSA

Los Angeles County, CA

Orange County, CA PMSA

Orange County, CA

Riverside—San Bernardino, CA PMSA

Riverside County, CA

San Bernardino County, CA

Ventura, CA PMSA

Ventura County, CA

Los Angeles—Long Beach, CA PMSA

Los Angeles County, CA

Merced, CA MSA

Merced County, CA

Modesto, CA MSA

Stanislaus County, CA

Oakland, CA PMSA

Alameda County, CA

Contra Costa County, CA

Orange County, CA PMSA

Orange County, CA

Redding, CA MSA

Shasta County, CA

Riverside—San Bernardino, CA PMSA

Riverside County, CA

San Bernardino County, CA

Sacramento, CA PMSA

El Dorado County, CA

Placer County, CA

Sacramento County, CA

Sacramento—Yolo, CA CMSA

Sacramento, CA PMSA

El Dorado County, CA

Placer County, CA

Sacramento County, CA

Yolo, CA PMSA

Yolo County, CA

Salinas, CA MSA

Monterey County, CA

San Diego, CA MSA

San Diego County, CA

San Francisco, CA PMSA

Marin County, CA

San Francisco County, CA

San Mateo County, CA

San Francisco—Oakland—San Jose, CA CMSA

Oakland, CA PMSA

Alameda County, CA

Contra Costa County, CA

San Francisco, CA PMSA

Marin County, CA

San Francisco County, CA

San Mateo County, CA

San Jose, CA PMSA

Santa Clara County, CA

San Francisco—Oakland—San Jose, CA CMSA—Con.

Santa Cruz—Watsonville, CA PMSA

Santa Cruz County, CA

Santa Rosa, CA PMSA

Sonoma County, CA

Vallejo—Fairfield—Napa, CA PMSA

Napa County, CA

Solano County, CA

San Jose, CA PMSA

Santa Clara County, CA

San Luis Obispo—Atascadero—Paso Robles, CA MSA

San Luis Obispo County, CA

Santa Barbara—Santa Maria—Lompoc, CA MSA

Santa Barbara County, CA

Santa Cruz—Watsonville, CA PMSA

Santa Cruz County, CA

Santa Rosa, CA PMSA

Sonoma County, CA

Stockton—Lodi, CA MSA

San Joaquin County, CA

Vallejo—Fairfield—Napa, CA PMSA

Napa County, CA

Solano County, CA

Ventura, CA PMSA

Ventura County, CA

Visalia—Tulare—Porterville, CA MSA

Tulare County, CA

Yolo, CA PMSA

Yolo County, CA

Yuba City, CA MSA

Sutter County, CA

Yuba County, CA

