

Texas

1997

Issued May 2000

EC97M31A-TX

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)
TEXAS													
31-33	Manufacturing	-	21 808	6 788	959 665	32 760 820	663 929	1 342 337	18 163 055	129 390 041	168 557 010	297 657 003	12 509 148
311	Food mfg.....	-	1 562	485	83 716	2 100 803	63 223	135 646	1 362 738	10 023 561	16 322 801	26 313 112	558 930
3111	Animal food mfg.....	1	129	55	4 114	121 121	2 914	6 398	82 098	655 875	1 434 457	2 070 344	40 524
31111	Animal food mfg.....	1	129	55	4 114	121 121	2 914	6 398	82 098	655 875	1 434 457	2 070 344	40 524
311111	Dog & cat food mfg...	2	14	6	1 018	22 211	845	2 043	16 743	120 659	162 405	283 794	4 308
311119	Other animal food mfg.....	1	115	49	3 096	98 910	2 069	4 355	65 355	535 216	1 272 052	1 786 550	36 216
3112	Grain & oilseed milling	-	50	33	3 182	93 425	2 408	5 118	60 672	410 569	1 264 321	1 651 717	71 585
31121	Flour milling & malt mfg .	-	26	17	1 634	47 860	1 200	2 503	29 149	199 340	626 819	808 643	10 213
311211	Flour milling	-	17	11	1 191	32 266	842	1 670	17 722	130 652	307 905	438 268	8 282
311212	Rice milling	-	9	6	443	15 594	358	833	11 427	68 688	318 914	370 375	1 931
31122	Starch & vegetable fats & oils mfg	-	24	16	1 548	45 565	1 208	2 615	31 523	211 229	637 502	843 074	61 372
311221	Wet corn milling	-	2	1	c	D	D	D	D	D	D	D	D
311223	Other oilseed processing.....	-	13	10	f	D	D	D	D	D	D	D	D
311225	Fats & oils refining & blending.....	-	9	5	670	21 045	546	1 126	15 257	161 276	293 315	451 992	D
3113	Sugar & confectionery product mfg.....	-	83	16	2 747	101 728	2 209	4 319	63 928	764 261	575 621	1 327 394	35 844
31131	Sugar mfg.....	-	3	3	f	D	D	D	D	D	D	D	D
311311	Sugarcane mills	-	1	1	c	D	D	D	D	D	D	D	D
311312	Cane sugar refining...	-	1	1	f	D	D	D	D	D	D	D	D
311313	Beet sugar mfg.....	-	1	1	c	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate...	-	46	6	g	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate.....	-	46	6	g	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg	1	33	6	487	9 669	409	753	6 792	28 073	24 114	53 018	1 563
311340	Nonchocolate confectionery mfg ...	1	33	6	487	9 669	409	753	6 792	28 073	24 114	53 018	1 563
3114	Fruit & vegetable preserving & specialty food mfg	2	96	42	7 463	167 281	6 333	13 143	126 635	931 821	692 093	1 633 493	44 803
31141	Frozen food mfg.....	4	29	17	3 822	68 112	3 424	6 884	55 586	185 959	179 350	373 526	14 395
311411	Frozen fruit, juice, & vegetable mfg.....	3	9	6	1 460	19 699	1 311	2 152	16 065	64 017	54 181	126 399	7 685
311412	Frozen specialty food mfg	4	20	11	2 362	48 413	2 113	4 732	39 521	121 942	125 169	247 127	6 710
31142	Fruit & vegetable canning, pickling, & drying	1	67	25	3 641	99 169	2 909	6 259	71 049	745 862	512 743	1 259 967	30 408
311421	Fruit & vegetable canning	3	46	19	g	D	D	D	D	D	D	D	D
311422	Specialty canning.....	1	15	5	1 510	51 917	1 283	2 719	40 749	578 777	266 176	845 155	18 861
311423	Dried & dehydrated food mfg	-	6	1	e	D	D	D	D	D	D	D	D
3115	Dairy product mfg	1	63	45	6 043	182 683	3 202	7 022	80 461	557 466	1 538 988	2 100 361	43 638
31151	Dairy product (except frozen) mfg	1	43	36	4 541	137 836	2 174	4 679	52 180	380 745	1 311 796	1 700 578	38 657
311511	Fluid milk mfg	1	29	26	3 923	122 573	1 655	3 553	41 661	347 781	1 037 787	1 385 777	31 761
311513	Cheese mfg	-	10	6	e	D	D	D	D	D	D	D	D
311514	Dry, condensed, & evaporated dairy product mfg.....	-	3	3	c	D	D	D	D	D	D	D	D
31152	Ice cream & frozen dessert mfg	-	20	9	1 502	44 847	1 028	2 343	28 281	176 721	227 192	399 783	4 981
311520	Ice cream & frozen dessert mfg.....	-	20	9	1 502	44 847	1 028	2 343	28 281	176 721	227 192	399 783	4 981
3116	Meat product mfg.....	-	239	106	32 932	718 994	28 127	65 610	559 010	2 577 169	7 860 853	10 445 440	127 406
31161	Animal slaughtering & processing.....	-	239	106	32 932	718 994	28 127	65 610	559 010	2 577 169	7 860 853	10 445 440	127 406
311611	Animal (except poultry) slaughtering	-	102	30	14 055	298 860	12 321	29 268	242 379	794 135	5 250 447	6 046 518	59 406
311612	Meat processed from carcasses	-	99	49	7 296	183 950	6 036	12 852	124 195	1 094 099	1 475 356	2 570 434	36 365
311613	Rendering & meat byproduct processing.....	2	20	12	789	21 859	459	1 074	12 567	102 569	105 214	208 457	7 927
311615	Poultry processing....	-	18	15	10 792	214 325	9 311	22 416	179 869	586 366	1 029 836	1 620 031	23 708
3117	Seafood product preparation & packaging..	-	22	9	1 142	18 873	992	1 310	11 192	75 030	113 072	188 020	3 002
31171	Seafood product preparation & packaging	-	22	9	1 142	18 873	992	1 310	11 192	75 030	113 072	188 020	3 002
311712	Fresh & frozen seafood processing..	-	19	9	1 139	18 809	989	1 305	11 148	74 865	112 686	187 469	2 984

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)				
TEXAS—Con.													
31-33	Manufacturing—Con.												
314	Textile product mills	1	414	95	9 512	162 892	7 620	13 604	107 256	346 746	397 181	732 619	15 856
3141	Textile furnishings mills	1	183	39	4 823	78 274	3 886	6 887	54 650	165 553	228 582	381 650	5 286
31412	Curtain & linen mills	—	176	39	4 786	77 538	3 854	6 834	54 114	163 592	225 502	376 609	5 168
314121	Curtain & drapery mills	—	133	15	2 646	43 871	1 990	3 530	27 489	70 700	103 815	171 540	1 978
314129	Other household textile product mills	—	43	24	2 140	33 667	1 864	3 304	26 625	92 892	121 687	205 069	3 190
3149	Other textile product mills . . .	2	231	56	4 689	84 618	3 734	6 717	52 606	181 193	168 599	350 969	10 570
31491	Textile bag & canvas mills	2	100	17	1 655	27 787	1 240	2 110	15 541	52 219	53 861	109 008	2 968
314911	Textile bag mills	2	23	9	639	10 219	490	832	5 601	18 729	19 478	38 669	1 296
314912	Canvas & related product mills	3	77	8	1 016	17 568	750	1 278	9 940	33 490	34 383	70 339	1 672
31499	All other textile product mills	2	131	39	3 034	56 831	2 494	4 607	37 065	128 974	114 738	241 961	7 602
314991	Rope, cordage, & twine mills	2	19	3	209	4 486	162	295	2 913	9 210	9 017	18 135	1 945
314999	All other miscellaneous textile product mills	2	112	36	2 825	52 345	2 332	4 312	34 152	119 764	105 721	223 826	5 657
315	Apparel mfg	—	679	226	40 003	684 264	33 931	59 275	503 852	2 335 318	2 309 158	4 576 786	51 632
3151	Apparel knitting mills	—	9	3	g	D	D	D	D	D	D	D	1 152
31519	Other apparel knitting mills	—	8	3	g	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills	—	8	3	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	—	538	188	33 733	562 806	28 874	49 705	425 740	1 957 014	1 975 267	3 868 389	40 152
31521	Cut & sew apparel contractors	5	280	52	5 733	83 682	5 318	9 124	72 719	146 070	32 765	171 895	4 944
315211	Men's & boys' cut & sew apparel contractors	2	18	7	1 449	23 447	1 292	2 408	19 908	35 895	10 140	45 276	1 641
315212	Women's, girls', & infants' cut & sew apparel contractors	6	262	45	4 284	60 235	4 026	6 716	52 811	110 175	22 625	126 619	3 303
31522	Men's & boys' cut & sew apparel mfg	—	81	57	15 770	267 006	13 838	23 403	213 710	1 173 901	1 168 297	2 294 148	13 650
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	—	12	7	f	D	D	D	D	D	D	D	778
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	8	11	6	435	7 730	314	408	5 799	12 276	22 887	34 266	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	—	27	23	10 331	188 181	9 569	16 316	158 500	953 238	979 676	1 910 803	10 655
315225	Men's & boys' cut & sew work clothing mfg	—	15	11	3 149	40 391	2 669	4 517	28 347	176 149	111 533	260 997	1 213
315228	Men's & boys' cut & sew other outerwear mfg	—	15	9	928	12 418	768	1 278	9 796	19 051	31 191	52 689	506
31523	Women's & girls' cut & sew apparel mfg	—	139	62	9 926	180 157	7 803	13 406	114 393	567 800	704 445	1 266 621	20 096
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	—	8	3	720	13 212	466	701	4 280	24 524	63 078	90 669	D
315232	Women's & girls' cut & sew blouse & shirt mfg	1	30	10	542	11 482	401	751	6 426	25 205	47 948	73 152	D
315233	Women's & girls' cut & sew dress mfg	2	30	8	1 562	26 599	777	1 093	11 892	52 082	80 013	130 690	2 301
315234	Women's & girls' cut & sew suit, coat, skirt mfg	—	32	19	2 151	37 211	1 931	3 539	27 380	82 843	86 623	166 983	1 039
315239	Women's & girls' cut & sew other outerwear mfg	—	39	22	4 951	91 653	4 228	7 322	64 415	383 146	426 783	805 127	15 215
31529	Other cut & sew apparel mfg	—	38	17	2 304	31 961	1 915	3 772	24 918	69 243	69 760	135 725	1 462
315291	Infants' cut & sew apparel mfg	—	3	3	1 120	16 958	958	2 055	13 304	43 961	41 182	81 802	836
315292	Fur & leather apparel mfg	1	6	2	205	2 825	171	325	2 296	5 445	5 420	10 991	54
315299	All other cut & sew apparel mfg	1	29	12	979	12 178	786	1 392	9 318	19 837	23 158	42 932	572
3159	Apparel accessories & other apparel mfg	1	132	35	h	D	D	D	D	D	D	D	10 328
31599	Apparel accessories & other apparel mfg	1	132	35	h	D	D	D	D	D	D	D	10 328
315991	Hat, cap, & millinery mfg	1	27	16	2 022	30 866	1 631	2 994	20 947	71 739	44 553	118 839	2 318
315993	Men's & boys' neckwear mfg	—	1	1	c	D	D	D	D	D	D	D	D
315999	Other apparel accessories & other apparel mfg	1	101	17	2 287	55 352	1 541	2 906	25 176	218 449	110 630	332 006	7 972

Table 1. Industry Statistics for the State: 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)				
	TEXAS—Con.												
31-33	Manufacturing—Con.												
325	Chemical mfg—Con.												
3251	Basic chemical mfg—Con.												
32513	Dye & pigment mfg	-	5	3	361	15 218	213	405	7 563	59 388	78 941	137 601	8 553
325131	Inorganic dye & pigment mfg	-	2	2	c	D	D	D	D	D	D	D	D
325132	Synthetic organic dye & pigment mfg	-	3	1	c	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	-	69	37	3 526	188 069	2 314	5 215	118 569	946 711	821 245	1 768 830	209 336
325181	Alkalies & chlorine mfg	-	5	2	f	D	D	D	D	D	D	D	D
325182	Carbon black mfg	-	8	8	f	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg	-	56	27	2 137	106 838	1 330	2 983	64 175	455 654	427 484	890 640	103 123
32519	Other basic organic chemical mfg	-	106	74	22 180	1 326 077	13 721	30 409	765 533	7 400 209	13 797 668	21 208 371	1 473 506
325192	Cyclic crude & intermediate mfg	-	7	6	1 303	70 246	594	1 395	34 412	593 340	1 331 635	1 953 680	76 091
325199	All other basic organic chemical mfg	-	95	67	20 800	1 253 919	13 067	28 880	729 759	6 799 280	12 458 224	19 239 018	1 396 945
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	84	64	16 564	913 748	10 306	23 261	523 564	6 183 778	10 362 155	16 459 574	1 126 830
32521	Resin & synthetic rubber mfg	-	84	64	16 564	913 748	10 306	23 261	523 564	6 183 778	10 362 155	16 459 574	1 126 830
325211	Plastics material & resin mfg	-	68	53	12 920	722 497	7 882	18 083	409 617	5 336 774	9 229 178	14 517 281	990 925
325212	Synthetic rubber mfg	-	16	11	3 644	191 251	2 424	5 178	113 947	847 004	1 132 977	1 942 293	135 905
3253	Pesticide, fertilizer, & other agricultural chemical mfg .	-	74	20	2 775	140 694	1 667	3 715	77 436	867 280	719 599	1 592 312	94 464
32531	Fertilizer mfg	2	47	11	674	20 758	492	1 021	12 826	78 031	166 157	242 719	7 443
325311	Nitrogenous fertilizer mfg	1	6	2	127	6 705	94	193	4 534	24 799	46 398	70 978	D
325314	Fertilizer (mixing only) mfg	2	38	8	498	12 776	364	782	7 443	47 635	112 864	159 189	2 989
32532	Pesticide & other agricultural chemical mfg	-	27	9	2 101	119 936	1 175	2 694	64 610	789 249	553 442	1 349 593	87 021
325320	Pesticide & other agricultural chemical mfg	-	27	9	2 101	119 936	1 175	2 694	64 610	789 249	553 442	1 349 593	87 021
3254	Pharmaceutical & medicine mfg	1	94	35	6 493	296 113	3 539	7 359	108 023	1 278 132	475 667	1 752 705	62 356
32541	Pharmaceutical & medicine mfg	1	94	35	6 493	296 113	3 539	7 359	108 023	1 278 132	475 667	1 752 705	62 356
325411	Medicinal & botanical mfg	4	13	5	1 417	52 146	1 225	2 657	46 214	178 411	104 521	280 486	11 938
325412	Pharmaceutical preparation mfg	-	35	13	4 223	218 525	1 896	3 896	50 968	1 034 266	338 735	1 374 284	46 176
325413	In-vitro diagnostic substance mfg	1	11	5	321	11 373	118	223	3 096	27 779	10 720	38 570	2 327
325414	Biological product (except diagnostic) mfg	3	35	12	532	14 069	300	583	7 745	37 676	21 691	59 365	1 915
3255	Paint, coating, & adhesive mfg	-	139	52	4 413	147 158	2 581	5 623	69 221	740 448	949 989	1 683 739	37 082
32551	Paint & coating mfg	-	92	32	3 333	109 232	1 963	4 335	53 897	562 177	770 919	1 327 809	23 199
325510	Paint & coating mfg	-	92	32	3 333	109 232	1 963	4 335	53 897	562 177	770 919	1 327 809	23 199
32552	Adhesive mfg	1	47	20	1 080	37 926	618	1 288	15 324	178 271	179 070	355 930	13 883
325520	Adhesive mfg	1	47	20	1 080	37 926	618	1 288	15 324	178 271	179 070	355 930	13 883
3256	Soap, cleaning compound, & toilet preparation mfg ..	1	174	47	4 765	146 782	3 093	5 905	74 601	1 348 524	838 924	2 209 293	57 896
32561	Soap & cleaning compound mfg	1	125	30	2 342	75 706	1 409	2 866	38 763	522 308	430 015	958 698	38 933
325611	Soap & other detergent mfg	1	64	14	1 152	36 700	698	1 423	18 149	268 737	144 618	418 239	10 058
325612	Polish & other sanitation good mfg ..	2	52	13	927	26 759	522	1 011	11 738	152 042	120 557	273 882	2 906
325613	Surface active agent mfg	1	9	3	263	12 247	189	432	8 876	101 529	164 840	266 577	25 969
32562	Toilet preparation mfg	-	49	17	2 423	71 076	1 684	3 039	35 838	826 216	408 909	1 250 595	18 963
325620	Toilet preparation mfg	-	49	17	2 423	71 076	1 684	3 039	35 838	826 216	408 909	1 250 595	18 963
3259	Other chemical product mfg	1	265	100	7 750	279 844	5 195	10 381	152 850	1 196 372	1 298 453	2 504 065	103 866
32591	Printing ink mfg	3	36	10	562	20 701	315	645	10 601	70 089	98 982	170 018	2 801
325910	Printing ink mfg	3	36	10	562	20 701	315	645	10 601	70 089	98 982	170 018	2 801
32592	Explosives mfg	-	10	7	802	28 966	588	1 123	15 630	118 877	73 913	194 260	3 716
325920	Explosives mfg	-	10	7	802	28 966	588	1 123	15 630	118 877	73 913	194 260	3 716

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	TEXAS—Con. Manufacturing— Con.												
325	Chemical mfg—Con.												
3259	Other chemical product mfg—Con.												
32599	All other chemical product & preparation mfg	1	219	83	6 386	230 177	4 292	8 613	126 619	1 007 406	1 125 558	2 139 787	97 349
325991	Custom compounding of purchased resin...	-	70	27	2 133	69 264	1 510	2 931	43 408	230 389	402 625	631 338	22 320
325992	Photographic film, paper, plate, & chemical mfg	3	22	6	531	15 819	404	904	10 042	56 058	55 729	110 845	10 982
325998	All other miscellaneous chemical product & preparation mfg	2	127	50	3 722	145 094	2 378	4 778	73 169	720 959	667 204	1 397 604	64 047
326	Plastics & rubber products mfg	1	1 032	491	55 133	1 544 740	43 242	88 866	1 033 903	4 555 567	4 638 553	9 154 856	407 061
3261	Plastics product mfg	1	842	438	49 270	1 339 125	38 796	79 761	901 462	4 067 624	4 244 411	8 276 089	379 711
32611	Unsupported plastics film, sheet, & bag mfg ..	-	98	59	10 966	346 173	8 657	20 054	229 377	1 271 204	1 376 237	2 641 087	118 857
326111	Unsupported plastics bag mfg	-	47	27	5 395	162 380	4 458	10 047	105 903	494 974	602 839	1 094 034	43 640
326112	Unsupported plastics packaging film & sheet mfg	1	12	7	855	25 630	665	1 635	18 546	46 695	115 923	167 020	8 119
326113	Unsupported plastics film & sheet (except packaging) mfg	-	39	25	4 716	158 163	3 534	8 372	104 928	729 535	657 475	1 380 033	67 098
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	-	76	41	3 670	97 599	2 703	5 127	59 229	250 728	491 099	748 810	25 083
326121	Unsupported plastics profile shape mfg	1	36	16	1 891	46 659	1 281	2 266	26 721	103 496	169 874	284 404	3 444
326122	Plastics pipe & pipe fitting mfg	-	40	25	1 779	50 940	1 422	2 861	32 508	147 232	321 225	464 406	21 639
32613	Laminated plastics plate, sheet, & shape mfg	1	20	7	2 096	96 366	1 785	4 699	73 011	247 421	168 625	415 390	8 364
326130	Laminated plastics plate, sheet, & shape mfg	1	20	7	2 096	96 366	1 785	4 699	73 011	247 421	168 625	415 390	8 364
32614	Polystyrene foam product mfg	3	34	18	1 436	38 889	1 223	2 457	30 039	122 764	158 709	282 348	8 604
326140	Polystyrene foam product mfg	3	34	18	1 436	38 889	1 223	2 457	30 039	122 764	158 709	282 348	8 604
32615	Urethane & other foam product (except polystyrene) mfg	-	47	24	1 966	54 401	1 618	3 334	35 489	193 019	227 491	416 263	10 006
326150	Urethane & other foam product (except polystyrene) mfg	-	47	24	1 966	54 401	1 618	3 334	35 489	193 019	227 491	416 263	10 006
32616	Plastics bottle mfg	1	27	21	1 681	51 638	1 499	3 254	41 781	176 924	218 212	390 186	26 049
326160	Plastics bottle mfg	1	27	21	1 681	51 638	1 499	3 254	41 781	176 924	218 212	390 186	26 049
32619	Other plastics product mfg	1	540	268	27 455	654 059	21 311	40 836	432 536	1 805 564	1 604 038	3 382 005	182 748
326191	Plastics plumbing fixture mfg	1	62	25	g	D	D	D	D	D	D	D	D
326192	Resilient floor covering mfg	-	3	1	e	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	1	475	242	25 213	601 576	19 483	37 102	394 398	1 668 005	1 484 912	3 123 722	175 333
3262	Rubber product mfg	1	190	53	5 863	205 615	4 446	9 105	132 441	487 943	394 142	878 767	27 350
32621	Tire mfg	-	80	12	2 119	97 014	1 735	3 759	77 167	249 483	224 837	477 113	7 421
326211	Tire mfg (except retreading)	-	9	5	1 725	87 452	1 453	3 168	71 847	231 709	191 066	425 261	6 899
326212	Tire retreading	1	71	7	394	9 562	282	591	5 320	17 774	33 771	51 852	522
32622	Rubber & plastics hoses & belting mfg	3	7	3	283	8 265	189	328	3 967	17 437	20 093	36 498	1 765
326220	Rubber & plastics hoses & belting mfg..	3	7	3	283	8 265	189	328	3 967	17 437	20 093	36 498	1 765
32629	Other rubber product mfg	1	103	38	3 461	100 336	2 522	5 018	51 307	221 023	149 212	365 156	18 164
326291	Rubber product mfg for mechanical use	1	41	18	1 720	43 509	1 402	2 902	28 669	98 779	66 064	160 963	7 430
326299	All other rubber product mfg	1	62	20	1 741	56 827	1 120	2 116	22 638	122 244	83 148	204 193	10 734

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	TEXAS—Con.												
31-33	Manufacturing—Con.												
331	Primary metal mfg—Con.												
3312	Steel product mfg from purchased steel	1	31	25	2 481	79 729	1 982	4 392	58 606	204 789	405 459	605 784	24 342
33121	Iron & steel pipes & tubes mfg from purchased steel	1	13	11	1 266	48 181	967	2 312	34 018	127 217	228 438	354 134	11 598
331210	Iron & steel pipes & tubes mfg from purchased steel	1	13	11	1 266	48 181	967	2 312	34 018	127 217	228 438	354 134	11 598
33122	Rolling & drawing of purchased steel	—	18	14	1 215	31 548	1 015	2 080	24 588	77 572	177 021	251 650	12 744
331222	Steel wire drawing	—	13	12	1 140	29 886	957	2 018	23 399	72 771	166 822	236 541	12 367
3313	Alumina & aluminum production & processing ..	—	23	17	5 305	224 370	4 175	9 201	156 272	382 837	1 341 651	1 787 364	104 927
33131	Alumina & aluminum production & processing	—	23	17	5 305	224 370	4 175	9 201	156 272	382 837	1 341 651	1 787 364	104 927
331311	Alumina refining	—	3	3	g	D	D	D	D	D	D	D	D
331312	Primary aluminum production	—	1	1	g	D	D	D	D	D	D	D	D
331314	Secondary smelting & alloying of aluminum .	—	5	3	356	8 230	327	403	5 529	17 428	51 155	69 655	D
331315	Aluminum sheet, plate, & foil mfg	—	3	1	e	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg	—	8	7	1 416	40 831	1 180	3 075	29 760	73 302	152 502	225 520	4 151
331319	Other aluminum rolling & drawing	—	3	2	c	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	—	39	14	3 786	154 813	2 900	6 734	111 490	672 350	2 938 405	3 602 064	52 614
33141	Nonferrous metal (except aluminum) smelting & refining	—	8	4	2 411	111 231	1 897	4 418	81 839	209 292	2 361 977	2 565 991	39 303
331411	Primary smelting & refining of copper	—	3	3	g	D	D	D	D	D	D	D	D
331419	Other nonferrous metal primary smelting & refining	—	5	1	f	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, & alloying ...	—	9	2	f	D	D	D	D	D	D	D	3 024
331421	Copper rolling, drawing, & extruding .	—	7	1	e	D	D	D	D	D	D	D	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 ...	1	22	8	f	D	D	D	D	D	D	D	10 287
331491	Other nonferrous metal rolling, drawing, & extruding	1	12	5	442	13 117	301	635	7 759	119 218	89 095	205 718	7 885
331492	Other nonferrous metal secondary smelting, refining, & alloying ...	—	10	3	e	D	D	D	D	D	D	D	2 402
3315	Foundries	—	127	72	11 021	304 238	9 164	19 171	226 440	747 963	437 744	1 174 153	50 642
33151	Ferrous metal foundries .	—	64	45	8 867	251 606	7 425	15 538	188 389	650 417	351 634	991 737	42 752
331511	Iron foundries	—	32	22	4 635	132 975	3 888	7 978	101 355	370 590	201 525	568 332	22 844
331512	Steel investment foundries	—	14	9	1 863	50 193	1 549	3 284	37 372	141 548	61 160	200 259	9 448
331513	Steel foundries (except investment)	—	18	14	2 369	68 438	1 988	4 276	49 662	138 279	88 949	223 146	10 460
33152	Nonferrous metal foundries	—	63	27	2 154	52 632	1 739	3 633	38 051	97 546	86 110	182 416	7 890
331521	Aluminum die-casting foundries	1	12	7	850	21 240	731	1 642	15 695	42 152	32 225	73 812	4 322
331524	Aluminum foundries (except die-casting) ..	—	25	14	958	23 493	709	1 435	16 265	40 432	39 755	80 272	2 968
331525	Copper foundries (except die-casting) ..	1	18	5	247	5 755	213	420	4 593	10 910	11 007	21 146	86
332	Fabricated metal product mfg	1	4 359	1 293	114 659	3 547 032	85 366	174 806	2 247 708	8 045 140	7 572 435	15 579 512	491 196
3321	Forging & stamping	1	162	88	8 598	285 725	6 573	13 364	185 950	704 003	837 032	1 530 371	66 597
33211	Forging & stamping	1	162	88	8 598	285 725	6 573	13 364	185 950	704 003	837 032	1 530 371	66 597
332111	Iron & steel forging ...	1	37	16	3 207	132 105	2 439	5 217	90 244	328 510	396 296	717 556	41 502
332112	Nonferrous forging	—	2	1	e	D	D	D	D	D	D	D	D
332114	Custom roll forming ...	1	31	21	1 511	47 083	1 110	2 245	28 311	120 236	226 393	347 030	3 840
332115	Crown & closure mfg ..	—	2	2	c	D	D	D	D	D	D	D	D
332116	Metal stamping	2	86	47	3 338	88 406	2 682	5 198	57 849	209 278	185 217	392 212	18 525
332117	Powder metallurgy part mfg	4	4	1	c	D	D	D	D	D	D	D	D
3322	Cutlery & handtool mfg	1	51	10	1 644	43 467	1 413	3 121	32 893	86 925	72 239	164 128	5 124
33221	Cutlery & handtool mfg ...	1	51	10	1 644	43 467	1 413	3 121	32 893	86 925	72 239	164 128	5 124
332212	Hand & edge tool mfg .	1	35	8	1 321	34 365	1 170	2 649	27 257	65 210	57 771	126 249	3 928
332213	Saw blade & handsaw mfg	1	9	2	303	8 709	225	450	5 374	20 274	13 728	35 696	1 082

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)				
	TEXAS—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	-	354	103	13 333	454 376	8 895	17 996	271 158	1 057 170	671 562	1 719 887	37 654
332991	Ball & roller bearing mfg	2	5	2	102	3 601	59	119	1 833	4 954	8 285	13 182	813
332993	Ammunition (except small arms) mfg	-	1	1	e	D	D	D	D	D	D	D	D
332994	Small arms mfg	3	19	4	436	9 146	384	521	6 206	23 125	8 365	31 359	1 054
332995	Other ordnance & accessories mfg	-	9	4	3 425	162 072	1 125	2 358	81 216	325 691	14 344	341 329	548
332996	Fabricated pipe & pipe fitting mfg	-	90	42	4 062	124 630	3 278	7 399	85 086	349 279	366 266	705 146	19 601
332997	Industrial pattern mfg	3	32	1	181	4 188	142	224	3 264	6 124	1 957	8 417	328
332998	Enameled iron & metal sanitary ware mfg	-	5	1	210	4 963	185	281	3 854	18 649	15 681	34 425	240
332999	All other miscellaneous fabricated metal product mfg	1	187	48	4 405	129 331	3 354	6 333	82 414	313 582	248 755	562 360	14 964
333	Machinery mfg	1	1 726	632	79 602	2 631 243	54 224	108 899	1 466 700	7 997 116	7 450 446	15 160 842	494 550
3331	Agriculture, construction, & mining machinery mfg	-	452	179	25 660	994 593	17 106	34 129	546 603	2 952 657	2 340 280	5 061 787	209 104
33311	Agricultural implement mfg	2	88	20	1 660	42 838	1 116	2 076	25 085	77 353	109 744	188 228	8 311
333111	Farm machinery & equipment mfg	2	81	19	1 617	41 933	1 081	2 013	24 434	74 366	105 214	180 626	8 163
33312	Construction machinery mfg	-	49	25	4 238	128 340	3 085	6 226	77 791	256 103	365 800	612 891	16 748
333120	Construction machinery mfg	-	49	25	4 238	128 340	3 085	6 226	77 791	256 103	365 800	612 891	16 748
33313	Mining & oil & gas field machinery mfg	-	315	134	19 762	823 415	12 905	25 827	443 727	2 619 201	1 864 736	4 260 668	184 045
333131	Mining machinery & equipment mfg	-	17	5	474	18 940	314	595	7 525	49 554	33 868	82 019	2 240
333132	Oil & gas field machinery & equipment mfg	-	298	129	19 288	804 475	12 591	25 232	436 202	2 569 647	1 830 868	4 178 649	181 805
3332	Industrial machinery mfg	1	235	72	9 713	265 598	7 176	14 523	145 202	1 332 919	1 068 715	2 322 791	81 931
33322	Plastics & rubber industry machinery mfg	3	13	4	172	4 698	115	197	2 521	8 973	8 784	17 459	835
333220	Plastics & rubber industry machinery mfg	3	13	4	172	4 698	115	197	2 521	8 973	8 784	17 459	835
33329	Other industrial machinery mfg	1	208	68	9 488	258 946	7 027	14 263	141 846	1 318 841	1 054 731	2 295 045	80 979
333291	Paper industry machinery mfg	3	9	1	113	3 115	79	125	2 125	8 863	5 916	13 551	333
333293	Printing machinery & equipment mfg	4	29	7	704	26 916	422	842	12 346	65 800	29 323	93 426	1 727
333294	Food product machinery mfg	-	26	10	837	28 133	551	1 069	14 582	35 035	44 160	78 952	1 829
333295	Semiconductor machinery mfg	-	21	10	4 228	84 440	3 677	7 459	53 531	942 998	727 099	1 605 529	58 073
333298	All other industrial machinery mfg	4	114	39	3 529	114 538	2 246	4 697	58 202	264 072	245 597	498 811	18 901
3333	Commercial & service industry machinery mfg	-	116	43	4 630	143 798	2 379	4 460	54 412	427 237	311 241	758 271	21 847
33331	Commercial & service industry machinery mfg	-	116	43	4 630	143 798	2 379	4 460	54 412	427 237	311 241	758 271	21 847
333311	Automatic vending machine mfg	-	4	1	f	D	D	D	D	D	D	D	D
333312	Commercial laundry, drycleaning, & pressing machine mfg	1	7	2	314	10 525	206	458	6 267	17 461	17 924	36 995	D
333313	Office machinery mfg	-	11	5	g	D	D	D	D	D	D	D	7 356
333314	Optical instrument & lens mfg	1	10	3	178	4 153	101	183	1 925	8 345	5 656	14 237	D
333315	Photographic & photocopying equipment mfg	5	17	5	230	7 044	155	285	3 974	11 263	15 218	26 612	1 166
333319	Other commercial & service industry machinery mfg	-	67	27	1 910	64 273	1 222	2 158	30 674	139 904	156 669	298 884	11 292
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	159	90	15 343	438 903	11 320	22 454	269 962	1 285 794	1 537 617	2 869 288	69 854

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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	TEXAS—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg—Con.												
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	159	90	15 343	438 903	11 320	22 454	269 962	1 285 794	1 537 617	2 869 288	69 854
333411	Air purification equipment mfg	1	27	11	971	24 432	708	1 355	12 001	66 065	41 758	107 184	2 388
333412	Industrial & commercial fan & blower mfg	3	13	6	292	8 942	223	467	4 830	23 067	22 982	43 578	2 053
333414	Heating equipment (except warm air furnaces) mfg	2	21	7	881	27 161	546	1 172	11 471	57 425	81 091	137 752	4 654
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	-	98	66	13 199	378 368	9 843	19 460	241 660	1 139 237	1 391 786	2 580 774	60 759
3335	Metalworking machinery mfg	3	261	47	3 831	121 458	2 855	5 273	80 823	246 345	121 408	359 325	18 902
33351	Metalworking machinery mfg	3	261	47	3 831	121 458	2 855	5 273	80 823	246 345	121 408	359 325	18 902
333511	Industrial mold mfg	2	63	14	777	26 051	629	1 102	18 340	44 977	17 219	61 081	3 475
333514	Special die & tool, die set, jig, & fixture mfg	3	117	13	1 395	42 267	1 047	1 889	28 752	72 940	34 768	106 088	5 881
333515	Cutting tool & machine tool accessory mfg	2	64	15	1 232	37 843	918	1 693	25 747	96 003	42 764	134 983	8 042
333518	Other metalworking machinery mfg	7	10	3	332	11 378	196	448	5 640	24 798	18 917	41 887	718
3336	Engine, turbine, & power transmission equipment mfg	-	58	23	4 081	113 574	2 427	5 285	72 863	360 287	469 413	889 893	29 320
33361	Engine, turbine, & power transmission equipment mfg	-	58	23	4 081	113 574	2 427	5 285	72 863	360 287	469 413	889 893	29 320
333611	Turbine & turbine generator set unit mfg	-	9	5	g	D	D	D	D	D	D	D	D
333612	Speed changer, industrial high-speed drive, & gear mfg	-	12	7	455	18 347	283	568	9 569	33 848	50 398	89 086	D
333613	Mechanical power transmission equipment mfg	-	26	8	1 249	35 505	990	2 238	22 294	82 225	65 834	149 310	4 984
333618	Other engine equipment mfg	3	11	3	c	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	1	445	178	16 344	553 319	10 961	22 775	296 835	1 391 877	1 601 772	2 899 487	63 592
33391	Pump & compressor mfg	1	107	44	4 613	155 194	3 118	6 428	88 982	425 682	410 260	811 258	17 896
333911	Pump & pumping equipment mfg	-	66	30	3 350	114 473	2 267	4 496	65 712	293 148	296 483	579 974	11 728
333912	Air & gas compressor mfg	2	37	13	1 188	37 365	804	1 831	21 254	122 893	104 459	212 535	5 681
33392	Material handling equipment mfg	1	119	51	4 922	177 886	3 104	7 086	84 916	476 486	841 080	1 253 965	18 201
333921	Elevator & moving stairway mfg	-	13	8	485	16 960	360	919	9 327	42 599	103 948	143 602	2 270
333922	Conveyor & conveying equipment mfg	1	52	22	1 964	69 449	1 160	2 472	27 606	118 836	160 106	277 628	4 804
333923	Overhead traveling crane, hoist, & monorail system mfg	1	28	12	1 084	33 624	734	1 638	20 194	69 314	100 859	168 704	1 472
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	-	26	9	1 389	57 853	850	2 057	27 789	245 737	476 167	664 031	9 655
33399	All other general-purpose machinery mfg	1	219	83	6 809	220 239	4 739	9 261	122 937	489 709	350 432	834 264	27 495
333991	Power-driven handtool mfg	1	14	5	642	24 846	340	666	12 470	57 912	21 279	77 374	3 784
333992	Welding & soldering equipment mfg	-	9	4	905	30 850	794	1 299	20 853	116 974	41 288	155 990	D
333993	Packaging machinery mfg	3	25	12	722	25 538	367	736	10 775	53 206	35 250	87 059	1 497
333994	Industrial process furnace & oven mfg	3	16	5	325	9 418	237	444	5 440	20 647	21 459	42 551	795
333995	Fluid power cylinder & actuator mfg	-	15	11	844	28 369	634	1 497	18 436	66 172	51 525	118 761	4 073
333996	Fluid power pump & motor mfg	2	11	3	c	D	D	D	D	D	D	D	849
333999	All other miscellaneous general-purpose machinery mfg	2	125	41	3 139	94 412	2 214	4 341	51 435	159 923	166 244	324 558	12 507

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	TEXAS—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg	—	1 051	438	135 625	6 096 714	65 514	130 167	1 950 206	28 781 865	19 877 919	48 749 732	2 936 711
3341	Computer & peripheral equipment mfg	—	121	41	14 606	641 851	8 957	13 395	224 997	6 021 839	11 428 748	17 543 280	76 262
33411	Computer & peripheral equipment mfg	—	121	41	14 606	641 851	8 957	13 395	224 997	6 021 839	11 428 748	17 543 280	76 262
334111	Electronic computer mfg	—	49	16	12 283	556 563	7 730	11 099	180 885	5 800 682	11 174 602	17 070 272	59 963
334113	Computer terminal mfg	1	5	3	246	4 838	187	233	2 732	23 527	59 183	82 249	D
334119	Other computer peripheral equipment mfg	1	58	21	2 006	76 829	1 003	1 982	39 953	187 544	189 126	375 085	14 265
3342	Communications equipment mfg	—	138	60	22 108	996 512	10 491	20 601	332 388	4 109 024	2 635 040	6 668 795	247 409
33421	Telephone apparatus mfg	—	42	21	8 889	492 162	3 932	7 548	145 404	2 149 150	1 050 440	3 158 292	66 338
334210	Telephone apparatus mfg	—	42	21	8 889	492 162	3 932	7 548	145 404	2 149 150	1 050 440	3 158 292	66 338
33422	Radio & TV broadcasting & wireless communications equipment mfg	1	69	31	12 428	483 835	6 037	12 142	176 414	1 915 801	1 539 713	3 422 509	178 215
334220	Radio & TV broadcasting & wireless communications equipment mfg	1	69	31	12 428	483 835	6 037	12 142	176 414	1 915 801	1 539 713	3 422 509	178 215
33429	Other communications equipment mfg	5	27	8	791	20 515	522	911	10 570	44 073	44 887	87 994	2 856
334290	Other communications equipment mfg	5	27	8	791	20 515	522	911	10 570	44 073	44 887	87 994	2 856
3343	Audio & video equipment mfg	1	17	7	884	18 708	698	1 563	12 110	40 715	76 963	115 989	7 189
33431	Audio & video equipment mfg	1	17	7	884	18 708	698	1 563	12 110	40 715	76 963	115 989	7 189
334310	Audio & video equipment mfg	1	17	7	884	18 708	698	1 563	12 110	40 715	76 963	115 989	7 189
3344	Semiconductor & other electronic component mfg	—	370	174	61 987	2 867 232	29 785	62 549	840 538	14 875 433	3 598 536	18 472 676	2 344 627
33441	Semiconductor & other electronic component mfg	—	370	174	61 987	2 867 232	29 785	62 549	840 538	14 875 433	3 598 536	18 472 676	2 344 627
334412	Bare printed circuit board mfg	1	89	37	2 822	84 965	2 201	4 400	61 577	119 175	134 080	253 448	14 502
334413	Semiconductor & related device mfg	—	81	47	38 133	1 880 859	16 802	39 323	488 747	11 868 575	1 868 948	13 589 373	2 168 209
334415	Electronic resistor mfg	—	8	4	663	19 789	493	1 035	11 920	73 471	24 792	102 053	5 407
334416	Electronic coil, transformer, & other inductor mfg	2	26	11	551	16 541	371	763	7 074	35 590	17 847	53 395	1 170
334417	Electronic connector mfg	—	11	6	1 618	42 262	1 329	2 299	25 643	121 857	108 344	230 914	11 718
334418	Printed circuit assembly (electronic assembly) mfg	—	49	38	14 482	689 153	6 006	9 662	174 618	2 430 476	1 244 110	3 816 625	127 232
334419	Other electronic component mfg	3	99	31	3 658	131 868	2 531	4 971	69 552	222 095	197 029	419 203	16 181
3345	Navigational, measuring, medical, & control instruments mfg	—	357	144	30 818	1 385 932	13 266	26 375	415 251	3 230 828	1 846 348	5 148 304	174 529
33451	Navigational, measuring, medical, & control instruments mfg	—	357	144	30 818	1 385 932	13 266	26 375	415 251	3 230 828	1 846 348	5 148 304	174 529
334510	Electromedical & electrotherapeutic apparatus mfg	—	24	13	2 613	111 303	1 442	3 141	47 702	268 898	129 673	397 974	29 413
334511	Search, detection, navigation, & guidance instrument mfg	—	47	21	16 660	824 512	6 128	11 847	208 097	1 879 455	895 682	2 849 313	82 110
334512	Automatic environmental control mfg	1	16	7	593	25 579	420	947	13 700	31 131	45 579	78 465	3 341
334513	Industrial process control instrument mfg	1	91	37	3 293	129 462	1 546	3 021	41 590	285 375	214 653	491 877	20 259
334514	Totalizing fluid meter & counting device mfg	1	17	8	600	22 924	388	901	12 810	57 926	57 653	112 347	4 947
334515	Electricity measuring & testing instrument mfg	—	49	19	1 388	57 037	624	1 270	15 780	140 135	99 717	240 020	9 640
334516	Analytical laboratory instrument mfg	—	42	15	3 196	127 163	1 247	2 399	34 581	306 248	195 475	506 167	14 296
334517	Irradiation apparatus mfg	4	2	2	c	D	D	D	D	D	D	D	D
334519	Other measuring & controlling device mfg	—	63	21	2 299	82 616	1 396	2 708	39 152	245 611	188 935	436 870	10 008

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	TEXAS—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3346	Mfg & reproducing magnetic & optical media .	—	48	12	5 222	186 479	2 317	5 684	124 922	504 026	292 284	800 688	86 695
33461	Mfg & reproducing magnetic & optical media	—	48	12	5 222	186 479	2 317	5 684	124 922	504 026	292 284	800 688	86 695
334611	Software reproducing	—	10	4	h	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing	1	28	5	f	D	D	D	D	D	D	D	D
334613	Magnetic & optical recording media mfg .	—	10	3	466	13 291	281	785	6 251	94 533	81 636	180 619	18 018
335	Electrical equipment, appliance, & component mfg	1	405	168	23 364	704 373	16 329	32 173	380 157	2 193 888	2 661 876	4 851 553	161 636
3351	Electric lighting equipment mfg	1	59	27	2 449	66 797	1 737	3 694	39 189	192 181	200 888	395 090	8 054
33511	Electric lamp bulb & part mfg	—	3	2	c	D	D	D	D	D	D	D	D
335110	Electric lamp bulb & part mfg	—	3	2	c	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	1	56	25	g	D	D	D	D	D	D	D	D
335121	Residential electric lighting fixture mfg . . .	1	23	6	e	D	D	D	D	D	D	D	D
335122	Commercial/industrial/institutional electric lighting fixture mfg . . .	—	13	7	715	18 675	536	1 148	11 019	56 882	73 446	130 235	1 494
335129	Other lighting equipment mfg	1	20	12	1 183	34 202	811	1 768	20 608	100 485	92 736	194 530	5 558
3352	Household appliance mfg	—	21	9	2 643	55 788	2 304	3 354	40 063	301 014	350 096	644 925	26 219
33521	Small electrical appliance mfg	—	13	8	2 465	49 346	2 143	3 066	35 657	288 010	337 014	620 630	D
335211	Electric housewares & household fan mfg . . .	—	9	5	953	19 145	804	1 156	12 421	126 487	55 931	179 003	D
335212	Household vacuum cleaner mfg	—	4	3	1 512	30 201	1 339	1 910	23 236	161 523	281 083	441 627	D
33522	Major appliance mfg	—	8	1	178	6 442	161	288	4 406	13 004	13 082	24 295	D
335221	Household cooking appliance mfg	—	8	1	178	6 442	161	288	4 406	13 004	13 082	24 295	D
3353	Electrical equipment mfg	—	176	54	7 262	255 127	4 598	8 820	119 486	641 135	909 403	1 555 794	40 822
33531	Electrical equipment mfg	—	176	54	7 262	255 127	4 598	8 820	119 486	641 135	909 403	1 555 794	40 822
335311	Power, distribution, & specialty transformer mfg	—	27	8	797	22 681	563	1 108	13 518	58 272	120 832	182 397	5 851
335312	Motor & generator mfg	1	36	13	2 016	79 837	1 196	2 091	36 114	152 146	325 416	482 126	19 266
335313	Switchgear & switchboard apparatus mfg	—	40	11	2 408	79 569	1 764	3 595	47 862	277 049	278 810	552 585	8 700
335314	Relay & industrial control mfg	1	73	22	2 041	73 040	1 075	2 026	21 992	153 668	184 345	338 686	7 005
3359	Other electrical equipment & component mfg	1	149	78	11 010	326 661	7 690	16 305	181 419	1 059 558	1 201 489	2 255 744	86 541
33591	Battery mfg	1	10	6	937	30 194	766	1 757	20 461	90 022	71 928	162 371	4 524
335911	Storage battery mfg	1	9	6	f	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg	—	21	21	4 863	134 177	3 444	7 732	83 248	515 606	830 845	1 342 533	54 216
335921	Fiber optic cable mfg	—	3	3	780	17 397	557	1 340	9 375	40 302	50 792	89 141	D
335929	Other communication & energy wire mfg . . .	—	18	18	4 083	116 780	2 887	6 392	73 873	475 304	780 053	1 253 392	D
33593	Wiring device mfg	—	43	21	2 737	83 640	1 813	3 346	39 625	224 133	152 720	377 735	16 038
335931	Current-carrying wiring device mfg	1	27	13	1 704	55 157	1 068	1 866	20 738	100 306	68 192	169 555	4 794
335932	Noncurrent-carrying wiring device mfg	—	16	8	1 033	28 483	745	1 480	18 887	123 827	84 528	208 180	11 244
33599	All other electrical equipment & component mfg	4	75	30	2 473	78 650	1 667	3 470	38 085	229 797	145 996	373 105	11 763
335991	Carbon & graphite product mfg	—	4	3	382	13 588	259	553	8 150	44 329	17 929	56 334	D
335999	All other miscellaneous electrical equipment & component mfg	5	71	27	2 091	65 062	1 408	2 917	29 935	185 468	128 067	316 771	D

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)				
	TEXAS—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg	-	811	300	73 952	3 108 713	45 983	91 363	1 571 280	7 382 665	7 574 471	14 766 312	450 619
3361	Motor vehicle mfg	-	14	4	h	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	12	3	g	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	-	8	2	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	-	2	1	f	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	-	2	1	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	2	164	67	6 265	160 749	5 018	9 982	108 457	360 551	560 529	918 165	15 184
33621	Motor vehicle body & trailer mfg	2	164	67	6 265	160 749	5 018	9 982	108 457	360 551	560 529	918 165	15 184
336211	Motor vehicle body mfg	3	41	17	g	D	D	D	D	D	D	D	D
336212	Truck trailer mfg	1	42	20	2 200	58 436	1 866	3 815	42 627	123 831	233 823	350 959	6 375
336213	Motor home mfg	-	4	2	f	D	D	D	D	D	D	D	D
336214	Travel trailer & camper mfg	3	77	28	2 174	50 834	1 767	3 377	34 557	104 805	174 190	279 011	4 600
3363	Motor vehicle parts mfg ...	1	304	107	15 280	413 918	11 481	21 979	255 719	1 287 080	1 666 630	2 958 412	92 678
33631	Motor vehicle gasoline engine & engine parts mfg	1	61	12	1 694	65 807	1 402	2 486	52 097	109 008	223 659	332 464	17 958
336311	Carburetor, piston, piston ring, & valve mfg	8	14	6	377	10 021	307	553	7 415	19 535	17 216	36 795	2 001
336312	Gasoline engine & engine parts mfg	-	47	6	1 317	55 786	1 095	1 933	44 682	89 473	206 443	295 669	15 957
33632	Motor vehicle electrical & electronic equipment mfg	-	68	30	5 179	126 164	3 817	6 805	71 248	496 901	522 721	1 004 757	26 703
336321	Vehicular lighting equipment mfg	-	5	3	559	17 984	234	459	5 191	53 601	43 361	96 066	1 987
336322	Other motor vehicle electrical & electronic equipment mfg	-	63	27	4 620	108 180	3 583	6 346	66 057	443 300	479 360	908 691	24 716
33633	Motor vehicle steering & suspension component (except spring) mfg	7	10	3	123	3 190	92	109	1 493	4 723	5 214	9 824	686
336330	Motor vehicle steering & suspension component (except spring) mfg	7	10	3	123	3 190	92	109	1 493	4 723	5 214	9 824	686
33634	Motor vehicle brake system mfg	1	9	6	628	17 085	499	886	10 379	40 524	27 725	68 774	3 407
336340	Motor vehicle brake system mfg	1	9	6	628	17 085	499	886	10 379	40 524	27 725	68 774	3 407
33635	Motor vehicle transmission & power train parts mfg	4	35	10	730	15 284	583	1 019	9 965	43 372	40 748	82 074	2 675
336350	Motor vehicle transmission & power train parts mfg	4	35	10	730	15 284	583	1 019	9 965	43 372	40 748	82 074	2 675
33636	Motor vehicle seating & interior trim mfg	-	21	10	1 604	40 624	1 455	2 983	31 837	99 250	144 772	239 657	15 274
336360	Motor vehicle seating & interior trim mfg ...	-	21	10	1 604	40 624	1 455	2 983	31 837	99 250	144 772	239 657	15 274
33637	Motor vehicle metal stamping	1	13	5	375	8 610	301	577	7 061	25 518	37 079	62 843	1 757
336370	Motor vehicle metal stamping	1	13	5	375	8 610	301	577	7 061	25 518	37 079	62 843	1 757
33639	Other motor vehicle parts mfg	-	87	31	4 947	137 154	3 332	7 114	71 639	467 784	664 712	1 158 019	24 218
336391	Motor vehicle air-conditioning mfg	-	18	9	2 290	61 049	1 482	3 483	31 123	212 527	402 327	641 107	7 676
336399	All other motor vehicle parts mfg	1	69	22	2 657	76 105	1 850	3 631	40 516	255 257	262 385	516 912	16 542
3364	Aerospace product & parts mfg	-	151	61	41 973	2 171 104	20 549	42 196	924 725	4 797 979	3 370 834	7 978 168	203 590
33641	Aerospace product & parts mfg	-	151	61	41 973	2 171 104	20 549	42 196	924 725	4 797 979	3 370 834	7 978 168	203 590
336411	Aircraft mfg	-	31	17	27 551	1 468 756	12 033	26 254	533 573	3 105 165	2 477 979	5 640 299	118 243
336412	Aircraft engine & engine parts mfg	1	26	14	h	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	-	85	23	7 857	414 330	3 952	7 399	217 029	984 583	330 592	1 141 072	46 833
336414	Guided missile & space vehicle mfg ...	-	4	3	h	D	D	D	D	D	D	D	D
336419	Other guided missile & space vehicle parts & auxiliary equip mfg...	1	4	3	e	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	-	18	14	2 332	67 861	1 926	3 821	46 369	164 851	538 206	704 485	D
33651	Railroad rolling stock mfg	-	18	14	2 332	67 861	1 926	3 821	46 369	164 851	538 206	704 485	D
336510	Railroad rolling stock mfg	-	18	14	2 332	67 861	1 926	3 821	46 369	164 851	538 206	704 485	D

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)				
	TEXAS—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3366	Ship & boat building	2	114	35	3 861	109 343	3 169	5 850	75 987	213 847	227 993	440 712	17 543
33661	Ship & boat building	2	114	35	3 861	109 343	3 169	5 850	75 987	213 847	227 993	440 712	17 543
336611	Ship building & repairing	1	71	27	3 087	93 209	2 587	4 803	66 181	176 571	174 670	351 241	15 282
336612	Boat building	6	43	8	774	16 134	582	1 047	9 806	37 276	53 323	89 471	2 261
3369	Other transportation equipment mfg	3	46	12	f	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	3	46	12	f	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg	3	30	10	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	1 034	248	27 706	610 156	21 776	41 950	401 093	1 448 065	1 249 536	2 698 845	73 149
3371	Household & institutional furniture & kitchen cabinet mfg	1	742	131	16 557	331 736	13 328	25 292	231 349	724 991	681 613	1 412 203	41 723
33711	Wood kitchen cabinet & counter top mfg	1	399	63	8 369	174 337	6 690	13 809	122 925	407 055	323 426	730 535	25 226
337110	Wood kitchen cabinet & counter top mfg ...	1	399	63	8 369	174 337	6 690	13 809	122 925	407 055	323 426	730 535	25 226
33712	Household & institutional furniture mfg	2	343	68	8 188	157 399	6 638	11 483	108 424	317 936	358 187	681 668	16 497
337121	Upholstered household furniture mfg	2	84	20	2 224	43 517	1 841	3 238	30 861	79 697	91 829	172 159	3 746
337122	Nonupholstered wood household furniture mfg	3	172	13	1 741	30 817	1 473	2 444	22 093	64 322	43 168	107 134	2 313
337124	Metal household furniture mfg	1	19	8	1 393	25 839	1 157	2 175	19 700	52 621	63 797	122 966	4 469
337127	Institutional furniture mfg	1	54	26	2 721	54 955	2 090	3 468	34 228	116 244	155 273	270 190	5 801
3372	Office furniture (including fixtures) mfg	2	209	80	7 555	202 563	5 765	10 837	121 558	477 772	309 139	784 546	23 637
33721	Office furniture (including fixtures) mfg	2	209	80	7 555	202 563	5 765	10 837	121 558	477 772	309 139	784 546	23 637
337211	Wood office furniture mfg	-	29	11	1 035	28 201	760	1 257	16 798	84 443	45 752	129 101	2 691
337212	Custom architectural woodwork & millwork mfg	1	62	25	1 471	42 886	1 100	1 945	24 576	78 283	43 184	122 067	3 096
337214	Office furniture (except wood) mfg	1	17	6	898	22 808	644	1 318	14 942	73 011	67 514	140 032	5 498
337215	Showcase, partition, shelving, & locker mfg	2	101	38	4 151	108 668	3 261	6 317	65 242	242 035	152 689	393 346	12 352
3379	Other furniture related product mfg	-	83	37	3 594	75 857	2 683	5 821	48 186	245 302	258 784	502 096	7 789
33791	Mattress mfg	1	52	18	1 555	35 851	1 202	2 306	22 574	127 076	127 787	254 531	4 921
337910	Mattress mfg	1	52	18	1 555	35 851	1 202	2 306	22 574	127 076	127 787	254 531	4 921
33792	Blind & shade mfg	-	31	19	2 039	40 006	1 481	3 515	25 612	118 226	130 997	247 565	2 868
337920	Blind & shade mfg	-	31	19	2 039	40 006	1 481	3 515	25 612	118 226	130 997	247 565	2 868
339	Miscellaneous mfg	2	1 859	305	37 566	976 516	26 738	50 775	543 749	2 995 497	2 107 838	5 098 719	147 402
3391	Medical equipment & supplies mfg	1	673	93	15 571	457 922	10 759	19 899	234 566	1 606 493	927 346	2 536 320	79 960
33911	Medical equipment & supplies mfg	1	673	93	15 571	457 922	10 759	19 899	234 566	1 606 493	927 346	2 536 320	79 960
339111	Laboratory apparatus & furniture mfg	2	15	4	276	10 079	176	325	4 128	19 547	16 579	36 345	571
339112	Surgical & medical instrument mfg	2	72	24	4 280	143 098	2 945	5 710	73 738	475 891	260 065	729 032	21 734
339113	Surgical appliance & supplies mfg	-	109	39	7 169	219 877	4 942	9 324	105 436	936 479	526 776	1 476 165	47 911
339114	Dental equipment & supplies mfg	3	34	1	210	6 047	151	298	3 427	10 424	6 378	17 378	349
339115	Ophthalmic goods mfg	1	33	6	1 360	25 234	849	1 473	14 178	53 483	74 900	122 239	5 870
339116	Dental laboratories ...	5	410	19	2 276	53 587	1 696	2 769	33 659	110 669	42 648	155 161	3 525
3399	Other miscellaneous mfg ..	3	1 186	212	21 995	518 594	15 979	30 876	309 183	1 389 004	1 180 492	2 562 399	67 442
33991	Jewelry & silverware mfg	2	154	20	2 822	62 369	2 105	4 167	42 265	142 100	139 936	281 495	4 107
339911	Jewelry (except costume) mfg	2	106	14	2 478	55 434	1 833	3 713	38 108	127 191	129 625	256 570	3 791
339914	Costume jewelry & novelty mfg	5	40	5	265	4 902	216	361	3 065	10 291	7 024	17 063	197
33992	Sporting & athletic goods mfg	1	151	32	2 875	59 638	2 252	4 027	38 567	206 325	166 764	373 621	9 348
339920	Sporting & athletic goods mfg	1	151	32	2 875	59 638	2 252	4 027	38 567	206 325	166 764	373 621	9 348
33993	Doll, toy, & game mfg ...	-	41	8	1 263	26 022	1 106	1 896	17 395	189 010	153 802	342 917	2 957
339932	Game, toy, & children's vehicle mfg	-	26	6	1 192	24 790	1 049	1 816	16 599	185 116	151 743	336 988	2 939

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	TEXAS—Con.												
	Manufacturing—Con.												
339	Miscellaneous mfg—Con.												
3399	Other miscellaneous mfg—Con.												
33994	Office supplies (except paper) mfg	1	59	8	848	19 116	536	1 069	11 070	79 838	48 139	126 386	3 493
339941	Pen & mechanical pencil mfg	1	2	1	c	D	D	D	D	D	D	D	D
339942	Lead pencil & art good mfg	2	6	1	c	D	D	D	D	D	D	D	D
339943	Marking device mfg . . .	4	44	4	408	7 906	229	433	4 635	15 241	7 838	23 007	721
339944	Carbon paper & inked ribbon mfg	—	7	2	158	5 295	89	170	2 551	51 183	29 696	79 855	2 198
33995	Sign mfg	4	454	58	5 314	133 577	3 526	6 593	68 903	192 025	230 334	418 894	9 009
339950	Sign mfg	4	454	58	5 314	133 577	3 526	6 593	68 903	192 025	230 334	418 894	9 009
33999	All other miscellaneous mfg	3	327	86	8 873	217 872	6 454	13 124	130 983	579 706	441 517	1 019 086	38 528
339991	Gasket, packing, & sealing device mfg . . .	3	69	35	3 353	99 178	2 331	5 185	59 158	247 285	170 204	416 362	18 675
339993	Fastener, button, needle, & pin mfg	1	10	2	152	1 838	60	110	738	7 452	6 318	13 975	424
339994	Broom, brush, & mop mfg	1	25	5	423	7 124	256	488	3 917	32 615	29 605	62 318	2 577
339995	Burial casket mfg	2	8	2	115	2 441	85	180	1 680	9 026	6 021	14 884	98
339999	All other miscellaneous mfg	4	190	41	4 736	104 780	3 644	7 000	63 683	278 560	226 627	503 854	16 564

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; f–500 to 999 employees; g–1,000 to 2,499 employees; h–2,500 to 4,999 employees; i–5,000 to 9,999 employees; j–10,000 to 24,999 employees; k–25,000 to 49,999 employees; l–50,000 to 99,999 employees; m–100,000 employees or more.

Table 2. 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	ABILENE, TX MSA												
	Manufacturing	—	118	28	3 062	79 897	2 121	3 922	44 560	531 226	472 693	1 010 679	21 553
311	Food mfg	—	11	4	466	10 674	265	495	4 724	45 280	26 876	72 126	2 307
3118	Bakeries & tortilla mfg	—	7	3	e	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	—	5	2	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries	—	3	2	e	D	D	D	D	D	D	D	D
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	—	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	23	5	789	20 967	636	1 317	15 290	67 932	97 449	160 976	4 888
3324	Boiler, tank, & shipping container mfg	—	2	2	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	—	4	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)				
AMARILLO, TX MSA													
31-33	Manufacturing	—	203	53	11 110	359 114	7 430	15 560	233 107	855 150	2 755 558	3 624 906	36 651
311	Food mfg	—	21	8	3 662	80 590	3 103	7 058	66 531	133 315	1 372 229	1 507 765	12 067
3116	Meat product mfg	—	4	4	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	—	4	4	h	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	—	2	2	h	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	21	5	358	9 523	258	549	5 873	19 252	10 127	29 443	2 420
3231	Printing & related support activities	1	21	5	358	9 523	258	549	5 873	19 252	10 127	29 443	2 420
32311	Printing	1	20	4	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	13	6	967	32 896	835	1 657	27 848	168 382	54 959	228 820	5 597
3272	Glass & glass product mfg	—	3	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	—	3	1	f	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	—	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	2	2	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	—	1	1	f	D	D	D	D	D	D	D	D
33141	Nonferrous metal (except aluminum) smelting & refining	—	1	1	f	D	D	D	D	D	D	D	D
331411	Primary smelting & refining of copper	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	27	7	3 526	162 132	1 211	2 444	82 122	323 120	15 724	339 536	720
3329	Other fabricated metal product mfg	—	3	2	h	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	—	2	2	h	D	D	D	D	D	D	D	D
332995	Other ordnance & accessories mfg	—	2	2	h	D	D	D	D	D	D	D	D
333	Machinery mfg	—	18	9	462	14 341	338	646	9 249	25 316	29 362	55 800	1 717
AUSTIN—SAN MARCOS, TX MSA													
31-33	Manufacturing	—	1 192	329	68 826	2 529 356	36 834	75 670	997 863	15 382 557	9 540 552	24 924 886	1 317 089
311	Food mfg	6	81	20	1 809	41 488	1 176	2 282	22 950	118 533	161 157	280 191	10 787
3114	Fruit & vegetable preserving & specialty food mfg	7	13	3	490	13 148	371	807	8 438	48 188	49 544	97 740	D
31141	Frozen food mfg	8	5	2	e	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	8	4	2	e	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	3	36	6	474	7 722	326	583	4 537	18 900	9 133	28 020	1 189
3119	Other food mfg	7	16	3	297	7 040	190	300	3 851	29 242	23 604	52 823	2 045
312	Beverage & tobacco product mfg	—	10	2	457	14 324	103	202	3 169	18 956	72 866	91 385	1 271
3121	Beverage mfg	—	10	2	457	14 324	103	202	3 169	18 956	72 866	91 385	1 271
31211	Soft drink & ice mfg	—	4	1	e	D	D	D	D	D	D	D	D
312111	Soft drink mfg	—	1	1	e	D	D	D	D	D	D	D	D
314	Textile product mills	3	23	3	340	5 159	234	332	3 316	13 373	7 407	21 038	735
321	Wood product mfg	2	42	12	1 282	27 113	1 008	1 834	16 914	57 706	67 331	124 663	4 471
3212	Veneer, plywood, & engineered wood product mfg	—	5	4	252	7 288	186	387	3 610	12 846	15 767	28 166	216
32121	Veneer, plywood, & engineered wood product mfg	—	5	4	252	7 288	186	387	3 610	12 846	15 767	28 166	216
321214	Truss mfg	—	5	4	252	7 288	186	387	3 610	12 846	15 767	28 166	216
3219	Other wood product mfg ...	1	33	8	992	19 018	788	1 378	12 618	42 885	48 315	91 254	4 040
32199	All other wood product mfg	1	13	4	782	14 713	615	1 046	9 603	34 216	41 185	75 434	3 791
321991	Manufactured home (mobile home) mfg ...	—	2	2	f	D	D	D	D	D	D	D	D
321999	All other miscellaneous wood product mfg ...	7	11	2	e	D	D	D	D	D	D	D	D

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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	AUSTIN-SAN MARCOS, TX MSA—Con.												
	Manufacturing—Con.												
323	Printing & related support activities.....	5	186	35	3 009	86 202	2 142	3 776	51 355	174 982	116 545	292 581	17 418
3231	Printing & related support activities.....	5	186	35	3 009	86 202	2 142	3 776	51 355	174 982	116 545	292 581	17 418
32311	Printing.....	5	164	32	2 752	78 256	1 933	3 376	45 809	161 172	114 252	276 471	16 859
323110	Commercial lithographic printing ..	5	73	18	1 400	43 369	1 041	1 893	26 764	93 068	48 856	141 654	10 379
323114	Quick printing	1	45	3	351	8 076	274	402	4 656	16 484	9 741	26 271	906
323117	Book printing.....	9	3	3	f	D	D	D	D	D	D	D	D
32312	Support activities for printing.....	2	22	3	257	7 946	209	400	5 546	13 810	2 293	16 110	559
325	Chemical mfg	2	35	11	2 109	85 018	1 503	3 270	57 662	213 183	135 354	347 894	20 144
3251	Basic chemical mfg	5	7	2	317	18 444	99	226	6 285	46 049	38 319	84 647	7 879
3254	Pharmaceutical & medicine mfg	—	12	7	1 517	57 797	1 277	2 833	48 388	136 432	66 534	201 753	10 034
32541	Pharmaceutical & medicine mfg	—	12	7	1 517	57 797	1 277	2 833	48 388	136 432	66 534	201 753	10 034
325411	Medicinal & botanical mfg	—	2	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	43	20	1 429	39 508	1 048	2 163	21 354	102 260	70 638	171 967	8 117
3261	Plastics product mfg	1	39	19	1 368	38 253	997	2 083	20 503	98 106	65 809	162 846	7 666
32619	Other plastics product mfg	—	30	14	1 034	24 504	729	1 510	15 064	80 617	33 836	113 613	5 088
326199	All other plastics product mfg	—	25	12	840	20 544	566	1 188	12 320	69 987	27 320	96 675	D
327	Nonmetallic mineral product mfg	1	91	26	1 997	58 432	1 592	3 521	41 936	187 709	145 339	333 346	10 877
3271	Clay product & refractory mfg	1	12	4	325	7 312	267	611	5 758	19 478	12 013	30 629	D
32712	Clay building material & refractories mfg	1	4	3	260	5 775	212	502	4 427	15 044	8 111	22 683	1 905
327121	Brick & structural clay tile mfg	1	4	3	260	5 775	212	502	4 427	15 044	8 111	22 683	1 905
3273	Cement & concrete product mfg	1	47	15	1 072	35 274	860	1 951	24 915	129 834	104 646	236 013	6 298
32732	Ready-mix concrete mfg	2	30	8	449	14 307	379	848	11 106	45 424	51 876	97 948	2 304
327320	Ready-mix concrete mfg	2	30	8	449	14 307	379	848	11 106	45 424	51 876	97 948	2 304
32739	Other concrete product mfg	—	11	4	359	9 730	271	565	6 814	20 606	15 524	36 166	1 533
327390	Other concrete product mfg	—	11	4	359	9 730	271	565	6 814	20 606	15 524	36 166	1 533
3279	Other nonmetallic mineral product mfg	1	16	4	317	7 307	249	526	5 315	19 535	13 065	32 312	897
32799	All other nonmetallic mineral product mfg ...	1	16	4	317	7 307	249	526	5 315	19 535	13 065	32 312	897
332	Fabricated metal product mfg	2	165	40	2 903	81 903	2 272	4 458	52 407	178 846	151 243	330 193	11 842
3323	Architectural & structural metals mfg	1	47	14	1 012	30 521	751	1 430	18 965	66 653	75 585	141 756	3 131
33231	Plate work & fabricated structural product mfg ..	1	15	5	377	9 517	280	488	5 813	15 758	28 007	43 807	762
332312	Fabricated structural metal mfg	1	10	5	335	8 337	252	428	5 082	13 495	25 428	38 968	681
33232	Ornamental & architectural metal products mfg	1	32	9	635	21 004	471	942	13 152	50 895	47 578	97 949	2 369
332322	Sheet metal work mfg ..	2	22	6	524	17 321	391	785	10 955	39 710	40 031	79 226	1 930
3327	Machine shops, turned product, & screw, nut, & bolt mfg	3	70	13	756	26 150	611	1 193	17 169	55 349	20 479	75 832	4 908
33271	Machine shops	3	63	11	626	20 853	508	971	14 297	46 759	17 335	64 034	3 498
332710	Machine shops	3	63	11	626	20 853	508	971	14 297	46 759	17 335	64 034	3 498
3328	Coating, engraving, heat treating, & allied activities ..	1	13	5	297	6 045	248	435	4 413	11 856	3 858	15 755	293
33281	Coating, engraving, heat treating, & allied activities.....	1	13	5	297	6 045	248	435	4 413	11 856	3 858	15 755	293
3329	Other fabricated metal product mfg	—	15	5	534	12 061	411	873	6 805	21 764	23 333	45 660	2 086
33291	Metal valve mfg	—	5	4	456	10 460	349	777	5 789	17 590	20 046	38 162	1 760
332911	Industrial valve mfg ...	—	3	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	AUSTIN-SAN MARCOS, TX MSA—Con.												
	Manufacturing—Con.												
333	Machinery mfg	-	65	21	5 656	124 809	4 757	9 347	79 438	1 021 137	830 730	1 787 620	71 002
3331	Agriculture, construction, & mining machinery mfg.	2	10	4	303	9 057	214	413	5 488	22 851	31 069	54 129	2 275
3332	Industrial machinery mfg ..	-	20	10	4 532	93 542	3 889	7 778	58 084	958 367	773 929	1 668 218	64 574
33329	Other industrial machinery mfg	-	20	10	4 532	93 542	3 889	7 778	58 084	958 367	773 929	1 668 218	64 574
333295	Semiconductor machinery mfg	-	9	5	3 829	68 685	3 456	6 946	47 073	904 255	703 974	1 545 785	57 032
333298	All other industrial machinery mfg	1	9	5	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	4	18	2	360	9 400	284	548	6 615	15 496	7 147	22 400	2 227
33351	Metalworking machinery mfg	4	18	2	360	9 400	284	548	6 615	15 496	7 147	22 400	2 227
3339	Other general-purpose machinery mfg	1	8	3	362	9 579	300	465	7 278	16 751	8 780	25 489	794
33391	Pump & compressor mfg	-	2	2	e	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg	-	2	2	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	149	80	38 357	1 665 741	14 972	33 260	513 835	12 527 001	7 249 859	19 848 363	1 115 101
3341	Computer & peripheral equipment mfg	-	28	15	h	D	D	D	D	D	D	D	35 833
33411	Computer & peripheral equipment mfg	-	28	15	h	D	D	D	D	D	D	D	35 833
334111	Electronic computer mfg	-	11	5	h	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	-	15	9	g	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	1	18	10	g	D	D	D	D	D	D	D	D
33421	Telephone apparatus mfg	-	5	4	f	D	D	D	D	D	D	D	7 442
334210	Telephone apparatus mfg	-	5	4	f	D	D	D	D	D	D	D	7 442
33429	Other communications equipment mfg	5	6	3	e	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg	5	6	3	e	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	52	34	27 641	1 263 428	10 670	24 908	348 771	8 985 390	1 352 807	10 414 541	1 031 202
33441	Semiconductor & other electronic component mfg	-	52	34	27 641	1 263 428	10 670	24 908	348 771	8 985 390	1 352 807	10 414 541	1 031 202
334412	Bare printed circuit board mfg	1	6	4	307	6 422	212	394	4 313	13 218	10 886	24 258	1 245
334413	Semiconductor & related device mfg ...	-	22	15	15 988	653 906	6 416	17 848	203 933	6 801 760	574 663	7 294 898	926 179
334418	Printed circuit assembly (electronic assembly) mfg	-	11	10	10 619	567 170	3 458	5 504	123 308	2 099 604	749 413	3 007 486	102 204
334419	Other electronic component mfg	8	8	4	493	30 692	376	788	14 493	54 652	8 451	62 342	610
3345	Navigational, measuring, medical, & control instruments mfg	-	40	19	g	D	D	D	D	D	D	D	11 005
33451	Navigational, measuring, medical, & control instruments mfg	-	40	19	g	D	D	D	D	D	D	D	11 005
334513	Industrial process control instrument mfg	-	5	4	507	9 526	178	389	4 112	75 661	38 931	111 688	D
334519	Other measuring & controlling device mfg	2	12	4	281	10 261	116	188	3 106	27 928	11 616	39 673	D
3346	Mfg & reproducing magnetic & optical media ..	-	7	1	h	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media	-	7	1	h	D	D	D	D	D	D	D	D
334611	Software reproducing ..	-	3	1	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	AUSTIN-SAN MARCOS, TX MSA—Con.												
	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	1	42	19	2 566	94 130	1 427	2 757	34 770	223 382	195 372	417 415	16 707
3351	Electric lighting equipment mfg	—	10	6	f	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	—	9	5	f	D	D	D	D	D	D	D	D
335129	Other lighting equipment mfg	—	5	4	f	D	D	D	D	D	D	D	4 254
3353	Electrical equipment mfg ..	—	10	2	456	20 078	202	401	6 468	47 238	52 861	97 589	D
33531	Electrical equipment mfg	—	10	2	456	20 078	202	401	6 468	47 238	52 861	97 589	D
335312	Motor & generator mfg	—	4	2	e	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	2	20	11	1 226	51 132	668	1 215	15 591	100 772	76 036	177 407	D
33592	Communication & energy wire & cable mfg	5	3	3	f	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg ...	6	2	2	e	D	D	D	D	D	D	D	D
33593	Wiring device mfg	—	3	2	e	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg	—	3	2	e	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	2	12	5	288	8 384	210	410	3 629	15 319	13 983	29 431	846
335999	All other miscellaneous electrical equipment & component mfg	2	12	5	288	8 384	210	410	3 629	15 319	13 983	29 431	846
336	Transportation equipment mfg	—	20	4	1 002	41 527	518	919	13 745	99 997	44 318	140 635	10 164
3364	Aerospace product & parts mfg	—	4	3	855	38 452	406	704	11 614	93 681	37 743	128 063	9 154
33641	Aerospace product & parts mfg	—	4	3	855	38 452	406	704	11 614	93 681	37 743	128 063	9 154
336413	Other aircraft part & auxiliary equipment mfg	—	3	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	70	11	1 387	27 698	1 106	1 806	19 265	55 816	54 472	110 406	3 428
3371	Household & institutional furniture & kitchen cabinet mfg	2	55	6	905	16 297	750	1 142	12 113	27 285	21 792	49 154	2 375
33711	Wood kitchen cabinet & counter top mfg	3	29	3	320	8 319	283	600	6 723	13 571	8 212	21 701	498
337110	Wood kitchen cabinet & counter top mfg ...	3	29	3	320	8 319	283	600	6 723	13 571	8 212	21 701	498
33712	Household & institutional furniture mfg	2	26	3	585	7 978	467	542	5 390	13 714	13 580	27 453	1 877
337122	Nonupholstered wood household furniture mfg	3	16	1	324	3 740	266	249	2 657	6 034	5 805	11 928	468
3379	Other furniture related product mfg	2	5	3	315	6 941	229	465	4 286	21 974	29 293	51 315	959
339	Miscellaneous mfg	2	122	16	3 906	121 936	2 503	4 905	57 453	353 419	191 713	544 282	13 224
3391	Medical equipment & supplies mfg	—	46	8	1 744	73 034	911	1 738	23 997	233 862	95 071	331 261	8 555
33911	Medical equipment & supplies mfg	—	46	8	1 744	73 034	911	1 738	23 997	233 862	95 071	331 261	8 555
339113	Surgical appliance & supplies mfg	—	7	4	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	5	76	8	2 162	48 902	1 592	3 167	33 456	119 557	96 642	213 021	4 669
33991	Jewelry & silverware mfg	—	9	1	g	D	D	D	D	D	D	D	D
339911	Jewelry (except costume) mfg	—	6	1	g	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	9	23	5	876	20 475	753	1 433	14 479	63 385	43 342	104 738	2 081
339999	All other miscellaneous mfg	9	15	4	835	19 337	719	1 370	13 665	60 973	41 815	100 760	1 942

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	BEAUMONT-PORT ARTHUR, TX MSA												
	Manufacturing	-	349	117	21 624	1 059 397	15 455	34 878	694 506	5 651 595	13 258 762	18 986 618	827 233
311	Food mfg.....	1	23	6	383	8 211	290	501	4 472	15 768	62 211	78 654	1 352
321	Wood product mfg.....	1	14	7	734	21 439	623	1 581	16 118	39 664	78 917	117 597	5 839
3212	Veneer, plywood, & engineered wood product mfg.....	-	2	2	e	D	D	D	D	D	D	D	D
32121	Veneer, plywood, & engineered wood product mfg.....	-	2	2	e	D	D	D	D	D	D	D	D
321219	Reconstituted wood product mfg.....	-	2	2	e	D	D	D	D	D	D	D	D
3219	Other wood product mfg...	-	6	3	334	10 363	295	710	7 792	16 535	28 723	45 282	899
32192	Wood container & pallet mfg.....	-	3	3	321	10 156	284	691	7 643	16 123	28 391	44 511	876
321920	Wood container & pallet mfg.....	-	3	3	321	10 156	284	691	7 643	16 123	28 391	44 511	876
322	Paper mfg.....	1	5	4	621	32 286	473	1 095	24 563	76 375	159 051	234 363	D
3221	Pulp, paper, & paperboard mills.....	1	2	2	f	D	D	D	D	D	D	D	D
32213	Paperboard mills.....	-	1	1	e	D	D	D	D	D	D	D	D
322130	Paperboard mills.....	-	1	1	e	D	D	D	D	D	D	D	D
324	Petroleum & coal products mfg.....	-	10	8	4 438	283 961	3 096	7 512	191 435	1 604 980	7 890 663	9 558 574	259 518
3241	Petroleum & coal products mfg.....	-	10	8	4 438	283 961	3 096	7 512	191 435	1 604 980	7 890 663	9 558 574	259 518
32411	Petroleum refineries.....	-	7	6	h	D	D	D	D	D	D	D	D
324110	Petroleum refineries..	-	7	6	h	D	D	D	D	D	D	D	D
32419	Other petroleum & coal products mfg.....	-	2	2	e	D	D	D	D	D	D	D	D
325	Chemical mfg.....	-	43	31	8 526	491 389	5 708	13 084	309 848	3 403 119	4 367 660	7 788 226	507 564
3251	Basic chemical mfg.....	1	19	12	2 630	160 733	1 880	4 858	109 055	1 321 774	1 989 905	3 330 414	302 486
32511	Petrochemical mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
325110	Petrochemical mfg....	-	1	1	e	D	D	D	D	D	D	D	D
32512	Industrial gas mfg.....	-	7	2	632	39 866	456	921	25 609	116 462	234 521	364 192	D
325120	Industrial gas mfg....	-	7	2	632	39 866	456	921	25 609	116 462	234 521	364 192	D
32519	Other basic organic chemical mfg.....	1	7	6	1 533	95 946	1 109	3 176	68 847	990 368	1 176 990	2 168 974	92 082
325199	All other basic organic chemical mfg.....	1	7	6	1 533	95 946	1 109	3 176	68 847	990 368	1 176 990	2 168 974	92 082
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg.....	-	12	12	5 130	291 506	3 377	7 274	178 312	1 769 524	2 167 151	3 924 920	176 524
32521	Resin & synthetic rubber mfg.....	-	12	12	5 130	291 506	3 377	7 274	178 312	1 769 524	2 167 151	3 924 920	176 524
325211	Plastics material & resin mfg.....	-	7	7	2 940	174 944	1 947	4 347	111 349	1 202 694	1 438 489	2 655 116	99 672
325212	Synthetic rubber mfg..	-	5	5	2 190	116 562	1 430	2 927	66 963	566 830	728 662	1 269 804	76 852
3253	Pesticide, fertilizer, & other agricultural chemical mfg.	-	2	1	e	D	D	D	D	D	D	D	D
32532	Pesticide & other agricultural chemical mfg.....	-	2	1	e	D	D	D	D	D	D	D	D
325320	Pesticide & other agricultural chemical mfg.....	-	2	1	e	D	D	D	D	D	D	D	D
3259	Other chemical product mfg.....	-	9	5	e	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg.....	-	9	5	e	D	D	D	D	D	D	D	D
325991	Custom compounding of purchased resin...	-	3	2	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	3	11	5	385	13 228	311	717	9 690	24 436	66 562	91 662	4 226
3261	Plastics product mfg.....	3	8	4	e	D	D	D	D	D	D	D	4 204
32611	Unsupported plastics film, sheet, & bag mfg..	2	4	4	322	11 765	270	642	8 863	21 600	61 693	83 954	3 970
331	Primary metal mfg.....	-	5	5	1 092	44 752	882	1 970	33 928	53 222	260 188	319 342	13 775
3311	Iron & steel mills & ferroalloy mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
331111	Iron & steel mills.....	-	1	1	f	D	D	D	D	D	D	D	D
3315	Foundries.....	-	4	4	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries..	-	3	3	f	D	D	D	D	D	D	D	D
331511	Iron foundries.....	-	2	2	e	D	D	D	D	D	D	D	D

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

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31-33	BEAUMONT—PORT ARTHUR, TX MSA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg	-	81	24	2 542	85 219	1 963	4 362	56 433	214 482	229 683	442 821	11 696
3321	Forging & stamping	-	5	3	343	13 617	239	541	8 954	34 052	42 833	75 205	D
33211	Forging & stamping	-	5	3	343	13 617	239	541	8 954	34 052	42 833	75 205	D
332111	Iron & steel forging ...	-	3	2	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	20	4	729	22 746	598	1 400	15 432	47 828	67 028	115 690	991
33231	Plate work & fabricated structural product mfg ..	-	8	3	478	13 590	433	1 041	10 806	33 806	56 403	90 260	D
332312	Fabricated structural metal mfg	-	6	3	e	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	-	12	1	251	9 156	165	359	4 626	14 022	10 625	25 430	D
3324	Boiler, tank, & shipping container mfg	-	5	3	e	D	D	D	D	D	D	D	D
33241	Power boiler & heat exchanger mfg	-	4	3	286	9 290	208	441	6 041	22 339	18 897	41 314	1 098
332410	Power boiler & heat exchanger mfg	-	4	3	286	9 290	208	441	6 041	22 339	18 897	41 314	1 098
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	32	2	e	D	D	D	D	D	D	D	D
33271	Machine shops	1	30	2	259	8 140	202	364	5 165	14 120	4 730	19 013	991
332710	Machine shops	1	30	2	259	8 140	202	364	5 165	14 120	4 730	19 013	991
3329	Other fabricated metal product mfg	-	14	9	735	25 351	571	1 254	16 529	79 698	72 735	152 212	3 165
33291	Metal valve mfg	-	4	3	356	13 643	262	640	8 593	44 165	44 580	88 462	2 576
33299	All other fabricated metal product mfg	1	10	6	379	11 708	309	614	7 936	35 533	28 155	63 750	589
333	Machinery mfg	1	24	8	670	23 121	468	991	13 061	78 203	40 196	110 895	2 083
334	Computer & electronic product mfg	-	3	2	f	D	D	D	D	D	D	D	D
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
334516	Analytical laboratory instrument mfg	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	19	6	825	25 127	739	1 506	19 363	61 691	42 234	103 997	1 664
3366	Ship & boat building	-	13	6	779	23 679	700	1 432	18 416	58 867	37 217	96 094	1 445
33661	Ship & boat building	-	13	6	779	23 679	700	1 432	18 416	58 867	37 217	96 094	1 445
336611	Ship building & repairing	-	11	6	f	D	D	D	D	D	D	D	D
31-33	BROWNSVILLE—HARLINGEN—SAN BENITO, TX MSA												
	Manufacturing	-	235	67	12 694	242 429	10 505	18 250	169 561	775 190	959 338	1 732 776	32 233
311	Food mfg	-	47	10	1 591	31 352	1 184	1 686	14 515	90 745	180 619	271 252	3 800
3117	Seafood product preparation & packaging ..	-	6	3	685	11 437	585	774	5 868	54 708	66 981	121 689	1 851
31171	Seafood product preparation & packaging	-	6	3	685	11 437	585	774	5 868	54 708	66 981	121 689	1 851
311712	Fresh & frozen seafood processing ..	-	6	3	685	11 437	585	774	5 868	54 708	66 981	121 689	1 851
315	Apparel mfg	-	15	10	5 377	80 750	5 170	8 963	74 719	258 878	282 863	526 750	5 333
3151	Apparel knitting mills	-	1	1	g	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills	-	1	1	g	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills	-	1	1	g	D	D	D	D	D	D	D	D

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	BROWNSVILLE—HARLINGEN—SAN BENITO, TX MSA—Con.												
31-33	Manufacturing—Con.												
315	Apparel mfg—Con.												
3152	Cut & sew apparel mfg	—	13	9	h	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	—	5	5	g	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	—	5	5	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	—	2	1	f	D	D	D	D	D	D	D	D
315234	Women's & girls' cut & sew suit, coat, skirt mfg	—	1	1	f	D	D	D	D	D	D	D	D
31529	Other cut & sew apparel mfg	—	1	1	f	D	D	D	D	D	D	D	D
315291	Infants' cut & sew apparel mfg	—	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	5	10	5	340	7 492	282	527	5 254	22 122	18 562	40 121	1 435
3261	Plastics product mfg	5	8	5	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	14	5	584	11 426	388	749	7 676	24 022	37 182	66 494	2 756
3279	Other nonmetallic mineral product mfg	1	4	2	e	D	D	D	D	D	D	D	D
32791	Abrasive product mfg	—	1	1	e	D	D	D	D	D	D	D	D
327910	Abrasive product mfg	—	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	26	10	1 432	29 318	1 086	1 981	21 866	79 924	107 889	186 221	4 016
3323	Architectural & structural metals mfg	—	5	4	992	21 469	735	1 366	16 425	62 655	98 536	160 198	3 286
33231	Plate work & fabricated structural product mfg	—	2	1	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal mfg	—	2	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	6	4	421	7 819	345	554	3 915	26 792	10 105	36 952	1 787
336	Transportation equipment mfg	—	23	7	1 753	48 232	1 198	2 264	27 290	181 198	211 412	401 991	9 025
3363	Motor vehicle parts mfg	—	8	4	940	29 805	533	1 186	12 097	142 057	166 090	307 715	8 277
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
3364	Aerospace product & parts mfg	—	2	1	e	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	2	1	e	D	D	D	D	D	D	D	D
336414	Guided missile & space vehicle mfg	—	1	1	e	D	D	D	D	D	D	D	D
3366	Ship & boat building	8	11	1	e	D	D	D	D	D	D	D	D
33661	Ship & boat building	8	11	1	e	D	D	D	D	D	D	D	D
336611	Ship building & repairing	8	7	1	e	D	D	D	D	D	D	D	D
	BRYAN—COLLEGE STATION, TX MSA												
31-33	Manufacturing	1	101	25	3 126	79 602	2 203	4 547	44 323	175 554	206 647	382 206	12 355
311	Food mfg	1	6	2	255	8 350	125	231	3 085	14 325	23 286	37 688	462
332	Fabricated metal product mfg	—	20	3	1 211	25 370	951	2 120	17 489	41 360	74 957	118 810	2 011
3323	Architectural & structural metals mfg	—	7	1	g	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	—	6	1	g	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	—	2	1	g	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	BRYAN-COLLEGE STATION, TX MSA—Con.												
	Manufacturing—Con.												
337	Furniture & related product mfg	-	8	5	530	14 663	332	616	6 034	36 411	29 718	65 989	1 356
3371	Household & institutional furniture & kitchen cabinet mfg	-	5	3	e	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet & counter top mfg	-	4	3	e	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet & counter top mfg ...	-	4	3	e	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	-	3	2	e	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	-	3	2	e	D	D	D	D	D	D	D	D
	CORPUS CHRISTI, TX MSA												
31-33	Manufacturing	4	268	73	11 435	476 947	7 847	15 955	297 102	2 912 026	8 173 597	11 223 836	377 182
311	Food mfg	-	25	7	1 249	30 589	901	2 228	17 384	48 606	298 427	346 563	2 790
3116	Meat product mfg	-	4	3	f	D	D	D	D	D	D	D	1 566
31161	Animal slaughtering & processing	-	4	3	f	D	D	D	D	D	D	D	1 566
311611	Animal (except poultry) slaughtering	-	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	3	16	3	411	7 345	237	500	3 909	18 804	19 755	38 563	1 127
31181	Bread & bakery product mfg	3	15	3	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	2	3	2	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	3	27	4	273	5 503	197	317	3 294	11 212	6 452	17 644	D
3231	Printing & related support activities	3	27	4	273	5 503	197	317	3 294	11 212	6 452	17 644	D
32311	Printing	3	26	4	e	D	D	D	D	D	D	D	D
324	Petroleum & coal products mfg	6	10	7	2 793	162 688	1 786	2 983	105 700	1 612 124	6 118 074	7 893 936	228 224
3241	Petroleum & coal products mfg	6	10	7	2 793	162 688	1 786	2 983	105 700	1 612 124	6 118 074	7 893 936	228 224
32411	Petroleum refineries	6	6	5	2 673	159 410	1 727	2 844	104 291	1 593 121	6 080 697	7 836 189	D
324110	Petroleum refineries ..	6	6	5	2 673	159 410	1 727	2 844	104 291	1 593 121	6 080 697	7 836 189	D
325	Chemical mfg	-	16	9	2 013	119 737	1 175	2 718	66 781	849 053	1 244 407	2 069 426	123 974
3251	Basic chemical mfg	-	13	7	g	D	D	D	D	D	D	D	D
32511	Petrochemical mfg	-	1	1	e	D	D	D	D	D	D	D	D
325110	Petrochemical mfg	-	1	1	e	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	-	3	2	e	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	-	2	2	g	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	-	2	2	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	26	6	263	5 532	213	389	4 421	18 122	32 030	50 344	879
331	Primary metal mfg	-	2	1	f	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing ..	-	1	1	f	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing	-	1	1	f	D	D	D	D	D	D	D	D
331311	Alumina refining	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	53	14	1 956	58 131	1 507	3 045	37 849	125 346	134 657	260 478	3 505
3323	Architectural & structural metals mfg	-	15	5	1 356	40 644	1 022	2 059	25 266	89 941	110 938	201 589	1 218
33231	Plate work & fabricated structural product mfg ..	-	9	4	g	D	D	D	D	D	D	D	293
332312	Fabricated structural metal mfg	-	5	3	958	29 802	722	1 458	18 443	64 626	81 559	146 305	D
33232	Ornamental & architectural metal products mfg	-	6	1	e	D	D	D	D	D	D	D	925
332321	Metal window & door mfg	-	1	1	e	D	D	D	D	D	D	D	D
333	Machinery mfg	4	18	6	514	14 786	369	766	10 238	47 924	32 579	73 045	D

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31-33	CORPUS CHRISTI, TX MSA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg.....	-	6	3	431	13 755	273	540	6 496	51 189	47 996	96 735	4 414
3344	Semiconductor & other electronic component mfg.....	-	3	2	e	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	-	3	2	e	D	D	D	D	D	D	D	D
334415	Electronic resistor mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	1	18	6	351	9 012	271	526	6 155	19 655	21 030	40 654	D
3366	Ship & boat building.....	1	10	4	255	6 976	200	412	4 900	16 066	17 488	33 557	D
33661	Ship & boat building.....	1	10	4	255	6 976	200	412	4 900	16 066	17 488	33 557	D
	DALLAS-FORT WORTH, TX CMSA												
31-33	Manufacturing.....	1	6 764	2 249	315 240	11 470 574	204 312	412 601	5 549 497	34 729 511	29 196 640	63 617 160	2 885 945
311	Food mfg.....	-	318	122	17 525	488 320	12 007	24 568	271 746	2 962 402	3 103 181	6 069 931	131 137
312	Beverage & tobacco product mfg.....	-	22	11	h	D	D	D	D	D	D	D	D
313	Textile mills.....	2	38	7	e	D	D	D	D	D	D	D	D
314	Textile product mills.....	1	152	46	h	D	D	D	D	D	D	D	5 487
315	Apparel mfg.....	2	323	87	8 738	175 297	6 213	10 912	99 660	586 672	409 138	986 982	15 403
316	Leather & allied product mfg.....	1	30	9	875	17 745	739	1 213	11 855	55 568	69 948	131 511	931
321	Wood product mfg.....	2	178	65	7 360	166 360	6 201	12 184	115 757	391 363	761 814	1 146 462	19 132
322	Paper mfg.....	-	142	91	8 816	292 876	6 448	14 197	183 993	797 881	1 034 825	1 825 826	64 932
323	Printing & related support activities.....	1	1 019	223	20 693	664 869	15 421	30 606	419 903	1 508 124	1 017 290	2 518 089	112 405
324	Petroleum & coal products mfg.....	4	41	15	1 407	50 442	854	1 837	27 791	190 394	289 035	482 139	D
325	Chemical mfg.....	1	319	120	13 122	517 287	7 296	15 107	194 491	2 809 788	1 946 644	4 765 557	141 605
326	Plastics & rubber products mfg.....	1	339	170	17 618	488 564	13 636	28 308	314 454	1 303 105	1 486 986	2 779 560	127 509
327	Nonmetallic mineral product mfg.....	1	278	115	10 108	301 834	8 208	17 135	226 326	1 015 620	871 068	1 886 678	121 030
331	Primary metal mfg.....	-	68	31	5 109	156 148	4 061	8 918	109 394	516 388	652 647	1 191 025	55 233
332	Fabricated metal product mfg.....	1	1 154	366	29 135	863 599	22 330	46 016	547 762	1 974 415	1 825 481	3 792 763	108 814
333	Machinery mfg.....	1	504	191	21 243	722 618	13 954	27 997	368 146	1 917 072	1 773 580	3 683 246	91 506
334	Computer & electronic product mfg.....	-	448	197	65 994	3 218 963	31 405	62 785	977 712	10 568 755	5 728 319	16 158 890	1 380 531
335	Electrical equipment, appliance, & component mfg.....	1	131	63	7 578	205 128	5 585	11 489	119 773	661 780	821 231	1 479 337	51 424
336	Transportation equipment mfg.....	-	276	117	49 258	2 338 974	27 667	56 292	1 105 865	5 300 498	5 140 292	10 292 325	323 603
337	Furniture & related product mfg.....	1	375	106	12 242	292 841	9 506	18 747	185 724	697 322	527 548	1 221 354	31 116
339	Miscellaneous mfg.....	3	609	97	10 534	287 266	7 808	14 765	159 331	690 234	589 509	1 278 025	40 001

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	DALLAS-FORT WORTH, TX CMSA—Con.												
	Dallas, TX PMSA												
31-33	Manufacturing	1	4 452	1 494	210 507	7 655 117	137 206	275 759	3 697 490	24 629 326	19 411 429	43 667 517	2 210 644
311	Food mfg.....	—	216	85	12 101	339 604	8 124	16 556	187 075	2 288 595	1 961 613	4 253 966	88 076
3112	Grain & oilseed milling	—	3	2	e	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg.....	—	13	7	601	14 609	443	956	10 383	52 041	50 824	103 376	1 628
31142	Fruit & vegetable canning, pickling, & drying.....	—	9	4	e	D	D	D	D	D	D	D	748
311421	Fruit & vegetable canning.....	—	5	4	366	9 217	275	580	6 560	35 897	32 684	69 091	D
3115	Dairy product mfg.....	1	11	7	1 476	52 110	594	1 313	16 751	156 037	389 764	545 907	17 151
31151	Dairy product (except frozen) mfg.....	2	7	4	1 126	41 241	330	823	9 975	102 850	349 074	451 786	16 199
311511	Fluid milk mfg.....	2	5	4	g	D	D	D	D	D	D	D	D
31152	Ice cream & frozen dessert mfg.....	—	4	3	350	10 869	264	490	6 776	53 187	40 690	94 121	952
311520	Ice cream & frozen dessert mfg.....	—	4	3	350	10 869	264	490	6 776	53 187	40 690	94 121	952
3116	Meat product mfg.....	1	27	19	2 968	74 370	2 436	5 201	50 936	265 531	579 008	845 809	15 854
31161	Animal slaughtering & processing.....	1	27	19	2 968	74 370	2 436	5 201	50 936	265 531	579 008	845 809	15 854
311611	Animal (except poultry) slaughtering.....	—	5	4	694	14 922	586	1 075	11 049	68 289	164 390	232 793	D
311612	Meat processed from carcasses.....	2	13	9	1 520	42 350	1 209	2 706	27 151	149 779	306 488	456 893	8 615
311615	Poultry processing....	—	5	3	f	D	D	D	D	D	D	D	1 669
3118	Bakeries & tortilla mfg.....	—	93	20	3 522	91 773	1 903	3 735	38 931	246 880	245 294	492 247	23 034
31181	Bread & bakery product mfg.....	—	76	12	2 364	65 507	979	1 787	21 783	163 455	116 501	280 116	D
311812	Commercial bakeries..	—	29	10	2 099	61 905	809	1 596	20 015	155 908	111 729	267 818	7 113
31182	Cookie, cracker, & pasta mfg.....	—	13	6	f	D	D	D	D	D	D	D	10 679
311822	Flour mixes & dough mfg from purchased flour.....	—	5	3	f	D	D	D	D	D	D	D	D
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.....	—	50	26	3 001	92 315	2 344	4 543	60 446	1 501 093	606 355	2 108 160	25 655
31191	Snack food mfg.....	—	13	6	1 261	40 346	1 033	2 135	25 587	232 627	203 853	437 277	D
311919	Other snack food mfg..	—	11	5	g	D	D	D	D	D	D	D	D
31194	Seasoning & dressing mfg.....	—	11	6	785	29 905	605	1 019	20 804	141 744	247 198	387 300	10 560
311941	Mayonnaise, dressing, & other prepared sauce mfg.....	—	4	2	e	D	D	D	D	D	D	D	D
311942	Spice & extract mfg....	—	7	4	e	D	D	D	D	D	D	D	D
31199	All other food mfg.....	2	21	12	f	D	D	D	D	D	D	D	3 126
311991	Perishable prepared food mfg.....	1	10	6	e	D	D	D	D	D	D	D	1 869
311999	All other miscellaneous food mfg.....	2	11	6	e	D	D	D	D	D	D	D	1 257
312	Beverage & tobacco product mfg.....	1	16	8	2 260	79 951	809	1 875	24 010	301 923	529 029	837 104	25 271
3121	Beverage mfg.....	1	16	8	2 260	79 951	809	1 875	24 010	301 923	529 029	837 104	25 271
31211	Soft drink & ice mfg.....	1	13	8	2 253	79 764	805	1 869	23 933	301 721	528 589	836 233	25 199
312111	Soft drink mfg.....	1	7	6	2 153	76 675	758	1 832	22 745	286 293	526 389	818 603	23 687
313	Textile mills.....	2	29	7	402	11 280	249	497	5 107	28 744	40 187	70 079	1 135
3133	Textile & fabric finishing & fabric coating mills.....	2	19	5	252	7 871	128	266	3 135	17 905	30 427	49 482	850
314	Textile product mills.....	—	107	33	3 005	54 283	2 461	4 349	36 449	134 365	146 761	272 119	3 377
3141	Textile furnishings mills....	—	58	19	2 009	35 990	1 714	2 979	25 700	94 066	116 953	201 201	2 154
31412	Curtain & linen mills.....	—	56	19	g	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills.....	1	37	7	f	D	D	D	D	D	D	D	D
314129	Other household textile product mills.....	—	19	12	1 351	22 124	1 210	2 041	17 569	74 203	91 828	156 718	1 433
3149	Other textile product mills..	1	49	14	996	18 293	747	1 370	10 749	40 299	29 808	70 918	1 223
31491	Textile bag & canvas mills.....	1	21	6	453	7 624	312	526	4 065	15 588	18 394	36 604	733
314912	Canvas & related product mills.....	—	15	3	263	5 058	173	330	2 632	11 584	14 108	28 308	569
31499	All other textile product mills.....	2	28	8	543	10 669	435	844	6 684	24 711	11 414	34 314	490
314999	All other miscellaneous textile product mills..	2	28	8	543	10 669	435	844	6 684	24 711	11 414	34 314	490

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)				
	DALLAS-FORT WORTH, TX CMSA—Con.												
	Dallas, TX PMSA—Con.												
31-33	Manufacturing—Con.												
315	Apparel mfg	2	237	73	5 665	105 104	3 941	6 871	60 816	219 179	304 197	522 513	7 192
3152	Cut & sew apparel mfg	2	193	60	4 565	84 438	3 132	5 305	48 521	164 621	261 814	425 599	5 278
31521	Cut & sew apparel contractors	5	109	20	1 305	16 455	1 210	1 945	13 966	26 315	5 979	32 261	913
315212	Women's, girls', & infants' cut & sew apparel contractors	5	107	19	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	—	8	6	253	4 129	161	298	2 127	9 586	6 164	15 410	129
31523	Women's & girls' cut & sew apparel mfg	1	64	28	2 582	58 403	1 422	2 502	28 441	119 185	239 939	358 415	3 881
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	—	3	1	e	D	D	D	D	D	D	D	D
315232	Women's & girls' cut & sew blouse & shirt mfg	1	18	8	432	9 292	306	570	5 091	19 067	42 620	61 697	425
315233	Women's & girls' cut & sew dress mfg	2	18	5	1 219	23 047	502	816	9 329	47 006	72 689	118 341	2 151
315234	Women's & girls' cut & sew suit, coat, skirt mfg	1	14	9	423	12 713	304	532	7 289	27 576	58 609	84 476	275
31529	Other cut & sew apparel mfg	3	12	6	425	5 451	339	560	3 987	9 535	9 732	19 513	355
315299	All other cut & sew apparel mfg	3	11	6	e	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg	2	40	12	g	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	2	40	12	g	D	D	D	D	D	D	D	D
315991	Hat, cap, & millinery mfg	—	10	5	642	10 781	454	871	6 602	34 594	19 180	54 180	D
315999	Other apparel accessories & other apparel mfg	6	30	7	e	D	D	D	D	D	D	D	1 279
316	Leather & allied product mfg	4	19	6	546	9 246	464	814	6 448	16 129	26 469	43 124	617
3169	Other leather & allied product mfg	2	15	3	255	4 195	219	408	2 877	8 019	6 472	14 616	D
31699	Other leather & allied product mfg	2	15	3	255	4 195	219	408	2 877	8 019	6 472	14 616	D
321	Wood product mfg	2	115	38	3 833	84 635	3 173	6 388	58 330	211 836	357 249	566 492	8 692
3212	Veneer, plywood, & engineered wood product mfg	3	12	5	609	13 494	488	832	8 314	26 751	43 425	69 640	1 133
32121	Veneer, plywood, & engineered wood product mfg	3	12	5	609	13 494	488	832	8 314	26 751	43 425	69 640	1 133
321214	Truss mfg	2	8	5	558	12 143	444	748	7 264	23 387	39 181	61 896	750
3219	Other wood product mfg	3	98	31	3 107	68 759	2 582	5 338	47 869	181 490	262 645	441 795	7 208
32191	Millwork	3	54	19	1 888	37 946	1 505	3 080	24 150	105 780	163 485	269 869	5 230
321911	Wood window & door mfg	3	25	10	1 390	28 170	1 097	2 444	17 252	86 291	145 063	231 571	4 328
321918	Other millwork (including flooring)	5	24	8	436	8 497	359	558	6 198	15 159	15 068	30 691	D
32192	Wood container & pallet mfg	4	20	6	402	7 702	350	693	5 904	15 135	18 206	33 238	917
321920	Wood container & pallet mfg	4	20	6	402	7 702	350	693	5 904	15 135	18 206	33 238	917
32199	All other wood product mfg	1	24	6	817	23 111	727	1 565	17 815	60 575	80 954	138 688	1 061
321991	Manufactured home (mobile home) mfg	—	2	2	e	D	D	D	D	D	D	D	D
322	Paper mfg	—	96	60	5 886	198 785	4 416	9 929	131 514	586 719	713 033	1 295 469	50 088
3221	Pulp, paper, & paperboard mills	—	5	4	505	22 542	307	741	13 155	71 167	82 925	155 185	8 971
32213	Paperboard mills	—	4	4	f	D	D	D	D	D	D	D	D
322130	Paperboard mills	—	4	4	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	—	91	56	5 381	176 243	4 109	9 188	118 359	515 552	630 108	1 140 284	41 117
32221	Paperboard container mfg	—	37	30	3 399	112 567	2 649	6 177	78 372	239 047	393 821	633 438	25 667
322211	Corrugated & solid fiber box mfg	1	29	25	2 098	70 914	1 557	3 337	43 257	146 928	294 234	442 476	20 716
322212	Folding paperboard box mfg	—	4	2	e	D	D	D	D	D	D	D	D
322215	Nonfolding sanitary food container mfg	—	1	1	f	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	—	22	8	628	21 631	476	1 047	14 460	151 794	126 810	278 763	4 442
32223	Stationery product mfg	—	18	11	1 060	35 487	752	1 546	20 765	107 787	94 285	196 023	9 379
322232	Envelope mfg	—	7	7	716	23 775	505	1 070	14 935	48 185	62 598	111 178	6 370

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)				
	DALLAS-FORT WORTH, TX CMSA—Con.												
	Dallas, TX PMSA—Con.												
31-33	Manufacturing—Con.												
322	Paper mfg—Con.												
3222	Converted paper product mfg—Con.												
32229	Other converted paper product mfg	1	14	7	294	6 558	232	418	4 762	16 924	15 192	32 060	1 629
322299	All other converted paper product mfg	1	11	7	287	6 409	226	411	4 644	16 129	14 235	30 307	1 550
323	Printing & related support activities	1	750	160	15 049	503 976	11 220	22 231	317 375	1 163 968	800 287	1 960 729	87 110
3231	Printing & related support activities	1	750	160	15 049	503 976	11 220	22 231	317 375	1 163 968	800 287	1 960 729	87 110
32311	Printing	1	663	132	13 102	424 783	9 865	19 544	273 546	1 021 263	767 751	1 785 858	77 123
323110	Commercial lithographic printing	2	313	73	7 492	266 025	5 675	11 747	173 797	553 195	438 795	993 206	54 267
323112	Commercial flexographic printing	—	23	11	855	29 764	606	1 134	17 277	71 917	48 152	118 788	3 979
323113	Commercial screen printing	3	60	10	835	17 973	624	1 093	10 226	36 588	28 231	64 315	1 728
323114	Quick printing	2	155	7	879	22 137	613	1 051	13 992	49 643	27 931	77 502	2 937
323116	Manifold business form printing	—	22	15	1 945	55 178	1 527	2 983	38 711	242 427	177 731	417 517	7 530
323119	Other commercial printing	5	61	8	528	14 070	387	687	8 143	28 943	24 073	52 984	1 477
32312	Support activities for printing	2	87	28	1 947	79 193	1 355	2 687	43 829	142 705	32 536	174 871	9 987
323121	Tradebinding & related work	2	29	11	553	14 791	454	932	10 735	24 924	4 719	29 655	876
323122	Prepress services	1	58	17	1 394	64 402	901	1 755	33 094	117 781	27 817	145 216	9 111
324	Petroleum & coal products mfg	4	22	10	878	33 624	629	1 418	21 141	131 562	236 767	373 177	10 824
3241	Petroleum & coal products mfg	4	22	10	878	33 624	629	1 418	21 141	131 562	236 767	373 177	10 824
32412	Asphalt paving, roofing, & saturated materials mfg	4	15	6	693	27 129	535	1 248	18 834	111 758	208 470	324 810	9 621
324122	Asphalt shingle & coating materials mfg	4	12	6	679	26 671	526	1 230	18 599	110 332	205 446	320 293	D
325	Chemical mfg	1	196	80	7 643	249 779	4 747	10 103	123 189	1 830 365	1 374 974	3 205 863	94 376
3251	Basic chemical mfg	2	29	13	625	23 907	374	882	12 449	134 610	65 769	192 213	26 754
32518	Other basic inorganic chemical mfg	2	13	7	371	14 101	241	609	8 128	49 834	39 488	87 822	6 749
325188	All other basic inorganic chemical mfg	2	12	7	e	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	3	6	3	548	15 424	395	924	8 556	41 250	121 404	164 208	9 670
32521	Resin & synthetic rubber mfg	3	6	3	548	15 424	395	924	8 556	41 250	121 404	164 208	9 670
325211	Plastics material & resin mfg	3	5	3	f	D	D	D	D	D	D	D	D
3253	Pesticide, fertilizer, & other agricultural chemical mfg	8	9	2	282	7 984	175	469	4 339	59 209	31 342	89 995	D
32532	Pesticide & other agricultural chemical mfg	8	7	2	e	D	D	D	D	D	D	D	D
325320	Pesticide & other agricultural chemical mfg	8	7	2	e	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	—	41	19	1 988	65 422	1 077	2 567	29 814	410 352	524 199	924 830	22 378
32551	Paint & coating mfg	—	24	10	1 477	45 858	800	1 913	23 031	316 359	444 956	752 400	12 278
325510	Paint & coating mfg	—	24	10	1 477	45 858	800	1 913	23 031	316 359	444 956	752 400	12 278
32552	Adhesive mfg	—	17	9	511	19 564	277	654	6 783	93 993	79 243	172 430	10 100
325520	Adhesive mfg	—	17	9	511	19 564	277	654	6 783	93 993	79 243	172 430	10 100
3256	Soap, cleaning compound, & toilet preparation mfg	—	53	21	2 606	85 136	1 734	3 330	41 749	968 226	434 917	1 420 268	19 364
32561	Soap & cleaning compound mfg	1	28	8	757	25 178	462	958	11 678	205 595	97 256	304 330	5 088
325611	Soap & other detergent mfg	1	19	6	580	18 411	366	739	9 272	185 045	73 788	259 069	3 998
32562	Toilet preparation mfg	—	25	13	1 849	59 958	1 272	2 372	30 071	762 631	337 661	1 115 938	14 276
325620	Toilet preparation mfg	—	25	13	1 849	59 958	1 272	2 372	30 071	762 631	337 661	1 115 938	14 276

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
DALLAS—FORT WORTH, TX CMSA—Con.													
Dallas, TX PMSA—Con.													
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3335	Metalworking machinery mfg	7	47	8	683	23 971	488	1 001	15 291	46 469	26 455	70 398	2 574
33351	Metalworking machinery mfg	7	47	8	683	23 971	488	1 001	15 291	46 469	26 455	70 398	2 574
333514	Special die & tool, die set, jig, & fixture mfg .	4	27	4	263	9 955	200	352	6 833	17 318	7 194	24 069	1 289
333518	Other metalworking machinery mfg	9	3	2	266	8 851	164	389	4 635	19 743	15 074	32 980	D
3339	Other general-purpose machinery mfg	—	69	27	2 909	112 245	1 918	4 012	56 128	313 896	293 251	599 595	14 340
33391	Pump & compressor mfg	—	7	2	290	8 482	158	307	3 690	38 103	35 147	68 353	3 669
33392	Material handling equipment mfg	—	19	9	1 066	47 686	595	1 542	18 563	95 976	162 937	257 552	4 942
333922	Conveyor & conveying equipment mfg	—	6	3	498	26 160	181	401	5 751	43 208	44 219	86 964	1 665
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	—	7	3	313	11 661	221	510	6 852	23 841	33 596	58 265	D
33399	All other general-purpose machinery mfg	—	43	16	1 553	56 077	1 165	2 163	33 875	179 817	95 167	273 690	5 729
333992	Welding & soldering equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg	1	22	7	361	13 780	264	559	8 507	33 778	30 912	64 610	1 883
334	Computer & electronic product mfg	—	358	166	57 474	2 855 309	25 888	50 487	776 715	9 439 759	4 830 376	14 124 066	1 297 328
3341	Computer & peripheral equipment mfg	4	30	7	1 190	90 859	542	750	28 597	295 250	186 452	421 637	D
33411	Computer & peripheral equipment mfg	4	30	7	1 190	90 859	542	750	28 597	295 250	186 452	421 637	D
334111	Electronic computer mfg	5	10	2	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	1	17	5	e	D	D	D	D	D	D	D	4 435
3342	Communications equipment mfg	—	66	32	13 960	668 663	5 751	10 861	182 984	3 188 839	1 938 559	5 063 626	182 451
33421	Telephone apparatus mfg	—	27	15	7 215	412 396	3 043	6 227	115 906	1 827 505	841 941	2 623 592	48 810
334210	Telephone apparatus mfg	—	27	15	7 215	412 396	3 043	6 227	115 906	1 827 505	841 941	2 623 592	48 810
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	32	15	6 638	253 227	2 629	4 491	65 539	1 355 613	1 088 724	2 426 454	133 230
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	32	15	6 638	253 227	2 629	4 491	65 539	1 355 613	1 088 724	2 426 454	133 230
3343	Audio & video equipment mfg	—	7	4	479	10 279	400	813	7 127	38 555	40 711	76 577	D
33431	Audio & video equipment mfg	—	7	4	479	10 279	400	813	7 127	38 555	40 711	76 577	D
334310	Audio & video equipment mfg	—	7	4	479	10 279	400	813	7 127	38 555	40 711	76 577	D
3344	Semiconductor & other electronic component mfg	—	159	80	21 494	1 077 484	11 303	22 404	282 124	3 690 973	1 479 777	5 088 404	957 187
33441	Semiconductor & other electronic component mfg	—	159	80	21 494	1 077 484	11 303	22 404	282 124	3 690 973	1 479 777	5 088 404	957 187
334412	Bare printed circuit board mfg	—	43	19	1 807	58 206	1 470	2 968	45 253	67 963	91 260	158 590	9 718
334413	Semiconductor & related device mfg ...	—	39	21	13 837	825 134	6 028	12 646	148 475	3 177 729	812 461	3 927 911	913 574
334416	Electronic coil, transformer, & other inductor mfg	1	8	6	268	7 857	166	343	3 137	16 840	7 279	24 085	351
334417	Electronic connector mfg	—	3	2	e	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	—	24	20	2 959	96 827	1 821	2 883	35 987	292 306	403 655	677 736	19 753
334419	Other electronic component mfg	1	37	12	2 198	77 410	1 469	3 005	42 466	111 911	144 420	255 097	11 260

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
31-33	DALLAS-FORT WORTH, TX CMSA—Con.													
	Dallas, TX PMSA—Con.													
	31-33													
	334													
	3345													
	33451		74	35	18 882	930 294	6 710	13 106	223 591	1 974 787	1 054 889	3 092 206	93 886	
	334510		74	35	18 882	930 294	6 710	13 106	223 591	1 974 787	1 054 889	3 092 206	93 886	
	334511		6	2	397	18 777	66	147	3 100	39 252	28 720	70 308	2 815	
	334512		13	8	j	D	D	D	D	D	D	D	D	
	334513		5	2	350	17 166	253	607	9 716	9 787	27 060	38 861	D	
	334515		19	9	930	46 236	414	920	11 615	57 873	60 778	115 187	4 159	
	334516		15	7	517	20 873	221	388	5 060	45 747	22 875	67 543	1 495	
	3346		3	3	g	D	D	D	D	D	D	D	D	
	33461		22	8	1 469	77 730	1 182	2 553	52 292	251 355	129 988	381 616	40 487	
	334611		22	8	1 469	77 730	1 182	2 553	52 292	251 355	129 988	381 616	40 487	
	334612		5	3	f	D	D	D	D	D	D	D	D	
	334612		13	4	f	D	D	D	D	D	D	D	D	
	335		100	52	5 131	147 732	3 851	8 520	87 452	453 000	687 938	1 144 679	42 846	
	3351		3	20	13	689	17 922	493	1 056	9 307	40 437	42 159	83 890	D
	33512		3	20	13	689	17 922	493	1 056	9 307	40 437	42 159	83 890	D
	335121		1	10	6	339	7 577	250	483	3 736	15 043	13 862	30 035	179
	335129		4	7	6	307	9 311	213	517	4 926	23 101	26 079	49 325	1 009
	3353		1	35	12	1 149	35 546	772	1 613	18 684	71 722	74 305	145 857	3 317
33531		1	35	12	1 149	35 546	772	1 613	18 684	71 722	74 305	145 857	3 317	
335313			10	2	308	10 599	208	430	6 308	30 343	34 584	65 227	668	
335314		1	15	6	654	19 449	409	850	8 347	31 712	31 209	62 288	2 277	
3359		42	25	3 044	88 431	2 381	5 395	56 086	319 578	555 339	876 646	37 361		
33591		5	3	452	16 095	392	961	12 551	65 059	48 923	115 002	1 582		
335911		4	3	e	D	D	D	D	D	D	D	D		
33592		9	9	1 755	44 020	1 359	3 180	28 817	198 885	453 141	651 593	31 382		
335921		2	2	f	D	D	D	D	D	D	D	D		
335929		7	7	g	D	D	D	D	D	D	D	D		
33599		6	21	9	595	20 942	446	906	10 444	42 694	32 452	75 649	3 163	
335999		7	20	8	f	D	D	D	D	D	D	D		
336		137	59	21 393	945 330	14 300	27 063	587 563	2 303 996	2 267 638	4 361 499	113 236		
3361		3	1	f	D	D	D	D	D	D	D	D		
33612		1	1	f	D	D	D	D	D	D	D	D		
336120		1	1	f	D	D	D	D	D	D	D	D		
3362		8	12	3	257	7 959	207	386	5 709	18 569	29 827	50 373	1 555	
33621		8	12	3	257	7 959	207	386	5 709	18 569	29 827	50 373	1 555	

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)				
	DALLAS-FORT WORTH, TX CMSA—Con.												
	Dallas, TX PMSA—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3363	Motor vehicle parts mfg ...	1	74	34	4 583	116 524	3 485	7 113	71 363	323 342	467 482	799 354	21 611
33631	Motor vehicle gasoline engine & engine parts mfg	—	14	3	612	20 223	478	990	14 103	55 575	75 802	130 458	5 402
336312	Gasoline engine & engine parts mfg	—	13	3	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	1	19	13	1 551	38 161	1 133	2 235	19 962	93 783	73 460	165 914	5 787
336321	Vehicular lighting equipment mfg	—	3	2	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	3	16	11	g	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	—	4	4	558	15 282	444	798	9 280	36 521	22 720	59 663	3 069
336340	Motor vehicle brake system mfg	—	4	4	558	15 282	444	798	9 280	36 521	22 720	59 663	3 069
33639	Other motor vehicle parts mfg	—	22	8	1 519	36 219	1 146	2 681	23 655	124 887	278 217	413 497	5 799
336391	Motor vehicle air-conditioning mfg	—	4	3	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	4	18	5	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	—	37	16	14 948	754 791	9 124	16 752	452 126	1 740 562	1 099 404	2 615 784	72 675
33641	Aerospace product & parts mfg	—	37	16	14 948	754 791	9 124	16 752	452 126	1 740 562	1 099 404	2 615 784	72 675
336411	Aircraft mfg	—	7	5	h	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg	—	6	4	1 603	51 386	1 014	1 984	31 170	149 116	284 470	389 056	17 649
336413	Other aircraft part & auxiliary equipment mfg	—	21	4	i	D	D	D	D	D	D	D	25 772
336414	Guided missile & space vehicle mfg ...	—	1	1	h	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	—	3	3	e	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	—	3	3	e	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	—	3	3	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	230	66	8 662	206 026	6 730	13 602	129 939	507 028	362 694	868 269	24 385
3371	Household & institutional furniture & kitchen cabinet mfg	1	167	36	5 172	107 824	4 067	7 946	73 929	258 559	205 190	463 483	12 898
33711	Wood kitchen cabinet & counter top mfg	—	81	21	3 570	70 710	2 781	5 528	47 212	188 120	124 651	311 804	9 651
337110	Wood kitchen cabinet & counter top mfg ...	—	81	21	3 570	70 710	2 781	5 528	47 212	188 120	124 651	311 804	9 651
33712	Household & institutional furniture mfg	3	86	15	1 602	37 114	1 286	2 418	26 717	70 439	80 539	151 679	3 247
337121	Upholstered household furniture mfg	2	25	5	818	19 047	647	1 226	13 509	35 795	44 200	80 984	1 588
337122	Nonupholstered wood household furniture mfg	7	45	4	364	7 669	315	581	5 663	12 235	11 161	23 193	735
3372	Office furniture (including fixtures) mfg	2	49	24	2 788	78 460	2 195	4 294	45 249	187 935	91 930	278 555	10 216
33721	Office furniture (including fixtures) mfg	2	49	24	2 788	78 460	2 195	4 294	45 249	187 935	91 930	278 555	10 216
337212	Custom architectural woodwork & millwork mfg	4	14	5	267	10 511	195	388	6 091	18 751	12 134	30 683	1 075
337215	Showcase, partition, shelving, & locker mfg	1	28	14	2 214	60 312	1 749	3 476	33 729	139 430	55 455	193 571	7 912
3379	Other furniture related product mfg	—	14	6	702	19 742	468	1 362	10 761	60 534	65 574	126 231	1 271
33792	Blind & shade mfg	—	7	4	458	10 895	289	965	6 667	26 034	37 615	63 886	504
337920	Blind & shade mfg	—	7	4	458	10 895	289	965	6 667	26 034	37 615	63 886	504

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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	DALLAS-FORT WORTH, TX CMSA—Con. Fort Worth-Arlington, TX PMSA—Con. Manufacturing—Con.												
325	Chemical mfg	1	123	40	5 479	267 508	2 549	5 004	71 302	979 423	571 670	1 559 694	47 229
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	3	6	3	356	17 913	153	354	5 801	67 153	140 530	206 292	4 360
32521	Resin & synthetic rubber mfg	3	6	3	356	17 913	153	354	5 801	67 153	140 530	206 292	4 360
325212	Synthetic rubber mfg ..	-	2	1	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg	1	13	4	h	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	1	13	4	h	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	-	7	3	h	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	2	20	7	539	16 274	315	535	9 309	53 156	80 235	135 636	2 140
32551	Paint & coating mfg	-	9	2	e	D	D	D	D	D	D	D	479
325510	Paint & coating mfg ..	-	9	2	e	D	D	D	D	D	D	D	479
3256	Soap, cleaning compound, & toilet preparation mfg ..	2	23	4	285	7 875	161	315	4 281	34 405	29 398	62 922	973
32561	Soap & cleaning compound mfg	2	21	4	e	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	2	54	19	1 392	44 075	941	1 710	22 041	136 641	158 082	297 468	9 897
32592	Explosives mfg	-	4	3	310	14 682	216	473	6 104	35 240	32 912	69 214	D
325920	Explosives mfg	-	4	3	310	14 682	216	473	6 104	35 240	32 912	69 214	D
32599	All other chemical product & preparation mfg	2	41	13	930	24 379	626	1 052	12 860	79 544	94 109	174 207	7 749
325991	Custom compounding of purchased resin ...	1	20	7	484	11 738	364	606	7 705	41 562	66 268	107 872	5 037
325998	All other miscellaneous chemical product & preparation mfg	2	14	4	316	8 687	173	283	2 933	28 102	18 602	46 879	D
326	Plastics & rubber products mfg	2	129	72	7 056	188 272	5 073	10 224	112 683	461 922	489 794	952 472	50 173
3261	Plastics product mfg	2	102	63	5 943	148 888	4 396	8 933	98 954	379 383	446 834	828 745	43 175
32611	Unsupported plastics film, sheet, & bag mfg ..	-	7	5	360	12 583	239	622	7 580	28 324	81 920	113 887	3 241
32613	Laminated plastics plate, sheet, & shape mfg	1	4	1	260	7 702	173	435	4 508	17 201	9 972	26 677	523
326130	Laminated plastics plate, sheet, & shape mfg	1	4	1	260	7 702	173	435	4 508	17 201	9 972	26 677	523
32615	Urethane & other foam product (except polystyrene) mfg	3	8	4	362	8 425	306	583	6 088	24 926	33 824	58 879	2 586
326150	Urethane & other foam product (except polystyrene) mfg	3	8	4	362	8 425	306	583	6 088	24 926	33 824	58 879	2 586
32616	Plastics bottle mfg	5	5	5	265	7 929	229	497	6 095	26 817	31 718	57 773	2 647
326160	Plastics bottle mfg	5	5	5	265	7 929	229	497	6 095	26 817	31 718	57 773	2 647
32619	Other plastics product mfg	1	69	40	4 378	103 575	3 200	6 343	69 400	258 325	242 923	501 482	32 362
326199	All other plastics product mfg	1	62	35	4 201	100 393	3 053	6 041	66 902	249 024	237 194	486 542	32 076
3262	Rubber product mfg	-	27	9	1 113	39 384	677	1 291	13 729	82 539	42 960	123 727	6 998
32629	Other rubber product mfg	-	23	9	1 075	38 416	656	1 245	13 155	78 760	40 976	117 963	6 812
326291	Rubber product mfg for mechanical use	-	9	3	489	9 488	432	809	7 207	25 883	21 014	47 361	953
326299	All other rubber product mfg	-	14	6	586	28 928	224	436	5 948	52 877	19 962	70 602	5 859
327	Nonmetallic mineral product mfg	2	101	37	2 866	85 647	2 211	4 702	62 177	236 822	237 874	470 998	42 119
3271	Clay product & refractory mfg	2	11	5	397	7 780	286	506	5 345	17 953	9 775	27 463	1 126
32712	Clay building material & refractories mfg	2	5	4	331	6 704	227	408	4 542	15 435	8 421	23 808	1 088
3273	Cement & concrete product mfg	3	55	20	1 367	40 423	1 057	2 305	28 243	110 146	131 749	239 314	10 458
32732	Ready-mix concrete mfg ..	4	32	11	736	23 685	581	1 358	17 303	67 248	94 019	161 865	7 369
327320	Ready-mix concrete mfg	4	32	11	736	23 685	581	1 358	17 303	67 248	94 019	161 865	7 369
32733	Concrete pipe, brick, & block mfg	-	5	4	e	D	D	D	D	D	D	D	D
32739	Other concrete product mfg	4	17	5	354	8 589	271	553	5 861	18 914	11 267	29 448	D
327390	Other concrete product mfg	4	17	5	354	8 589	271	553	5 861	18 914	11 267	29 448	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	DALLAS—FORT WORTH, TX CMSA—Con.												
	Fort Worth—Arlington, TX PMSA—Con.												
31-33	Manufacturing—Con.												
327	Nonmetallic mineral product mfg—Con.												
3274	Lime & gypsum product mfg	—	4	4	282	7 228	222	528	4 912	25 765	20 806	46 554	D
3279	Other nonmetallic mineral product mfg	2	17	4	630	23 886	516	1 108	19 670	65 440	59 910	124 587	27 280
32799	All other nonmetallic mineral product mfg ...	1	15	4	f	D	D	D	D	D	D	D	D
327993	Mineral wool mfg	—	2	1	e	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	23	12	1 150	34 068	940	1 892	24 853	60 838	53 394	114 776	4 347
3315	Foundries	—	17	10	989	29 612	806	1 567	21 524	49 606	28 977	78 380	3 543
33151	Ferrous metal foundries .	—	5	3	689	21 659	567	1 125	16 152	33 019	20 470	53 034	D
331513	Steel foundries (except investment)	—	2	1	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	2	12	7	300	7 953	239	442	5 372	16 587	8 507	25 346	D
332	Fabricated metal product mfg	1	467	140	9 746	294 932	7 436	15 026	188 029	685 207	685 738	1 372 852	37 216
3321	Forging & stamping	—	21	17	1 100	30 967	870	1 829	22 327	74 782	66 595	141 693	4 364
33211	Forging & stamping	—	21	17	1 100	30 967	870	1 829	22 327	74 782	66 595	141 693	4 364
332111	Iron & steel forging	—	4	3	339	11 893	271	673	9 254	26 809	20 467	47 791	D
332116	Metal stamping	1	14	12	612	14 897	493	950	10 158	33 919	23 919	57 796	2 312
3322	Cutlery & handtool mfg	—	8	3	355	10 215	270	559	6 652	23 187	14 151	38 458	1 030
33221	Cutlery & handtool mfg ..	—	8	3	355	10 215	270	559	6 652	23 187	14 151	38 458	1 030
3323	Architectural & structural metals mfg	—	106	35	2 494	72 804	1 883	4 045	45 598	203 288	191 812	394 006	8 831
33231	Plate work & fabricated structural product mfg ..	1	46	16	1 060	29 469	796	1 793	19 382	80 502	84 910	165 174	2 892
332312	Fabricated structural metal mfg	1	26	9	609	16 815	441	958	10 571	50 712	50 305	101 032	2 134
332313	Plate work mfg	1	12	4	293	8 458	236	556	5 999	18 844	16 728	35 147	488
33232	Ornamental & architectural metal products mfg	—	60	19	1 434	43 335	1 087	2 252	26 216	122 786	106 902	228 832	5 939
332322	Sheet metal work mfg .	—	35	14	1 062	32 766	792	1 674	19 514	92 271	81 927	173 317	5 130
3324	Boiler, tank, & shipping container mfg	1	13	3	365	15 656	274	619	10 916	33 922	110 057	142 392	2 976
3326	Spring & wire product mfg .	1	12	5	309	8 009	245	450	5 583	20 590	16 272	36 892	943
33261	Spring & wire product mfg	1	12	5	309	8 009	245	450	5 583	20 590	16 272	36 892	943
332618	Other fabricated wire product mfg	2	9	4	e	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	192	36	2 497	77 882	1 908	3 467	49 737	155 196	118 431	269 376	10 254
33271	Machine shops	1	166	24	1 952	60 859	1 480	2 699	38 448	123 437	95 409	214 597	6 728
332710	Machine shops	1	166	24	1 952	60 859	1 480	2 699	38 448	123 437	95 409	214 597	6 728
33272	Turned product & screw, nut, & bolt mfg	4	26	12	545	17 023	428	768	11 289	31 759	23 022	54 779	3 526
332721	Precision turned product mfg	3	20	7	343	11 799	276	528	7 790	25 906	14 821	40 739	2 256
3328	Coating, engraving, heat treating, & allied activities .	—	45	13	754	21 412	599	1 223	14 020	35 198	18 317	66 496	2 820
33281	Coating, engraving, heat treating, & allied activities	—	45	13	754	21 412	599	1 223	14 020	35 198	18 317	66 496	2 820
332813	Electroplating, plating, polishing, anodizing, & coloring	—	23	5	365	10 157	275	542	6 059	20 092	6 876	26 927	1 178
3329	Other fabricated metal product mfg	—	58	23	1 634	51 193	1 196	2 440	28 981	122 718	137 826	254 748	5 492
33291	Metal valve mfg	—	11	9	659	22 712	443	961	12 845	66 807	48 488	112 023	2 642
332912	Fluid power valve & hose fitting mfg	—	4	3	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	—	47	14	975	28 481	753	1 479	16 136	55 911	89 338	142 725	2 850
332996	Fabricated pipe & pipe fitting mfg	—	8	5	e	D	D	D	D	D	D	D	906
332999	All other miscellaneous fabricated metal product mfg	—	27	7	554	15 418	447	846	9 130	29 978	50 062	79 333	1 788

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	DALLAS-FORT WORTH, TX CMSA—Con.												
	Fort Worth-Arlington, TX PMSA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg	—	215	88	9 446	308 867	6 078	12 340	151 596	764 657	766 311	1 536 924	44 109
3331	Agriculture, construction, & mining machinery mfg.	—	33	15	1 955	72 234	1 574	2 790	42 067	166 100	261 022	419 667	11 415
33313	Mining & oil & gas field machinery mfg.	—	22	11	1 744	65 530	1 427	2 525	38 688	146 014	242 330	381 630	10 755
333132	Oil & gas field machinery & equipment mfg.	—	20	11	g	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg. ..	2	39	11	881	32 378	568	1 242	16 983	69 375	38 153	104 602	2 005
33329	Other industrial machinery mfg.	1	30	9	801	30 211	513	1 156	15 904	65 144	34 265	96 529	1 744
333293	Printing machinery & equipment mfg.	2	12	4	403	16 087	252	543	7 977	40 435	15 622	55 527	1 012
3333	Commercial & service industry machinery mfg. ..	—	20	8	1 559	52 542	364	737	8 803	226 047	117 410	364 396	11 427
33331	Commercial & service industry machinery mfg.	—	20	8	1 559	52 542	364	737	8 803	226 047	117 410	364 396	11 427
333313	Office machinery mfg. .	—	2	1	g	D	D	D	D	D	D	D	D
333319	Other commercial & service industry machinery mfg.	—	14	6	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.	1	28	13	1 700	50 689	1 208	2 482	28 016	84 853	142 980	228 123	8 154
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg. .	1	28	13	1 700	50 689	1 208	2 482	28 016	84 853	142 980	228 123	8 154
333415	AC & warm air heating & commercial/ industrial refrig equip mfg.	1	19	12	1 428	42 007	1 045	2 075	24 255	66 935	132 001	199 250	D
3335	Metalworking machinery mfg.	1	37	8	341	11 221	233	438	7 125	21 775	8 956	30 343	1 118
33351	Metalworking machinery mfg.	1	37	8	341	11 221	233	438	7 125	21 775	8 956	30 343	1 118
3336	Engine, turbine, & power transmission equipment mfg.	—	6	5	926	25 722	746	1 821	15 902	50 196	44 227	95 215	2 977
33361	Engine, turbine, & power transmission equipment mfg.	—	6	5	926	25 722	746	1 821	15 902	50 196	44 227	95 215	2 977
333613	Mechanical power transmission equipment mfg.	—	3	3	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg.	1	52	28	2 084	64 081	1 385	2 830	32 700	146 311	153 563	294 578	7 013
33391	Pump & compressor mfg.	—	4	2	e	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg.	—	3	1	e	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg.	1	30	17	1 199	35 229	855	1 921	19 453	58 635	103 685	159 954	3 730
333921	Elevator & moving stairway mfg.	1	7	6	e	D	D	D	D	D	D	D	D
333922	Conveyor & conveying equipment mfg.	—	16	9	752	20 882	527	1 227	11 241	32 567	67 841	98 085	1 711
33399	All other general-purpose machinery mfg.	2	18	9	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.	2	90	31	8 520	363 654	5 517	12 298	200 997	1 128 996	897 943	2 034 824	83 203
3341	Computer & peripheral equipment mfg.	—	14	4	f	D	D	D	D	D	D	D	5 423
33411	Computer & peripheral equipment mfg.	—	14	4	f	D	D	D	D	D	D	D	5 423
334111	Electronic computer mfg.	—	3	2	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg.	4	11	5	4 020	192 961	2 126	5 370	87 456	505 167	413 411	916 543	45 139
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
33422	Radio & TV broadcasting & wireless communications equipment mfg.	5	5	3	h	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg.	5	5	3	h	D	D	D	D	D	D	D	D

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

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	DALLAS-FORT WORTH, TX CMSA—Con.												
	Fort Worth-Arlington, TX PMSA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg	-	30	11	2 626	106 354	2 089	4 359	76 516	224 018	154 707	385 965	28 994
33441	Semiconductor & other electronic component mfg	-	30	11	2 626	106 354	2 089	4 359	76 516	224 018	154 707	385 965	28 994
334413	Semiconductor & related device mfg ...	-	4	1	g	D	D	D	D	D	D	D	D
334417	Electronic connector mfg	-	1	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	1	32	11	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	1	32	11	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	1	10	6	641	25 174	327	535	10 246	85 364	34 902	123 919	D
335	Electrical equipment, appliance, & component mfg	1	31	11	2 447	57 396	1 734	2 969	32 321	208 780	133 293	334 658	8 578
3352	Household appliance mfg..	-	2	2	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg	-	2	2	f	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg ...	-	2	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	1	13	4	688	18 190	510	980	11 449	48 189	56 308	104 873	2 154
33531	Electrical equipment mfg	1	13	4	688	18 190	510	980	11 449	48 189	56 308	104 873	2 154
335313	Switchgear & switchboard apparatus mfg	-	3	1	e	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	1	12	5	1 128	26 382	701	1 388	12 829	52 927	36 695	86 339	D
33592	Communication & energy wire & cable mfg	-	1	1	f	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
33593	Wiring device mfg	3	7	3	456	12 048	136	217	2 560	20 847	4 344	23 334	402
335931	Current-carrying wiring device mfg	3	5	2	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	139	58	27 865	1 393 644	13 367	29 229	518 302	2 996 502	2 872 654	5 930 826	210 367
3361	Motor vehicle mfg	-	4	1	g	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	4	1	g	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	-	2	1	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	1	30	14	1 462	38 288	1 164	2 441	24 934	86 489	130 694	214 971	D
33621	Motor vehicle body & trailer mfg	1	30	14	1 462	38 288	1 164	2 441	24 934	86 489	130 694	214 971	D
336211	Motor vehicle body mfg	3	7	4	e	D	D	D	D	D	D	D	D
336212	Truck trailer mfg	1	10	5	471	14 523	369	865	8 855	42 985	50 029	89 728	D
336213	Motor home mfg	-	1	1	e	D	D	D	D	D	D	D	D
336214	Travel trailer & camper mfg	3	12	4	379	9 435	312	580	6 405	17 404	34 064	52 380	D
3363	Motor vehicle parts mfg ...	1	51	22	2 585	68 378	1 717	3 672	32 623	187 375	234 528	435 861	13 519
33632	Motor vehicle electrical & electronic equipment mfg	-	10	4	407	11 466	217	482	4 470	25 948	22 959	49 588	1 739
336322	Other motor vehicle electrical & electronic equipment mfg	1	9	3	e	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	1	8	3	358	7 165	286	639	4 821	16 663	23 170	38 019	722
336350	Motor vehicle transmission & power train parts mfg	1	8	3	358	7 165	286	639	4 821	16 663	23 170	38 019	722
33639	Other motor vehicle parts mfg	1	16	8	1 432	40 371	868	1 942	17 750	122 378	151 753	290 574	4 445
336391	Motor vehicle air-conditioning mfg	-	7	5	g	D	D	D	D	D	D	D	D

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	DALLAS-FORT WORTH, TX CMSA—Con.												
	Fort Worth-Arlington, TX PMSA—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3364	Aerospace product & parts mfg	—	37	15	20 334	1 140 250	7 398	16 946	340 734	2 336 185	1 751 686	4 141 175	95 361
33641	Aerospace product & parts mfg	—	37	15	20 334	1 140 250	7 398	16 946	340 734	2 336 185	1 751 686	4 141 175	95 361
336411	Aircraft mfg	—	9	3	j	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg	8	7	5	554	15 223	375	780	8 196	45 930	30 779	74 134	1 662
336413	Other aircraft part & auxiliary equipment mfg	—	20	7	g	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	—	6	5	g	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	—	6	5	g	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	—	6	5	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	145	40	3 580	86 815	2 776	5 145	55 785	190 294	164 854	353 085	6 731
3371	Household & institutional furniture & kitchen cabinet mfg	2	94	19	1 527	31 010	1 265	2 310	22 474	63 251	57 435	120 157	2 009
33711	Wood kitchen cabinet & counter top mfg	2	62	10	868	19 069	722	1 383	13 783	40 303	29 543	69 671	1 291
337110	Wood kitchen cabinet & counter top mfg ...	2	62	10	868	19 069	722	1 383	13 783	40 303	29 543	69 671	1 291
33712	Household & institutional furniture mfg	2	32	9	659	11 941	543	927	8 691	22 948	27 892	50 486	718
337127	Institutional furniture mfg	1	12	6	373	6 934	290	480	4 737	12 451	19 337	31 648	317
3372	Office furniture (including fixtures) mfg	2	40	16	1 579	46 755	1 123	2 130	26 597	100 557	77 951	177 315	3 622
33721	Office furniture (including fixtures) mfg	2	40	16	1 579	46 755	1 123	2 130	26 597	100 557	77 951	177 315	3 622
337211	Wood office furniture mfg	—	6	2	e	D	D	D	D	D	D	D	D
337212	Custom architectural woodwork & millwork mfg	1	11	7	332	9 093	240	359	4 286	14 195	5 793	20 206	801
337215	Showcase, partition, shelving, & locker mfg	5	18	7	771	21 859	562	1 205	13 969	42 834	47 274	89 952	2 188
3379	Other furniture related product mfg	—	11	5	474	9 050	388	705	6 714	26 486	29 468	55 613	1 100
33791	Mattress mfg	1	8	2	258	5 553	218	361	4 332	18 265	22 290	40 149	937
337910	Mattress mfg	1	8	2	258	5 553	218	361	4 332	18 265	22 290	40 149	937
339	Miscellaneous mfg	3	193	30	2 904	77 790	2 055	3 899	41 708	195 230	193 943	394 906	10 038
3391	Medical equipment & supplies mfg	5	68	10	971	31 458	671	1 247	16 051	66 515	52 637	123 528	4 774
33911	Medical equipment & supplies mfg	5	68	10	971	31 458	671	1 247	16 051	66 515	52 637	123 528	4 774
339112	Surgical & medical instrument mfg	8	9	3	279	14 976	162	372	5 780	41 355	17 411	58 710	2 947
339113	Surgical appliance & supplies mfg	—	11	5	404	9 409	300	505	5 605	9 981	29 376	43 568	1 376
3399	Other miscellaneous mfg ..	2	125	20	1 933	46 332	1 384	2 652	25 657	128 715	141 306	271 378	5 264
33992	Sporting & athletic goods mfg	—	15	3	448	7 970	384	711	5 421	29 690	46 659	79 580	1 376
339920	Sporting & athletic goods mfg	—	15	3	448	7 970	384	711	5 421	29 690	46 659	79 580	1 376
33995	Sign mfg	3	41	5	499	13 431	313	630	6 833	34 593	17 071	52 360	676
339950	Sign mfg	3	41	5	499	13 431	313	630	6 833	34 593	17 071	52 360	676
33999	All other miscellaneous mfg	1	39	7	656	18 279	453	893	9 667	48 789	66 075	112 652	2 602
339999	All other miscellaneous mfg	2	24	4	347	9 088	246	455	4 738	25 524	24 389	49 355	805

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
EL PASO, TX MSA													
31-33	Manufacturing	1	652	216	36 723	773 944	29 598	54 684	528 653	3 300 010	4 720 097	7 966 475	234 102
311	Food mfg	1	62	14	1 588	35 263	1 104	2 465	20 418	110 301	162 193	272 862	9 268
3111	Animal food mfg	-	3	1	e	D	D	D	D	D	D	D	D
31111	Animal food mfg	-	3	1	e	D	D	D	D	D	D	D	D
311111	Dog & cat food mfg	-	1	1	e	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	4	4	3	e	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	4	3	3	e	D	D	D	D	D	D	D	D
311422	Specialty canning	5	2	2	e	D	D	D	D	D	D	D	D
3115	Dairy product mfg	-	6	5	358	8 200	161	326	2 925	20 621	65 761	86 976	1 505
31151	Dairy product (except frozen) mfg	-	5	5	e	D	D	D	D	D	D	D	D
311511	Fluid milk mfg	-	4	4	e	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	1	32	3	351	10 074	186	298	4 027	20 659	23 316	44 107	5 189
31181	Bread & bakery product mfg	-	25	3	321	9 243	161	251	3 516	15 854	19 046	35 027	D
312	Beverage & tobacco product mfg	-	5	3	386	10 624	67	149	1 464	26 985	49 828	76 631	2 636
3121	Beverage mfg	-	5	3	386	10 624	67	149	1 464	26 985	49 828	76 631	2 636
31211	Soft drink & ice mfg	-	5	3	386	10 624	67	149	1 464	26 985	49 828	76 631	2 636
312111	Soft drink mfg	-	1	1	e	D	D	D	D	D	D	D	D
313	Textile mills	5	12	7	3 008	51 837	2 627	4 832	43 584	139 036	58 906	194 383	8 427
3133	Textile & fabric finishing & fabric coating mills	6	9	6	h	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills	6	9	6	h	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	8	7	4	g	D	D	D	D	D	D	D	D
313312	Textile & fabric finishing mills	-	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	73	36	11 669	219 176	10 486	19 203	166 588	838 688	959 151	1 762 193	19 950
3152	Cut & sew apparel mfg	-	69	35	j	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	2	42	15	h	D	D	D	D	D	D	D	D
315211	Men's & boys' cut & sew apparel contractors	1	8	4	1 243	20 964	1 149	2 192	18 038	30 383	8 713	38 328	1 535
315212	Women's, girls', & infants' cut & sew apparel contractors	2	34	11	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	-	13	10	4 713	102 571	4 154	7 900	76 931	470 503	590 425	1 035 026	4 040
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	-	11	9	h	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	13	9	3 998	71 299	3 572	6 281	49 800	292 845	350 448	638 317	13 560
315234	Women's & girls' cut & sew suit, coat, skirt mfg	-	2	1	f	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	-	10	8	h	D	D	D	D	D	D	D	D
316	Leather & allied product mfg	2	24	9	1 045	19 924	691	1 266	9 439	36 982	60 152	104 467	678
3162	Footwear mfg	2	18	8	914	17 331	636	1 176	8 711	32 986	53 798	94 030	429
31621	Footwear mfg	2	18	8	914	17 331	636	1 176	8 711	32 986	53 798	94 030	429
316213	Men's footwear (except athletic) mfg	1	12	7	f	D	D	D	D	D	D	D	380
321	Wood product mfg	5	24	7	f	D	D	D	D	D	D	D	704
3219	Other wood product mfg	6	23	6	e	D	D	D	D	D	D	D	D
32191	Millwork	7	11	4	328	5 137	277	415	3 981	9 257	15 838	25 133	425
322	Paper mfg	1	18	13	1 102	28 076	897	1 887	18 599	78 022	98 110	175 572	4 508
3222	Converted paper product mfg	1	18	13	1 102	28 076	897	1 887	18 599	78 022	98 110	175 572	4 508
32221	Paperboard container mfg	1	13	12	1 035	25 328	841	1 773	16 666	73 856	93 046	166 257	D
322211	Corrugated & solid fiber box mfg	-	10	9	804	19 644	653	1 351	12 803	60 336	81 188	140 830	2 077
323	Printing & related support activities	2	71	11	942	18 330	734	1 018	11 986	35 817	20 447	55 817	3 127
3231	Printing & related support activities	2	71	11	942	18 330	734	1 018	11 986	35 817	20 447	55 817	3 127
32311	Printing	1	63	10	648	15 001	471	755	9 038	30 717	19 997	50 356	2 696
323110	Commercial lithographic printing	1	31	5	372	8 482	259	455	5 416	17 605	12 275	29 673	783
32312	Support activities for printing	7	8	1	294	3 329	263	263	2 948	5 100	450	5 461	431
323122	Prepress services	7	8	1	294	3 329	263	263	2 948	5 100	450	5 461	431

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31-33	EL PASO, TX MSA— Con. Manufacturing— Con.												
324	Petroleum & coal products mfg	9	2	1	e	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	9	2	1	e	D	D	D	D	D	D	D	D
32411	Petroleum refineries	9	2	1	e	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	9	2	1	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	36	19	3 364	72 048	2 667	5 200	52 689	192 529	203 655	390 774	39 145
3261	Plastics product mfg	1	33	19	3 357	71 931	2 660	5 189	52 596	192 292	203 342	390 220	39 138
32611	Unsupported plastics film, sheet, & bag mfg ..	—	1	1	e	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	—	1	1	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	—	30	17	2 980	63 304	2 342	4 540	47 382	156 923	185 080	337 011	37 159
326199	All other plastics product mfg	—	29	17	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	15	6	696	16 296	240	502	5 289	31 854	34 573	64 753	D
3273	Cement & concrete product mfg	—	9	5	637	14 401	196	402	4 081	28 502	30 970	57 802	D
32732	Ready-mix concrete mfg ..	—	1	1	e	D	D	D	D	D	D	D	D
327320	Ready-mix concrete mfg	—	1	1	e	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	9	6	g	D	D	D	D	D	D	D	31 746
3311	Iron & steel mills & ferroalloy mfg	—	1	1	e	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	—	1	1	e	D	D	D	D	D	D	D	D
331111	Iron & steel mills	—	1	1	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	—	5	4	g	D	D	D	D	D	D	D	D
33141	Nonferrous metal (except aluminum) smelting & refining	—	2	2	f	D	D	D	D	D	D	D	D
331411	Primary smelting & refining of copper	—	2	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
331421	Copper rolling, drawing, & extruding ..	—	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	4	95	27	1 995	46 849	1 569	3 108	30 425	98 704	124 414	222 794	8 736
3321	Forging & stamping	7	6	4	431	13 434	316	661	7 495	27 296	46 513	74 255	2 686
33211	Forging & stamping	7	6	4	431	13 434	316	661	7 495	27 296	46 513	74 255	2 686
3323	Architectural & structural metals mfg	2	27	10	878	17 980	725	1 554	12 552	41 279	58 570	99 069	3 309
33232	Ornamental & architectural metal products mfg	—	20	6	642	11 714	543	1 145	8 405	24 673	28 132	51 636	2 575
332323	Ornamental & architectural metal work mfg	—	11	4	509	9 059	439	957	6 681	16 714	25 208	41 500	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	4	41	5	321	6 961	237	374	4 693	13 371	5 812	19 100	783
33271	Machine shops	5	35	3	254	5 446	184	290	3 609	10 250	3 697	13 854	539
332710	Machine shops	5	35	3	254	5 446	184	290	3 609	10 250	3 697	13 854	539
333	Machinery mfg	5	43	9	948	16 993	770	1 358	11 927	41 477	22 301	65 000	9 700
3332	Industrial machinery mfg ..	9	3	2	e	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	9	3	2	e	D	D	D	D	D	D	D	D
333298	All other industrial machinery mfg	9	1	1	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	6	29	4	348	8 598	266	361	6 154	15 175	4 859	19 866	D
33351	Metalworking machinery mfg	6	29	4	348	8 598	266	361	6 154	15 175	4 859	19 866	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	EL PASO, TX MSA— Con. Manufacturing— Con.												
334	Computer & electronic product mfg.....	1	22	11	1 369	27 046	1 019	1 789	15 366	85 675	78 156	167 985	8 298
3343	Audio & video equipment mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	-	13	6	851	15 751	625	822	9 089	57 841	19 670	80 550	3 493
33441	Semiconductor & other electronic component mfg.....	-	13	6	851	15 751	625	822	9 089	57 841	19 670	80 550	3 493
334413	Semiconductor & related device mfg...	-	1	1	308	2 158	182	-	-	-	-	-	-
334415	Electronic resistor mfg.....	-	3	2	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	-	20	12	2 146	46 507	1 697	2 525	29 035	319 452	383 389	704 302	26 313
3352	Household appliance mfg...	-	3	3	g	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg.....	-	3	3	g	D	D	D	D	D	D	D	D
335212	Household vacuum cleaner mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg...	-	11	5	643	17 108	391	666	7 517	205 433	132 716	337 441	D
33531	Electrical equipment mfg.....	-	11	5	643	17 108	391	666	7 517	205 433	132 716	337 441	D
3359	Other electrical equipment & component mfg.....	6	5	4	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	17	5	692	14 788	519	1 085	9 424	95 650	102 152	180 849	4 752
3363	Motor vehicle parts mfg...	-	13	5	f	D	D	D	D	D	D	D	4 681
33632	Motor vehicle electrical & electronic equipment mfg.....	-	4	1	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg.....	-	4	1	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg.....	1	22	4	824	12 588	769	1 329	10 301	29 293	16 197	45 524	1 724
3371	Household & institutional furniture & kitchen cabinet mfg.....	-	18	3	775	11 815	733	1 273	9 816	27 628	15 198	42 832	1 663
33712	Household & institutional furniture mfg.....	-	8	3	732	11 066	698	1 223	9 263	26 068	14 023	40 080	D
337124	Metal household furniture mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	53	12	1 976	42 565	1 397	2 377	22 733	303 556	353 196	662 848	9 326
3391	Medical equipment & supplies mfg.....	-	24	5	786	20 458	392	633	7 606	100 623	186 397	291 521	6 104
33911	Medical equipment & supplies mfg.....	-	24	5	786	20 458	392	633	7 606	100 623	186 397	291 521	6 104
339113	Surgical appliance & supplies mfg.....	-	4	2	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg...	-	29	7	1 190	22 107	1 005	1 744	15 127	202 933	166 799	371 327	3 222
33993	Doll, toy, & game mfg...	-	1	1	f	D	D	D	D	D	D	D	D
339932	Game, toy, & children's vehicle mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
	HOUSTON— GALVESTON— BRAZORIA, TX CMSA												
31-33	Manufacturing	-	5 387	1 679	202 631	7 901 450	138 225	281 431	4 478 385	37 479 611	62 526 384	99 862 240	4 449 501
311	Food mfg.....	-	269	71	j	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg.....	-	20	10	h	D	D	D	D	D	D	D	D
314	Textile product mills.....	3	89	16	g	D	D	D	D	D	D	D	2 028
315	Apparel mfg.....	5	56	7	f	D	D	D	D	D	D	D	D
321	Wood product mfg.....	3	106	29	g	D	D	D	D	D	D	D	D
322	Paper mfg.....	-	49	24	h	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	3	616	96	i	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)				
	HOUSTON—GALVESTON—BRAZORIA, TX CMSA—Con.												
31-33	Manufacturing—Con.												
324	Petroleum & coal products mfg	1	46	23	i	D	D	D	D	D	D	D	D
325	Chemical mfg	—	401	204	37 644	2 124 355	23 014	50 010	1 168 539	17 343 696	26 099 353	43 363 108	2 943 873
326	Plastics & rubber products mfg	1	269	120	j	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	3	214	53	h	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	55	31	h	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	1 521	494	40 763	1 384 179	30 162	62 905	866 004	3 025 776	2 792 956	5 812 136	195 812
333	Machinery mfg	—	516	199	k	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	271	94	j	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	1	125	43	i	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	3	136	47	h	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	164	34	h	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	2	434	83	8 056	223 750	5 487	11 361	122 957	667 774	321 618	990 378	D
	Brazoria, TX PMSA												
31-33	Manufacturing	—	199	60	14 149	682 947	10 011	20 120	425 116	2 579 286	8 174 294	10 760 986	793 692
311	Food mfg	—	10	4	278	22 150	229	508	20 322	261 991	351 808	594 654	D
324	Petroleum & coal products mfg	—	4	2	f	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	—	4	2	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries	—	2	2	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	—	2	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg	—	25	17	7 373	406 664	4 963	9 134	244 123	1 964 798	5 147 530	7 147 085	680 401
3251	Basic chemical mfg	—	13	11	5 496	310 869	3 579	6 275	178 429	1 592 098	4 607 716	6 242 195	597 225
32511	Petrochemical mfg	—	5	5	1 354	78 863	877	1 607	45 264	647 591	1 948 842	2 623 929	123 402
325110	Petrochemical mfg	—	5	5	1 354	78 863	877	1 607	45 264	647 591	1 948 842	2 623 929	123 402
32518	Other basic inorganic chemical mfg	—	4	3	e	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg	—	4	3	e	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	—	3	3	3 843	215 515	2 486	4 203	121 452	884 847	2 600 894	3 489 188	D
325199	All other basic organic chemical mfg	—	3	3	3 843	215 515	2 486	4 203	121 452	884 847	2 600 894	3 489 188	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	—	4	3	1 727	89 396	1 303	2 685	63 130	286 253	437 998	719 591	78 183
32521	Resin & synthetic rubber mfg	—	4	3	1 727	89 396	1 303	2 685	63 130	286 253	437 998	719 591	78 183
325211	Plastics material & resin mfg	—	4	3	1 727	89 396	1 303	2 685	63 130	286 253	437 998	719 591	78 183
331	Primary metal mfg	—	2	1	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	—	2	1	f	D	D	D	D	D	D	D	D
33141	Nonferrous metal (except aluminum) smelting & refining	—	1	1	f	D	D	D	D	D	D	D	D
331419	Other nonferrous metal primary smelting & refining	—	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)				
	HOUSTON—GALVESTON—BRAZORIA, TX CMSA—Con.												
	Brazoria, TX PMSA—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg.....	1	62	17	1 101	33 571	851	1 788	25 304	65 523	49 553	115 161	2 571
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	1	27	5	350	10 610	270	576	8 170	16 714	11 579	28 353	921
33271	Machine shops.....	1	21	4	250	7 212	193	403	5 962	11 563	7 238	18 803	599
332710	Machine shops.....	1	21	4	250	7 212	193	403	5 962	11 563	7 238	18 803	599
333	Machinery mfg.....	1	15	5	486	13 976	288	610	9 808	29 391	22 187	50 932	889
3339	Other general-purpose machinery mfg.....	4	6	3	295	6 343	160	367	5 041	10 651	5 126	15 787	232
33399	All other general-purpose machinery mfg.....	4	2	2	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	-	10	3	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	-	3	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	-	3	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
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
334510	Electromedical & electrotherapeutic apparatus mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	4	12	4	387	9 484	272	502	5 267	21 912	11 323	32 835	1 214
	Galveston—Texas City, TX PMSA												
31-33	Manufacturing	1	160	35	7 279	392 507	4 817	10 921	244 497	1 761 759	7 422 044	9 182 629	183 618
324	Petroleum & coal products mfg.....	1	5	4	2 462	141 147	1 655	4 262	100 623	944 638	5 439 982	6 387 122	84 632
3241	Petroleum & coal products mfg.....	1	5	4	2 462	141 147	1 655	4 262	100 623	944 638	5 439 982	6 387 122	84 632
32411	Petroleum refineries.....	1	4	4	g	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	1	4	4	g	D	D	D	D	D	D	D	D
325	Chemical mfg.....	-	15	7	2 807	182 779	1 777	4 162	109 478	692 674	1 859 742	2 552 498	89 459
3251	Basic chemical mfg.....	-	10	6	2 734	180 637	1 725	4 071	108 078	686 484	1 857 170	2 543 715	89 210
32519	Other basic organic chemical mfg.....	-	6	4	2 651	176 560	1 689	3 980	106 325	655 570	1 843 997	2 499 694	88 738
325192	Cyclic crude & intermediate mfg....	-	1	1	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg.....	-	5	3	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	2	33	10	691	24 273	565	1 152	18 049	36 622	26 814	61 050	2 293
	Houston, TX PMSA												
31-33	Manufacturing	-	5 028	1 584	181 203	6 825 996	123 397	250 390	3 808 772	33 138 566	46 930 046	79 918 625	3 472 191
311	Food mfg.....	-	249	65	10 697	308 093	7 511	15 551	176 707	1 195 016	1 692 259	2 879 915	85 893
3113	Sugar & confectionery product mfg.....	-	8	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
3114	Fruit & vegetable preserving & specialty food mfg.....	1	16	8	1 717	32 752	1 573	3 538	27 412	67 117	75 939	143 112	2 855
31141	Frozen food mfg.....	2	7	5	1 499	26 081	1 397	3 151	24 009	51 811	40 728	92 522	2 518
311412	Frozen specialty food mfg.....	2	7	5	1 499	26 081	1 397	3 151	24 009	51 811	40 728	92 522	2 518
3115	Dairy product mfg.....	2	8	4	634	24 061	200	489	8 798	76 211	166 223	238 518	5 811
31151	Dairy product (except frozen) mfg.....	3	4	3	f	D	D	D	D	D	D	D	D
311511	Fluid milk mfg.....	3	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)				
	HOUSTON—GALVESTON—BRAZORIA, TX CMSA—Con.												
	Houston, TX PMSA—Con.												
31-33	Manufacturing—Con.												
311	Food mfg—Con.												
3116	Meat product mfg	—	30	10	1 585	36 548	1 215	2 550	22 500	274 641	304 520	576 104	4 992
31161	Animal slaughtering & processing	—	30	10	1 585	36 548	1 215	2 550	22 500	274 641	304 520	576 104	4 992
311612	Meat processed from carcasses	—	15	6	1 325	30 696	1 047	2 243	19 351	244 373	250 167	491 488	4 408
3118	Bakeries & tortilla mfg	1	138	20	3 430	92 199	1 987	3 585	42 068	209 430	150 969	359 617	17 517
31181	Bread & bakery product mfg	1	121	15	2 623	66 840	1 368	2 333	24 579	161 006	94 486	254 860	D
311811	Retail bakeries	5	89	3	e	D	D	D	D	D	D	D	844
311812	Commercial bakeries	—	27	9	1 881	55 519	869	1 565	18 070	130 942	72 811	203 678	5 185
311813	Frozen cakes, pies, & other pastries mfg	—	5	3	e	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	2	10	3	529	21 071	393	819	14 610	39 994	48 461	88 236	D
311821	Cookie & cracker mfg	—	4	2	e	D	D	D	D	D	D	D	D
31183	Tortilla mfg	2	7	2	278	4 288	226	433	2 879	8 430	8 022	16 521	D
311830	Tortilla mfg	2	7	2	278	4 288	226	433	2 879	8 430	8 022	16 521	D
3119	Other food mfg	—	36	16	2 298	78 584	1 791	3 836	52 494	467 911	620 169	1 096 806	37 105
31191	Snack food mfg	—	3	2	e	D	D	D	D	D	D	D	D
311919	Other snack food mfg	—	3	2	e	D	D	D	D	D	D	D	D
31192	Coffee & tea mfg	—	7	4	f	D	D	D	D	D	D	D	D
311920	Coffee & tea mfg	—	7	4	f	D	D	D	D	D	D	D	D
31199	All other food mfg	1	21	8	864	18 552	676	1 209	12 164	61 570	84 788	146 280	D
311991	Perishable prepared food mfg	5	11	5	327	5 477	211	273	2 468	12 308	20 095	32 405	D
311999	All other miscellaneous food mfg	—	10	3	537	13 075	465	936	9 696	49 262	64 693	113 875	4 799
312	Beverage & tobacco product mfg	—	19	10	3 009	105 698	1 705	2 707	62 257	923 915	675 522	1 601 538	118 714
3121	Beverage mfg	—	18	10	h	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	—	15	9	g	D	D	D	D	D	D	D	D
312111	Soft drink mfg	—	7	6	g	D	D	D	D	D	D	D	D
31212	Breweries	—	3	1	g	D	D	D	D	D	D	D	D
312120	Breweries	—	3	1	g	D	D	D	D	D	D	D	D
314	Textile product mills	3	83	16	1 418	26 878	1 101	1 888	16 024	48 231	38 841	86 884	1 929
3141	Textile furnishings mills	2	33	7	522	8 769	423	717	5 640	14 522	12 924	27 389	528
31412	Curtain & linen mills	2	33	7	522	8 769	423	717	5 640	14 522	12 924	27 389	528
314121	Curtain & drapery mills	2	28	4	356	5 951	282	474	3 566	10 997	8 523	19 463	324
3149	Other textile product mills	4	50	9	896	18 109	678	1 171	10 384	33 709	25 917	59 495	1 401
31491	Textile bag & canvas mills	3	24	3	354	7 339	239	368	3 625	12 912	12 591	25 322	402
314912	Canvas & related product mills	3	18	2	289	6 236	187	297	3 121	11 288	10 355	21 478	344
31499	All other textile product mills	5	26	6	542	10 770	439	803	6 759	20 797	13 326	34 173	999
314999	All other miscellaneous textile product mills	5	24	6	f	D	D	D	D	D	D	D	D
315	Apparel mfg	5	55	7	630	10 203	486	727	5 908	17 651	12 081	29 336	857
3152	Cut & sew apparel mfg	6	39	6	538	8 414	408	650	5 097	13 786	10 242	23 514	737
31523	Women's & girls' cut & sew apparel mfg	6	15	3	312	4 800	198	235	2 204	7 586	7 935	15 072	502
315239	Women's & girls' cut & sew other outerwear mfg	6	6	3	279	4 261	175	206	1 907	6 385	6 363	12 289	481
321	Wood product mfg	3	101	29	2 229	52 606	1 882	4 068	37 961	104 609	177 312	278 943	8 365
3211	Sawmills & wood preservation	2	12	5	269	6 388	236	402	4 980	16 369	42 892	58 583	1 459
32111	Sawmills & wood preservation	2	12	5	269	6 388	236	402	4 980	16 369	42 892	58 583	1 459
3212	Veneer, plywood, & engineered wood product mfg	—	7	5	637	18 994	543	1 486	14 079	34 041	66 262	98 139	3 491
32121	Veneer, plywood, & engineered wood product mfg	—	7	5	637	18 994	543	1 486	14 079	34 041	66 262	98 139	3 491
321212	Softwood veneer & plywood mfg	—	1	1	e	D	D	D	D	D	D	D	D
321214	Truss mfg	—	3	3	e	D	D	D	D	D	D	D	D

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	HOUSTON—GALVESTON—BRAZORIA, TX CMSA—Con.												
	Houston, TX PMSA—Con.												
31-33	Manufacturing—Con.												
321	Wood product mfg—Con.												
3219	Other wood product mfg...	5	82	19	1 323	27 224	1 103	2 180	18 902	54 199	68 158	122 221	3 415
32191	Millwork	4	34	7	524	9 964	451	810	7 264	21 237	24 164	44 790	871
32192	Wood container & pallet mfg	4	21	7	316	6 742	278	613	5 037	13 786	18 990	33 072	1 561
321920	Wood container & pallet mfg	4	21	7	316	6 742	278	613	5 037	13 786	18 990	33 072	1 561
32199	All other wood product mfg	7	27	5	483	10 518	374	757	6 601	19 176	25 004	44 359	983
322	Paper mfg	—	48	24	3 058	130 676	2 308	4 964	90 006	285 063	415 113	700 074	48 768
3221	Pulp, paper, & paperboard mills	—	3	3	g	D	D	D	D	D	D	D	38 530
32212	Paper mills	—	2	2	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	1	1	f	D	D	D	D	D	D	D	D
322122	Newsprint mills	—	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	2	45	21	g	D	D	D	D	D	D	D	10 238
32221	Paperboard container mfg	2	23	15	907	29 438	608	1 311	15 342	64 699	91 787	156 430	4 619
322211	Corrugated & solid fiber box mfg	1	19	12	719	22 354	466	1 024	11 144	44 140	79 341	123 018	3 139
32223	Stationery product mfg ..	—	7	3	274	6 438	219	411	4 766	19 049	8 849	27 289	D
323	Printing & related support activities.....	3	580	95	9 016	260 852	6 556	11 768	156 759	590 692	341 444	928 950	47 653
3231	Printing & related support activities.....	3	580	95	9 016	260 852	6 556	11 768	156 759	590 692	341 444	928 950	47 653
32311	Printing	3	535	83	8 302	235 980	6 006	10 632	138 787	541 366	330 696	868 809	44 597
323110	Commercial lithographic printing ..	3	277	57	5 703	167 261	4 175	7 320	100 862	388 992	241 367	626 278	33 570
323113	Commercial screen printing.....	4	45	8	769	20 815	521	892	9 860	41 087	24 536	67 038	3 518
323114	Quick printing	2	119	6	852	20 483	614	1 082	11 560	47 879	27 855	76 137	3 899
323116	Manifold business form printing.....	4	18	6	399	12 987	284	610	8 349	35 004	21 820	56 867	1 057
323119	Other commercial printing.....	7	54	2	303	7 578	200	321	4 105	13 183	9 041	22 259	1 083
32312	Support activities for printing.....	4	45	12	714	24 872	550	1 136	17 972	49 326	10 748	60 141	3 056
323122	Prepress services	4	32	6	469	17 846	350	728	13 714	37 472	9 203	46 634	2 538
324	Petroleum & coal products mfg	1	37	17	5 363	331 484	3 389	8 404	192 302	2 972 359	9 966 477	12 977 289	241 794
3241	Petroleum & coal products mfg	1	37	17	5 363	331 484	3 389	8 404	192 302	2 972 359	9 966 477	12 977 289	241 794
32411	Petroleum refineries	1	10	8	4 641	305 867	2 826	7 312	174 915	2 825 852	9 755 600	12 621 464	233 489
324110	Petroleum refineries ..	1	10	8	4 641	305 867	2 826	7 312	174 915	2 825 852	9 755 600	12 621 464	233 489
32412	Asphalt paving, roofing, & saturated materials mfg	—	10	4	407	13 807	334	658	9 736	45 606	99 225	146 202	3 347
324122	Asphalt shingle & coating materials mfg	—	5	3	284	10 358	224	516	7 271	29 447	77 752	108 583	2 122
32419	Other petroleum & coal products mfg	3	17	5	315	11 810	229	434	7 651	100 901	111 652	209 623	4 958
324191	Petroleum lubricating oil & grease mfg	3	15	4	e	D	D	D	D	D	D	D	D
325	Chemical mfg	—	361	180	27 464	1 534 912	16 274	36 714	814 938	14 686 224	19 092 081	33 663 525	2 174 013
3251	Basic chemical mfg	—	109	74	13 777	843 087	8 063	18 577	449 976	9 853 858	11 695 948	21 478 753	1 285 807
32511	Petrochemical mfg	—	11	10	4 635	302 173	2 393	5 812	149 689	6 101 363	6 047 981	12 082 746	534 405
325110	Petrochemical mfg	—	11	10	4 635	302 173	2 393	5 812	149 689	6 101 363	6 047 981	12 082 746	534 405
32512	Industrial gas mfg	—	22	9	f	D	D	D	D	D	D	D	131 288
325120	Industrial gas mfg	—	22	9	f	D	D	D	D	D	D	D	131 288
32518	Other basic inorganic chemical mfg	—	20	14	1 668	97 841	1 078	2 373	61 733	520 156	388 522	913 490	D
325181	Alkalies & chlorine mfg	—	1	1	f	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg	—	18	12	g	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	—	54	40	6 765	410 016	4 151	9 392	220 298	2 922 631	5 054 906	7 968 588	477 740
325192	Cyclic crude & intermediate mfg	—	4	3	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	—	50	37	i	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)				
	HOUSTON— GALVESTON— BRAZORIA, TX CMSA — Con.												
	Houston, TX PMSA— Con.												
31-33	Manufacturing— Con.												
325	Chemical mfg—Con.												
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	—	37	29	6 488	389 583	3 615	8 762	204 405	3 266 502	5 855 810	9 065 674	735 340
32521	Resin & synthetic rubber mfg	—	37	29	6 488	389 583	3 615	8 762	204 405	3 266 502	5 855 810	9 065 674	735 340
325211	Plastics material & resin mfg	—	30	25	5 483	335 996	2 840	7 000	165 744	3 073 063	5 586 915	8 612 481	D
325212	Synthetic rubber mfg . . .	—	7	4	1 005	53 587	775	1 762	38 661	193 439	268 895	453 193	D
3253	Pesticide, fertilizer, & other agricultural chemical mfg .	—	18	8	1 558	96 545	916	2 096	54 296	538 129	465 953	1 011 335	63 153
32532	Pesticide & other agricultural chemical mfg	—	10	5	1 422	91 796	819	1 882	51 551	513 833	425 692	947 742	60 879
325320	Pesticide & other agricultural chemical mfg	—	10	5	1 422	91 796	819	1 882	51 551	513 833	425 692	947 742	60 879
3254	Pharmaceutical & medicine mfg	3	17	4	405	16 168	231	419	6 876	99 365	34 137	135 503	6 545
32541	Pharmaceutical & medicine mfg	3	17	4	405	16 168	231	419	6 876	99 365	34 137	135 503	6 545
3255	Paint, coating, & adhesive mfg	—	45	15	1 337	47 236	893	1 926	22 864	210 751	265 246	478 012	9 423
32551	Paint & coating mfg	—	34	11	1 129	40 001	785	1 722	20 182	181 836	231 246	415 485	8 114
325510	Paint & coating mfg	—	34	11	1 129	40 001	785	1 722	20 182	181 836	231 246	415 485	8 114
3256	Soap, cleaning compound, & toilet preparation mfg . .	2	54	16	1 317	38 465	834	1 500	21 096	202 157	205 557	409 306	28 440
32561	Soap & cleaning compound mfg	1	44	13	899	29 940	549	1 147	17 281	175 359	172 439	349 271	26 107
325611	Soap & other detergent mfg	2	23	5	e	D	D	D	D	D	D	D	1 727
325612	Polish & other sanitation good mfg . .	1	15	5	400	9 830	209	412	4 337	95 690	65 329	161 024	985
32562	Toilet preparation mfg . . .	6	10	3	418	8 525	285	353	3 815	26 798	33 118	60 035	2 333
325620	Toilet preparation mfg . . .	6	10	3	418	8 525	285	353	3 815	26 798	33 118	60 035	2 333
3259	Other chemical product mfg	1	81	34	2 582	103 828	1 722	3 434	55 425	515 462	569 430	1 084 942	45 305
32599	All other chemical product & preparation mfg	1	72	33	2 481	100 211	1 661	3 310	53 355	504 452	547 144	1 051 574	44 747
325991	Custom compounding of purchased resin . . .	—	28	13	1 133	38 431	800	1 595	23 674	115 690	222 268	335 085	11 416
325998	All other miscellaneous chemical product & preparation mfg	1	37	18	1 236	58 309	788	1 579	27 789	380 212	314 819	697 746	32 476
326	Plastics & rubber products mfg	1	257	119	10 252	285 194	7 789	15 266	179 284	793 641	777 164	1 546 452	71 179
3261	Plastics product mfg	1	210	107	9 365	257 917	7 112	13 812	164 125	741 073	731 747	1 453 047	65 501
32611	Unsupported plastics film, sheet, & bag mfg . .	1	34	16	1 822	55 427	1 312	2 645	34 614	195 215	206 617	399 006	17 158
326111	Unsupported plastics bag mfg	3	18	7	f	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	—	12	8	1 097	39 963	662	1 403	24 087	155 414	147 078	299 545	9 211
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	2	19	9	814	22 569	476	992	9 931	49 058	57 539	106 391	4 456
326121	Unsupported plastics profile shape mfg	—	8	3	387	9 582	129	270	2 969	14 241	9 714	23 941	677
326122	Plastics pipe & pipe fitting mfg	3	11	6	427	12 987	347	722	6 962	34 817	47 825	82 450	3 779
32615	Urethane & other foam product (except polystyrene) mfg	1	13	7	349	8 083	280	616	5 376	17 979	30 299	48 487	734
326150	Urethane & other foam product (except polystyrene) mfg	1	13	7	349	8 083	280	616	5 376	17 979	30 299	48 487	734
32616	Plastics bottle mfg	—	9	8	797	26 444	712	1 570	20 599	88 830	110 301	197 800	9 297
326160	Plastics bottle mfg	—	9	8	797	26 444	712	1 570	20 599	88 830	110 301	197 800	9 297
32619	Other plastics product mfg	1	128	64	5 461	142 662	4 243	7 825	91 907	382 899	316 217	683 554	33 341
326191	Plastics plumbing fixture mfg	3	11	5	e	D	D	D	D	D	D	D	D
326192	Resilient floor covering mfg	—	1	1	e	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	2	116	58	4 762	120 413	3 725	6 740	76 755	330 990	262 735	574 915	30 004

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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)
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	HOUSTON—GALVESTON—BRAZORIA, TX CMSA—Con.												
	Houston, TX PMSA—Con.												
31-33	Manufacturing—Con.												
326	Plastics & rubber products mfg—Con.												
3262	Rubber product mfg	1	47	12	887	27 277	677	1 454	15 159	52 568	45 417	93 405	5 678
32629	Other rubber product mfg	1	30	10	695	20 509	554	1 212	12 324	44 028	29 286	69 744	4 822
326291	Rubber product mfg for mechanical use	1	14	6	377	12 233	307	709	7 739	24 934	13 722	34 491	3 524
326299	All other rubber product mfg	1	16	4	318	8 276	247	503	4 585	19 094	15 564	35 253	1 298
327	Nonmetallic mineral product mfg	3	193	48	3 744	106 403	3 047	6 241	77 433	350 192	343 255	688 743	26 224
3271	Clay product & refractory mfg	3	16	4	e	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg	2	31	5	434	10 721	351	756	8 267	22 313	18 555	40 571	1 172
32721	Glass & glass product mfg	2	31	5	434	10 721	351	756	8 267	22 313	18 555	40 571	1 172
327215	Glass product mfg made of purchased glass	1	23	4	294	7 053	225	490	4 848	17 438	15 469	33 112	954
3273	Cement & concrete product mfg	3	103	32	2 311	68 556	1 942	4 025	51 622	226 957	251 718	474 089	18 221
32732	Ready-mix concrete mfg	4	64	17	1 322	43 369	1 140	2 449	34 016	147 689	191 693	338 824	14 993
327320	Ready-mix concrete mfg	4	64	17	1 322	43 369	1 140	2 449	34 016	147 689	191 693	338 824	14 993
32733	Concrete pipe, brick, & block mfg	-	19	6	e	D	D	D	D	D	D	D	D
327332	Concrete pipe mfg	-	11	5	319	9 413	282	565	7 620	39 648	22 813	60 820	348
32739	Other concrete product mfg	3	19	8	508	10 977	407	766	7 232	25 797	19 712	45 206	1 137
327390	Other concrete product mfg	3	19	8	508	10 977	407	766	7 232	25 797	19 712	45 206	1 137
3279	Other nonmetallic mineral product mfg	2	39	5	524	14 544	359	675	8 786	60 250	46 624	106 940	3 201
32799	All other nonmetallic mineral product mfg	1	32	4	e	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	53	30	2 807	91 657	2 235	4 761	66 874	226 381	507 793	735 928	27 922
3311	Iron & steel mills & ferroalloy mfg	-	4	3	292	9 419	237	549	7 940	7 650	162 633	174 401	3 554
33111	Iron & steel mills & ferroalloy mfg	-	4	3	292	9 419	237	549	7 940	7 650	162 633	174 401	3 554
331111	Iron & steel mills	-	4	3	292	9 419	237	549	7 940	7 650	162 633	174 401	3 554
3312	Steel product mfg from purchased steel	1	18	15	1 545	53 283	1 233	2 752	39 286	150 057	282 482	428 821	15 887
33121	Iron & steel pipes & tubes mfg from purchased steel	1	10	9	1 035	40 720	792	1 870	29 224	112 090	208 489	318 270	D
331210	Iron & steel pipes & tubes mfg from purchased steel	1	10	9	1 035	40 720	792	1 870	29 224	112 090	208 489	318 270	D
33122	Rolling & drawing of purchased steel	-	8	6	510	12 563	441	882	10 062	37 967	73 993	110 551	D
331222	Steel wire drawing	-	7	6	f	D	D	D	D	D	D	D	D
3315	Foundries	1	18	7	613	18 443	496	1 020	12 791	39 584	26 672	66 259	5 541
33151	Ferrous metal foundries	-	10	5	509	15 551	411	865	10 593	36 265	19 335	55 758	5 259
331513	Steel foundries (except investment)	-	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	1 426	467	38 971	1 326 335	28 746	59 965	822 651	2 923 631	2 716 589	5 635 925	190 948
3321	Forging & stamping	1	46	23	3 025	116 209	2 193	4 536	71 806	305 267	415 549	713 753	35 131
33211	Forging & stamping	1	46	23	3 025	116 209	2 193	4 536	71 806	305 267	415 549	713 753	35 131
332111	Iron & steel forging	1	13	6	1 511	70 885	1 046	2 268	43 523	201 925	273 878	469 118	25 995
332114	Custom roll forming	-	11	8	703	22 162	505	980	13 312	52 802	107 678	160 709	D
332116	Metal stamping	4	20	9	f	D	D	D	D	D	D	D	7 404
3323	Architectural & structural metals mfg	1	291	103	8 565	258 382	6 167	12 821	146 302	498 649	598 045	1 089 882	24 517
33231	Plate work & fabricated structural product mfg	1	132	52	4 866	155 003	3 591	7 787	88 335	258 114	376 519	632 345	12 093
332311	Prefabricated metal building & component mfg	-	19	10	2 191	71 998	1 481	3 326	36 710	98 665	173 447	271 186	4 734
332312	Fabricated structural metal mfg	1	73	31	2 016	60 241	1 606	3 438	37 260	114 140	171 873	287 139	5 101
332313	Plate work mfg	2	40	11	659	22 764	504	1 023	14 365	45 309	31 199	74 020	2 258

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	HOUSTON—GALVESTON—BRAZORIA, TX CMSA—Con.												
	Houston, TX 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	159	51	3 699	103 379	2 576	5 034	57 967	240 535	221 526	457 537	12 424
332321	Metal window & door mfg.....	2	29	12	943	20 811	674	1 338	11 921	43 226	58 036	101 184	1 441
332322	Sheet metal work mfg.	1	97	31	2 093	62 396	1 447	2 881	34 536	150 130	127 426	272 713	9 804
332323	Ornamental & architectural metal work mfg.....	-	33	8	663	20 172	455	815	11 510	47 179	36 064	83 640	1 179
3324	Boiler, tank, & shipping container mfg.....	-	64	47	4 003	144 470	3 047	6 728	101 797	351 372	496 495	853 587	13 144
33241	Power boiler & heat exchanger mfg.....	-	23	19	1 615	54 188	1 253	2 679	37 744	138 425	127 166	262 678	6 133
332410	Power boiler & heat exchanger mfg.....	-	23	19	1 615	54 188	1 253	2 679	37 744	138 425	127 166	262 678	6 133
33242	Metal tank (heavy gauge) mfg.....	-	26	19	1 228	46 281	882	2 011	32 050	76 204	70 314	146 936	4 113
332420	Metal tank (heavy gauge) mfg.....	-	26	19	1 228	46 281	882	2 011	32 050	76 204	70 314	146 936	4 113
33243	Metal can, box, & other metal container (light gauge) mfg.....	-	15	9	1 160	44 001	912	2 038	32 003	136 743	299 015	443 973	2 898
332431	Metal can mfg.....	-	6	4	500	25 082	413	942	20 325	82 470	209 331	697 777	D
332439	Other metal container mfg.....	-	9	5	660	18 919	499	1 096	11 678	54 273	89 684	144 196	D
3326	Spring & wire product mfg.	1	30	13	981	30 721	778	1 602	18 007	59 379	54 416	114 704	6 375
33261	Spring & wire product mfg.....	1	30	13	981	30 721	778	1 602	18 007	59 379	54 416	114 704	6 375
332618	Other fabricated wire product mfg.....	2	22	8	673	19 935	515	1 114	12 350	36 527	41 540	78 947	3 968
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	2	614	120	8 620	317 126	6 737	13 785	211 071	591 576	270 495	856 557	54 173
33271	Machine shops.....	2	548	99	7 084	262 221	5 547	11 317	175 965	490 523	210 259	697 205	42 155
332710	Machine shops.....	2	548	99	7 084	262 221	5 547	11 317	175 965	490 523	210 259	697 205	42 155
33272	Turned product & screw, nut, & bolt mfg.....	1	66	21	1 536	54 905	1 190	2 468	35 106	101 053	60 236	159 352	12 018
332721	Precision turned product mfg.....	-	41	11	848	31 441	672	1 417	20 412	59 914	26 556	85 547	7 028
332722	Bolt, nut, screw, rivet, & washer mfg.....	3	25	10	688	23 464	518	1 051	14 694	41 139	33 680	73 805	4 990
3328	Coating, engraving, heat treating, & allied activities.	1	143	60	4 104	133 289	3 323	7 158	89 912	302 304	192 737	492 407	17 022
33281	Coating, engraving, heat treating, & allied activities.....	1	143	60	4 104	133 289	3 323	7 158	89 912	302 304	192 737	492 407	17 022
332811	Metal heat treating....	-	27	15	1 252	39 912	1 033	1 945	27 357	85 135	49 173	134 129	4 611
332812	Metal coating/engraving (exc jewelry/silverware)/allied services.....	1	61	25	1 686	55 743	1 394	3 209	38 708	146 316	104 390	248 372	8 399
332813	Electroplating, plating, polishing, anodizing, & coloring.....	1	55	20	1 166	37 634	896	2 004	23 847	70 853	39 174	109 906	4 012
3329	Other fabricated metal product mfg.....	-	220	98	9 423	319 402	6 312	12 995	179 331	798 287	674 415	1 484 237	39 639
33291	Metal valve mfg.....	1	94	54	5 483	195 913	3 325	6 970	101 858	511 507	407 510	931 320	22 856
332911	Industrial valve mfg....	-	44	30	3 691	141 184	2 106	4 316	70 099	384 093	295 806	691 701	17 306
332912	Fluid power valve & hose fitting mfg.....	2	15	3	e	D	D	D	D	D	D	D	D
332919	Other metal valve & pipe fitting mfg.....	3	34	20	1 496	43 965	1 040	2 320	27 242	93 142	100 839	195 487	4 811
33299	All other fabricated metal product mfg.....	-	126	44	3 940	123 489	2 987	6 025	77 473	286 780	266 905	552 917	16 783
332996	Fabricated pipe & pipe fitting mfg.....	-	45	23	2 066	60 840	1 612	3 623	38 150	142 974	183 553	325 302	9 949
332999	All other miscellaneous fabricated metal product mfg.....	-	57	18	1 618	54 927	1 170	1 996	34 010	129 550	77 570	207 306	6 124

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	HOUSTON—GALVESTON—BRAZORIA, TX CMSA—Con.												
	Houston, TX PMSA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg	—	492	192	25 124	974 892	15 667	32 165	527 297	3 132 163	2 884 616	5 832 849	227 400
3331	Agriculture, construction, & mining machinery mfg.	—	160	79	12 775	566 857	8 025	16 662	297 759	1 845 325	1 209 605	2 850 327	147 488
33312	Construction machinery mfg.	1	13	5	596	20 983	399	818	11 057	20 039	47 490	69 684	2 561
333120	Construction machinery mfg.	1	13	5	596	20 983	399	818	11 057	20 039	47 490	69 684	2 561
33313	Mining & oil & gas field machinery mfg.	—	142	73	12 131	544 447	7 590	15 794	285 546	1 823 830	1 160 964	2 778 029	144 661
333132	Oil & gas field machinery & equipment mfg.	—	138	71	j	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg. ..	3	41	13	1 006	34 440	557	1 105	16 580	54 203	68 734	120 544	4 151
33329	Other industrial machinery mfg.	3	37	13	990	34 103	547	1 094	16 402	53 457	68 132	119 194	4 108
333294	Food product machinery mfg.	—	5	2	281	10 272	175	344	5 111	8 842	18 828	27 538	1 207
333298	All other industrial machinery mfg.	4	27	11	693	23 242	361	730	11 002	43 307	48 432	89 457	2 846
3333	Commercial & service industry machinery mfg. ..	1	28	10	681	25 958	408	760	11 766	61 685	49 182	108 538	2 586
33331	Commercial & service industry machinery mfg.	1	28	10	681	25 958	408	760	11 766	61 685	49 182	108 538	2 586
333319	Other commercial & service industry machinery mfg.	—	21	10	629	24 608	375	713	11 037	58 560	46 386	102 504	2 236
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.	—	37	18	2 641	76 681	1 889	3 689	49 960	331 524	446 183	822 558	20 200
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg.	—	37	18	2 641	76 681	1 889	3 689	49 960	331 524	446 183	822 558	20 200
333415	AC & warm air heating & commercial/ industrial refrig equip mfg.	—	22	13	2 398	70 634	1 712	3 383	46 615	316 973	434 193	796 944	19 697
3335	Metalworking machinery mfg.	2	63	14	1 007	31 753	770	1 392	20 915	76 733	34 970	109 469	8 329
33351	Metalworking machinery mfg.	2	63	14	1 007	31 753	770	1 392	20 915	76 733	34 970	109 469	8 329
333515	Cutting tool & machine tool accessory mfg. ..	2	27	8	622	19 310	473	925	12 983	48 146	20 651	67 843	5 835
3336	Engine, turbine, & power transmission equipment mfg.	—	20	7	2 390	60 856	1 171	2 513	42 530	249 225	347 703	651 412	23 314
33361	Engine, turbine, & power transmission equipment mfg.	—	20	7	2 390	60 856	1 171	2 513	42 530	249 225	347 703	651 412	23 314
333611	Turbine & turbine generator set unit mfg.	—	7	4	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg.	1	143	51	4 624	178 347	2 847	6 044	87 787	513 468	728 239	1 170 001	21 332
33391	Pump & compressor mfg.	1	36	15	1 468	56 538	962	2 044	28 430	164 041	177 933	326 826	6 146
333911	Pump & pumping equipment mfg.	1	24	9	874	36 081	542	1 077	17 001	86 085	118 145	195 648	4 547
333912	Air & gas compressor mfg.	—	10	5	f	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg.	—	31	12	1 371	57 932	763	1 798	25 586	237 770	472 059	652 146	7 366
333922	Conveyor & conveying equipment mfg.	3	10	3	298	9 124	174	327	3 803	18 814	21 042	40 637	616
333924	Industrial truck, tractor, trailer, & stacker machinery mfg.	—	9	4	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg.	2	76	24	1 785	63 877	1 122	2 202	33 771	111 657	78 247	191 029	7 820
333991	Power-driven handtool mfg.	—	4	3	516	21 346	267	518	10 325	47 096	11 601	57 905	D
333999	All other miscellaneous general-purpose machinery mfg.	3	46	12	825	26 082	555	1 037	14 231	33 151	37 970	71 817	3 291

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	HOUSTON—GALVESTON—BRAZORIA, TX CMSA—Con.												
	Houston, TX PMSA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg.....	-	250	90	17 061	688 248	10 402	16 834	245 417	3 427 085	5 918 399	9 496 087	104 569
3341	Computer & peripheral equipment mfg.....	-	32	9	i	D	D	D	D	D	D	D	14 106
33411	Computer & peripheral equipment mfg.....	-	32	9	i	D	D	D	D	D	D	D	14 106
334111	Electronic computer mfg.....	-	19	4	i	D	D	D	D	D	D	D	11 447
334119	Other computer peripheral equipment mfg.....	4	10	3	e	D	D	D	D	D	D	D	D
3342	Communications equipment mfg.....	4	20	6	g	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg.....	4	14	6	g	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg.....	4	14	6	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	1	57	19	h	D	D	D	D	D	D	D	58 601
33441	Semiconductor & other electronic component mfg.....	1	57	19	h	D	D	D	D	D	D	D	58 601
334412	Bare printed circuit board mfg.....	4	25	9	398	10 760	312	625	6 899	22 768	20 541	43 813	1 455
334413	Semiconductor & related device mfg...	-	5	1	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	1	132	56	5 105	195 512	2 788	5 586	83 014	476 738	363 447	837 435	24 188
33451	Navigational, measuring, medical, & control instruments mfg.....	1	132	56	5 105	195 512	2 788	5 586	83 014	476 738	363 447	837 435	24 188
334510	Electromedical & electrotherapeutic apparatus mfg.....	2	7	5	487	18 883	184	354	5 059	34 211	13 542	47 666	D
334513	Industrial process control instrument mfg.....	1	47	21	1 450	61 346	666	1 261	21 046	114 088	97 554	210 628	5 183
334514	Totalizing fluid meter & counting device mfg..	1	6	4	380	15 080	245	615	8 716	39 172	24 866	62 820	D
334516	Analytical laboratory instrument mfg.....	2	21	6	542	16 628	351	735	9 984	36 495	16 261	52 936	924
334519	Other measuring & controlling device mfg.....	-	23	11	1 570	57 549	1 002	1 926	29 540	187 258	159 190	348 156	8 157
335	Electrical equipment, appliance, & component mfg.....	1	115	40	6 103	207 034	3 940	7 981	106 781	477 227	672 097	1 152 722	37 579
3351	Electric lighting equipment mfg.....	-	14	5	542	15 010	424	931	10 320	49 843	64 609	114 997	D
33512	Lighting fixture mfg.....	-	13	5	f	D	D	D	D	D	D	D	1 187
335122	Commercial/industrial/institutional electric lighting fixture mfg...	-	4	3	346	7 065	286	610	5 415	31 899	47 698	79 732	D
3353	Electrical equipment mfg..	-	60	17	2 914	113 237	1 842	3 420	54 480	164 290	392 825	563 022	16 959
33531	Electrical equipment mfg.....	-	60	17	2 914	113 237	1 842	3 420	54 480	164 290	392 825	563 022	16 959
335312	Motor & generator mfg.....	-	6	3	g	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg.....	-	15	4	1 240	44 242	895	1 844	25 760	56 263	142 838	198 885	3 878
335314	Relay & industrial control mfg.....	3	31	9	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg.....	2	36	18	2 602	77 323	1 638	3 555	41 051	259 722	209 799	466 345	19 150
33592	Communication & energy wire & cable mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg...	-	2	2	f	D	D	D	D	D	D	D	D
33593	Wiring device mfg.....	-	10	5	f	D	D	D	D	D	D	D	4 104
335931	Current-carrying wiring device mfg.....	-	5	3	e	D	D	D	D	D	D	D	2 153
335932	Noncurrent-carrying wiring device mfg.....	-	5	2	362	10 689	307	682	8 421	61 954	30 436	92 570	1 951

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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)				
	HOUSTON—GALVESTON—BRAZORIA, TX CMSA—Con.												
	Houston, TX PMSA—Con.												
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg—Con.												
3359	Other electrical equipment & component mfg—Con.												
33599	All other electrical equipment & component mfg	6	23	11	919	30 442	566	1 232	12 939	78 624	47 094	127 755	D
335999	All other miscellaneous electrical equipment & component mfg	6	22	10	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	3	123	43	3 375	103 330	2 700	4 912	67 733	176 832	247 985	425 065	17 242
3362	Motor vehicle body & trailer mfg	3	17	10	423	12 315	356	746	7 914	24 748	45 378	68 849	822
33621	Motor vehicle body & trailer mfg	3	17	10	423	12 315	356	746	7 914	24 748	45 378	68 849	822
3363	Motor vehicle parts mfg ...	6	44	10	833	18 836	679	877	12 718	30 931	44 591	76 850	3 865
33632	Motor vehicle electrical & electronic equipment mfg	4	9	2	346	6 921	292	293	5 148	7 032	10 780	18 450	549
336322	Other motor vehicle electrical & electronic equipment mfg	4	8	2	e	D	D	D	D	D	D	D	D
3366	Ship & boat building	1	33	12	1 491	49 870	1 199	2 294	32 808	79 909	95 722	175 642	10 326
33661	Ship & boat building	1	33	12	1 491	49 870	1 199	2 294	32 808	79 909	95 722	175 642	10 326
336611	Ship building & repairing	—	28	12	1 462	49 383	1 175	2 258	32 466	78 863	94 663	173 526	10 301
3369	Other transportation equipment mfg	3	14	5	272	9 322	218	547	6 048	18 280	44 751	62 349	D
33699	Other transportation equipment mfg	3	14	5	272	9 322	218	547	6 048	18 280	44 751	62 349	D
336999	All other transportation equipment mfg	3	9	5	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	156	33	3 172	66 263	2 402	4 501	43 729	159 088	136 509	293 991	5 386
3371	Household & institutional furniture & kitchen cabinet mfg	4	103	11	983	18 467	737	1 259	12 913	38 196	35 295	73 044	1 448
33711	Wood kitchen cabinet & counter top mfg	3	36	3	260	6 210	217	404	4 680	11 871	10 255	22 106	471
337110	Wood kitchen cabinet & counter top mfg ...	3	36	3	260	6 210	217	404	4 680	11 871	10 255	22 106	471
33712	Household & institutional furniture mfg	5	67	8	723	12 257	520	855	8 233	26 325	25 040	50 938	977
337121	Upholstered household furniture mfg	6	26	4	253	3 777	220	303	3 040	7 136	7 911	15 034	213
3372	Office furniture (including fixtures) mfg	1	36	11	860	24 670	689	1 337	16 049	47 051	26 142	73 802	1 481
33721	Office furniture (including fixtures) mfg	1	36	11	860	24 670	689	1 337	16 049	47 051	26 142	73 802	1 481
337212	Custom architectural woodwork & millwork mfg	—	16	5	457	13 580	355	667	8 382	30 452	9 876	40 864	547
337215	Showcase, partition, shelving, & locker mfg	2	13	5	328	9 445	272	577	6 515	13 325	13 284	26 584	780
3379	Other furniture related product mfg	—	17	11	1 329	23 126	976	1 905	14 767	73 841	75 072	147 145	2 457
33791	Mattress mfg	1	10	6	404	7 307	277	528	4 673	22 009	23 048	45 063	768
337910	Mattress mfg	1	10	6	404	7 307	277	528	4 673	22 009	23 048	45 063	768
33792	Blind & shade mfg	—	7	5	925	15 819	699	1 377	10 094	51 832	52 024	102 082	1 689
337920	Blind & shade mfg	—	7	5	925	15 819	699	1 377	10 094	51 832	52 024	102 082	1 689
339	Miscellaneous mfg	2	403	78	7 589	212 829	5 157	10 783	116 904	643 013	308 143	952 511	35 254
3391	Medical equipment & supplies mfg	1	137	20	2 349	75 527	1 693	3 376	40 678	324 659	93 397	416 467	11 374
33911	Medical equipment & supplies mfg	1	137	20	2 349	75 527	1 693	3 376	40 678	324 659	93 397	416 467	11 374
339112	Surgical & medical instrument mfg	4	20	7	625	25 360	369	728	9 633	51 230	27 761	76 104	3 255
339113	Surgical appliance & supplies mfg	—	20	7	951	31 004	767	1 648	18 845	237 972	47 935	285 787	6 881
339116	Dental laboratories ...	3	82	5	595	15 080	445	795	9 994	28 617	10 360	39 571	926

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	HOUSTON—GALVESTON—BRAZORIA, TX CMSA—Con.												
	Houston, TX PMSA—Con.												
31-33	Manufacturing—Con.												
339	Miscellaneous mfg—Con.												
3399	Other miscellaneous mfg ..	3	266	58	5 240	137 302	3 464	7 407	76 226	318 354	214 746	536 044	23 880
33991	Jewelry & silverware mfg	5	34	5	485	11 688	359	783	7 018	24 826	25 185	51 171	426
339911	Jewelry (except costume) mfg	4	22	4	407	9 613	297	632	5 717	20 625	22 794	44 579	365
33992	Sporting & athletic goods mfg	2	26	4	262	5 671	195	356	3 728	13 553	11 773	25 287	583
339920	Sporting & athletic goods mfg	2	26	4	262	5 671	195	356	3 728	13 553	11 773	25 287	583
33995	Sign mfg	3	105	16	1 022	26 767	637	1 160	12 739	56 035	29 962	86 042	1 953
339950	Sign mfg	3	105	16	1 022	26 767	637	1 160	12 739	56 035	29 962	86 042	1 953
33999	All other miscellaneous mfg	2	85	30	3 255	89 124	2 156	4 879	50 670	215 932	142 615	360 323	20 515
339991	Gasket, packing, & sealing device mfg...	3	34	19	1 931	59 856	1 223	2 888	33 375	144 036	87 871	232 549	12 949
339999	All other miscellaneous mfg	1	40	9	1 144	26 889	835	1 793	15 702	66 335	49 204	116 633	7 284
	KILLEEN—TEMPLE, TX MSA												
31-33	Manufacturing	-	160	52	7 921	236 466	6 171	13 542	165 987	716 524	691 699	1 403 617	50 818
315	Apparel mfg	1	12	3	321	3 713	209	354	2 375	5 403	7 157	13 305	212
3152	Cut & sew apparel mfg	1	12	3	321	3 713	209	354	2 375	5 403	7 157	13 305	212
321	Wood product mfg	-	7	4	428	11 649	390	691	7 313	26 938	42 791	69 336	15 202
3219	Other wood product mfg ...	-	6	3	e	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	-	16	2	364	6 104	213	398	3 632	20 603	3 863	24 489	1 045
3231	Printing & related support activities.....	-	16	2	364	6 104	213	398	3 632	20 603	3 863	24 489	1 045
32311	Printing	-	16	2	364	6 104	213	398	3 632	20 603	3 863	24 489	1 045
323113	Commercial screen printing.....	-	4	1	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	17	10	2 925	118 786	2 382	6 265	89 799	418 222	327 633	745 050	18 731
3261	Plastics product mfg	-	16	10	h	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
326111	Unsupported plastics bag mfg	-	1	1	f	D	D	D	D	D	D	D	D
32613	Laminated plastics plate, sheet, & shape mfg	-	3	2	g	D	D	D	D	D	D	D	D
326130	Laminated plastics plate, sheet, & shape mfg	-	3	2	g	D	D	D	D	D	D	D	D
32615	Urethane & other foam product (except polystyrene) mfg	-	1	1	e	D	D	D	D	D	D	D	D
326150	Urethane & other foam product (except polystyrene) mfg	-	1	1	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	11	6	455	12 252	348	728	8 721	65 589	59 317	121 438	D
326199	All other plastics product mfg	-	9	6	e	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	5	5	654	17 011	560	1 323	11 822	31 774	26 310	57 161	1 998
3315	Foundries	-	5	5	654	17 011	560	1 323	11 822	31 774	26 310	57 161	1 998
33152	Nonferrous metal foundries	-	2	2	e	D	D	D	D	D	D	D	D
331521	Aluminum die-casting foundries	-	1	1	e	D	D	D	D	D	D	D	D
333	Machinery mfg	-	9	4	640	18 873	517	1 179	12 685	38 410	31 070	68 921	2 123
3339	Other general-purpose machinery mfg	-	3	2	e	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	-	2	2	e	D	D	D	D	D	D	D	D
333995	Fluid power cylinder & actuator mfg	-	2	2	e	D	D	D	D	D	D	D	D

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31-33	KILLEEN-TEMPLE, TX MSA—Con.												
	Manufacturing—Con.												
337	Furniture & related product mfg	-	27	7	1 426	29 215	1 038	1 642	18 784	71 215	71 697	142 265	4 557
3371	Household & institutional furniture & kitchen cabinet mfg	-	20	4	g	D	D	D	D	D	D	D	2 898
33712	Household & institutional furniture mfg	-	9	3	1 024	19 979	757	1 202	13 003	37 331	46 042	82 741	D
337127	Institutional furniture mfg	-	3	3	998	19 622	736	1 170	12 728	36 576	45 488	81 426	D
3372	Office furniture (including fixtures) mfg	1	6	3	318	7 783	210	340	4 701	31 185	23 539	54 700	1 659
33721	Office furniture (including fixtures) mfg	1	6	3	318	7 783	210	340	4 701	31 185	23 539	54 700	1 659
	LAREDO, TX MSA												
31-33	Manufacturing	1	87	15	1 402	28 081	969	1 530	15 533	136 779	120 963	258 590	18 501
316	Leather & allied product mfg	-	3	1	e	D	D	D	D	D	D	D	D
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
316212	House slipper mfg	-	1	1	e	D	D	D	D	D	D	D	D
	LONGVIEW-MARSHALL, TX MSA												
31-33	Manufacturing	-	326	128	16 739	543 994	12 378	24 531	342 069	1 718 638	2 381 715	4 090 189	203 315
311	Food mfg	5	17	6	261	5 732	186	306	3 647	14 168	44 181	57 983	1 663
312	Beverage & tobacco product mfg	-	2	1	e	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	2	1	e	D	D	D	D	D	D	D	D
31212	Breweries	-	1	1	e	D	D	D	D	D	D	D	D
312120	Breweries	-	1	1	e	D	D	D	D	D	D	D	D
315	Apparel mfg	-	4	2	273	4 245	235	452	3 051	6 058	11 396	17 739	D
3159	Apparel accessories & other apparel mfg	-	2	2	e	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	-	2	2	e	D	D	D	D	D	D	D	D
315991	Hat, cap, & millinery mfg	-	2	2	e	D	D	D	D	D	D	D	D
321	Wood product mfg	2	19	8	431	8 077	387	769	6 593	20 537	38 282	56 627	6 098
3211	Sawmills & wood preservation	1	5	5	285	5 694	261	522	4 806	16 053	32 395	46 252	5 525
32111	Sawmills & wood preservation	1	5	5	285	5 694	261	522	4 806	16 053	32 395	46 252	5 525
323	Printing & related support activities	1	17	4	258	6 389	203	354	4 717	14 044	11 173	25 111	669
3231	Printing & related support activities	1	17	4	258	6 389	203	354	4 717	14 044	11 173	25 111	669
32311	Printing	1	17	4	258	6 389	203	354	4 717	14 044	11 173	25 111	669
325	Chemical mfg	-	12	8	2 952	164 151	1 762	3 616	86 692	692 319	1 002 539	1 694 391	132 623
3251	Basic chemical mfg	-	4	3	h	D	D	D	D	D	D	D	121 615
32519	Other basic organic chemical mfg	-	2	2	h	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	-	2	2	h	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	11	5	728	18 582	576	1 086	12 081	60 125	44 696	104 299	8 639
3261	Plastics product mfg	1	10	5	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	4	7	2	365	10 252	299	433	6 211	20 496	21 201	41 721	D
326199	All other plastics product mfg	4	6	2	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	2	28	13	1 092	21 786	937	2 026	17 683	39 243	26 557	67 810	2 389
3271	Clay product & refractory mfg	2	18	10	993	19 431	853	1 846	15 934	32 757	18 716	53 519	2 198
32711	Pottery, ceramics, & plumbing fixture mfg	2	16	9	f	D	D	D	D	D	D	D	D
327111	Vitreous china plumbing fixture & bathroom accessories mfg	-	2	2	f	D	D	D	D	D	D	D	D
327112	Vitreous china, fine earthenware, & other pottery product mfg	5	14	7	e	D	D	D	D	D	D	D	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	LONGVIEW—MARSHALL, TX MSA—Con. Manufacturing—Con.												
331	Primary metal mfg	—	8	5	921	23 842	771	1 941	16 954	92 237	134 395	224 047	3 477
3314	Nonferrous metal (except aluminum) production & processing	—	1	1	e	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
3315	Foundries	—	6	4	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	—	4	3	e	D	D	D	D	D	D	D	624
331512	Steel investment foundries	—	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	96	32	2 751	83 536	2 199	4 123	59 101	168 229	246 886	414 854	13 899
3321	Forging & stamping	9	1	1	e	D	D	D	D	D	D	D	D
33211	Forging & stamping	9	1	1	e	D	D	D	D	D	D	D	D
332111	Iron & steel forging	9	1	1	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	1	14	6	308	7 155	236	355	4 289	11 035	11 347	22 501	176
3324	Boiler, tank, & shipping container mfg	—	11	8	f	D	D	D	D	D	D	D	6 345
33242	Metal tank (heavy gauge) mfg	—	7	6	648	22 167	545	1 248	14 645	54 261	127 629	180 892	D
332420	Metal tank (heavy gauge) mfg	—	7	6	648	22 167	545	1 248	14 645	54 261	127 629	180 892	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	43	13	783	22 369	601	1 028	14 968	37 902	23 854	61 494	4 424
33271	Machine shops	—	40	11	679	19 151	509	835	12 446	33 953	19 474	53 205	2 936
332710	Machine shops	—	40	11	679	19 151	509	835	12 446	33 953	19 474	53 205	2 936
3329	Other fabricated metal product mfg	1	16	3	348	9 337	277	542	6 689	19 218	20 153	38 526	1 102
33299	All other fabricated metal product mfg	1	13	2	299	7 595	240	469	5 710	15 585	17 673	32 570	878
333	Machinery mfg	1	34	21	3 032	92 042	2 161	4 253	61 762	160 439	235 797	389 787	12 858
3331	Agriculture, construction, & mining machinery mfg	—	12	6	1 905	61 456	1 364	2 749	43 510	78 605	152 004	225 241	8 497
33312	Construction machinery mfg	—	2	2	g	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	—	2	2	g	D	D	D	D	D	D	D	D
33313	Mining & oil & gas field machinery mfg	2	10	4	f	D	D	D	D	D	D	D	D
333132	Oil & gas field machinery & equipment mfg	2	9	4	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	1	7	6	586	13 847	407	656	7 427	32 766	37 516	70 991	2 229
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	1	7	6	586	13 847	407	656	7 427	32 766	37 516	70 991	2 229
333415	AC & warm air heating & commercial/industrial refrig equip mfg	—	5	4	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	6	9	6	404	12 453	295	642	7 924	39 044	38 595	76 949	1 458
334	Computer & electronic product mfg	1	15	6	888	25 543	587	1 007	10 585	132 912	75 614	208 412	2 032
3342	Communications equipment mfg	—	4	4	f	D	D	D	D	D	D	D	1 759
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	2	2	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	3	7	2	289	7 341	134	236	2 615	14 543	23 904	40 498	1 158
3359	Other electrical equipment & component mfg	3	3	2	e	D	D	D	D	D	D	D	D

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	LONGVIEW–MARSHALL, TX MSA—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg	1	15	7	1 615	47 975	1 306	2 811	33 512	148 175	318 589	464 014	5 999
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
336214	Travel trailer & camper mfg	—	1	1	e	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	1	6	2	e	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	—	2	1	e	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	—	2	1	e	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	—	3	2	e	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	—	3	2	e	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	—	3	2	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	—	13	4	394	7 320	311	524	5 044	28 314	22 002	49 818	D
3371	Household & institutional furniture & kitchen cabinet mfg	—	12	3	e	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet & counter top mfg	—	6	2	e	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet & counter top mfg ...	—	6	2	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	9	19	1	280	4 419	180	204	2 382	8 643	6 138	14 789	459
3399	Other miscellaneous mfg ..	9	15	1	266	4 195	171	194	2 274	8 052	5 808	13 857	426
	LUBBOCK, TX MSA												
31-33	Manufacturing	—	258	71	7 286	203 827	5 026	9 809	99 960	881 411	695 508	1 566 439	142 257
311	Food mfg	—	32	12	1 496	42 562	936	2 046	21 030	144 765	279 515	424 057	65 324
3112	Grain & oilseed milling	—	2	2	e	D	D	D	D	D	D	D	D
31122	Starch & vegetable fats & oils mfg	—	2	2	e	D	D	D	D	D	D	D	D
311223	Other oilseed processing.....	—	2	2	e	D	D	D	D	D	D	D	D
3115	Dairy product mfg	—	2	2	e	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	—	2	2	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	—	11	2	419	10 938	168	400	4 051	24 909	14 593	39 515	1 020
31181	Bread & bakery product mfg	—	10	2	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	—	3	2	e	D	D	D	D	D	D	D	D
3119	Other food mfg	—	3	2	e	D	D	D	D	D	D	D	D
321	Wood product mfg	1	13	4	323	7 294	268	491	4 683	13 889	10 543	24 461	1 183
3219	Other wood product mfg ...	1	13	4	323	7 294	268	491	4 683	13 889	10 543	24 461	1 183
323	Printing & related support activities.....	4	34	4	348	9 633	250	459	6 556	18 719	12 775	31 499	1 144
3231	Printing & related support activities.....	4	34	4	348	9 633	250	459	6 556	18 719	12 775	31 499	1 144
32311	Printing	4	32	4	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	10	3	685	17 111	496	889	7 663	38 255	38 897	78 085	3 895
3261	Plastics product mfg	—	6	3	656	16 394	482	853	7 329	36 752	35 358	73 041	D
32619	Other plastics product mfg	—	4	2	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	—	4	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	43	8	765	20 850	555	1 173	12 651	65 536	61 148	121 607	8 376
3323	Architectural & structural metals mfg	—	18	3	317	9 824	202	457	4 714	31 004	39 553	70 590	5 348

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LUBBOCK, TX MSA—Con.													
31-33	Manufacturing—Con.												
333	Machinery mfg	-	31	18	1 863	48 233	1 396	2 856	26 966	105 160	155 380	256 094	5 725
3331	Agriculture, construction, & mining machinery mfg	-	8	4	656	17 899	531	1 044	9 073	53 038	73 818	121 931	2 446
33312	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg	-	11	6	457	11 821	329	666	6 536	22 885	18 714	41 215	D
33329	Other industrial machinery mfg	-	11	6	457	11 821	329	666	6 536	22 885	18 714	41 215	D
333298	All other industrial machinery mfg	-	10	6	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	9	6	683	17 229	486	1 042	10 303	27 675	59 927	87 765	2 798
33391	Pump & compressor mfg	-	4	3	305	9 378	191	389	4 982	15 444	34 112	49 867	1 415
333911	Pump & pumping equipment mfg	-	4	3	305	9 378	191	389	4 982	15 444	34 112	49 867	1 415
33399	All other general-purpose machinery mfg	-	5	3	378	7 851	295	653	5 321	12 231	25 815	37 898	1 383
333999	All other miscellaneous general-purpose machinery mfg	-	3	2	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	1	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	1	1	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
339	Miscellaneous mfg	5	27	5	335	6 917	249	364	3 927	17 864	12 807	30 882	D
MCALLEN—EDINBURG—MISSION, TX MSA													
31-33	Manufacturing	-	261	67	10 284	178 274	8 159	13 667	123 139	671 915	749 801	1 428 173	40 651
311	Food mfg	1	50	14	2 119	32 302	1 611	2 567	21 246	107 244	152 517	264 763	11 275
3114	Fruit & vegetable preserving & specialty food mfg	1	6	5	1 081	17 120	887	1 346	11 707	57 874	83 894	146 968	7 057
31141	Frozen food mfg	4	3	3	f	D	D	D	D	D	D	D	3 142
311411	Frozen fruit, juice, & vegetable mfg	4	3	3	f	D	D	D	D	D	D	D	3 142
31142	Fruit & vegetable canning, pickling, & drying	-	3	2	e	D	D	D	D	D	D	D	3 915
311423	Dried & dehydrated food mfg	-	1	1	e	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	4	2	e	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	4	2	e	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	-	1	1	e	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	-	7	2	e	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	7	2	e	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	-	6	2	e	D	D	D	D	D	D	D	D
314	Textile product mills	-	5	3	314	5 930	251	504	3 774	12 074	12 875	25 179	D
315	Apparel mfg	-	18	11	4 191	60 755	3 617	5 748	47 791	275 484	287 226	564 881	1 906
3152	Cut & sew apparel mfg	-	17	11	h	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	-	8	6	h	D	D	D	D	D	D	D	657
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	-	4	2	f	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
315225	Men's & boys' cut & sew work clothing mfg	-	2	2	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	4	3	g	D	D	D	D	D	D	D	1 232
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	-	1	1	e	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	-	1	1	f	D	D	D	D	D	D	D	D

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	MCALLEN—EDINBURG—MISSION, TX MSA—Con.												
31-33	Manufacturing—Con.												
322	Paper mfg	—	5	4	406	11 791	311	620	7 306	30 773	63 837	94 012	1 084
3222	Converted paper product mfg	—	5	4	406	11 791	311	620	7 306	30 773	63 837	94 012	1 084
32221	Paperboard container mfg	—	5	4	406	11 791	311	620	7 306	30 773	63 837	94 012	1 084
322211	Corrugated & solid fiber box mfg	—	4	4	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	13	6	466	8 563	342	632	6 177	20 965	12 440	34 157	712
3261	Plastics product mfg	1	11	6	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	9	6	e	D	D	D	D	D	D	D	679
326199	All other plastics product mfg	1	8	5	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	29	3	338	8 589	269	444	6 032	26 128	25 223	51 400	D
333	Machinery mfg	—	11	3	505	9 954	399	750	6 942	30 195	19 789	49 340	675
3331	Agriculture, construction, & mining machinery mfg	—	5	2	e	D	D	D	D	D	D	D	631
33312	Construction machinery mfg	—	2	2	e	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	—	2	2	e	D	D	D	D	D	D	D	D
	ODESSA—MIDLAND, TX MSA												
31-33	Manufacturing	1	338	87	5 961	192 141	4 094	8 142	106 979	657 802	962 617	1 612 232	51 770
325	Chemical mfg	1	19	8	648	26 215	432	1 007	16 762	232 396	343 554	566 510	27 710
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	—	2	2	e	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg	—	2	2	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	14	2	312	8 032	253	580	5 301	11 939	20 410	32 720	860
3261	Plastics product mfg	1	7	1	255	6 462	211	506	4 477	8 142	17 931	26 540	698
32619	Other plastics product mfg	1	7	1	255	6 462	211	506	4 477	8 142	17 931	26 540	698
326199	All other plastics product mfg	1	6	1	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	15	4	257	7 878	170	270	4 744	48 512	26 919	75 578	1 396
332	Fabricated metal product mfg	1	105	26	1 565	48 552	1 178	2 467	30 191	104 929	76 662	182 386	5 141
3324	Boiler, tank, & shipping container mfg	—	9	6	e	D	D	D	D	D	D	D	D
33242	Metal tank (heavy gauge) mfg	—	8	6	356	11 901	256	589	6 659	25 596	26 420	53 104	1 056
332420	Metal tank (heavy gauge) mfg	—	8	6	356	11 901	256	589	6 659	25 596	26 420	53 104	1 056
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	59	8	f	D	D	D	D	D	D	D	D
33271	Machine shops	1	57	8	549	17 639	416	866	11 510	40 160	15 452	55 633	1 970
332710	Machine shops	1	57	8	549	17 639	416	866	11 510	40 160	15 452	55 633	1 970
333	Machinery mfg	2	75	27	1 469	45 700	984	1 923	26 159	106 762	85 204	190 297	8 407
3331	Agriculture, construction, & mining machinery mfg	2	40	10	f	D	D	D	D	D	D	D	D
33313	Mining & oil & gas field machinery mfg	2	39	10	f	D	D	D	D	D	D	D	4 341
333132	Oil & gas field machinery & equipment mfg	2	38	10	634	20 060	452	820	11 519	47 236	40 213	85 130	D
3339	Other general-purpose machinery mfg	1	24	14	663	20 728	398	874	11 231	51 536	35 290	86 543	3 457
33391	Pump & compressor mfg	—	18	12	567	17 348	326	717	9 026	44 183	30 462	74 392	2 974
333911	Pump & pumping equipment mfg	—	12	8	371	12 297	207	450	6 047	32 908	23 961	56 587	2 306
334	Computer & electronic product mfg	2	11	3	381	19 886	129	259	2 589	50 164	18 943	68 572	1 099

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31-33	ODESSA—MIDLAND, TX MSA—Con.												
	Manufacturing—Con.												
336	Transportation equipment mfg.....	7	14	7	533	14 529	355	627	7 924	28 208	38 377	66 689	2 251
3362	Motor vehicle body & trailer mfg.....	9	5	2	328	8 258	234	417	4 933	17 148	31 478	48 773	1 440
33621	Motor vehicle body & trailer mfg.....	9	5	2	328	8 258	234	417	4 933	17 148	31 478	48 773	1 440
336214	Travel trailer & camper mfg.....	9	2	2	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	3	18	3	258	5 203	212	313	3 194	11 824	6 919	18 361	253
	SAN ANGELO, TX MSA												
31-33	Manufacturing	2	100	28	4 452	105 090	3 579	7 162	74 707	367 257	463 431	827 641	10 494
311	Food mfg.....	6	17	7	836	16 326	704	1 518	11 796	46 021	164 035	212 576	3 371
3116	Meat product mfg.....	6	7	4	695	13 321	614	1 075	10 272	34 919	149 022	186 578	1 797
31161	Animal slaughtering & processing.....	6	7	4	695	13 321	614	1 075	10 272	34 919	149 022	186 578	1 797
311611	Animal (except poultry) slaughtering.....	7	5	3	f	D	D	D	D	D	D	D	D
315	Apparel mfg.....	-	6	5	638	12 189	596	1 142	11 299	40 695	27 754	68 317	591
3152	Cut & sew apparel mfg....	-	3	3	f	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	13	3	536	13 932	395	840	11 896	24 990	113 550	137 131	795
3323	Architectural & structural metals mfg.....	-	5	2	e	D	D	D	D	D	D	D	D
33231	Plate work & fabricated structural product mfg..	-	4	2	e	D	D	D	D	D	D	D	668
332312	Fabricated structural metal mfg.....	-	4	2	e	D	D	D	D	D	D	D	668
339	Miscellaneous mfg.....	-	14	2	g	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg.....	-	5	1	g	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg.....	-	5	1	g	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
	SAN ANTONIO, TX MSA												
31-33	Manufacturing	1	1 296	354	45 807	1 244 717	32 599	63 623	700 493	3 692 290	3 792 894	7 480 693	302 685
311	Food mfg.....	-	147	41	6 404	146 052	4 363	8 555	82 669	621 384	733 521	1 355 628	38 412
3115	Dairy product mfg.....	-	7	5	f	D	D	D	D	D	D	D	2 386
31151	Dairy product (except frozen) mfg.....	-	4	4	470	12 106	228	463	4 267	40 610	152 215	192 876	2 349
311511	Fluid milk mfg.....	-	4	4	470	12 106	228	463	4 267	40 610	152 215	192 876	2 349
3116	Meat product mfg.....	-	16	7	1 585	28 416	1 325	2 564	21 626	118 616	186 093	304 812	2 397
31161	Animal slaughtering & processing.....	-	16	7	1 585	28 416	1 325	2 564	21 626	118 616	186 093	304 812	2 397
311611	Animal (except poultry) slaughtering.....	-	5	1	e	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses.....	-	9	5	f	D	D	D	D	D	D	D	D
311615	Poultry processing....	-	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg....	-	70	13	1 961	40 632	1 090	2 148	20 481	97 417	95 799	193 081	15 847
31181	Bread & bakery product mfg.....	-	61	11	1 811	37 695	975	1 968	18 515	87 485	90 455	177 826	15 700
311812	Commercial bakeries .	-	12	6	1 128	23 303	448	918	8 979	56 739	54 343	111 000	13 386
311813	Frozen cakes, pies, & other pastries mfg....	-	3	2	e	D	D	D	D	D	D	D	D
3119	Other food mfg.....	1	27	9	1 784	52 760	1 303	2 579	28 790	329 985	204 403	534 430	16 241
31191	Snack food mfg.....	2	9	4	665	16 912	540	1 133	10 061	83 843	88 746	172 782	D
311911	Roasted nuts & peanut butter mfg.....	9	2	2	e	D	D	D	D	D	D	D	D
311919	Other snack food mfg.	-	7	2	e	D	D	D	D	D	D	D	D
31194	Seasoning & dressing mfg.....	-	4	2	f	D	D	D	D	D	D	D	D
311941	Mayonnaise, dressing, & other prepared sauce mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
311942	Spice & extract mfg....	-	3	1	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 em- ploy- ees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SAN ANTONIO, TX MSA—Con. Manufacturing—Con.												
312	Beverage & tobacco product mfg	1	15	10	1 889	56 848	851	1 758	19 307	306 120	265 719	574 498	21 637
3121	Beverage mfg	1	14	9	g	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	—	9	7	g	D	D	D	D	D	D	D	D
312111	Soft drink mfg	—	5	5	1 338	43 942	489	1 146	11 199	248 426	218 051	469 290	17 035
31212	Breweries	9	5	2	e	D	D	D	D	D	D	D	D
312120	Breweries	9	5	2	e	D	D	D	D	D	D	D	D
313	Textile mills	1	10	3	1 000	26 913	815	1 279	17 366	87 610	59 771	143 930	3 457
3132	Fabric mills	1	8	3	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills . . .	—	6	2	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	—	6	2	f	D	D	D	D	D	D	D	D
314	Textile product mills	—	20	6	1 697	25 665	1 289	2 435	17 100	35 327	65 745	98 988	1 332
3141	Textile furnishings mills . . .	—	9	2	g	D	D	D	D	D	D	D	752
31412	Curtain & linen mills	—	9	2	g	D	D	D	D	D	D	D	752
314121	Curtain & drapery mills	—	8	1	g	D	D	D	D	D	D	D	D
3149	Other textile product mills . .	5	11	4	e	D	D	D	D	D	D	D	580
31491	Textile bag & canvas mills	7	5	2	311	3 807	282	510	2 495	4 688	3 605	8 295	510
315	Apparel mfg	—	35	5	1 355	22 501	1 237	2 119	19 606	75 813	51 687	127 455	1 370
3152	Cut & sew apparel mfg	—	24	3	970	16 831	885	1 441	15 185	64 973	47 892	112 667	1 281
31522	Men's & boys' cut & sew apparel mfg	—	3	1	f	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	—	2	1	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	5	7	2	e	D	D	D	D	D	D	D	130
3159	Apparel accessories & other apparel mfg	1	11	2	385	5 670	352	678	4 421	10 840	3 795	14 788	89
31599	Apparel accessories & other apparel mfg	1	11	2	385	5 670	352	678	4 421	10 840	3 795	14 788	89
315991	Hat, cap, & millinery mfg	—	2	2	e	D	D	D	D	D	D	D	D
316	Leather & allied product mfg . .	—	16	7	981	26 736	818	1 403	10 685	62 779	49 794	111 900	937
3162	Footwear mfg	—	3	2	f	D	D	D	D	D	D	D	D
31621	Footwear mfg	—	3	2	f	D	D	D	D	D	D	D	D
316214	Women's footwear (except athletic) mfg .	—	3	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg	3	39	10	853	19 965	736	1 327	12 387	33 715	47 071	80 866	3 379
3219	Other wood product mfg	4	36	9	782	17 835	679	1 235	11 501	29 799	41 686	71 602	3 145
32191	Millwork	4	16	6	551	12 916	470	870	8 202	20 330	33 616	53 945	2 520
321911	Wood window & door mfg	2	6	3	259	5 960	214	380	3 195	9 976	19 549	29 526	D
322	Paper mfg	—	17	10	697	20 090	520	1 096	11 639	49 164	89 563	138 039	5 355
3222	Converted paper product mfg	—	17	10	697	20 090	520	1 096	11 639	49 164	89 563	138 039	5 355
32221	Paperboard container mfg	—	10	8	545	16 259	397	863	9 123	41 256	78 475	118 835	4 491
322211	Corrugated & solid fiber box mfg	—	8	7	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	2	186	31	3 043	79 790	2 121	3 614	46 040	219 940	120 693	338 220	11 268
3231	Printing & related support activities	2	186	31	3 043	79 790	2 121	3 614	46 040	219 940	120 693	338 220	11 268
32311	Printing	2	171	29	2 873	75 781	1 998	3 396	43 127	211 096	118 900	327 643	10 766
323110	Commercial lithographic printing . .	2	93	18	2 053	53 541	1 398	2 339	29 957	156 601	95 023	249 672	6 729
323114	Quick printing	4	41	3	293	7 714	207	342	4 505	14 004	7 659	21 667	680
324	Petroleum & coal products mfg	5	13	5	321	11 304	195	412	5 942	43 968	155 484	201 404	4 312
3241	Petroleum & coal products mfg	5	13	5	321	11 304	195	412	5 942	43 968	155 484	201 404	4 312
325	Chemical mfg	1	47	13	963	31 201	554	1 071	14 391	134 247	90 017	229 588	13 418
3254	Pharmaceutical & medicine mfg	—	14	6	492	15 924	297	576	8 430	62 941	31 481	94 441	5 167
32541	Pharmaceutical & medicine mfg	—	14	6	492	15 924	297	576	8 430	62 941	31 481	94 441	5 167
325412	Pharmaceutical preparation mfg	—	4	1	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)				
SAN ANTONIO, TX MSA—Con.													
31-33	Manufacturing—Con.												
326	Plastics & rubber products mfg.....	3	60	23	2 943	74 788	2 298	4 267	44 906	151 501	180 635	332 492	11 016
3261	Plastics product mfg.....	3	48	20	2 822	72 029	2 224	4 129	43 758	146 509	174 021	320 845	10 758
32613	Laminated plastics plate, sheet, & shape mfg....	9	2	1	e	D	D	D	D	D	D	D	D
326130	Laminated plastics plate, sheet, & shape mfg.....	9	2	1	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg.....	2	33	15	2 238	56 568	1 761	3 407	34 274	90 595	127 566	218 492	7 404
326199	All other plastics product mfg.....	2	29	13	2 071	53 620	1 632	3 147	32 407	84 467	122 944	207 728	7 137
327	Nonmetallic mineral product mfg.....	-	83	28	2 238	66 979	1 781	3 817	46 296	285 697	184 011	471 797	24 668
3273	Cement & concrete product mfg.....	-	52	22	1 627	50 739	1 293	2 825	33 930	232 202	153 114	387 556	16 584
32731	Cement mfg.....	-	4	4	483	20 905	347	873	12 898	137 008	72 257	211 675	12 869
327310	Cement mfg.....	-	4	4	483	20 905	347	873	12 898	137 008	72 257	211 675	12 869
32732	Ready-mix concrete mfg.	-	26	8	399	10 452	343	678	8 451	41 848	41 050	83 041	1 683
327320	Ready-mix concrete mfg.....	-	26	8	399	10 452	343	678	8 451	41 848	41 050	83 041	1 683
32733	Concrete pipe, brick, & block mfg.....	3	8	5	251	7 035	179	367	4 276	22 468	12 281	34 839	1 065
32739	Other concrete product mfg.....	-	14	5	494	12 347	424	907	8 305	30 878	27 526	58 001	967
327390	Other concrete product mfg.....	-	14	5	494	12 347	424	907	8 305	30 878	27 526	58 001	967
3274	Lime & gypsum product mfg.....	-	3	2	e	D	D	D	D	D	D	D	D
331	Primary metal mfg.....	-	8	7	1 525	53 653	1 188	2 617	38 411	94 390	294 620	393 756	10 374
3311	Iron & steel mills & ferroalloy mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
331111	Iron & steel mills.....	-	1	1	f	D	D	D	D	D	D	D	D
3315	Foundries.....	-	5	5	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries.....	-	3	3	430	9 814	356	786	7 450	13 652	12 473	26 040	D
331513	Steel foundries (except investment).....	-	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	1	181	50	3 314	83 468	2 448	4 953	51 485	184 240	160 226	343 416	14 717
3321	Forging & stamping.....	1	6	5	387	9 166	315	638	6 707	31 543	33 579	64 396	2 734
33211	Forging & stamping.....	1	6	5	387	9 166	315	638	6 707	31 543	33 579	64 396	2 734
3323	Architectural & structural metals mfg.....	-	70	21	1 436	38 353	1 091	2 362	23 095	75 157	79 237	154 477	4 099
33231	Plate work & fabricated structural product mfg..	-	29	9	644	17 641	524	1 151	11 898	34 805	36 810	71 578	900
332312	Fabricated structural metal mfg.....	-	22	8	469	12 795	360	832	8 135	21 168	25 222	46 836	785
33232	Ornamental & architectural metal products mfg.....	1	41	12	792	20 712	567	1 211	11 197	40 352	42 427	82 899	3 199
332322	Sheet metal work mfg.	1	26	9	426	12 251	297	587	6 317	24 007	22 507	46 418	1 514
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	1	59	11	618	14 808	484	812	10 277	29 402	12 995	42 277	2 757
33271	Machine shops.....	1	55	9	543	13 223	419	697	9 030	26 124	10 747	36 690	2 096
332710	Machine shops.....	1	55	9	543	13 223	419	697	9 030	26 124	10 747	36 690	2 096
3328	Coating, engraving, heat treating, & allied activities.	3	17	5	285	7 420	228	455	4 612	11 926	4 564	17 214	1 411
33281	Coating, engraving, heat treating, & allied activities.....	3	17	5	285	7 420	228	455	4 612	11 926	4 564	17 214	1 411
333	Machinery mfg.....	3	57	22	3 959	104 519	2 736	5 448	58 684	204 275	323 969	527 305	12 627
3331	Agriculture, construction, & mining machinery mfg....	3	10	4	690	18 508	374	731	9 385	40 523	55 188	93 804	3 025
33311	Agricultural implement mfg.....	-	5	2	e	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg.....	-	5	2	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	3	14	8	2 407	60 886	1 754	3 388	34 501	115 005	222 968	336 430	7 012
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg.	3	14	8	2 407	60 886	1 754	3 388	34 501	115 005	222 968	336 430	7 012
333415	AC & warm air heating & commercial/ industrial refrig equip mfg.....	3	11	8	2 402	60 780	1 750	3 383	34 446	114 748	222 757	335 956	7 001

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	SAN ANTONIO, TX MSA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3339	Other general-purpose machinery mfg	3	16	8	643	18 585	486	1 116	11 355	37 252	38 426	78 200	2 155
33392	Material handling equipment mfg	1	7	4	275	8 460	185	360	4 520	15 681	19 438	35 803	D
333922	Conveyor & conveying equipment mfg	—	5	4	e	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	6	8	3	e	D	D	D	D	D	D	D	1 385
333999	All other miscellaneous general-purpose machinery mfg	9	4	2	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	38	13	2 379	99 479	1 206	2 359	32 021	318 418	116 827	438 883	66 554
3344	Semiconductor & other electronic component mfg	—	9	6	1 840	78 331	1 005	1 990	25 737	278 565	82 198	361 323	D
33441	Semiconductor & other electronic component mfg	—	9	6	1 840	78 331	1 005	1 990	25 737	278 565	82 198	361 323	D
334413	Semiconductor & related device mfg ...	—	2	2	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	3	22	4	331	12 492	139	255	3 831	25 255	22 190	48 324	1 764
33451	Navigational, measuring, medical, & control instruments mfg	3	22	4	331	12 492	139	255	3 831	25 255	22 190	48 324	1 764
335	Electrical equipment, appliance, & component mfg	3	22	7	687	18 421	560	1 098	9 922	49 634	42 969	90 618	4 971
3359	Other electrical equipment & component mfg	4	6	3	423	8 437	359	713	4 538	27 895	24 996	52 486	1 660
336	Transportation equipment mfg	1	59	18	3 972	153 197	2 893	5 700	84 997	472 253	517 544	984 665	35 194
3363	Motor vehicle parts mfg ...	—	24	4	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	—	6	1	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	—	6	1	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	3	21	11	2 173	101 647	1 579	3 634	54 674	164 015	137 755	296 032	18 080
33641	Aerospace product & parts mfg	3	21	11	2 173	101 647	1 579	3 634	54 674	164 015	137 755	296 032	18 080
336411	Aircraft mfg	3	5	4	1 676	82 594	1 237	3 043	43 339	115 697	115 410	223 805	D
336413	Other aircraft part & auxiliary equipment mfg	1	12	5	330	14 729	218	350	8 497	39 431	17 712	58 504	D
337	Furniture & related product mfg	1	82	20	2 243	46 814	1 796	4 285	34 381	94 424	92 325	186 529	7 814
3371	Household & institutional furniture & kitchen cabinet mfg	1	53	11	1 745	36 252	1 404	3 507	27 418	72 252	71 693	143 579	6 685
33711	Wood kitchen cabinet & counter top mfg	1	30	7	1 298	27 743	1 045	2 899	21 159	57 791	58 322	116 198	5 807
337110	Wood kitchen cabinet & counter top mfg ...	1	30	7	1 298	27 743	1 045	2 899	21 159	57 791	58 322	116 198	5 807
33712	Household & institutional furniture mfg	1	23	4	447	8 509	359	608	6 259	14 461	13 371	27 381	878
3372	Office furniture (including fixtures) mfg	3	17	4	265	5 558	208	374	3 681	9 951	6 174	16 203	701
33721	Office furniture (including fixtures) mfg	3	17	4	265	5 558	208	374	3 681	9 951	6 174	16 203	701
339	Miscellaneous mfg	1	161	25	3 344	76 334	2 194	4 010	42 258	167 391	150 703	310 716	9 873
3391	Medical equipment & supplies mfg	1	62	10	1 601	35 241	948	1 534	18 274	70 341	83 925	147 415	6 671
33911	Medical equipment & supplies mfg	1	62	10	1 601	35 241	948	1 534	18 274	70 341	83 925	147 415	6 671
339113	Surgical appliance & supplies mfg	—	6	2	343	9 364	222	388	5 642	19 280	17 586	36 028	D
339115	Ophthalmic goods mfg	—	3	1	f	D	D	D	D	D	D	D	D
339116	Dental laboratories ...	4	41	5	338	8 248	247	401	4 797	15 749	4 505	20 448	312

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SAN ANTONIO, TX MSA—Con.													
31-33	Manufacturing—Con.												
339	Miscellaneous mfg—Con.												
3399	Other miscellaneous mfg...	1	99	15	1 743	41 093	1 246	2 476	23 984	97 050	66 778	163 301	3 202
33992	Sporting & athletic goods mfg.....	1	23	5	748	17 590	559	1 111	10 546	41 623	28 201	69 313	1 777
339920	Sporting & athletic goods mfg.....	1	23	5	748	17 590	559	1 111	10 546	41 623	28 201	69 313	1 777
33995	Sign mfg.....	3	43	6	489	12 860	313	609	7 026	23 829	13 454	37 551	716
339950	Sign mfg.....	3	43	6	489	12 860	313	609	7 026	23 829	13 454	37 551	716
33999	All other miscellaneous mfg.....	—	16	3	254	5 380	192	388	3 146	19 554	12 792	32 643	164
SHERMAN—DENISON, TX MSA													
31-33	Manufacturing	—	140	47	10 223	365 407	7 871	16 069	224 933	2 188 029	1 375 544	3 557 264	212 766
311	Food mfg.....	—	17	8	1 743	60 004	1 560	3 358	49 664	888 838	607 369	1 492 563	20 012
3112	Grain & oilseed milling	—	4	3	323	11 212	282	529	8 084	87 861	133 641	217 805	3 914
31122	Starch & vegetable fats & oils mfg.....	—	3	2	e	D	D	D	D	D	D	D	D
311225	Fats & oils refining & blending.....	—	3	2	e	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	—	3	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	—	3	1	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses.....	—	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg.....	—	6	2	e	D	D	D	D	D	D	D	D
3119	Other food mfg.....	—	1	1	e	D	D	D	D	D	D	D	D
31192	Coffee & tea mfg.....	—	1	1	e	D	D	D	D	D	D	D	D
311920	Coffee & tea mfg.....	—	1	1	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	—	4	4	669	18 811	598	1 202	15 418	113 254	75 335	189 440	6 868
3261	Plastics product mfg.....	—	4	4	669	18 811	598	1 202	15 418	113 254	75 335	189 440	6 868
32619	Other plastics product mfg.....	—	1	1	e	D	D	D	D	D	D	D	D
326199	All other plastics product mfg.....	—	1	1	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	—	6	2	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg.	—	2	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg.....	—	2	1	f	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass.....	—	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg.....	—	5	4	736	20 549	613	1 242	15 254	29 759	103 692	131 207	5 760
3313	Alumina & aluminum production & processing..	—	1	1	e	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing.....	—	1	1	e	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg.....	—	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	—	35	8	1 179	36 135	957	1 894	26 357	138 299	127 856	263 084	11 547
3325	Hardware mfg.....	—	3	2	f	D	D	D	D	D	D	D	D
33251	Hardware mfg.....	—	3	2	f	D	D	D	D	D	D	D	D
332510	Hardware mfg.....	—	3	2	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg.....	—	2	1	e	D	D	D	D	D	D	D	D
33291	Metal valve mfg.....	—	1	1	e	D	D	D	D	D	D	D	D
332911	Industrial valve mfg....	—	1	1	e	D	D	D	D	D	D	D	D
333	Machinery mfg.....	—	10	3	586	18 735	416	902	11 186	57 267	33 320	89 576	2 652
3331	Agriculture, construction, & mining machinery mfg....	—	3	1	e	D	D	D	D	D	D	D	D
33313	Mining & oil & gas field machinery mfg.....	—	2	1	e	D	D	D	D	D	D	D	D
333132	Oil & gas field machinery & equipment mfg.....	—	2	1	e	D	D	D	D	D	D	D	D

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	SHERMAN—DENISON, TX MSA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg	-	7	5	3 138	148 269	1 922	3 909	60 097	729 347	209 614	941 194	145 275
3344	Semiconductor & other electronic component mfg	-	5	4	h	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	5	4	h	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg	-	2	2	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	1	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	1	1	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	8	1	f	D	D	D	D	D	D	D	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
339113	Surgical appliance & supplies mfg	-	2	1	f	D	D	D	D	D	D	D	D
	TEXARKANA, TX—TEXARKANA, AR MSA												
31-33	Manufacturing	-	100	33	6 330	227 682	4 665	9 383	152 714	622 529	855 184	1 471 136	57 204
	Texarkana, TX—Texarkana, AR MSA (AR Part)	-	25	8	2 274	99 726	1 648	3 092	68 033	263 404	236 887	495 614	25 144
	Texarkana, TX—Texarkana, AR MSA (TX Part)	-	75	25	4 056	127 956	3 017	6 291	84 681	359 125	618 297	975 522	32 060
321	Wood product mfg	-	9	5	638	12 405	515	1 101	10 228	26 210	62 894	89 399	3 027
3211	Sawmills & wood preservation	-	5	3	340	7 586	241	578	6 303	21 820	40 823	62 362	D
32111	Sawmills & wood preservation	-	5	3	340	7 586	241	578	6 303	21 820	40 823	62 362	D
321113	Sawmills	1	4	2	e	D	D	D	D	D	D	D	1 535
3219	Other wood product mfg	-	3	2	e	D	D	D	D	D	D	D	D
32192	Wood container & pallet mfg	-	3	2	e	D	D	D	D	D	D	D	D
321920	Wood container & pallet mfg	-	3	2	e	D	D	D	D	D	D	D	D
322	Paper mfg	-	4	2	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32213	Paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg	7	6	3	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	4	2	g	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	1	1	g	D	D	D	D	D	D	D	D
32621	Tire mfg	-	1	1	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	1	1	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	1	1	e	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing	-	1	1	e	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing	-	1	1	e	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, & foil mfg	-	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	21	7	1 165	36 091	825	1 742	18 158	83 394	67 259	148 657	5 115
3329	Other fabricated metal product mfg	-	6	3	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	6	3	f	D	D	D	D	D	D	D	D
332993	Ammunition (except small arms) mfg	-	1	1	e	D	D	D	D	D	D	D	D
332996	Fabricated pipe & pipe fitting mfg	-	3	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)				
TYLER, TX MSA													
31-33	Manufacturing	-	213	66	10 969	381 088	8 450	17 061	262 592	1 112 957	1 180 233	2 299 149	49 581
311	Food mfg	2	12	6	645	17 940	441	987	9 411	69 437	85 924	155 432	2 741
326	Plastics & rubber products mfg	-	16	11	2 105	95 608	1 712	3 600	75 351	219 608	181 540	402 016	6 428
3261	Plastics product mfg	-	11	6	e	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	5	5	g	D	D	D	D	D	D	D	D
32621	Tire mfg	-	2	2	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	1	1	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	17	4	325	9 504	259	545	7 493	57 541	41 456	99 008	1 559
331	Primary metal mfg	-	2	1	g	D	D	D	D	D	D	D	D
3315	Foundries	-	2	1	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	-	1	1	g	D	D	D	D	D	D	D	D
331511	Iron foundries	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	43	14	873	22 726	596	1 008	12 426	61 660	49 338	110 626	2 799
3324	Boiler, tank, & shipping container mfg	2	4	4	273	6 218	170	238	2 593	13 352	11 635	24 285	301
333	Machinery mfg	-	18	9	4 008	141 266	3 009	6 172	91 504	448 588	406 034	859 012	17 140
3332	Industrial machinery mfg	9	3	2	e	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	9	3	2	e	D	D	D	D	D	D	D	D
333298	All other industrial machinery mfg	9	3	2	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	4	4	h	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	4	4	h	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refriq equip mfg	-	4	4	h	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	19	5	484	9 589	388	701	6 719	32 117	38 949	71 156	2 096
3399	Other miscellaneous mfg	-	11	4	408	7 776	336	614	5 603	28 539	35 832	63 953	1 827
33992	Sporting & athletic goods mfg	-	4	3	356	6 496	310	566	4 839	26 022	34 048	59 651	1 669
339920	Sporting & athletic goods mfg	-	4	3	356	6 496	310	566	4 839	26 022	34 048	59 651	1 669
VICTORIA, TX MSA													
31-33	Manufacturing	-	71	17	3 064	119 483	2 265	4 815	82 409	592 547	657 109	1 245 290	97 903
311	Food mfg	-	5	2	e	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	4	2	e	D	D	D	D	D	D	D	D
325	Chemical mfg	-	5	2	g	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	-	2	1	g	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	-	1	1	g	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	-	1	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	7	3	437	10 408	373	916	7 308	35 339	43 249	79 286	D
3261	Plastics product mfg	-	6	3	e	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg	-	2	2	e	D	D	D	D	D	D	D	D
326111	Unsupported plastics bag mfg	-	2	2	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	7	2	309	6 596	272	591	5 175	20 074	25 334	42 617	689
3273	Cement & concrete product mfg	-	7	2	309	6 596	272	591	5 175	20 074	25 334	42 617	689
32739	Other concrete product mfg	-	3	2	e	D	D	D	D	D	D	D	D
327390	Other concrete product mfg	-	3	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	6	3	297	9 357	220	467	6 392	16 602	18 876	35 331	1 511

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	WACO, TX MSA												
31-33	Manufacturing	-	261	101	16 474	481 690	11 828	23 908	291 166	2 100 437	1 772 646	3 855 638	70 075
311	Food mfg.....	-	19	10	3 095	94 482	2 240	4 894	59 170	716 731	424 124	1 128 705	21 758
3113	Sugar & confectionery product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
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
3116	Meat product mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	2	2	g	D	D	D	D	D	D	D	D
311615	Poultry processing....	-	1	1	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg....	-	7	2	e	D	D	D	D	D	D	D	334
31181	Bread & bakery product mfg.....	-	5	2	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries .	-	3	2	e	D	D	D	D	D	D	D	D
315	Apparel mfg.....	-	8	2	449	6 275	363	715	4 791	9 415	14 731	22 548	188
3152	Cut & sew apparel mfg....	-	5	2	e	D	D	D	D	D	D	D	174
31529	Other cut & sew apparel mfg.....	-	3	1	e	D	D	D	D	D	D	D	D
315299	All other cut & sew apparel mfg.....	-	3	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg.....	-	14	7	2 033	50 421	1 696	2 952	34 243	130 733	194 845	325 874	3 029
3219	Other wood product mfg....	-	13	6	g	D	D	D	D	D	D	D	D
32199	All other wood product mfg.....	-	6	5	1 857	47 474	1 547	2 674	31 679	124 032	176 151	300 896	2 126
321991	Manufactured home (mobile home) mfg ..	-	5	5	g	D	D	D	D	D	D	D	D
322	Paper mfg.....	-	13	10	1 513	43 635	1 253	2 712	33 750	163 384	201 585	366 709	16 146
3222	Converted paper product mfg.....	-	13	10	1 513	43 635	1 253	2 712	33 750	163 384	201 585	366 709	16 146
32221	Paperboard container mfg.....	-	7	5	745	20 662	575	1 402	15 108	59 736	92 333	149 637	10 785
322211	Corrugated & solid fiber box mfg.....	-	6	4	f	D	D	D	D	D	D	D	D
32223	Stationery product mfg ..	-	3	2	e	D	D	D	D	D	D	D	D
322231	Die-cut paper & paperboard office supplies mfg.....	-	2	2	e	D	D	D	D	D	D	D	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.....	1	40	9	799	18 954	617	1 133	12 853	45 625	29 122	74 540	1 561
3231	Printing & related support activities.....	1	40	9	799	18 954	617	1 133	12 853	45 625	29 122	74 540	1 561
32311	Printing.....	1	36	8	738	18 065	567	1 055	12 243	44 254	28 755	72 791	D
323110	Commercial lithographic printing ..	1	18	4	406	9 417	297	496	6 018	20 302	9 351	29 628	446
325	Chemical mfg.....	-	3	2	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
325412	Pharmaceutical preparation mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	2	7	5	288	7 680	218	401	5 289	20 566	33 700	54 038	1 846
327	Nonmetallic mineral product mfg.....	-	14	12	1 074	34 935	934	1 863	28 170	108 339	111 037	220 678	3 011
3272	Glass & glass product mfg.	-	2	1	e	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg.....	-	2	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.....	1	9	8	485	13 061	409	873	9 828	36 842	32 496	69 930	1 139

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WACO, TX MSA—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg	1	45	12	1 406	46 607	975	2 061	29 027	118 789	125 704	245 193	6 588
3323	Architectural & structural metals mfg	2	15	7	647	18 090	456	991	10 785	41 866	70 846	112 883	2 631
33231	Plate work & fabricated structural product mfg . .	3	8	5	495	13 936	352	747	8 636	33 185	56 458	90 446	1 385
332312	Fabricated structural metal mfg	3	5	4	e	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	18	1	e	D	D	D	D	D	D	D	D
33272	Turned product & screw, nut, & bolt mfg	—	1	1	e	D	D	D	D	D	D	D	D
332722	Bolt, nut, screw, rivet, & washer mfg	—	1	1	e	D	D	D	D	D	D	D	D
333	Machinery mfg	—	18	8	1 194	36 124	766	1 514	17 464	89 205	116 130	202 211	1 414
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	4	3	380	13 250	250	481	5 960	22 069	54 777	76 351	577
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	—	4	3	380	13 250	250	481	5 960	22 069	54 777	76 351	577
333414	Heating equipment (except warm air furnaces) mfg	—	2	2	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	1	8	3	f	D	D	D	D	D	D	D	440
33392	Material handling equipment mfg	—	3	2	f	D	D	D	D	D	D	D	D
333923	Overhead traveling crane, hoist, & monorail system mfg .	—	3	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	4	2	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	14	7	2 284	87 031	1 070	2 221	35 355	341 046	225 585	566 011	5 508
3364	Aerospace product & parts mfg	—	3	2	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	3	2	g	D	D	D	D	D	D	D	D
336411	Aircraft mfg	—	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	—	21	8	558	13 294	461	1 041	8 160	29 153	37 165	67 177	468
3371	Household & institutional furniture & kitchen cabinet mfg	—	18	5	400	10 050	330	609	5 623	17 314	29 946	48 366	370
33712	Household & institutional furniture mfg	—	8	4	335	8 569	277	555	4 698	16 664	28 493	44 426	259
339	Miscellaneous mfg	—	22	2	430	11 319	243	470	4 617	29 806	13 376	43 465	1 082
3391	Medical equipment & supplies mfg	—	8	2	e	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	—	8	2	e	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg	—	2	1	e	D	D	D	D	D	D	D	D
WICHITA FALLS, TX MSA													
31-33	Manufacturing	—	156	43	7 939	255 222	6 272	12 591	183 526	770 572	666 070	1 437 271	57 878
315	Apparel mfg	—	1	1	e	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	—	1	1	e	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	—	1	1	e	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	—	1	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg	—	6	3	319	7 710	262	439	5 707	17 732	20 723	38 461	477
3219	Other wood product mfg	—	6	3	319	7 710	262	439	5 707	17 732	20 723	38 461	477
326	Plastics & rubber products mfg	—	6	4	1 183	29 990	1 014	1 901	21 154	172 992	121 046	291 097	8 950
3261	Plastics product mfg	—	4	3	g	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg . .	—	1	1	f	D	D	D	D	D	D	D	D
326111	Unsupported plastics bag mfg	—	1	1	f	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	—	2	2	e	D	D	D	D	D	D	D	D
326122	Plastics pipe & pipe fitting 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)				
	WICHITA FALLS, TX MSA—Con.												
31-33	Manufacturing—Con.												
327	Nonmetallic mineral product mfg	—	8	5	1 570	68 528	1 171	2 686	50 472	226 680	129 931	361 024	D
3272	Glass & glass product mfg	—	2	2	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	—	2	2	g	D	D	D	D	D	D	D	D
327211	Flat glass mfg	—	1	1	e	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	—	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	4	2	f	D	D	D	D	D	D	D	D
3315	Foundries	—	4	2	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	—	3	2	f	D	D	D	D	D	D	D	D
331512	Steel investment foundries	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	37	14	1 466	40 287	1 183	2 532	28 574	91 999	88 593	179 294	3 645
3322	Cutlery & handtool mfg	—	2	1	e	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg	—	2	1	e	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg	—	2	1	e	D	D	D	D	D	D	D	D
3324	Boiler, tank, & shipping container mfg	—	4	4	471	14 746	340	715	9 333	45 425	52 705	96 870	1 139
33241	Power boiler & heat exchanger mfg	—	2	2	e	D	D	D	D	D	D	D	D
332410	Power boiler & heat exchanger mfg	—	2	2	e	D	D	D	D	D	D	D	D
333	Machinery mfg	2	24	6	544	17 520	355	660	9 434	38 865	30 981	71 332	905
3333	Commercial & service industry machinery mfg	—	5	2	278	9 427	185	403	5 553	15 461	15 802	32 710	161
33331	Commercial & service industry machinery mfg	—	5	2	278	9 427	185	403	5 553	15 461	15 802	32 710	161
333312	Commercial laundry, drycleaning, & pressing machine mfg	—	2	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	4	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg	—	1	1	e	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg	—	1	1	e	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg	—	1	1	e	D	D	D	D	D	D	D	D

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

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)				
31-33	ANDERSON COUNTY, TX Manufacturing	2	41	10	1 419	36 142	1 138	2 336	24 619	123 763	167 116	287 350	4 291
31-33	ANGELINA COUNTY, TX Manufacturing	-	88	30	7 536	212 761	6 405	14 809	168 329	511 312	859 431	1 363 570	59 878
311	Food mfg	-	7	4	2 078	33 321	1 917	5 443	27 480	94 954	229 236	322 736	D
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	-	1	1	g	D	D	D	D	D	D	D	D
321	Wood product mfg	-	15	8	1 182	34 688	971	2 297	27 662	84 098	162 002	243 176	D
3212	Veneer, plywood, & engineered wood product mfg	-	5	4	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, & engineered wood product mfg	-	5	4	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	1	1	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	g	D	D	D	D	D	D	D	D
322122	Newsprint mills	-	1	1	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	3	3	1 194	33 779	1 004	2 085	29 371	62 829	64 326	126 667	4 242
3315	Foundries	-	3	3	1 194	33 779	1 004	2 085	29 371	62 829	64 326	126 667	4 242
33151	Ferrous metal foundries	-	2	2	g	D	D	D	D	D	D	D	D
331511	Iron foundries	-	2	2	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	4	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
33391	Pump & compressor mfg	-	1	1	f	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
31-33	AUSTIN COUNTY, TX Manufacturing	-	32	15	947	26 760	728	1 553	18 052	68 354	86 038	153 611	3 383
31-33	BASTROP COUNTY, TX Manufacturing	2	52	12	801	18 475	570	1 159	11 762	38 565	37 761	78 302	6 112
31-33	BELL COUNTY, TX Manufacturing	-	135	46	7 365	224 478	5 778	12 740	158 228	696 861	659 766	1 351 290	49 576
326	Plastics & rubber products mfg	-	14	8	h	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	13	8	h	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
326111	Unsupported plastics bag mfg	-	1	1	f	D	D	D	D	D	D	D	D
32613	Laminated plastics plate, sheet, & shape mfg	-	3	2	g	D	D	D	D	D	D	D	D
326130	Laminated plastics plate, sheet, & shape mfg	-	3	2	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	5	5	654	17 011	560	1 323	11 822	31 774	26 310	57 161	1 998
3315	Foundries	-	5	5	654	17 011	560	1 323	11 822	31 774	26 310	57 161	1 998
333	Machinery mfg	-	9	4	640	18 873	517	1 179	12 685	38 410	31 070	68 921	2 123
337	Furniture & related product mfg	-	21	7	1 399	28 878	1 016	1 613	18 533	70 491	71 277	141 115	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	14	4	g	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	5	3	g	D	D	D	D	D	D	D	D
337127	Institutional furniture mfg	-	3	3	998	19 622	736	1 170	12 728	36 576	45 488	81 426	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)				
BEXAR COUNTY, TX													
31-33	Manufacturing	1	1 101	286	35 919	986 530	25 245	49 944	539 696	2 716 359	2 854 117	5 565 500	238 055
311	Food mfg	-	127	33	5 014	120 970	3 254	6 213	64 108	512 928	665 534	1 178 816	35 757
3115	Dairy product mfg	-	6	4	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	10	4	f	D	D	D	D	D	D	D	1 241
31161	Animal slaughtering & processing.....	-	10	4	f	D	D	D	D	D	D	D	1 241
3118	Bakeries & tortilla mfg	-	65	13	1 941	40 485	1 074	2 138	20 397	97 117	95 609	192 591	15 826
31181	Bread & bakery product mfg	-	56	11	1 791	37 548	959	1 958	18 431	87 185	90 265	177 336	15 679
311812	Commercial bakeries ..	-	11	6	g	D	D	D	D	D	D	D	13 386
3119	Other food mfg	-	25	8	g	D	D	D	D	D	D	D	D
31194	Seasoning & dressing mfg	-	3	2	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	1	15	10	1 889	56 848	851	1 758	19 307	306 120	265 719	574 498	21 637
3121	Beverage mfg	1	14	9	g	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	-	9	7	g	D	D	D	D	D	D	D	D
312111	Soft drink mfg	-	5	5	1 338	43 942	489	1 146	11 199	248 426	218 051	469 290	17 035
314	Textile product mills.....	-	19	6	g	D	D	D	D	D	D	D	D
3141	Textile furnishings mills....	-	9	2	g	D	D	D	D	D	D	D	752
31412	Curtain & linen mills.....	-	9	2	g	D	D	D	D	D	D	D	752
314121	Curtain & drapery mills	-	8	1	g	D	D	D	D	D	D	D	D
315	Apparel mfg	-	33	5	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	23	3	f	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg.....	-	3	1	f	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	-	2	1	f	D	D	D	D	D	D	D	D
316	Leather & allied product mfg .	-	13	7	f	D	D	D	D	D	D	D	D
3162	Footwear mfg	-	3	2	f	D	D	D	D	D	D	D	D
31621	Footwear mfg	-	3	2	f	D	D	D	D	D	D	D	D
316214	Women's footwear (except athletic) mfg .	-	3	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg	4	32	8	f	D	D	D	D	D	D	D	3 137
3219	Other wood product mfg ...	4	31	8	f	D	D	D	D	D	D	D	D
32191	Millwork	4	14	5	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	15	9	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	15	9	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	9	7	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	2	172	27	g	D	D	D	D	D	D	D	10 090
3231	Printing & related support activities.....	2	172	27	g	D	D	D	D	D	D	D	10 090
32311	Printing	2	157	25	g	D	D	D	D	D	D	D	9 588
323110	Commercial lithographic printing ..	2	86	15	g	D	D	D	D	D	D	D	5 637
325	Chemical mfg	1	41	10	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	5	47	16	2 103	56 118	1 551	3 151	31 846	102 704	110 853	209 139	7 762
3261	Plastics product mfg	5	37	13	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	3	25	9	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	3	22	8	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	62	18	1 406	41 717	1 143	2 413	28 330	150 495	121 887	273 760	14 648
3273	Cement & concrete product mfg	-	39	16	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	5	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	139	39	2 413	62 969	1 838	3 699	39 703	126 913	111 303	238 744	7 602
3323	Architectural & structural metals mfg	-	53	17	1 132	31 557	886	1 914	18 958	65 591	68 582	134 252	2 644
33231	Plate work & fabricated structural product mfg ..	-	21	8	f	D	D	D	D	D	D	D	824
33232	Ornamental & architectural metal products mfg.....	1	32	9	f	D	D	D	D	D	D	D	1 820
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	47	11	569	13 757	446	761	9 563	27 369	11 968	39 217	2 633

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	BEXAR COUNTY, TX— Con.													
	Manufacturing— Con.													
333	Machinery mfg	3	45	16	h	D	D	D	D	D	D	D	9 832	
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	3	12	7	g	D	D	D	D	D	D	D	D	
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	3	12	7	g	D	D	D	D	D	D	D	D	
333415	AC & warm air heating & commercial/ industrial refig equip mfg	3	9	7	g	D	D	D	D	D	D	D	D	
3339	Other general-purpose machinery mfg	3	12	5	f	D	D	D	D	D	D	D	D	
334	Computer & electronic product mfg	—	34	12	g	D	D	D	D	D	D	D	D	
3344	Semiconductor & other electronic component mfg	—	8	6	g	D	D	D	D	D	D	D	D	
33441	Semiconductor & other electronic component mfg	—	8	6	g	D	D	D	D	D	D	D	D	
334413	Semiconductor & related device mfg	—	2	2	g	D	D	D	D	D	D	D	D	
335	Electrical equipment, appliance, & component mfg	3	19	6	f	D	D	D	D	D	D	D	D	
336	Transportation equipment mfg	3	54	17	h	D	D	D	D	D	D	D	D	
3364	Aerospace product & parts mfg	3	21	11		2 173	101 647	1 579	3 634	54 674	164 015	137 755	296 032	18 080
33641	Aerospace product & parts mfg	3	21	11		2 173	101 647	1 579	3 634	54 674	164 015	137 755	296 032	18 080
336411	Aircraft mfg	3	5	4		1 676	82 594	1 237	3 043	43 339	115 697	115 410	223 805	D
337	Furniture & related product mfg	1	70	19		2 059	43 854	1 646	4 062	32 241	88 369	88 951	177 477	7 628
3371	Household & institutional furniture & kitchen cabinet mfg	1	43	10	g	D	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet & counter top mfg	1	25	7		1 282	27 420	1 032	2 878	20 922	57 204	57 886	115 173	5 780
337110	Wood kitchen cabinet & counter top mfg	1	25	7		1 282	27 420	1 032	2 878	20 922	57 204	57 886	115 173	5 780
339	Miscellaneous mfg	1	143	20		2 755	62 632	1 774	3 142	34 194	141 924	138 267	274 782	5 691
3391	Medical equipment & supplies mfg	—	58	9	g	D	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	—	58	9	g	D	D	D	D	D	D	D	D	D
339115	Ophthalmic goods mfg	—	3	1	f	D	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg . .	1	85	11	g	D	D	D	D	D	D	D	D	D
	BOSQUE COUNTY, TX													
31-33	Manufacturing	1	18	8		548	13 442	406	851	7 818	34 498	39 099	74 929	D
	BOWIE COUNTY, TX													
31-33	Manufacturing	—	75	25		4 056	127 956	3 017	6 291	84 681	359 125	618 297	975 522	32 060
321	Wood product mfg	—	7	5	f	D	D	D	D	D	D	D	D	D
322	Paper mfg	—	4	2	g	D	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	—	1	1	f	D	D	D	D	D	D	D	D	D
32213	Paperboard mills	—	1	1	f	D	D	D	D	D	D	D	D	D
322130	Paperboard mills	—	1	1	f	D	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	17	6	f	D	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	—	4	2	f	D	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	—	4	2	f	D	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)				
	BRAZORIA COUNTY, TX												
31-33	Manufacturing	-	199	60	14 149	682 947	10 011	20 120	425 116	2 579 286	8 174 294	10 760 986	793 692
324	Petroleum & coal products mfg	-	4	2	f	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	-	4	2	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries	-	2	2	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries . . .	-	2	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	25	17	7 373	406 664	4 963	9 134	244 123	1 964 798	5 147 530	7 147 085	680 401
3251	Basic chemical mfg	-	13	11	5 496	310 869	3 579	6 275	178 429	1 592 098	4 607 716	6 242 195	597 225
32511	Petrochemical mfg	-	5	5	1 354	78 863	877	1 607	45 264	647 591	1 948 842	2 623 929	123 402
325110	Petrochemical mfg	-	5	5	1 354	78 863	877	1 607	45 264	647 591	1 948 842	2 623 929	123 402
32519	Other basic organic chemical mfg	-	3	3	3 843	215 515	2 486	4 203	121 452	884 847	2 600 894	3 489 188	D
325199	All other basic organic chemical mfg	-	3	3	3 843	215 515	2 486	4 203	121 452	884 847	2 600 894	3 489 188	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	4	3	1 727	89 396	1 303	2 685	63 130	286 253	437 998	719 591	78 183
32521	Resin & synthetic rubber mfg	-	4	3	1 727	89 396	1 303	2 685	63 130	286 253	437 998	719 591	78 183
325211	Plastics material & resin mfg	-	4	3	1 727	89 396	1 303	2 685	63 130	286 253	437 998	719 591	78 183
331	Primary metal mfg	-	2	1	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	-	2	1	f	D	D	D	D	D	D	D	D
33141	Nonferrous metal (except aluminum) smelting & refining	-	1	1	f	D	D	D	D	D	D	D	D
331419	Other nonferrous metal primary smelting & refining	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	62	17	1 101	33 571	851	1 788	25 304	65 523	49 553	115 161	2 571
334	Computer & electronic product mfg	-	10	3	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	3	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	3	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
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
334510	Electromedical & electrotherapeutic apparatus mfg	-	1	1	g	D	D	D	D	D	D	D	D
	BRAZOS COUNTY, TX												
31-33	Manufacturing	1	101	25	3 126	79 602	2 203	4 547	44 323	175 554	206 647	382 206	12 355
332	Fabricated metal product mfg	-	20	3	1 211	25 370	951	2 120	17 489	41 360	74 957	118 810	2 011
3323	Architectural & structural metals mfg	-	7	1	g	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	-	6	1	g	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	-	2	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	8	5	530	14 663	332	616	6 034	36 411	29 718	65 989	1 356

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)				
BROWN COUNTY, TX													
31-33	Manufacturing	-	39	13	3 055	98 678	2 393	5 205	73 317	489 432	350 265	848 531	30 586
326	Plastics & rubber products mfg	-	3	3	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	3	3	f	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	-	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	5	2	g	D	D	D	D	D	D	D	752
3271	Clay product & refractory mfg	-	1	1	f	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, & plumbing fixture mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
327111	Vitreous china plumbing fixture & bathroom accessories mfg	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg	-	1	1	f	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
BURNET COUNTY, TX													
31-33	Manufacturing	1	42	5	714	16 693	599	1 292	11 881	41 766	32 268	72 534	2 918
CALDWELL COUNTY, TX													
31-33	Manufacturing	4	18	7	556	9 703	375	607	6 193	19 611	19 362	39 220	1 722
CALHOUN COUNTY, TX													
31-33	Manufacturing	-	20	7	3 815	208 791	2 274	5 208	132 678	520 836	2 099 805	2 689 330	210 376
325	Chemical mfg	-	5	3	h	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	-	3	2	g	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	-	3	2	g	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	-	3	2	g	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	1	1	g	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg	-	1	1	g	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg	-	1	1	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	1	1	f	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing ..	-	1	1	f	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing	-	1	1	f	D	D	D	D	D	D	D	D
331311	Alumina refining	-	1	1	f	D	D	D	D	D	D	D	D

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

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)				
CAMERON COUNTY, TX													
31-33	Manufacturing	-	235	67	12 694	242 429	10 505	18 250	169 561	775 190	959 338	1 732 776	32 233
311	Food mfg	-	47	10	1 591	31 352	1 184	1 686	14 515	90 745	180 619	271 252	3 800
3117	Seafood product preparation & packaging..	-	6	3	685	11 437	585	774	5 868	54 708	66 981	121 689	1 851
31171	Seafood product preparation & packaging	-	6	3	685	11 437	585	774	5 868	54 708	66 981	121 689	1 851
311712	Fresh & frozen seafood processing..	-	6	3	685	11 437	585	774	5 868	54 708	66 981	121 689	1 851
315	Apparel mfg	-	15	10	5 377	80 750	5 170	8 963	74 719	258 878	282 863	526 750	5 333
3151	Apparel knitting mills	-	1	1	g	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills	-	1	1	g	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills	-	1	1	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	13	9	h	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	-	5	5	g	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	-	5	5	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	2	1	f	D	D	D	D	D	D	D	D
315234	Women's & girls' cut & sew suit, coat, skirt mfg	-	1	1	f	D	D	D	D	D	D	D	D
31529	Other cut & sew apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
315291	Infants' cut & sew apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	14	5	584	11 426	388	749	7 676	24 022	37 182	66 494	2 756
332	Fabricated metal product mfg	-	26	10	1 432	29 318	1 086	1 981	21 866	79 924	107 889	186 221	4 016
3323	Architectural & structural metals mfg	-	5	4	992	21 469	735	1 366	16 425	62 655	98 536	160 198	3 286
33231	Plate work & fabricated structural product mfg ..	-	2	1	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal mfg	-	2	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	23	7	1 753	48 232	1 198	2 264	27 290	181 198	211 412	401 991	9 025
3363	Motor vehicle parts mfg ...	-	8	4	940	29 805	533	1 186	12 097	142 057	166 090	307 715	8 277
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
CASS COUNTY, TX													
31-33	Manufacturing	-	26	7	546	11 383	451	936	7 961	35 088	30 218	63 908	1 815
CHAMBERS COUNTY, TX													
31-33	Manufacturing	-	15	7	1 499	83 471	751	2 099	32 219	910 144	1 080 636	1 989 717	D
325	Chemical mfg	-	5	5	g	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	2	2	g	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg	-	2	2	g	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg	-	2	2	g	D	D	D	D	D	D	D	D
CHEROKEE COUNTY, TX													
31-33	Manufacturing	1	91	38	3 178	67 018	2 681	5 594	49 365	167 018	157 100	327 442	17 406
321	Wood product mfg	-	19	10	693	12 212	614	1 248	9 856	22 265	47 058	68 257	1 953
333	Machinery mfg	-	13	5	550	12 909	459	1 045	9 755	38 607	23 404	61 652	1 170
339	Miscellaneous mfg	2	5	2	f	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	-	2	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	2	1	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

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 em- ploy- ees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
COLLIN COUNTY, TX													
31-33	Manufacturing	—	318	96	21 326	972 288	11 033	23 643	343 086	3 447 661	2 852 587	6 235 937	323 997
311	Food mfg.....	—	11	5	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	—	33	6	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	—	33	6	g	D	D	D	D	D	D	D	D
32311	Printing.....	—	31	5	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	—	13	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	—	36	10	1 141	38 238	879	1 848	24 058	146 373	96 558	238 056	7 978
3329	Other fabricated metal product mfg.....	—	8	4	788	25 834	602	1 268	17 119	121 193	83 490	204 208	D
33291	Metal valve mfg.....	—	4	4	f	D	D	D	D	D	D	D	D
332911	Industrial valve mfg...	—	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	—	59	33	13 774	748 242	5 251	11 086	193 122	2 629 460	1 602 557	4 165 285	247 377
3341	Computer & peripheral equipment mfg.....	—	6	1	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg.....	—	6	1	f	D	D	D	D	D	D	D	D
334111	Electronic computer mfg.....	—	2	1	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg.....	—	16	10	i	D	D	D	D	D	D	D	D
33421	Telephone apparatus mfg.....	—	10	8	i	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg.....	—	10	8	i	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg.....	—	4	2	h	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg.....	—	4	2	h	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	—	22	14	g	D	D	D	D	D	D	D	92 034
33441	Semiconductor & other electronic component mfg.....	—	22	14	g	D	D	D	D	D	D	D	92 034
334413	Semiconductor & related device mfg...	—	8	4	g	D	D	D	D	D	D	D	D
334419	Other electronic component mfg.....	—	3	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	—	13	7	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	—	13	7	h	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg.....	—	5	2	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	—	6	2	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg.....	—	3	2	f	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg.....	—	2	2	f	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg...	—	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	—	19	5	1 613	44 988	1 063	2 431	24 490	164 249	323 461	499 662	7 365
3363	Motor vehicle parts mfg ...	—	10	2	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg.....	—	5	1	f	D	D	D	D	D	D	D	D
336391	Motor vehicle air-conditioning mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
COLORADO COUNTY, TX													
31-33	Manufacturing	1	29	6	825	17 373	694	1 452	13 317	41 411	35 068	76 037	2 244

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
COMAL COUNTY, TX														
31-33	Manufacturing	-	84	28	4 016	101 220	3 036	5 954	62 626	344 471	219 058	558 646	21 200	
313	Textile mills	-	1	1	f	D	D	D	D	D	D	D	D	
3132	Fabric mills	-	1	1	f	D	D	D	D	D	D	D	D	
31321	Broadwoven fabric mills	-	1	1	f	D	D	D	D	D	D	D	D	
313210	Broadwoven fabric mills	-	1	1	f	D	D	D	D	D	D	D	D	
326	Plastics & rubber products mfg	-	4	3	f	D	D	D	D	D	D	D	D	
3261	Plastics product mfg	-	4	3	f	D	D	D	D	D	D	D	D	
32619	Other plastics product mfg	-	3	3	f	D	D	D	D	D	D	D	D	
326199	All other plastics product mfg	-	3	3	f	D	D	D	D	D	D	D	D	
332	Fabricated metal product mfg	-	15	7	f	D	D	D	D	D	D	D	5 911	
339	Miscellaneous mfg	1	14	5		567	13 334	409	851	7 874	24 480	11 630	34 137	4 131
COOKE COUNTY, TX														
31-33	Manufacturing	1	68	28	3 318	88 187	2 713	5 642	64 737	209 554	229 752	437 708	26 219	
311	Food mfg	-	7	3	f	D	D	D	D	D	D	D	D	
326	Plastics & rubber products mfg	-	10	7		683	16 036	572	1 175	11 449	39 826	49 384	87 821	14 262
336	Transportation equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D	
3363	Motor vehicle parts mfg ...	-	2	2	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	
CORYELL COUNTY, TX														
31-33	Manufacturing	1	25	6	556	11 988	393	802	7 759	19 663	31 933	52 327	1 242	
DALLAS COUNTY, TX														
31-33	Manufacturing	1	3 383	1 165	151 686	5 499 356	97 974	197 672	2 612 050	17 555 104	12 760 872	29 962 543	1 618 362	
311	Food mfg	-	179	73		11 059	315 228	7 295	14 860	169 982	2 184 181	1 841 350	4 027 797	D
3115	Dairy product mfg	1	10	6	g	D	D	D	D	D	D	D	D	
31151	Dairy product (except frozen) mfg	2	7	4	g	1 126	41 241	330	823	9 975	102 850	349 074	451 786	16 199
311511	Fluid milk mfg	2	5	4	g	D	D	D	D	D	D	D	D	
3116	Meat product mfg	1	20	15	h	D	D	D	D	D	D	D	D	
31161	Animal slaughtering & processing	1	20	15	h	D	D	D	D	D	D	D	D	
311612	Meat processed from carcasses	2	11	8	g	D	D	D	D	D	D	D	D	
311615	Poultry processing	-	4	3	f	D	D	D	D	D	D	D	D	
3118	Bakeries & tortilla mfg	-	78	19	h	D	D	D	D	D	D	D	D	
31181	Bread & bakery product mfg	-	62	11	g	D	D	D	D	D	D	D	D	
311812	Commercial bakeries ..	-	26	9	g	D	D	D	D	D	D	D	D	
31182	Cookie, cracker, & pasta mfg	-	12	6	f	D	D	D	D	D	D	D	D	
311822	Flour mixes & dough mfg from purchased flour	-	5	3	f	D	D	D	D	D	D	D	D	
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	-	46	24	h	D	D	D	D	D	D	D	D	
31191	Snack food mfg	-	11	6	g	D	D	D	D	D	D	D	D	
311919	Other snack food mfg ..	-	10	5	g	D	D	D	D	D	D	D	D	
31194	Seasoning & dressing mfg	-	11	6		785	29 905	605	1 019	20 804	141 744	247 198	387 300	10 560
31199	All other food mfg	2	19	10	f	D	D	D	D	D	D	D	D	
312	Beverage & tobacco product mfg	1	13	8		2 248	79 581	805	1 867	23 924	300 504	528 501	835 184	25 021
3121	Beverage mfg	1	13	8		2 248	79 581	805	1 867	23 924	300 504	528 501	835 184	25 021
31211	Soft drink & ice mfg	1	11	8	g	D	D	D	D	D	D	D	D	
312111	Soft drink mfg	1	7	6		2 153	76 675	758	1 832	22 745	286 293	526 389	818 603	23 687
314	Textile product mills	-	87	31		2 659	47 517	2 208	3 925	32 434	127 007	134 775	252 820	2 859
3141	Textile furnishings mills ...	-	49	18	g	D	D	D	D	D	D	D	D	
31412	Curtain & linen mills	-	47	18	g	D	D	D	D	D	D	D	D	
314129	Other household textile product mills	-	17	12	g	D	D	D	D	D	D	D	D	
3149	Other textile product mills ..	1	38	13	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	DALLAS COUNTY, TX—Con.												
	Manufacturing—Con.												
315	Apparel mfg	2	210	66	4 890	91 591	3 352	5 879	53 570	200 022	240 699	436 497	5 882
3152	Cut & sew apparel mfg	2	170	53	h	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	5	99	19	g	D	D	D	D	D	D	D	821
315212	Women's, girls', & infants' cut & sew apparel contractors . .	5	97	18	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	2	60	27	g	D	D	D	D	D	D	D	D
315233	Women's & girls' cut & sew dress mfg	2	18	5	1 219	23 047	502	816	9 329	47 006	72 689	118 341	2 151
3159	Apparel accessories & other apparel mfg	2	36	12	g	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	2	36	12	g	D	D	D	D	D	D	D	D
315991	Hat, cap, & millinery mfg	—	10	5	642	10 781	454	871	6 602	34 594	19 180	54 180	D
321	Wood product mfg	3	65	25	1 958	44 681	1 596	3 098	28 798	91 082	122 711	212 914	4 829
3212	Veneer, plywood, & engineered wood product mfg	3	8	3	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, & engineered wood product mfg	3	8	3	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg	2	55	22	1 429	32 470	1 176	2 392	21 334	67 219	81 124	148 033	D
32191	Millwork	1	28	13	f	D	D	D	D	D	D	D	D
321911	Wood window & door mfg	—	14	7	f	D	D	D	D	D	D	D	2 058
322	Paper mfg	—	75	47	4 679	156 484	3 567	8 132	106 210	424 572	495 792	916 262	29 508
3222	Converted paper product mfg	—	72	45	h	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	1	29	23	2 759	91 707	2 155	5 104	64 861	182 678	295 113	479 122	11 369
322211	Corrugated & solid fiber box mfg	1	23	20	g	D	D	D	D	D	D	D	D
322215	Nonfolding sanitary food container mfg . . .	—	1	1	f	D	D	D	D	D	D	D	D
32223	Stationery product mfg . . .	—	15	11	g	D	D	D	D	D	D	D	D
322232	Envelope mfg	—	7	7	716	23 775	505	1 070	14 935	48 185	62 598	111 178	6 370
323	Printing & related support activities	2	636	148	13 041	445 479	9 550	19 202	269 255	1 030 218	624 880	1 650 899	D
3231	Printing & related support activities	2	636	148	13 041	445 479	9 550	19 202	269 255	1 030 218	624 880	1 650 899	D
32311	Printing	2	557	121	j	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	2	264	69	i	D	D	D	D	D	D	D	D
323112	Commercial flexographic printing	—	18	9	f	D	D	D	D	D	D	D	D
323113	Commercial screen printing	3	45	10	779	17 166	583	1 044	9 739	35 058	26 723	61 263	D
323114	Quick printing	2	132	4	744	18 875	522	899	11 920	42 038	23 949	65 777	2 497
323116	Manifold business form printing	—	19	13	g	D	D	D	D	D	D	D	D
323119	Other commercial printing	4	53	8	500	13 286	366	652	7 694	27 248	22 994	50 259	D
32312	Support activities for printing	1	79	27	g	D	D	D	D	D	D	D	D
323121	Tradebinding & related work	2	26	10	f	D	D	D	D	D	D	D	D
323122	Prepress services	1	53	17	g	D	D	D	D	D	D	D	D
325	Chemical mfg	1	154	61	6 640	218 894	4 161	8 722	108 873	1 718 589	1 237 792	2 956 487	65 717
3255	Paint, coating, & adhesive mfg	—	29	13	1 684	55 730	871	2 070	25 298	379 632	470 294	838 820	15 952
32551	Paint & coating mfg	—	17	7	g	D	D	D	D	D	D	D	D
325510	Paint & coating mfg	—	17	7	g	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg	—	47	20	2 537	83 713	1 713	3 290	40 979	963 140	431 274	1 411 545	19 121
32561	Soap & cleaning compound mfg	1	24	7	f	D	D	D	D	D	D	D	D
325611	Soap & other detergent mfg	1	16	5	f	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg	—	23	13	g	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg	—	23	13	g	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	1	34	13	g	D	D	D	D	D	D	D	11 672
32599	All other chemical product & preparation mfg	1	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)				
	DALLAS COUNTY, TX—Con.												
31-33	Manufacturing—Con.												
326	Plastics & rubber products mfg	1	146	68	6 882	207 892	5 590	12 070	135 869	495 455	591 149	1 077 085	50 878
3261	Plastics product mfg	1	123	59	6 145	188 541	5 015	10 979	123 639	447 628	545 294	982 832	47 874
32611	Unsupported plastics film, sheet, & bag mfg ..	1	24	15	g	D	D	D	D	D	D	D	24 335
326111	Unsupported plastics bag mfg	1	11	9	g	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	-	10	4	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	56	27	2 383	58 796	1 957	3 860	39 768	147 231	117 101	261 534	10 957
326199	All other plastics product mfg	1	51	25	2 136	52 055	1 742	3 461	34 148	126 879	107 114	231 263	10 441
3262	Rubber product mfg	1	23	9	737	19 351	575	1 091	12 230	47 827	45 855	94 253	3 004
32629	Other rubber product mfg	2	13	6	f	D	D	D	D	D	D	D	D
326299	All other rubber product mfg	2	9	5	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	98	44	4 403	120 827	3 625	7 372	89 219	360 263	374 717	732 528	40 120
3271	Clay product & refractory mfg	1	15	8	g	D	D	D	D	D	D	D	16 325
32712	Clay building material & refractories mfg	1	7	6	g	D	D	D	D	D	D	D	D
327122	Ceramic wall & floor tile mfg	-	5	4	1 347	31 743	1 248	2 654	26 694	115 453	64 532	178 085	D
3273	Cement & concrete product mfg	1	41	23	1 761	55 499	1 358	2 974	40 076	155 044	227 926	382 798	19 408
32732	Ready-mix concrete mfg ..	1	19	9	612	23 402	497	1 227	18 037	82 850	168 275	251 316	6 296
327320	Ready-mix concrete mfg	1	19	9	612	23 402	497	1 227	18 037	82 850	168 275	251 316	6 296
32733	Concrete pipe, brick, & block mfg	-	8	6	f	D	D	D	D	D	D	D	D
32739	Other concrete product mfg	2	13	7	583	15 234	439	803	10 355	25 441	23 705	49 455	D
327390	Other concrete product mfg	2	13	7	583	15 234	439	803	10 355	25 441	23 705	49 455	D
331	Primary metal mfg	1	30	12	g	D	D	D	D	D	D	D	D
3315	Foundries	-	16	5	1 117	29 051	955	2 007	20 878	67 778	36 531	101 698	D
33151	Ferrous metal foundries .	-	6	3	f	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	528	179	14 311	423 944	11 102	23 173	269 366	944 244	785 335	1 727 544	53 271
3321	Forging & stamping	1	30	17	g	D	D	D	D	D	D	D	D
33211	Forging & stamping	1	30	17	g	D	D	D	D	D	D	D	D
332116	Metal stamping	2	19	11	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	153	68	5 848	165 423	4 574	9 937	105 156	410 891	322 768	730 386	13 453
33231	Plate work & fabricated structural product mfg ..	2	26	10	503	13 522	369	698	7 961	32 049	39 455	71 507	1 362
33232	Ornamental & architectural metal products mfg	-	127	58	5 345	151 901	4 205	9 239	97 195	378 842	283 313	658 879	12 091
332321	Metal window & door mfg	-	20	13	g	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg .	1	84	40	3 172	94 552	2 470	5 496	62 344	245 829	133 589	377 427	9 399
3324	Boiler, tank, & shipping container mfg	-	15	9	f	D	D	D	D	D	D	D	D
3326	Spring & wire product mfg .	-	22	9	676	18 406	533	1 212	12 448	42 477	32 927	76 313	3 919
33261	Spring & wire product mfg	-	22	9	676	18 406	533	1 212	12 448	42 477	32 927	76 313	3 919
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	194	37	2 768	91 475	2 091	4 120	56 112	173 819	90 960	262 744	D
33271	Machine shops	1	173	27	2 277	72 680	1 710	3 317	46 309	138 629	72 254	209 512	10 816
332710	Machine shops	1	173	27	2 277	72 680	1 710	3 317	46 309	138 629	72 254	209 512	10 816
3328	Coating, engraving, heat treating, & allied activities .	2	64	21	1 213	33 150	920	1 816	19 840	54 748	19 202	74 207	4 345
33281	Coating, engraving, heat treating, & allied activities	2	64	21	1 213	33 150	920	1 816	19 840	54 748	19 202	74 207	4 345
332813	Electroplating, plating, polishing, anodizing, & coloring	2	31	11	682	18 550	487	963	10 357	29 073	10 284	39 588	1 874

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	DALLAS COUNTY, TX—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3329	Other fabricated metal product mfg	—	36	15	1 535	47 636	1 219	2 330	31 467	105 291	142 178	246 814	5 525
33291	Metal valve mfg	1	9	7	f	D	D	D	D	D	D	D	D
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	—	20	6	f	D	D	D	D	D	D	D	D
333	Machinery mfg	2	222	90	9 206	331 963	5 821	11 630	163 577	871 823	746 110	1 609 966	40 500
3331	Agriculture, construction, & mining machinery mfg.	1	25	15	2 728	109 968	1 723	3 402	58 734	359 417	244 759	604 337	D
33313	Mining & oil & gas field machinery mfg	1	18	12	g	D	D	D	D	D	D	D	D
333132	Oil & gas field machinery & equipment mfg	1	16	12	g	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg	6	47	13	1 192	43 797	649	1 336	18 098	111 379	87 047	193 200	5 357
33329	Other industrial machinery mfg	6	42	12	g	D	D	D	D	D	D	D	D
333298	All other industrial machinery mfg	8	18	4	507	18 420	272	637	8 565	53 945	48 707	98 093	D
3333	Commercial & service industry machinery mfg	1	28	13	939	28 779	629	1 085	14 914	71 704	86 444	157 237	D
33331	Commercial & service industry machinery mfg	1	28	13	939	28 779	629	1 085	14 914	71 704	86 444	157 237	D
333319	Other commercial & service industry machinery mfg	—	8	4	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	2	27	15	1 644	41 616	1 199	2 309	22 015	108 839	108 077	216 777	4 924
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	2	27	15	1 644	41 616	1 199	2 309	22 015	108 839	108 077	216 777	4 924
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	2	12	8	946	22 091	706	1 326	12 215	57 407	68 935	129 580	2 195
3335	Metalworking machinery mfg	7	36	8	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg	7	36	8	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	—	52	23	1 887	76 061	1 108	2 422	33 220	164 083	154 158	315 407	D
33392	Material handling equipment mfg	—	14	7	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	1	33	14	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	274	122	37 882	1 874 054	17 345	33 553	499 231	6 136 987	2 910 832	8 956 695	1 013 367
3341	Computer & peripheral equipment mfg	7	23	6	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	7	23	6	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	—	47	21	i	D	D	D	D	D	D	D	D
33421	Telephone apparatus mfg	—	16	7	g	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg	—	16	7	g	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	26	12	3 502	133 424	1 771	2 703	45 293	681 972	495 026	1 174 589	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	26	12	3 502	133 424	1 771	2 703	45 293	681 972	495 026	1 174 589	D

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	DALLAS COUNTY, TX—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg	-	128	63	19 070	979 471	9 658	19 202	233 305	3 533 006	1 246 785	4 686 550	864 254
33441	Semiconductor & other electronic component mfg	-	128	63	19 070	979 471	9 658	19 202	233 305	3 533 006	1 246 785	4 686 550	864 254
334412	Bare printed circuit board mfg	-	40	18	g	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg	-	29	16	12 598	774 527	5 290	11 289	130 622	3 072 644	676 151	3 677 480	D
334418	Printed circuit assembly (electronic assembly) mfg	-	17	13	2 574	85 732	1 535	2 317	29 631	269 304	382 660	633 049	D
334419	Other electronic component mfg	2	30	11	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	54	24	11 491	560 289	3 193	6 599	109 764	935 610	618 777	1 579 432	D
33451	Navigational, measuring, medical, & control instruments mfg	-	54	24	11 491	560 289	3 193	6 599	109 764	935 610	618 777	1 579 432	D
334511	Search, detection, navigation, & guidance instrument mfg	-	6	4	i	D	D	D	D	D	D	D	D
334513	Industrial process control instrument mfg	-	14	5	f	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument mfg	-	3	3	g	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media	-	17	5	g	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media	-	17	5	g	D	D	D	D	D	D	D	D
334611	Software reproducing	-	5	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	2	79	44	4 173	119 810	3 062	6 684	68 223	313 717	301 590	617 155	D
3351	Electric lighting equipment mfg	3	18	11	f	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	3	18	11	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg	1	24	11	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	1	24	11	g	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg	1	13	6	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	2	34	20	g	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg	2	7	7	g	D	D	D	D	D	D	D	D
335921	Fiber optic cable mfg	-	2	2	f	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	6	18	8	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment & component mfg	7	17	7	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	86	41	13 788	650 358	8 412	15 965	371 379	1 523 523	936 357	2 234 644	72 798
3363	Motor vehicle parts mfg	2	51	24	g	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg	-	11	3	f	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg	-	11	3	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	4	15	11	f	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	5	13	10		718	15 254	571	1 114	9 411	31 642	29 836	60 996
33634	Motor vehicle brake system mfg	-	4	4		558	15 282	444	798	9 280	36 521	22 720	59 663
336340	Motor vehicle brake system mfg	-	4	4		558	15 282	444	798	9 280	36 521	22 720	59 663

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)	
DALLAS COUNTY, TX—Con.														
31-33	Manufacturing—Con.													
336	Transportation equipment mfg—Con.													
3364	Aerospace product & parts mfg	—	26	15	j	D	D	D	D	D	D	D		
33641	Aerospace product & parts mfg	—	26	15	j	D	D	D	D	D	D	D		
336411	Aircraft mfg	—	5	4	f	D	D	D	D	D	D	D		
336412	Aircraft engine & engine parts mfg	—	4	4	g	D	D	D	D	D	D	D		
336413	Other aircraft part & auxiliary equipment mfg	—	14	4	i	D	D	D	D	D	D	D		
336414	Guided missile & space vehicle mfg	—	1	1	h	D	D	D	D	D	D	D		
337	Furniture & related product mfg	1	151	44		5 775	132 084	4 384	9 075	85 577	334 382	284 133	618 176	12 938
3371	Household & institutional furniture & kitchen cabinet mfg	1	110	24		4 262	88 758	3 282	6 558	59 805	221 691	173 935	395 697	9 606
33711	Wood kitchen cabinet & counter top mfg	—	50	12		2 882	55 559	2 188	4 427	35 778	157 579	99 737	256 634	6 642
337110	Wood kitchen cabinet & counter top mfg	—	50	12		2 882	55 559	2 188	4 427	35 778	157 579	99 737	256 634	6 642
33712	Household & institutional furniture mfg	2	60	12		1 380	33 199	1 094	2 131	24 027	64 112	74 198	139 063	2 964
337121	Upholstered household furniture mfg	2	17	5		746	17 884	582	1 129	12 636	33 861	42 115	76 963	D
3372	Office furniture (including fixtures) mfg	4	31	14	f		D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	4	31	14	f		D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, & locker mfg	6	18	7	f		D	D	D	D	D	D	D	D
3379	Other furniture related product mfg	—	10	6	f		D	D	D	D	D	D	D	D
339	Miscellaneous mfg	4	309	49		5 065	151 925	3 753	7 086	80 345	284 206	296 777	576 745	20 715
3391	Medical equipment & supplies mfg	2	103	11		1 627	64 650	1 196	2 013	30 174	179 472	80 924	259 234	11 180
33911	Medical equipment & supplies mfg	2	103	11		1 627	64 650	1 196	2 013	30 174	179 472	80 924	259 234	11 180
339112	Surgical & medical instrument mfg	3	15	4		522	24 807	320	641	11 111	71 268	36 207	107 398	6 211
339113	Surgical appliance & supplies mfg	—	9	2	f		D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg	5	206	38		3 438	87 275	2 557	5 073	50 171	104 734	215 853	317 511	9 535
33995	Sign mfg	5	90	18		1 589	45 812	1 107	2 294	24 063	11 461	127 397	136 512	D
339950	Sign mfg	5	90	18		1 589	45 812	1 107	2 294	24 063	11 461	127 397	136 512	D
33999	All other miscellaneous mfg	5	50	13		1 208	24 541	965	1 900	15 999	47 154	49 411	95 926	D
339999	All other miscellaneous mfg	6	34	8	f		D	D	D	D	D	D	D	D
DEAF SMITH COUNTY, TX														
31-33	Manufacturing	1	32	9	1 128	28 874	857	1 665	19 608	125 018	245 700	376 692	6 443	
311	Food mfg	—	13	6		921	23 925	703	1 395	16 243	114 021	235 176	355 175	D
DENTON COUNTY, TX														
31-33	Manufacturing	—	305	80	13 556	459 845	9 544	18 056	247 374	1 393 842	1 333 134	2 741 808	92 273	
326	Plastics & rubber products mfg	1	22	9		504	10 272	306	569	5 594	17 923	18 831	36 651	3 083
327	Nonmetallic mineral product mfg	2	21	7		553	15 506	466	1 052	12 002	44 188	39 153	83 144	3 497
332	Fabricated metal product mfg	—	43	15		1 161	31 571	914	1 892	20 362	75 338	81 751	155 741	2 561
333	Machinery mfg	—	21	3		844	30 236	699	1 155	20 066	116 580	40 996	156 301	2 433
3339	Other general-purpose machinery mfg	—	7	2	f		D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	—	5	2	f		D	D	D	D	D	D	D	D
333992	Welding & soldering equipment 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)				
DENTON COUNTY, TX —Con.													
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg.....	-	12	4	5 028	215 407	2 658	4 789	73 117	620 541	280 903	915 398	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
3345	Navigational, measuring, medical, & control instruments mfg.....	-	4	3	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	-	4	3	h	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg.....	-	2	2	h	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	14	5	g	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
337	Furniture & related product mfg.....	1	32	10	1 394	27 763	1 166	2 261	18 559	49 365	35 051	84 467	4 278
3372	Office furniture (including fixtures) mfg.....	-	7	5	1 048	20 373	879	1 736	13 095	37 756	25 218	62 937	3 410
33721	Office furniture (including fixtures) mfg.....	-	7	5	1 048	20 373	879	1 736	13 095	37 756	25 218	62 937	3 410
337215	Showcase, partition, shelving, & locker mfg.....	-	6	5	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	2	32	7	1 000	22 824	819	1 527	14 776	46 428	45 100	91 863	3 836
3399	Other miscellaneous mfg ..	1	19	4	521	13 278	435	856	8 846	23 953	30 321	54 750	D
DEWITT COUNTY, TX													
31-33	Manufacturing	1	24	8	721	16 431	563	1 097	11 220	39 108	47 938	87 898	1 336
EASTLAND COUNTY, TX													
31-33	Manufacturing	-	25	9	713	17 424	566	1 197	11 341	41 776	55 886	98 299	2 703
ECTOR COUNTY, TX													
31-33	Manufacturing	-	203	56	3 526	115 632	2 536	5 169	71 376	489 460	803 718	1 286 163	43 244
325	Chemical mfg.....	1	12	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	1	82	19	1 176	37 161	871	1 825	22 579	79 478	55 870	136 705	4 094
333	Machinery mfg.....	1	47	21	1 090	33 017	757	1 432	19 444	78 885	55 032	131 695	6 795
3339	Other general-purpose machinery mfg.....	1	21	12	542	16 129	357	765	9 735	39 617	24 073	63 322	2 797

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ELLIS COUNTY, TX													
31-33	Manufacturing	1	174	68	9 635	284 961	7 726	16 044	205 368	1 109 833	1 261 928	2 397 934	122 888
326	Plastics & rubber products mfg	-	17	9	1 393	35 526	1 178	2 445	28 272	137 842	184 669	320 450	9 446
3261	Plastics product mfg	-	14	9	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	7	4	f	D	D	D	D	D	D	D	4 832
327	Nonmetallic mineral product mfg	-	19	12	1 568	60 437	1 304	2 808	47 670	330 093	148 518	484 795	30 921
3273	Cement & concrete product mfg	-	10	6	657	22 259	551	1 254	16 769	170 956	72 863	245 412	19 822
3279	Other nonmetallic mineral product mfg	-	5	4	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg ...	-	5	4	f	D	D	D	D	D	D	D	D
327993	Mineral wool mfg	-	2	2	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	3	3	g	D	D	D	D	D	D	D	D
3311	Iron & steel mills & ferroalloy mfg	-	1	1	g	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	1	1	g	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	30	9	1 030	26 020	726	1 522	16 660	53 584	78 702	132 563	3 775
333	Machinery mfg	-	10	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	8	5	764	16 742	675	1 417	11 619	34 651	22 729	57 131	D
3363	Motor vehicle parts mfg ...	1	6	5	f	D	D	D	D	D	D	D	D
EL PASO COUNTY, TX													
31-33	Manufacturing	1	652	216	36 723	773 944	29 598	54 684	528 653	3 300 010	4 720 097	7 966 475	234 102
311	Food mfg	1	62	14	1 588	35 263	1 104	2 465	20 418	110 301	162 193	272 862	9 268
313	Textile mills	5	12	7	3 008	51 837	2 627	4 832	43 584	139 036	58 906	194 383	8 427
3133	Textile & fabric finishing & fabric coating mills	6	9	6	h	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills	6	9	6	h	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	8	7	4	g	D	D	D	D	D	D	D	D
313312	Textile & fabric finishing mills	-	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	73	36	11 669	219 176	10 486	19 203	166 588	838 688	959 151	1 762 193	19 950
3152	Cut & sew apparel mfg	-	69	35	j	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	2	42	15	h	D	D	D	D	D	D	D	D
315211	Men's & boys' cut & sew apparel contractors	1	8	4	1 243	20 964	1 149	2 192	18 038	30 383	8 713	38 328	1 535
315212	Women's, girls', & infants' cut & sew apparel contractors ..	2	34	11	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	-	13	10	4 713	102 571	4 154	7 900	76 931	470 503	590 425	1 035 026	4 040
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	-	11	9	h	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	13	9	3 998	71 299	3 572	6 281	49 800	292 845	350 448	638 317	13 560
315234	Women's & girls' cut & sew suit, coat, skirt mfg	-	2	1	f	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	-	10	8	h	D	D	D	D	D	D	D	D
316	Leather & allied product mfg .	2	24	9	1 045	19 924	691	1 266	9 439	36 982	60 152	104 467	678
3162	Footwear mfg	2	18	8	914	17 331	636	1 176	8 711	32 986	53 798	94 030	429
31621	Footwear mfg	2	18	8	914	17 331	636	1 176	8 711	32 986	53 798	94 030	429
316213	Men's footwear (except athletic) mfg .	1	12	7	f	D	D	D	D	D	D	D	380
321	Wood product mfg	5	24	7	f	D	D	D	D	D	D	D	704
322	Paper mfg	1	18	13	1 102	28 076	897	1 887	18 599	78 022	98 110	175 572	4 508
3222	Converted paper product mfg	1	18	13	1 102	28 076	897	1 887	18 599	78 022	98 110	175 572	4 508
32221	Paperboard container mfg	1	13	12	1 035	25 328	841	1 773	16 666	73 856	93 046	166 257	D
322211	Corrugated & solid fiber box mfg	-	10	9	804	19 644	653	1 351	12 803	60 336	81 188	140 830	2 077

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	EL PASO COUNTY, TX —Con.												
	Manufacturing—Con.												
323	Printing & related support activities.....	2	71	11	942	18 330	734	1 018	11 986	35 817	20 447	55 817	3 127
3231	Printing & related support activities.....	2	71	11	942	18 330	734	1 018	11 986	35 817	20 447	55 817	3 127
32311	Printing	1	63	10	648	15 001	471	755	9 038	30 717	19 997	50 356	2 696
326	Plastics & rubber products mfg	1	36	19	3 364	72 048	2 667	5 200	52 689	192 529	203 655	390 774	39 145
3261	Plastics product mfg	1	33	19	3 357	71 931	2 660	5 189	52 596	192 292	203 342	390 220	39 138
32619	Other plastics product mfg	—	30	17	2 980	63 304	2 342	4 540	47 382	156 923	185 080	337 011	37 159
326199	All other plastics product mfg.....	—	29	17	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	15	6	696	16 296	240	502	5 289	31 854	34 573	64 753	D
3273	Cement & concrete product mfg	—	9	5	637	14 401	196	402	4 081	28 502	30 970	57 802	D
331	Primary metal mfg	—	9	6	g	D	D	D	D	D	D	D	31 746
3314	Nonferrous metal (except aluminum) production & processing.....	—	5	4	g	D	D	D	D	D	D	D	D
33141	Nonferrous metal (except aluminum) smelting & refining.....	—	2	2	f	D	D	D	D	D	D	D	D
331411	Primary smelting & refining of copper....	—	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	4	95	27	1 995	46 849	1 569	3 108	30 425	98 704	124 414	222 794	8 736
3323	Architectural & structural metals mfg	2	27	10	878	17 980	725	1 554	12 552	41 279	58 570	99 069	3 309
33232	Ornamental & architectural metal products mfg.....	—	20	6	642	11 714	543	1 145	8 405	24 673	28 132	51 636	2 575
332323	Ornamental & architectural metal work mfg	—	11	4	509	9 059	439	957	6 681	16 714	25 208	41 500	D
333	Machinery mfg	5	43	9	948	16 993	770	1 358	11 927	41 477	22 301	65 000	9 700
334	Computer & electronic product mfg.....	1	22	11	1 369	27 046	1 019	1 789	15 366	85 675	78 156	167 985	8 298
3344	Semiconductor & other electronic component mfg	—	13	6	851	15 751	625	822	9 089	57 841	19 670	80 550	3 493
33441	Semiconductor & other electronic component mfg	—	13	6	851	15 751	625	822	9 089	57 841	19 670	80 550	3 493
335	Electrical equipment, appliance, & component mfg	—	20	12	2 146	46 507	1 697	2 525	29 035	319 452	383 389	704 302	26 313
3352	Household appliance mfg..	—	3	3	g	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg	—	3	3	g	D	D	D	D	D	D	D	D
335212	Household vacuum cleaner mfg.....	—	2	2	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	—	11	5	643	17 108	391	666	7 517	205 433	132 716	337 441	D
33531	Electrical equipment mfg	—	11	5	643	17 108	391	666	7 517	205 433	132 716	337 441	D
336	Transportation equipment mfg	—	17	5	692	14 788	519	1 085	9 424	95 650	102 152	180 849	4 752
3363	Motor vehicle parts mfg ...	—	13	5	f	D	D	D	D	D	D	D	4 681
337	Furniture & related product mfg	1	22	4	824	12 588	769	1 329	10 301	29 293	16 197	45 524	1 724
3371	Household & institutional furniture & kitchen cabinet mfg	—	18	3	775	11 815	733	1 273	9 816	27 628	15 198	42 832	1 663
33712	Household & institutional furniture mfg	—	8	3	732	11 066	698	1 223	9 263	26 068	14 023	40 080	D
337124	Metal household furniture mfg	—	2	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	—	53	12	1 976	42 565	1 397	2 377	22 733	303 556	353 196	662 848	9 326
3391	Medical equipment & supplies mfg	—	24	5	786	20 458	392	633	7 606	100 623	186 397	291 521	6 104
33911	Medical equipment & supplies mfg	—	24	5	786	20 458	392	633	7 606	100 623	186 397	291 521	6 104
339113	Surgical appliance & supplies mfg	—	4	2	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	—	29	7	1 190	22 107	1 005	1 744	15 127	202 933	166 799	371 327	3 222
33993	Doll, toy, & game mfg ...	—	1	1	f	D	D	D	D	D	D	D	D
339932	Game, toy, & children's vehicle 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)				
ERATH COUNTY, TX													
31-33	Manufacturing	-	37	9	2 186	53 260	1 534	3 251	33 000	118 976	261 725	387 676	8 682
327	Nonmetallic mineral product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32791	Abrasive product mfg . . .	-	1	1	f	D	D	D	D	D	D	D	D
327910	Abrasive product mfg . .	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	8	2	630	17 723	376	941	8 990	47 939	80 674	129 067	5 071
FANNIN COUNTY, TX													
31-33	Manufacturing	1	40	14	1 784	43 570	1 510	2 814	30 691	139 412	201 140	340 559	7 389
FAYETTE COUNTY, TX													
31-33	Manufacturing	1	39	14	1 056	23 155	821	1 517	14 939	57 603	91 548	148 555	4 662
FORT BEND COUNTY, TX													
31-33	Manufacturing	1	270	89	11 923	452 721	7 187	14 716	202 280	1 493 427	1 225 277	2 704 876	148 793
311	Food mfg	-	14	4	1 097	51 590	803	2 014	27 567	174 230	344 996	512 645	D
3113	Sugar & confectionery product mfg	-	1	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
327	Nonmetallic mineral product mfg	1	19	8	652	19 016	556	1 273	14 359	52 091	55 123	104 022	4 511
332	Fabricated metal product mfg	-	75	26	2 897	92 969	1 961	3 552	57 662	272 460	280 997	559 204	16 562
3324	Boiler, tank, & shipping container mfg	-	3	3	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	16	9	1 393	37 331	783	1 036	19 376	129 537	120 861	258 575	6 801
33291	Metal valve mfg	-	9	6	1 063	33 167	532	798	16 723	118 643	114 059	240 950	6 302
332911	Industrial valve mfg . . .	-	5	4	f	D	D	D	D	D	D	D	D
333	Machinery mfg	5	20	9	801	34 868	489	1 201	17 841	81 065	66 697	144 476	4 868
334	Computer & electronic product mfg	-	31	13	h	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
3344	Semiconductor & other electronic component mfg	-	11	5	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	11	5	g	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg	-	3	1	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	2	15	6	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	2	15	6	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	15	8	1 472	40 368	866	1 753	22 525	133 688	145 519	274 993	13 211
3359	Other electrical equipment & component mfg	-	9	6	g	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg	-	2	2	f	D	D	D	D	D	D	D	D
335929	Other communication & energy wire 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)				
GALVESTON COUNTY, TX													
31-33	Manufacturing	1	160	35	7 279	392 507	4 817	10 921	244 497	1 761 759	7 422 044	9 182 629	183 618
324	Petroleum & coal products mfg	1	5	4	2 462	141 147	1 655	4 262	100 623	944 638	5 439 982	6 387 122	84 632
3241	Petroleum & coal products mfg	1	5	4	2 462	141 147	1 655	4 262	100 623	944 638	5 439 982	6 387 122	84 632
32411	Petroleum refineries	1	4	4	g	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	1	4	4	g	D	D	D	D	D	D	D	D
325	Chemical mfg	-	15	7	2 807	182 779	1 777	4 162	109 478	692 674	1 859 742	2 552 498	89 459
3251	Basic chemical mfg	-	10	6	2 734	180 637	1 725	4 071	108 078	686 484	1 857 170	2 543 715	89 210
32519	Other basic organic chemical mfg	-	6	4	2 651	176 560	1 689	3 980	106 325	655 570	1 843 997	2 499 694	88 738
325192	Cyclic crude & intermediate mfg	-	1	1	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	-	5	3	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	2	33	10	691	24 273	565	1 152	18 049	36 622	26 814	61 050	2 293
GILLESPIE COUNTY, TX													
31-33	Manufacturing	2	45	6	721	13 119	554	1 207	9 714	26 978	41 576	70 656	1 006
GONZALES COUNTY, TX													
31-33	Manufacturing	2	19	7	747	16 777	586	926	10 877	44 538	129 061	173 645	2 929
311	Food mfg	2	8	5	593	13 524	448	654	8 709	37 165	123 443	160 365	1 840
GRAY COUNTY, TX													
31-33	Manufacturing	-	20	6	1 082	53 231	704	1 640	30 200	190 077	232 233	419 856	15 121
325	Chemical mfg	-	2	2	f	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	-	2	2	f	D	D	D	D	D	D	D	D
GRAYSON COUNTY, TX													
31-33	Manufacturing	-	140	47	10 223	365 407	7 871	16 069	224 933	2 188 029	1 375 544	3 557 264	212 766
311	Food mfg	-	17	8	1 743	60 004	1 560	3 358	49 664	888 838	607 369	1 492 563	20 012
3116	Meat product mfg	-	3	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	3	1	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	4	4	669	18 811	598	1 202	15 418	113 254	75 335	189 440	6 868
3261	Plastics product mfg	-	4	4	669	18 811	598	1 202	15 418	113 254	75 335	189 440	6 868
327	Nonmetallic mineral product mfg	-	6	2	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .	-	2	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	2	1	f	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	5	4	736	20 549	613	1 242	15 254	29 759	103 692	131 207	5 760
332	Fabricated metal product mfg	-	35	8	1 179	36 135	957	1 894	26 357	138 299	127 856	263 084	11 547
3325	Hardware mfg	-	3	2	f	D	D	D	D	D	D	D	D
33251	Hardware mfg	-	3	2	f	D	D	D	D	D	D	D	D
332510	Hardware mfg	-	3	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	10	3	586	18 735	416	902	11 186	57 267	33 320	89 576	2 652

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)				
	GRAYSON COUNTY, TX —Con.												
31-33	Manufacturing— Con.												
334	Computer & electronic product mfg.....	-	7	5	3 138	148 269	1 922	3 909	60 097	729 347	209 614	941 194	145 275
3344	Semiconductor & other electronic component mfg.....	-	5	4	h	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	-	5	4	h	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg...	-	2	2	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	8	1	f	D	D	D	D	D	D	D	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
339113	Surgical appliance & supplies mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
	GREGG COUNTY, TX												
31-33	Manufacturing	-	205	83	13 008	447 553	9 627	19 012	279 554	1 391 945	2 024 157	3 408 638	165 327
325	Chemical mfg.....	-	6	5	h	D	D	D	D	D	D	D	D
3251	Basic chemical mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	1	11	5	728	18 582	576	1 086	12 081	60 125	44 696	104 299	8 639
3261	Plastics product mfg.....	1	10	5	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	-	6	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	1	65	22	2 231	70 062	1 810	3 509	49 976	143 771	229 413	372 881	D
3324	Boiler, tank, & shipping container mfg.....	-	11	8	f	D	D	D	D	D	D	D	6 345
33242	Metal tank (heavy gauge) mfg.....	-	7	6	648	22 167	545	1 248	14 645	54 261	127 629	180 892	D
332420	Metal tank (heavy gauge) mfg.....	-	7	6	648	22 167	545	1 248	14 645	54 261	127 629	180 892	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	1	31	9	545	14 295	442	723	9 635	25 003	14 251	38 922	D
333	Machinery mfg.....	2	23	16	2 816	84 883	2 009	3 949	57 425	138 846	222 602	355 415	D
3331	Agriculture, construction, & mining machinery mfg....	-	9	6	1 887	61 081	1 350	2 736	43 306	77 656	151 421	223 728	8 445
33312	Construction machinery mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
333120	Construction machinery mfg.....	-	2	2	g	D	D	D	D	D	D	D	D
33313	Mining & oil & gas field machinery mfg.....	2	7	4	f	D	D	D	D	D	D	D	D
333132	Oil & gas field machinery & equipment mfg.....	2	6	4	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	1	6	5	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg..	1	6	5	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)				
GREGG COUNTY, TX—Con.													
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg.....	-	10	4	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg.....	-	3	3	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	1	12	5	g	D	D	D	D	D	D	D	D
GRIMES COUNTY, TX													
31-33	Manufacturing	-	21	9	1 910	63 307	1 666	3 586	47 013	203 152	187 661	386 851	11 855
332	Fabricated metal product mfg.....	-	12	7	g	D	D	D	D	D	D	D	10 678
3321	Forging & stamping.....	-	2	2	f	D	D	D	D	D	D	D	D
33211	Forging & stamping.....	-	2	2	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg.....	-	3	3	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
332996	Fabricated pipe & pipe fitting mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
GUADALUPE COUNTY, TX													
31-33	Manufacturing	-	90	35	5 592	150 368	4 115	7 321	93 947	616 743	698 039	1 320 331	41 945
311	Food mfg.....	1	9	3	g	D	D	D	D	D	D	D	1 119
3116	Meat product mfg.....	-	4	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	4	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing.....	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
3311	Iron & steel mills & ferroalloy mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
331111	Iron & steel mills.....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg.....	-	9	5	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg....	-	1	1	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
HALE COUNTY, TX													
31-33	Manufacturing	-	32	13	h	D	D	D	D	D	D	D	16 762
311	Food mfg.....	-	10	7	g	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	-	3	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	3	3	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering.....	-	1	1	g	D	D	D	D	D	D	D	D
HARDIN COUNTY, TX													
31-33	Manufacturing	1	37	13	1 016	30 012	808	1 996	21 139	62 710	111 125	173 081	6 675
321	Wood product mfg.....	1	9	6	f	D	D	D	D	D	D	D	D

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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)
HARRIS COUNTY, TX													
31-33	Manufacturing	-	4 374	1 386	158 572	5 991 250	108 800	220 526	3 390 217	29 799 670	43 557 172	73 227 741	3 026 910
311	Food mfg	-	222	59	9 276	246 060	6 546	13 290	145 687	1 007 620	1 298 218	2 305 037	55 026
3114	Fruit & vegetable preserving & specialty food mfg	1	15	7	g	D	D	D	D	D	D	D	D
31141	Frozen food mfg	2	7	5	1 499	26 081	1 397	3 151	24 009	51 811	40 728	92 522	2 518
311412	Frozen specialty food mfg	2	7	5	1 499	26 081	1 397	3 151	24 009	51 811	40 728	92 522	2 518
3116	Meat product mfg	-	24	10	g	D	D	D	D	D	D	D	4 896
31161	Animal slaughtering & processing	-	24	10	g	D	D	D	D	D	D	D	4 896
311612	Meat processed from carcasses	-	12	6	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	1	129	20	h	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	1	113	15	h	D	D	D	D	D	D	D	D
311812	Commercial bakeries	-	27	9	1 881	55 519	869	1 565	18 070	130 942	72 811	203 678	5 185
31182	Cookie, cracker, & pasta mfg	2	9	3	f	D	D	D	D	D	D	D	D
3119	Other food mfg	-	33	15	g	D	D	D	D	D	D	D	D
31192	Coffee & tea mfg	-	7	4	f	D	D	D	D	D	D	D	D
311920	Coffee & tea mfg	-	7	4	f	D	D	D	D	D	D	D	D
31199	All other food mfg	1	20	8	f	D	D	D	D	D	D	D	D
311999	All other miscellaneous food mfg	-	10	3	537	13 075	465	936	9 696	49 262	64 693	113 875	4 799
312	Beverage & tobacco product mfg	-	15	9	h	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	14	9	h	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	-	11	8	g	D	D	D	D	D	D	D	D
312111	Soft drink mfg	-	6	5	g	D	D	D	D	D	D	D	D
31212	Breweries	-	3	1	g	D	D	D	D	D	D	D	D
312120	Breweries	-	3	1	g	D	D	D	D	D	D	D	D
314	Textile product mills	3	75	14	1 309	25 449	1 014	1 806	15 175	45 208	37 219	82 236	1 895
3149	Other textile product mills	4	46	8	f	D	D	D	D	D	D	D	D
31499	All other textile product mills	5	23	5	f	D	D	D	D	D	D	D	D
315	Apparel mfg	6	53	6	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	5	38	6	f	D	D	D	D	D	D	D	D
321	Wood product mfg	4	79	19	g	D	D	D	D	D	D	D	D
3219	Other wood product mfg	5	71	15	g	D	D	D	D	D	D	D	D
322	Paper mfg	-	46	23	h	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	3	3	g	D	D	D	D	D	D	D	38 530
32212	Paper mills	-	2	2	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D
322122	Newsprint mills	-	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	2	43	20	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	1	21	14	f	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	1	18	12	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	3	543	94	i	D	D	D	D	D	D	D	D
3231	Printing & related support activities	3	543	94	i	D	D	D	D	D	D	D	D
32311	Printing	3	499	82	i	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	2	257	57	i	D	D	D	D	D	D	D	33 208
323113	Commercial screen printing	4	43	8	f	D	D	D	D	D	D	D	D
323114	Quick printing	4	114	5	f	D	D	D	D	D	D	D	D
32312	Support activities for printing	4	44	12	f	D	D	D	D	D	D	D	3 056
324	Petroleum & coal products mfg	1	33	16	5 312	329 499	3 355	8 346	191 063	2 966 446	9 942 569	12 947 053	D
3241	Petroleum & coal products mfg	1	33	16	5 312	329 499	3 355	8 346	191 063	2 966 446	9 942 569	12 947 053	D
32411	Petroleum refineries	1	8	7	h	D	D	D	D	D	D	D	D
324110	Petroleum refineries	1	8	7	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	HARRIS COUNTY, TX—Con.												
	Manufacturing—Con.												
	Chemical mfg	-	319	161	24 978	1 407 374	14 847	33 159	757 329	13 465 807	17 677 811	31 029 442	1 919 114
3251	Basic chemical mfg	-	100	71	13 498	827 279	7 879	18 126	438 447	9 753 260	11 361 999	21 045 661	D
32511	Petrochemical mfg	-	11	10	4 635	302 173	2 393	5 812	149 689	6 101 363	6 047 981	12 082 746	534 405
325110	Petrochemical mfg	-	11	10	4 635	302 173	2 393	5 812	149 689	6 101 363	6 047 981	12 082 746	534 405
32512	Industrial gas mfg	-	20	9	f	D	D	D	D	D	D	D	D
325120	Industrial gas mfg	-	20	9	f	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	-	20	14	1 668	97 841	1 078	2 373	61 733	520 156	388 522	913 490	D
325181	Alkalies & chlorine mfg	-	1	1	f	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg	-	18	12	g	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	-	48	37	i	D	D	D	D	D	D	D	D
325192	Cyclic crude & intermediate mfg	-	4	3	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	-	44	34	i	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	35	27	i	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg	-	35	27	i	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg	-	28	23	h	D	D	D	D	D	D	D	D
325212	Synthetic rubber mfg	-	7	4	1 005	53 587	775	1 762	38 661	193 439	268 895	453 193	D
3253	Pesticide, fertilizer, & other agricultural chemical mfg	-	15	7	g	D	D	D	D	D	D	D	D
32532	Pesticide & other agricultural chemical mfg	-	9	4	g	D	D	D	D	D	D	D	D
325320	Pesticide & other agricultural chemical mfg	-	9	4	g	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	-	41	13	g	D	D	D	D	D	D	D	9 355
32551	Paint & coating mfg	-	31	10	g	D	D	D	D	D	D	D	8 046
325510	Paint & coating mfg	-	31	10	g	D	D	D	D	D	D	D	8 046
3256	Soap, cleaning compound, & toilet preparation mfg ..	2	47	15	g	D	D	D	D	D	D	D	D
32561	Soap & cleaning compound mfg	1	38	12	f	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	1	69	27	g	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg	1	62	27	g	D	D	D	D	D	D	D	D
325991	Custom compounding of purchased resin	1	24	10	f	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product & preparation mfg	1	31	15	f	D	D	D	D	D	D	D	22 143
326	Plastics & rubber products mfg	1	222	102	9 311	258 270	7 063	13 816	163 896	723 509	690 244	1 389 479	67 388
3261	Plastics product mfg	1	184	94	8 675	238 882	6 557	12 705	152 281	684 685	666 347	1 331 444	62 681
32611	Unsupported plastics film, sheet, & bag mfg ..	1	31	16	g	D	D	D	D	D	D	D	D
326111	Unsupported plastics bag mfg	3	18	7	f	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	-	11	8	g	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	3	16	7	f	D	D	D	D	D	D	D	D
32616	Plastics bottle mfg	-	9	8	797	26 444	712	1 570	20 599	88 830	110 301	197 800	9 297
326160	Plastics bottle mfg	-	9	8	797	26 444	712	1 570	20 599	88 830	110 301	197 800	9 297
32619	Other plastics product mfg	1	109	54	4 885	126 471	3 782	6 941	82 195	336 665	269 992	591 022	31 269
326199	All other plastics product mfg	2	98	49	h	D	D	D	D	D	D	D	D
3262	Rubber product mfg	2	38	8	636	19 388	506	1 111	11 615	38 824	23 897	58 035	4 707
32629	Other rubber product mfg	2	24	7	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	3	149	33	h	D	D	D	D	D	D	D	18 907
3273	Cement & concrete product mfg	4	73	20	g	D	D	D	D	D	D	D	12 190
32732	Ready-mix concrete mfg	4	44	11	f	D	D	D	D	D	D	D	10 906
327320	Ready-mix concrete mfg	4	44	11	f	D	D	D	D	D	D	D	10 906

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	HARRIS COUNTY, TX—Con.												
31-33	Manufacturing—Con.												
331	Primary metal mfg	1	45	23	1 947	60 245	1 542	3 131	44 097	151 460	406 303	560 304	19 162
3312	Steel product mfg from purchased steel	1	14	12	f	D	D	D	D	D	D	D	D
33121	Iron & steel pipes & tubes mfg from purchased steel	2	8	7	f	D	D	D	D	D	D	D	D
331210	Iron & steel pipes & tubes mfg from purchased steel	2	8	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	1 239	425	34 357	1 173 886	25 590	54 092	728 970	2 488 404	2 241 583	4 716 678	166 599
3321	Forging & stamping	1	37	20	2 918	112 216	2 123	4 393	69 508	293 717	402 000	689 300	34 005
33211	Forging & stamping	1	37	20	2 918	112 216	2 123	4 393	69 508	293 717	402 000	689 300	34 005
332111	Iron & steel forging	1	10	5	g	D	D	D	D	D	D	D	D
332114	Custom roll forming	—	9	8	f	D	D	D	D	D	D	D	D
332116	Metal stamping	4	16	7	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	1	258	97	7 980	239 043	5 802	12 066	137 648	463 456	565 027	1 022 073	D
33231	Plate work & fabricated structural product mfg	—	117	51	4 709	150 448	3 468	7 574	85 512	251 160	369 139	618 023	11 614
332311	Prefabricated metal building & component mfg	—	16	10	2 158	70 875	1 456	3 280	36 040	97 235	171 413	267 701	D
332312	Fabricated structural metal mfg	1	65	31	1 948	58 786	1 551	3 364	36 359	111 030	168 698	280 845	4 927
332313	Plate work mfg	2	36	10	603	20 787	461	930	13 113	42 895	29 028	69 477	D
33232	Ornamental & architectural metal products mfg	1	141	46	3 271	88 595	2 334	4 492	52 136	212 296	195 888	404 050	D
332321	Metal window & door mfg	2	28	11	f	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg	1	82	28	g	D	D	D	D	D	D	D	7 510
332323	Ornamental & architectural metal work mfg	—	31	7	f	D	D	D	D	D	D	D	D
3324	Boiler, tank, & shipping container mfg	—	57	42	3 160	111 286	2 312	5 068	73 848	221 033	258 208	484 890	D
33241	Power boiler & heat exchanger mfg	1	21	17	g	D	D	D	D	D	D	D	D
332410	Power boiler & heat exchanger mfg	1	21	17	g	D	D	D	D	D	D	D	D
33242	Metal tank (heavy gauge) mfg	—	25	19	g	D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) mfg	—	25	19	g	D	D	D	D	D	D	D	D
33243	Metal can, box, & other metal container (light gauge) mfg	—	11	6	f	D	D	D	D	D	D	D	D
332439	Other metal container mfg	—	8	5	f	D	D	D	D	D	D	D	D
3326	Spring & wire product mfg	1	29	13	f	D	D	D	D	D	D	D	D
33261	Spring & wire product mfg	1	29	13	f	D	D	D	D	D	D	D	D
332618	Other fabricated wire product mfg	2	21	8	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	523	107	7 551	278 646	5 901	12 166	186 493	521 779	237 522	754 514	47 697
33271	Machine shops	2	466	88	6 220	231 262	4 863	10 045	155 912	435 138	183 641	615 854	36 586
332710	Machine shops	2	466	88	6 220	231 262	4 863	10 045	155 912	435 138	183 641	615 854	36 586
33272	Turned product & screw, nut, & bolt mfg	1	57	19	1 331	47 384	1 038	2 121	30 581	86 641	53 881	138 660	11 111
332721	Precision turned product mfg	—	35	10	f	D	D	D	D	D	D	D	D
332722	Bolt, nut, screw, rivet, & washer mfg	3	22	9	f	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, & allied activities	1	133	57	3 983	128 838	3 230	6 962	86 967	292 878	189 358	479 582	16 307
33281	Coating, engraving, heat treating, & allied activities	1	133	57	3 983	128 838	3 230	6 962	86 967	292 878	189 358	479 582	16 307
332811	Metal heat treating	—	26	14	g	D	D	D	D	D	D	D	D
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	1	54	24	g	D	D	D	D	D	D	D	7 907
332813	Electroplating, plating, polishing, anodizing, & coloring	1	53	19	g	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)				
	HARRIS COUNTY, TX—Con.												
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3329	Other fabricated metal product mfg	1	187	87	7 568	267 224	5 277	11 521	152 400	620 830	521 640	1 143 399	31 425
33291	Metal valve mfg	1	79	46	4 038	150 206	2 601	5 850	79 181	349 567	265 145	616 340	15 394
332911	Industrial valve mfg . . .	—	34	24	2 400	100 646	1 448	3 333	48 859	232 001	159 295	392 485	10 273
332919	Other metal valve & pipe fitting mfg	3	32	19	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	—	108	41	3 530	117 018	2 676	5 671	73 219	271 263	256 495	527 059	16 031
332996	Fabricated pipe & pipe fitting mfg	—	39	21	1 973	58 658	1 543	3 473	36 758	140 366	180 073	319 220	9 692
332999	All other miscellaneous fabricated metal product mfg	—	50	17	g	D	D	D	D	D	D	D	5 746
333	Machinery mfg	—	420	164	22 462	865 750	13 860	28 626	459 460	2 738 956	2 632 497	5 193 545	204 278
3331	Agriculture, construction, & mining machinery mfg	—	139	69	11 162	492 937	6 910	14 365	248 610	1 549 959	1 034 159	2 384 556	128 359
33312	Construction machinery mfg	1	12	5	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	1	12	5	f	D	D	D	D	D	D	D	D
33313	Mining & oil & gas field machinery mfg	—	122	63	j	D	D	D	D	D	D	D	D
333132	Oil & gas field machinery & equipment mfg	—	118	61	j	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg . .	2	28	10	f	D	D	D	D	D	D	D	3 762
33329	Other industrial machinery mfg	2	25	10	f	D	D	D	D	D	D	D	D
333298	All other industrial machinery mfg	3	17	8	f	D	D	D	D	D	D	D	2 488
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	35	17	h	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	35	17	h	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refig equip mfg	—	21	13	g	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	2	53	12	872	27 598	682	1 255	18 351	68 255	30 335	96 573	7 649
33351	Metalworking machinery mfg	2	53	12	872	27 598	682	1 255	18 351	68 255	30 335	96 573	7 649
333515	Cutting tool & machine tool accessory mfg . .	2	21	7	542	17 195	430	859	11 541	43 004	18 347	60 633	5 469
3336	Engine, turbine, & power transmission equipment mfg	—	18	7	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	—	18	7	g	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg	—	6	4	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	1	126	42	4 108	159 510	2 494	5 387	77 720	460 066	678 925	1 065 663	19 248
33391	Pump & compressor mfg	1	32	13	g	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg	1	20	7	f	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg	—	10	5	f	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	—	29	11	g	D	D	D	D	D	D	D	D
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	—	9	4	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	2	65	18	g	D	D	D	D	D	D	D	D
333991	Power-driven handtool mfg	—	4	3	516	21 346	267	518	10 325	47 096	11 601	57 905	D
333999	All other miscellaneous general-purpose machinery mfg	3	40	8	f	D	D	D	D	D	D	D	3 070

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	HARRIS COUNTY, TX—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg	-	202	70	j	D	D	D	D	D	D	D	41 236
3341	Computer & peripheral equipment mfg	-	28	8	i	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	-	28	8	i	D	D	D	D	D	D	D	D
334111	Electronic computer mfg	-	16	3	i	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	5	44	13	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	5	44	13	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	1	106	46	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	1	106	46	h	D	D	D	D	D	D	D	D
334513	Industrial process control instrument mfg	1	37	17	g	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument mfg	2	19	6	f	D	D	D	D	D	D	D	D
334519	Other measuring & controlling device mfg	-	17	9	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	1	93	32	4 611	166 243	3 060	6 210	84 033	342 447	525 655	875 692	24 310
3353	Electrical equipment mfg ..	-	52	16	2 804	110 547	1 757	3 340	52 778	161 825	389 810	556 489	16 860
33531	Electrical equipment mfg	-	52	16	2 804	110 547	1 757	3 340	52 778	161 825	389 810	556 489	16 860
335312	Motor & generator mfg	-	6	3	g	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg	-	11	3	g	D	D	D	D	D	D	D	3 827
335314	Relay & industrial control mfg	3	28	9	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	3	26	12	g	D	D	D	D	D	D	D	D
33593	Wiring device mfg	-	8	3	f	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	7	18	9	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment & component mfg	7	17	8	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	3	109	38	h	D	D	D	D	D	D	D	16 390
3363	Motor vehicle parts mfg	6	37	8	f	D	D	D	D	D	D	D	D
3366	Ship & boat building	1	32	11	g	D	D	D	D	D	D	D	D
33661	Ship & boat building	1	32	11	g	D	D	D	D	D	D	D	D
336611	Ship building & repairing	1	27	11	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	143	32	h	D	D	D	D	D	D	D	5 012
3371	Household & institutional furniture & kitchen cabinet mfg	4	95	11	f	D	D	D	D	D	D	D	1 405
33712	Household & institutional furniture mfg	5	64	8	f	D	D	D	D	D	D	D	953
3372	Office furniture (including fixtures) mfg	1	31	10	f	D	D	D	D	D	D	D	1 150
33721	Office furniture (including fixtures) mfg	1	31	10	f	D	D	D	D	D	D	D	1 150
3379	Other furniture related product mfg	-	17	11	1 329	23 126	976	1 905	14 767	73 841	75 072	147 145	2 457
33792	Blind & shade mfg	-	7	5	925	15 819	699	1 377	10 094	51 832	52 024	102 082	1 689
337920	Blind & shade mfg	-	7	5	925	15 819	699	1 377	10 094	51 832	52 024	102 082	1 689
339	Miscellaneous mfg	2	344	66	6 680	187 726	4 539	9 565	103 764	591 892	275 844	869 337	32 105
3391	Medical equipment & supplies mfg	1	113	16	g	D	D	D	D	D	D	D	9 973
33911	Medical equipment & supplies mfg	1	113	16	g	D	D	D	D	D	D	D	9 973
339112	Surgical & medical instrument mfg	4	15	6	f	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg	-	15	5	f	D	D	D	D	D	D	D	D
339116	Dental laboratories	3	71	4	f	D	D	D	D	D	D	D	876

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
31-33	HARRIS COUNTY, TX—Con.													
	Manufacturing—Con.													
339	Miscellaneous mfg—Con.													
3399	Other miscellaneous mfg . . .	3	231	50	h	D	D	D	D	D	D	D	22 132	
33995	Sign mfg	3	93	14	f	D	D	D	D	D	D	D	D	
339950	Sign mfg	3	93	14	f	D	D	D	D	D	D	D	D	
33999	All other miscellaneous mfg	2	73	27	h	D	D	D	D	D	D	D	19 240	
339991	Gasket, packing, & sealing device mfg	3	28	18	g	D	D	D	D	D	D	D	11 824	
339999	All other miscellaneous mfg	1	35	7	f	D	D	D	D	D	D	D	D	
	HARRISON COUNTY, TX													
31-33	Manufacturing	1	90	38		3 128	83 247	2 368	4 925	55 321	301 381	303 456	600 427	35 446
	HAYS COUNTY, TX													
31-33	Manufacturing	1	108	29		3 389	96 186	2 388	4 376	50 651	249 927	227 899	477 028	18 248
332	Fabricated metal product mfg	1	16	8		848	22 738	644	1 414	13 650	51 986	74 513	126 953	3 157
335	Electrical equipment, appliance, & component mfg	—	8	4	f	D	D	D	D	D	D	D	D	D
	HENDERSON COUNTY, TX													
31-33	Manufacturing	—	49	14		1 880	38 292	1 490	2 826	26 163	127 235	87 570	214 292	4 267
339	Miscellaneous mfg	—	7	2	f	D	D	D	D	D	D	D	D	583
3391	Medical equipment & supplies mfg	—	4	2	f	D	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	—	4	2	f	D	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg	—	2	1	f	D	D	D	D	D	D	D	D	D
	HIDALGO COUNTY, TX													
31-33	Manufacturing	—	261	67		10 284	178 274	8 159	13 667	123 139	671 915	749 801	1 428 173	40 651
311	Food mfg	1	50	14		2 119	32 302	1 611	2 567	21 246	107 244	152 517	264 763	11 275
3114	Fruit & vegetable preserving & specialty food mfg	1	6	5	1 081	17 120	887	1 346	11 707	57 874	83 894	146 968	7 057	
31141	Frozen food mfg	4	3	3	f	D	D	D	D	D	D	D	3 142	
311411	Frozen fruit, juice, & vegetable mfg	4	3	3	f	D	D	D	D	D	D	D	3 142	
315	Apparel mfg	—	18	11	4 191	60 755	3 617	5 748	47 791	275 484	287 226	564 881	1 906	
3152	Cut & sew apparel mfg	—	17	11	h	D	D	D	D	D	D	D	D	
31522	Men's & boys' cut & sew apparel mfg	—	8	6	h	D	D	D	D	D	D	D	657	
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	—	4	2	f	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	
315225	Men's & boys' cut & sew work clothing mfg	—	2	2	g	D	D	D	D	D	D	D	D	
31523	Women's & girls' cut & sew apparel mfg	—	4	3	g	D	D	D	D	D	D	D	1 232	
315239	Women's & girls' cut & sew other outerwear mfg	—	1	1	f	D	D	D	D	D	D	D	D	
333	Machinery mfg	—	11	3	505	9 954	399	750	6 942	30 195	19 789	49 340	675	
	HILL COUNTY, TX													
31-33	Manufacturing	1	37	10		1 237	30 670	1 055	2 142	23 670	78 559	99 112	174 409	3 432
	HOPKINS COUNTY, TX													
31-33	Manufacturing	—	43	16		1 463	41 351	1 103	2 345	27 673	229 360	299 002	526 142	18 592
	HOUSTON COUNTY, TX													
31-33	Manufacturing	—	24	9		618	13 311	530	1 028	9 829	50 922	80 237	131 803	3 353

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
HOWARD COUNTY, TX													
31-33	Manufacturing	-	27	13	1 124	34 596	851	1 486	23 530	157 899	568 448	726 199	10 529
HUNT COUNTY, TX													
31-33	Manufacturing	-	58	26	7 223	255 995	5 621	10 257	180 614	669 402	804 582	1 478 922	30 730
321	Wood product mfg	3	8	7	959	15 433	774	1 658	10 204	66 277	159 725	224 454	2 433
3219	Other wood product mfg ...	4	6	5	f	D	D	D	D	D	D	D	D
32191	Millwork	5	5	4	f	D	D	D	D	D	D	D	2 116
321911	Wood window & door mfg	5	4	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	4	3	1 098	29 739	940	1 886	19 719	142 079	140 790	284 235	D
3261	Plastics product mfg	-	4	3	1 098	29 739	940	1 886	19 719	142 079	140 790	284 235	D
32619	Other plastics product mfg	-	3	3	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	3	3	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	1	1	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
336411	Aircraft mfg	-	1	1	h	D	D	D	D	D	D	D	D
HUTCHINSON COUNTY, TX													
31-33	Manufacturing	-	30	10	1 718	89 066	1 346	2 605	54 985	373 656	1 587 431	1 949 086	D
324	Petroleum & coal products mfg	-	3	1	f	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	-	3	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	-	7	5	f	D	D	D	D	D	D	D	D
JACKSON COUNTY, TX													
31-33	Manufacturing	-	11	3	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	4	3	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	4	3	g	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg ..	-	2	2	g	D	D	D	D	D	D	D	D
326111	Unsupported plastics bag mfg	-	1	1	f	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	-	1	1	f	D	D	D	D	D	D	D	D
JASPER COUNTY, TX													
31-33	Manufacturing	-	29	9	1 911	76 569	1 524	3 226	58 894	234 285	319 055	543 174	12 232
321	Wood product mfg	-	7	6	547	13 692	447	1 059	9 898	29 115	73 776	101 433	4 146
322	Paper mfg	-	1	1	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D
32213	Paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D
322130	Paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
JEFFERSON COUNTY, TX													
31-33	Manufacturing	-	230	79	14 471	727 033	10 170	23 112	469 663	4 398 680	11 445 345	15 920 187	674 295
324	Petroleum & coal products mfg	-	9	7	h	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	-	9	7	h	D	D	D	D	D	D	D	D
32411	Petroleum refineries	-	6	5	h	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	-	6	5	h	D	D	D	D	D	D	D	D
325	Chemical mfg	-	30	21	i	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	1	17	11	h	D	D	D	D	D	D	D	D
32512	Industrial gas mfg	-	6	2	f	D	D	D	D	D	D	D	D
325120	Industrial gas mfg	-	6	2	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	1	7	6	1 533	95 946	1 109	3 176	68 847	990 368	1 176 990	2 168 974	92 082
325199	All other basic organic chemical mfg	1	7	6	1 533	95 946	1 109	3 176	68 847	990 368	1 176 990	2 168 974	92 082
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	6	6	2 118	116 447	1 389	2 937	66 632	880 577	1 098 555	1 976 359	D
32521	Resin & synthetic rubber mfg	-	6	6	2 118	116 447	1 389	2 937	66 632	880 577	1 098 555	1 976 359	D
325211	Plastics material & resin mfg	1	3	3	f	D	D	D	D	D	D	D	13 796
325212	Synthetic rubber mfg..	-	3	3	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	4	4	f	D	D	D	D	D	D	D	D
3315	Foundries	-	4	4	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .	-	3	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	52	18	g	D	D	D	D	D	D	D	9 891
3329	Other fabricated metal product mfg	-	10	7	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	-	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
334516	Analytical laboratory instrument mfg	-	1	1	f	D	D	D	D	D	D	D	D
JOHNSON COUNTY, TX													
31-33	Manufacturing	1	170	49	5 942	161 339	4 521	8 939	106 119	523 925	463 769	981 391	44 428
315	Apparel mfg	2	5	2	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	2	3	2	f	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	2	2	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg	-	11	8	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	-	11	8	f	D	D	D	D	D	D	D	D
32199	All other wood product mfg	-	6	5	665	20 199	521	1 097	11 908	46 265	65 110	110 956	D
321991	Manufactured home (mobile home) mfg ..	-	3	3	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	12	4	636	26 762	513	1 164	21 106	73 692	55 285	125 776	D
332	Fabricated metal product mfg	-	34	5	601	18 654	479	1 053	13 784	72 430	43 604	116 102	D
333	Machinery mfg	2	21	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)				
KAUFMAN COUNTY, TX													
31-33	Manufacturing	-	109	34	4 274	120 377	3 132	6 017	68 068	267 160	254 544	521 300	12 782
332	Fabricated metal product mfg	-	25	9	1 331	37 662	946	1 911	22 115	52 863	81 385	133 853	2 691
3323	Architectural & structural metals mfg	-	8	3	992	29 375	705	1 446	17 287	34 511	68 642	102 791	1 949
33232	Ornamental & architectural metal products mfg	-	6	2	f	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	8	2	527	12 453	465	966	9 438	37 478	32 613	69 998	D
337	Furniture & related product mfg	-	8	3	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	-	3	2	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	-	3	2	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, & locker mfg	-	1	1	f	D	D	D	D	D	D	D	D
KERR COUNTY, TX													
31-33	Manufacturing	2	49	5	960	24 932	652	1 203	14 192	53 538	42 675	92 903	2 654
336	Transportation equipment mfg	1	3	2	f	D	D	D	D	D	D	D	D
LAMAR COUNTY, TX													
31-33	Manufacturing	-	60	22	4 809	160 984	4 036	8 613	125 691	1 336 663	725 249	2 056 311	55 389
311	Food mfg	-	7	3	g	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
311422	Specialty canning	-	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	3	1	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	3	1	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	2	2	g	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	2	2	g	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	-	1	1	f	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	11	6	887	27 180	761	1 510	21 909	57 469	70 314	129 632	2 528
3324	Boiler, tank, & shipping container mfg	-	2	2	f	D	D	D	D	D	D	D	D
33241	Power boiler & heat exchanger mfg	-	1	1	f	D	D	D	D	D	D	D	D
332410	Power boiler & heat exchanger mfg	-	1	1	f	D	D	D	D	D	D	D	D
LAMB COUNTY, TX													
31-33	Manufacturing	-	14	3	678	16 668	567	1 154	13 270	53 574	68 014	123 587	D
313	Textile mills	-	1	1	f	D	D	D	D	D	D	D	D
3132	Fabric mills	-	1	1	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills	-	1	1	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	1	1	f	D	D	D	D	D	D	D	D
LAVACA COUNTY, TX													
31-33	Manufacturing	-	46	22	2 127	37 232	1 568	2 743	20 903	92 806	97 602	192 504	4 734
333	Machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg	-	1	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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LIBERTY COUNTY, TX													
31-33	Manufacturing	-	41	12	1 220	36 099	986	2 019	26 661	84 924	128 915	209 843	D
321	Wood product mfg	-	7	5	f	D	D	D	D	D	D	D	D
LIMESTONE COUNTY, TX													
31-33	Manufacturing	4	17	6	790	15 354	686	1 108	11 159	40 582	39 160	80 062	4 211
LUBBOCK COUNTY, TX													
31-33	Manufacturing	-	258	71	7 286	203 827	5 026	9 809	99 960	881 411	695 508	1 566 439	142 257
311	Food mfg	-	32	12	1 496	42 562	936	2 046	21 030	144 765	279 515	424 057	65 324
326	Plastics & rubber products mfg	-	10	3	685	17 111	496	889	7 663	38 255	38 897	78 085	3 895
3261	Plastics product mfg	-	6	3	656	16 394	482	853	7 329	36 752	35 358	73 041	D
32619	Other plastics product mfg	-	4	2	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	4	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	43	8	765	20 850	555	1 173	12 651	65 536	61 148	121 607	8 376
333	Machinery mfg	-	31	18	1 863	48 233	1 396	2 856	26 966	105 160	155 380	256 094	5 725
3331	Agriculture, construction, & mining machinery mfg.	-	8	4	656	17 899	531	1 044	9 073	53 038	73 818	121 931	2 446
33312	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	9	6	683	17 229	486	1 042	10 303	27 675	59 927	87 765	2 798
334	Computer & electronic product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	1	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	1	1	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
MCLENNAN COUNTY, TX													
31-33	Manufacturing	-	261	101	16 474	481 690	11 828	23 908	291 166	2 100 437	1 772 646	3 855 638	70 075
311	Food mfg	-	19	10	3 095	94 482	2 240	4 894	59 170	716 731	424 124	1 128 705	21 758
3113	Sugar & confectionery product mfg	-	1	1	f	D	D	D	D	D	D	D	D
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
3116	Meat product mfg	-	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	2	2	g	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	g	D	D	D	D	D	D	D	D
321	Wood product mfg	-	14	7	2 033	50 421	1 696	2 952	34 243	130 733	194 845	325 874	3 029
3219	Other wood product mfg ...	-	13	6	g	D	D	D	D	D	D	D	D
32199	All other wood product mfg	-	6	5	1 857	47 474	1 547	2 674	31 679	124 032	176 151	300 896	2 126
321991	Manufactured home (mobile home) mfg ..	-	5	5	g	D	D	D	D	D	D	D	D
322	Paper mfg	-	13	10	1 513	43 635	1 253	2 712	33 750	163 384	201 585	366 709	16 146
3222	Converted paper product mfg	-	13	10	1 513	43 635	1 253	2 712	33 750	163 384	201 585	366 709	16 146
32221	Paperboard container mfg	-	7	5	745	20 662	575	1 402	15 108	59 736	92 333	149 637	10 785
322211	Corrugated & solid fiber box mfg	-	6	4	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	40	9	799	18 954	617	1 133	12 853	45 625	29 122	74 540	1 561
3231	Printing & related support activities	1	40	9	799	18 954	617	1 133	12 853	45 625	29 122	74 540	1 561
32311	Printing	1	36	8	738	18 065	567	1 055	12 243	44 254	28 755	72 791	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	MCLENNAN COUNTY, TX—Con.													
	Manufacturing—Con.													
325	Chemical mfg	—	3	2	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	
325412	Pharmaceutical preparation mfg	—	2	1	f	D	D	D	D	D	D	D	D	
327	Nonmetallic mineral product mfg	—	14	12		1 074	34 935	934	1 863	28 170	108 339	111 037	220 678	3 011
332	Fabricated metal product mfg	1	45	12		1 406	46 607	975	2 061	29 027	118 789	125 704	245 193	6 588
3323	Architectural & structural metals mfg	2	15	7		647	18 090	456	991	10 785	41 866	70 846	112 883	2 631
333	Machinery mfg	—	18	8		1 194	36 124	766	1 514	17 464	89 205	116 130	202 211	1 414
3339	Other general-purpose machinery mfg	1	8	3	f	D	D	D	D	D	D	D	D	440
33392	Material handling equipment mfg	—	3	2	f	D	D	D	D	D	D	D	D	D
333923	Overhead traveling crane, hoist, & monorail system mfg	—	3	2	f	D	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	14	7		2 284	87 031	1 070	2 221	35 355	341 046	225 585	566 011	5 508
3364	Aerospace product & parts mfg	—	3	2	g	D	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	3	2	g	D	D	D	D	D	D	D	D	D
336411	Aircraft mfg	—	1	1	g	D	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	—	21	8		558	13 294	461	1 041	8 160	29 153	37 165	67 177	468
	MATAGORDA COUNTY, TX													
31-33	Manufacturing	—	29	5	f	D	D	D	D	D	D	D	D	19 564
325	Chemical mfg	—	5	4	f	D	D	D	D	D	D	D	D	18 729
	MAVERICK COUNTY, TX													
31-33	Manufacturing	1	19	7		1 091	13 218	1 001	1 504	10 499	20 276	57 054	77 997	1 056
315	Apparel mfg	1	5	4		774	8 798	726	1 234	7 576	6 833	49 870	57 275	D
3152	Cut & sew apparel mfg	1	5	4		774	8 798	726	1 234	7 576	6 833	49 870	57 275	D
31522	Men's & boys' cut & sew apparel mfg	1	5	4		774	8 798	726	1 234	7 576	6 833	49 870	57 275	D
315225	Men's & boys' cut & sew work clothing mfg	—	3	3	f	D	D	D	D	D	D	D	D	D
	MEDINA COUNTY, TX													
31-33	Manufacturing	1	23	4		556	13 795	418	786	9 903	33 172	17 716	50 479	1 419
	MIDLAND COUNTY, TX													
31-33	Manufacturing	3	135	31		2 435	76 509	1 558	2 973	35 603	168 342	158 899	326 069	8 526
	MILAM COUNTY, TX													
31-33	Manufacturing	—	9	5		1 559	65 332	1 251	2 523	44 456	129 771	322 847	456 000	14 359
331	Primary metal mfg	—	1	1	g	D	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing	—	1	1	g	D	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing	—	1	1	g	D	D	D	D	D	D	D	D	D
331312	Primary aluminum production	—	1	1	g	D	D	D	D	D	D	D	D	D
	MONTAGUE COUNTY, TX													
31-33	Manufacturing	1	21	6		505	8 919	374	691	5 373	22 193	22 329	44 109	676

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MONTGOMERY COUNTY, TX													
31-33	Manufacturing	1	285	74	6 706	219 132	4 837	9 492	134 781	722 502	819 988	1 540 850	58 258
325	Chemical mfg	1	22	8	f	D	D	D	D	D	D	D	21 097
326	Plastics & rubber products mfg	-	22	11	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	88	9	1 014	34 536	760	1 491	22 547	100 487	144 115	248 293	4 553
333	Machinery mfg	-	38	14	1 297	52 483	976	1 813	39 726	231 868	119 484	347 802	15 277
3331	Agriculture, construction, & mining machinery mfg.	-	11	5	f	D	D	D	D	D	D	D	D
33313	Mining & oil & gas field machinery mfg	-	10	5	852	39 019	668	1 317	31 102	198 879	103 406	299 364	13 947
333132	Oil & gas field machinery & equipment mfg	-	10	5	852	39 019	668	1 317	31 102	198 879	103 406	299 364	13 947
334	Computer & electronic product mfg	8	14	7	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	9	2	2	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	9	2	2	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	9	2	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	23	8	f	D	D	D	D	D	D	D	2 306
MOORE COUNTY, TX													
31-33	Manufacturing	-	19	4	2 865	72 546	2 411	5 416	56 068	534 026	2 084 046	2 663 212	11 502
311	Food mfg	-	3	1	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
311611	Animal (except poultry) slaughtering	-	1	1	g	D	D	D	D	D	D	D	D
MORRIS COUNTY, TX													
31-33	Manufacturing	-	16	9	2 224	95 668	1 601	3 753	65 549	247 444	421 754	688 008	D
331	Primary metal mfg	-	1	1	g	D	D	D	D	D	D	D	D
3311	Iron & steel mills & ferroalloy mfg	-	1	1	g	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	1	1	g	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	1	1	g	D	D	D	D	D	D	D	D
NACOGDOCHES COUNTY, TX													
31-33	Manufacturing	1	60	25	3 475	99 326	2 817	5 743	72 889	265 876	498 542	771 336	19 636
311	Food mfg	-	7	5	712	23 787	543	1 339	18 093	48 541	227 499	279 893	D
321	Wood product mfg	5	17	8	615	15 410	519	1 019	11 604	49 612	63 621	110 699	5 022
336	Transportation equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
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
NAVARRO COUNTY, TX													
31-33	Manufacturing	-	49	20	2 191	58 468	1 628	3 365	38 845	183 920	149 072	336 031	7 841
NEWTON COUNTY, TX													
31-33	Manufacturing	-	10	3	620	15 784	525	1 293	13 197	34 110	102 295	133 209	D
321	Wood product mfg	-	7	3	616	15 722	522	1 290	13 160	33 912	102 136	132 851	D
NOLAN COUNTY, TX													
31-33	Manufacturing	-	17	9	1 043	27 726	758	1 520	18 425	125 882	74 348	176 728	11 949

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
NUECES COUNTY, TX													
31-33	Manufacturing	5	223	61	8 925	373 770	5 951	11 856	226 118	2 452 515	7 391 668	9 988 536	D
311	Food mfg	-	20	7	g	D	D	D	D	D	D	D	2 740
3116	Meat product mfg	-	4	3	f	D	D	D	D	D	D	D	1 566
31161	Animal slaughtering & processing	-	4	3	f	D	D	D	D	D	D	D	1 566
311611	Animal (except poultry) slaughtering	-	1	1	f	D	D	D	D	D	D	D	D
324	Petroleum & coal products mfg	6	10	7	2 793	162 688	1 786	2 983	105 700	1 612 124	6 118 074	7 893 936	228 224
3241	Petroleum & coal products mfg	6	10	7	2 793	162 688	1 786	2 983	105 700	1 612 124	6 118 074	7 893 936	228 224
32411	Petroleum refineries	6	6	5	2 673	159 410	1 727	2 844	104 291	1 593 121	6 080 697	7 836 189	D
324110	Petroleum refineries ..	6	6	5	2 673	159 410	1 727	2 844	104 291	1 593 121	6 080 697	7 836 189	D
325	Chemical mfg	-	10	6	g	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	-	7	4	g	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	-	1	1	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	44	11	g	D	D	D	D	D	D	D	3 198
333	Machinery mfg	4	17	6	f	D	D	D	D	D	D	D	D
ORANGE COUNTY, TX													
31-33	Manufacturing	-	82	25	6 137	302 352	4 477	9 770	203 704	1 190 205	1 702 292	2 893 350	146 263
322	Paper mfg	1	2	2	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	1	2	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	12	10	h	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	6	6	3 012	175 059	1 988	4 337	111 680	888 947	1 068 596	1 948 561	D
32521	Resin & synthetic rubber mfg	-	6	6	3 012	175 059	1 988	4 337	111 680	888 947	1 068 596	1 948 561	D
325211	Plastics material & resin mfg	-	4	4	g	D	D	D	D	D	D	D	85 876
325212	Synthetic rubber mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	1	1	f	D	D	D	D	D	D	D	D
3311	Iron & steel mills & ferroalloy mfg	-	1	1	f	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	1	1	f	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	20	3	f	D	D	D	D	D	D	D	D
PALO PINTO COUNTY, TX													
31-33	Manufacturing	1	37	14	1 183	32 570	803	1 350	14 828	76 407	60 655	134 237	13 472
PANOLA COUNTY, TX													
31-33	Manufacturing	-	12	2	1 092	19 694	961	1 872	15 676	98 762	27 653	125 031	8 159
311	Food mfg	-	2	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	2	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	2	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	f	D	D	D	D	D	D	D	D
PARKER COUNTY, TX													
31-33	Manufacturing	2	101	29	2 538	63 465	1 940	3 615	39 760	164 016	147 600	310 761	10 118
326	Plastics & rubber products mfg	1	5	4	752	17 953	643	1 272	13 441	48 831	53 488	103 298	D
PARMER COUNTY, TX													
31-33	Manufacturing	-	6	3	g	D	D	D	D	D	D	D	D
311	Food mfg	-	5	3	g	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	2	2	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	-	1	1	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
POLK COUNTY, TX													
31-33	Manufacturing	-	25	8	1 693	54 627	1 498	3 198	44 987	101 876	195 416	295 775	8 264
321	Wood product mfg	-	11	6	1 573	51 589	1 395	3 068	43 310	95 543	189 505	283 448	7 674
3212	Veneer, plywood, & engineered wood product mfg	-	3	3	g	D	D	D	D	D	D	D	D
32121	Veneer, plywood, & engineered wood product mfg	-	3	3	g	D	D	D	D	D	D	D	D
321212	Softwood veneer & plywood mfg	-	2	2	g	D	D	D	D	D	D	D	D
POTTER COUNTY, TX													
31-33	Manufacturing	-	145	39	i	D	D	D	D	D	D	D	D
311	Food mfg	-	14	5	h	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	3	3	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	3	3	h	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	-	1	1	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	9	4	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg	-	3	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	3	1	f	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	21	5	h	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	2	2	h	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	2	2	h	D	D	D	D	D	D	D	D
332995	Other ordnance & accessories mfg	-	2	2	h	D	D	D	D	D	D	D	D
RANDALL COUNTY, TX													
31-33	Manufacturing	-	58	14	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	2	2	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	-	1	1	f	D	D	D	D	D	D	D	D
33141	Nonferrous metal (except aluminum) smelting & refining	-	1	1	f	D	D	D	D	D	D	D	D
331411	Primary smelting & refining of copper	-	1	1	f	D	D	D	D	D	D	D	D
RED RIVER COUNTY, TX													
31-33	Manufacturing	-	18	8	1 171	24 367	1 048	1 995	16 458	59 719	67 723	127 031	1 227
332	Fabricated metal product mfg	-	2	2	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	2	2	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	-	2	2	f	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	-	2	2	f	D	D	D	D	D	D	D	D
REEVES COUNTY, TX													
31-33	Manufacturing	-	4	1	f	D	D	D	D	D	D	D	D
311	Food mfg	-	2	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
ROCKWALL COUNTY, TX													
31-33	Manufacturing	3	56	11	927	24 003	686	1 244	14 767	59 089	56 212	114 781	5 345

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
RUNNELS COUNTY, TX													
31-33	Manufacturing	-	15	8	1 453	28 089	979	1 994	13 936	81 154	89 891	151 144	2 867
332	Fabricated metal product mfg	-	4	3	861	18 289	550	1 098	7 763	47 473	46 503	90 494	1 868
3323	Architectural & structural metals mfg	-	2	2	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	-	2	2	f	D	D	D	D	D	D	D	D
332323	Ornamental & architectural metal work mfg	-	1	1	f	D	D	D	D	D	D	D	D
RUSK COUNTY, TX													
31-33	Manufacturing	1	51	16	1 302	29 353	1 006	2 084	20 685	85 810	85 466	170 306	3 898
SAN PATRICIO COUNTY, TX													
31-33	Manufacturing	-	45	12	2 510	103 177	1 896	4 099	70 984	459 511	781 929	1 235 300	D
331	Primary metal mfg	-	1	1	f	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing ..	-	1	1	f	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing	-	1	1	f	D	D	D	D	D	D	D	D
331311	Alumina refining	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	9	3	f	D	D	D	D	D	D	D	307
3323	Architectural & structural metals mfg	-	5	3	f	D	D	D	D	D	D	D	240
33231	Plate work & fabricated structural product mfg ..	-	4	3	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal mfg	-	3	2	f	D	D	D	D	D	D	D	D
SHELBY COUNTY, TX													
31-33	Manufacturing	-	29	10	1 989	39 316	1 419	3 361	31 506	199 299	109 048	303 229	2 801
311	Food mfg	-	5	3	g	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	2	2	g	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	g	D	D	D	D	D	D	D	D
321	Wood product mfg	1	10	3	504	12 949	453	901	9 943	25 395	39 634	59 241	1 312
SMITH COUNTY, TX													
31-33	Manufacturing	-	213	66	10 969	381 088	8 450	17 061	262 592	1 112 957	1 180 233	2 299 149	49 581
311	Food mfg	2	12	6	645	17 940	441	987	9 411	69 437	85 924	155 432	2 741
326	Plastics & rubber products mfg	-	16	11	2 105	95 608	1 712	3 600	75 351	219 608	181 540	402 016	6 428
3262	Rubber product mfg	-	5	5	g	D	D	D	D	D	D	D	D
32621	Tire mfg	-	2	2	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	1	1	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	2	1	g	D	D	D	D	D	D	D	D
3315	Foundries	-	2	1	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries ..	-	1	1	g	D	D	D	D	D	D	D	D
331511	Iron foundries	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	43	14	873	22 726	596	1 008	12 426	61 660	49 338	110 626	2 799
333	Machinery mfg	-	18	9	4 008	141 266	3 009	6 172	91 504	448 588	406 034	859 012	17 140
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	4	4	h	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	4	4	h	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refig equip mfg	-	4	4	h	D	D	D	D	D	D	D	D
STEPHENS COUNTY, TX													
31-33	Manufacturing	-	18	5	562	12 985	479	924	8 785	57 797	36 335	94 252	627

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
TARRANT COUNTY, TX													
31-33	Manufacturing	1	2 009	673	95 970	3 583 248	60 428	123 854	1 701 453	9 393 761	9 157 886	18 621 591	616 866
311	Food mfg	-	91	34	5 095	141 614	3 618	7 550	79 710	654 788	1 083 934	1 736 977	D
3115	Dairy product mfg	-	4	4	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	-	4	4	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	7	4	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	7	4	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	-	4	3	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	1	45	5	g	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	1	40	3	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	1	9	3	f	D	D	D	D	D	D	D	1 066
3119	Other food mfg	-	12	8	g	D	D	D	D	D	D	D	D
31199	All other food mfg	-	4	3	817	15 172	618	1 294	8 262	39 857	38 765	78 930	2 256
311991	Perishable prepared food mfg	-	3	3	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	-	5	3	g	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	5	3	g	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	-	3	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
31212	Breweries	-	1	1	f	D	D	D	D	D	D	D	D
312120	Breweries	-	1	1	f	D	D	D	D	D	D	D	D
314	Textile product mills	1	39	10	f	D	D	D	D	D	D	D	D
315	Apparel mfg	2	78	12	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	8	62	9	f	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	9	50	7	f	D	D	D	D	D	D	D	D
315212	Women's, girls', & infants' cut & sew apparel contractors ..	9	50	7	f	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg	-	16	3	g	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	-	16	3	g	D	D	D	D	D	D	D	D
315999	Other apparel accessories & other apparel mfg	-	14	2	g	D	D	D	D	D	D	D	D
321	Wood product mfg	2	50	18	h	D	D	D	D	D	D	D	5 572
3219	Other wood product mfg ...	2	44	16	h	D	D	D	D	D	D	D	5 457
32191	Millwork	-	17	5	f	D	D	D	D	D	D	D	D
32199	All other wood product mfg	4	17	7	1 728	39 283	1 516	2 847	28 803	79 459	139 321	218 839	D
321991	Manufactured home (mobile home) mfg ..	4	5	5	g	D	D	D	D	D	D	D	D
322	Paper mfg	-	44	29	h	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	44	29	h	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	32	24	g	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	-	18	15	g	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	248	60	5 381	155 020	4 026	8 034	99 280	337 530	210 505	544 203	24 933
3231	Printing & related support activities	1	248	60	5 381	155 020	4 026	8 034	99 280	337 530	210 505	544 203	24 933
32311	Printing	1	221	52	h	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	1	110	25	g	D	D	D	D	D	D	D	D
323116	Manifold business form printing	-	13	9	612	19 289	460	829	11 872	72 212	31 036	100 866	1 863
32312	Support activities for printing	2	27	8	f	D	D	D	D	D	D	D	D
323121	Tradebinding & related work	1	8	5	f	D	D	D	D	D	D	D	D
325	Chemical mfg	2	110	37	5 223	259 054	2 391	4 677	68 284	952 809	546 369	1 507 394	46 205
3254	Pharmaceutical & medicine mfg	1	13	4	h	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	1	13	4	h	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	-	7	3	h	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	2	17	7	516	15 444	307	517	9 155	51 819	77 676	131 758	D
3259	Other chemical product mfg	2	47	18	g	D	D	D	D	D	D	D	9 605
32599	All other chemical product & preparation mfg	2	36	13	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)				
	TARRANT COUNTY, TX—Con.												
31-33	Manufacturing—Con.												
326	Plastics & rubber products mfg	2	114	64	5 903	160 045	4 104	8 356	92 817	382 973	411 094	793 609	44 161
3261	Plastics product mfg	2	91	57	i	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	2	59	34	3 661	83 299	2 616	5 200	55 591	202 700	182 830	385 060	27 109
326199	All other plastics product mfg	2	54	31	h	D	D	D	D	D	D	D	D
3262	Rubber product mfg	—	23	7	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	—	19	7	f	D	D	D	D	D	D	D	D
326299	All other rubber product mfg	—	12	6	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	3	76	30	1 997	54 016	1 506	3 203	37 146	148 113	172 846	319 437	12 919
3273	Cement & concrete product mfg	3	44	19	g	D	D	D	D	D	D	D	D
32732	Ready-mix concrete mfg	3	27	11	678	22 179	532	1 271	16 094	63 524	88 352	152 452	6 956
327320	Ready-mix concrete mfg	3	27	11	678	22 179	532	1 271	16 094	63 524	88 352	152 452	6 956
331	Primary metal mfg	—	23	12	1 150	34 068	940	1 892	24 853	60 838	53 394	114 776	4 347
3315	Foundries	—	17	10	989	29 612	806	1 567	21 524	49 606	28 977	78 380	3 543
33151	Ferrous metal foundries	—	5	3	689	21 659	567	1 125	16 152	33 019	20 470	53 034	D
331513	Steel foundries (except investment)	—	2	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	399	128	8 665	263 920	6 606	13 303	166 107	583 966	626 896	1 213 653	33 394
3321	Forging & stamping	—	18	16	f	D	D	D	D	D	D	D	D
33211	Forging & stamping	—	18	16	f	D	D	D	D	D	D	D	D
332116	Metal stamping	1	13	12	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	—	91	33	2 277	67 406	1 722	3 686	42 044	178 807	174 737	352 443	D
33231	Plate work & fabricated structural product mfg	1	37	14	903	25 388	680	1 521	16 666	58 158	70 394	128 305	D
33232	Ornamental & architectural metal products mfg	—	54	19	1 374	42 018	1 042	2 165	25 378	120 649	104 343	224 138	5 824
332322	Sheet metal work mfg	—	31	14	g	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	162	32	g	D	D	D	D	D	D	D	D
33271	Machine shops	1	137	20	1 695	53 856	1 297	2 362	33 851	110 694	90 175	196 438	6 117
332710	Machine shops	1	137	20	1 695	53 856	1 297	2 362	33 851	110 694	90 175	196 438	6 117
33272	Turned product & screw, nut, & bolt mfg	4	25	12	f	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, & allied activities	—	41	12	f	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, & allied activities	—	41	12	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	—	49	20	1 403	45 217	1 026	2 127	24 916	89 415	116 464	200 617	4 971
33291	Metal valve mfg	1	9	7	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	—	40	13	f	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg	—	25	7	f	D	D	D	D	D	D	D	D
333	Machinery mfg	—	183	74	8 620	282 416	5 489	11 099	136 529	712 450	707 370	1 427 013	40 707
3331	Agriculture, construction, & mining machinery mfg	—	23	10	g	D	D	D	D	D	D	D	10 704
33313	Mining & oil & gas field machinery mfg	—	15	7	1 480	56 432	1 210	2 124	32 689	128 962	232 284	355 174	D
333132	Oil & gas field machinery & equipment mfg	—	13	7	g	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg	2	35	10	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	1	26	8	f	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg	—	18	7	g	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg	—	18	7	g	D	D	D	D	D	D	D	D
333313	Office machinery mfg	—	2	1	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)				
	TARRANT COUNTY, TX —Con.												
31-33	Manufacturing— Con.												
333	Machinery mfg—Con.												
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	1	28	13	1 700	50 689	1 208	2 482	28 016	84 853	142 980	228 123	8 154
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	1	28	13	1 700	50 689	1 208	2 482	28 016	84 853	142 980	228 123	8 154
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	1	19	12	1 428	42 007	1 045	2 075	24 255	66 935	132 001	199 250	D
3336	Engine, turbine, & power transmission equipment mfg	—	6	5	926	25 722	746	1 821	15 902	50 196	44 227	95 215	2 977
33361	Engine, turbine, & power transmission equipment mfg	—	6	5	926	25 722	746	1 821	15 902	50 196	44 227	95 215	2 977
333613	Mechanical power transmission equipment mfg	—	3	3	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	—	41	21	g	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	—	21	11	f	D	D	D	D	D	D	D	D
333922	Conveyor & conveying equipment mfg	—	10	4	500	12 972	353	808	7 187	14 912	39 645	52 088	D
33399	All other general-purpose machinery mfg	1	17	8	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	2	81	29	i	D	D	D	D	D	D	D	82 477
3341	Computer & peripheral equipment mfg	—	10	4	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	—	10	4	f	D	D	D	D	D	D	D	D
334111	Electronic computer mfg	—	2	2	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	4	10	5	h	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
33422	Radio & TV broadcasting & wireless communications equipment mfg	5	4	3	h	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	5	4	3	h	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	29	11	h	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	—	29	11	h	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	—	3	1	g	D	D	D	D	D	D	D	D
334417	Electronic connector mfg	—	1	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	1	29	9	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	1	29	9	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	—	9	5	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	1	27	9	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	1	11	3	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	1	11	3	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	1	12	5	1 128	26 382	701	1 388	12 829	52 927	36 695	86 339	D
33592	Communication & energy wire & cable mfg	—	1	1	f	D	D	D	D	D	D	D	D
335929	Other communication & energy wire 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)				
TARRANT COUNTY, TX —Con.													
31-33	Manufacturing—Con.												
336	Transportation equipment mfg	-	120	53	k	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	-	4	1	g	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	4	1	g	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg	-	2	1	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	2	23	11	g	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	2	23	11	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	1	49	22	h	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	1	15	8	g	D	D	D	D	D	D	D	4 445
336391	Motor vehicle air-conditioning mfg	-	7	5	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	-	32	14	j	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	32	14	j	D	D	D	D	D	D	D	D
336411	Aircraft mfg	-	8	3	j	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg	8	6	5	f	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	-	17	6	f	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	-	6	5	g	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	-	6	5	g	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	-	6	5	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	122	38	h	D	D	D	D	D	D	D	6 212
3371	Household & institutional furniture & kitchen cabinet mfg	2	75	17	g	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet & counter top mfg	3	51	9	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet & counter top mfg ...	3	51	9	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	2	24	8	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	2	37	16	g	D	D	D	D	D	D	D	3 598
33721	Office furniture (including fixtures) mfg	2	37	16	g	D	D	D	D	D	D	D	3 598
337215	Showcase, partition, shelving, & locker mfg	4	15	7	f	D	D	D	D	D	D	D	2 164
339	Miscellaneous mfg	3	172	27	2 629	72 375	1 883	3 625	39 145	184 002	167 763	356 986	8 762
3391	Medical equipment & supplies mfg	5	59	9	857	29 620	587	1 134	14 994	66 784	36 975	107 007	D
33911	Medical equipment & supplies mfg	5	59	9	857	29 620	587	1 134	14 994	66 784	36 975	107 007	D
3399	Other miscellaneous mfg ..	2	113	18	1 772	42 755	1 296	2 491	24 151	117 218	130 788	249 979	D
33999	All other miscellaneous mfg	1	34	5	f	D	D	D	D	D	D	D	D
TAYLOR COUNTY, TX													
31-33	Manufacturing	-	118	28	3 062	79 897	2 121	3 922	44 560	531 226	472 693	1 010 679	21 553
332	Fabricated metal product mfg	-	23	5	789	20 967	636	1 317	15 290	67 932	97 449	160 976	4 888
TITUS COUNTY, TX													
31-33	Manufacturing	-	42	19	4 792	102 362	4 411	10 050	89 818	188 752	658 638	845 315	6 326
311	Food mfg	-	8	7	h	D	D	D	D	D	D	D	3 402
3116	Meat product mfg	-	4	4	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	4	4	h	D	D	D	D	D	D	D	D
311615	Poultry processing	-	3	3	h	D	D	D	D	D	D	D	D

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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)
TOM GREEN COUNTY, TX													
31-33	Manufacturing	2	100	28	4 452	105 090	3 579	7 162	74 707	367 257	463 431	827 641	10 494
311	Food mfg.....	6	17	7	836	16 326	704	1 518	11 796	46 021	164 035	212 576	3 371
3116	Meat product mfg.....	6	7	4	695	13 321	614	1 075	10 272	34 919	149 022	186 578	1 797
31161	Animal slaughtering & processing.....	6	7	4	695	13 321	614	1 075	10 272	34 919	149 022	186 578	1 797
311611	Animal (except poultry) slaughtering.....	7	5	3	f	D	D	D	D	D	D	D	D
315	Apparel mfg.....	—	6	5	638	12 189	596	1 142	11 299	40 695	27 754	68 317	591
3152	Cut & sew apparel mfg....	—	3	3	f	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg.....	—	2	2	f	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	—	13	3	536	13 932	395	840	11 896	24 990	113 550	137 131	795
339	Miscellaneous mfg.....	—	14	2	g	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg.....	—	5	1	g	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg.....	—	5	1	g	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
TRAVIS COUNTY, TX													
31-33	Manufacturing	—	774	203	52 353	1 986 211	26 364	56 581	764 679	11 400 690	3 290 601	14 692 900	1 202 129
311	Food mfg.....	7	55	13	g	D	D	D	D	D	D	D	D
321	Wood product mfg.....	2	25	8	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg...	1	20	5	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	5	153	32	h	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	5	153	32	h	D	D	D	D	D	D	D	D
32311	Printing.....	6	132	29	h	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing..	5	60	17	g	D	D	D	D	D	D	D	D
323117	Book printing.....	9	3	3	f	D	D	D	D	D	D	D	D
325	Chemical mfg.....	2	22	8	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg.....	—	8	5	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg.....	—	8	5	g	D	D	D	D	D	D	D	D
325411	Medicinal & botanical mfg.....	—	2	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	1	25	10	561	14 565	340	716	8 285	37 562	37 280	74 422	D
3261	Plastics product mfg.....	1	23	10	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	1	44	11	853	26 098	686	1 516	19 682	82 811	73 990	156 929	3 980
332	Fabricated metal product mfg.....	3	87	14	912	27 696	716	1 376	18 124	65 620	38 634	103 739	3 714
333	Machinery mfg.....	—	41	12	h	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg..	—	17	7	h	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg.....	—	17	7	h	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg.....	—	7	3	h	D	D	D	D	D	D	D	D
333298	All other industrial machinery mfg.....	—	8	4	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	—	101	54	k	D	D	D	D	D	D	D	1 059 135
3341	Computer & peripheral equipment mfg.....	1	19	9	g	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg.....	1	19	9	g	D	D	D	D	D	D	D	D
334111	Electronic computer mfg.....	—	8	3	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg.....	—	13	5	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	TRAVIS COUNTY, TX—Con.													
	Manufacturing—Con.													
334	Computer & electronic product mfg—Con.													
3344	Semiconductor & other electronic component mfg	-	32	23	k	D	D	D	D	D	D	D	1 021 682	
33441	Semiconductor & other electronic component mfg	-	32	23	k	D	D	D	D	D	D	D	1 021 682	
334413	Semiconductor & related device mfg ...	-	16	12	j	D	D	D	D	D	D	D	921 904	
334418	Printed circuit assembly (electronic assembly) mfg	-	8	7	j	D	D	D	D	D	D	D	D	
3345	Navigational, measuring, medical, & control instruments mfg	-	26	15	g	D	D	D	D	D	D	D	D	
33451	Navigational, measuring, medical, & control instruments mfg	-	26	15	g	D	D	D	D	D	D	D	D	
3346	Mfg & reproducing magnetic & optical media .	-	7	1	h	D	D	D	D	D	D	D	D	
33461	Mfg & reproducing magnetic & optical media	-	7	1	h	D	D	D	D	D	D	D	D	
334611	Software reproducing .	-	3	1	h	D	D	D	D	D	D	D	D	
335	Electrical equipment, appliance, & component mfg	1	27	13	g	D	D	D	D	D	D	D	7 678	
3351	Electric lighting equipment mfg	-	8	5	f	D	D	D	D	D	D	D	D	
33512	Lighting fixture mfg	-	7	4	f	D	D	D	D	D	D	D	D	
335129	Other lighting equipment mfg	-	4	3	f	D	D	D	D	D	D	D	D	
3359	Other electrical equipment & component mfg	3	13	7	f	D	D	D	D	D	D	D	D	
336	Transportation equipment mfg	-	14	2	f	D	D	D	D	D	D	D	D	
337	Furniture & related product mfg	2	38	8		1 082	21 292	856	1 421	14 741	46 270	47 985	94 373	3 031
3371	Household & institutional furniture & kitchen cabinet mfg	2	27	4	f	D	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	1	17	2	f	D	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	85	10	g	D	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	-	37	5	g	D	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	37	5	g	D	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg	-	6	3	f	D	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	3	48	5	g	D	D	D	D	D	D	D	D	D
33991	Jewelry & silverware mfg	-	6	1	g	D	D	D	D	D	D	D	D	D
339911	Jewelry (except costume) mfg	-	5	1	g	D	D	D	D	D	D	D	D	D
	TYLER COUNTY, TX													
31-33	Manufacturing	1	13	3		565	8 894	372	715	6 384	18 815	23 029	42 122	1 144
	UPSHUR COUNTY, TX													
31-33	Manufacturing	1	31	7		603	13 194	383	594	7 194	25 312	54 102	81 124	2 542
	UVALDE COUNTY, TX													
31-33	Manufacturing	5	17	4		710	9 410	611	1 049	6 728	29 674	19 850	50 735	1 691
	VAL VERDE COUNTY, TX													
31-33	Manufacturing	-	24	7		522	10 181	314	347	3 800	37 339	88 211	125 414	2 631
	VAN ZANDT COUNTY, TX													
31-33	Manufacturing	2	38	5		622	16 184	490	918	11 578	38 412	29 577	68 178	4 359

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
VICTORIA COUNTY, TX													
31-33	Manufacturing	-	71	17	3 064	119 483	2 265	4 815	82 409	592 547	657 109	1 245 290	97 903
325	Chemical mfg	-	5	2	g	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	-	2	1	g	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	-	1	1	g	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	-	1	1	g	D	D	D	D	D	D	D	D
WALKER COUNTY, TX													
31-33	Manufacturing	2	38	11	677	14 732	557	1 143	10 065	40 513	46 505	90 759	2 244
WALLER COUNTY, TX													
31-33	Manufacturing	1	43	16	1 283	43 323	836	1 538	22 614	127 899	118 058	245 598	6 214
332	Fabricated metal product mfg	-	14	6	580	21 537	345	644	11 347	57 057	41 438	98 149	D
WASHINGTON COUNTY, TX													
31-33	Manufacturing	-	41	24	2 982	81 942	2 277	4 971	56 243	280 574	256 285	529 233	19 408
311	Food mfg	-	7	3	f	D	D	D	D	D	D	D	1 926
3115	Dairy product mfg	-	1	1	f	D	D	D	D	D	D	D	D
31152	Ice cream & frozen dessert mfg	-	1	1	f	D	D	D	D	D	D	D	D
311520	Ice cream & frozen dessert mfg	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	8	5	785	21 408	586	1 244	15 187	56 126	41 984	96 669	5 816
WEBB COUNTY, TX													
31-33	Manufacturing	1	87	15	1 402	28 081	969	1 530	15 533	136 779	120 963	258 590	18 501
WHARTON COUNTY, TX													
31-33	Manufacturing	-	46	15	2 152	51 894	1 874	3 956	39 182	160 238	211 747	372 345	7 431
326	Plastics & rubber products mfg	-	5	5	722	18 825	635	1 347	13 512	101 927	102 101	202 553	2 423
3261	Plastics product mfg	-	5	5	722	18 825	635	1 347	13 512	101 927	102 101	202 553	2 423
WICHITA COUNTY, TX													
31-33	Manufacturing	-	153	43	7 927	254 890	6 263	12 579	183 336	769 755	665 468	1 435 865	D
326	Plastics & rubber products mfg	-	5	4	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	4	3	g	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
326111	Unsupported plastics bag mfg	-	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	8	5	1 570	68 528	1 171	2 686	50 472	226 680	129 931	361 024	D
3272	Glass & glass product mfg ..	-	2	2	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	2	2	g	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	4	2	f	D	D	D	D	D	D	D	D
3315	Foundries	-	4	2	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries ..	-	3	2	f	D	D	D	D	D	D	D	D
331512	Steel investment foundries	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	37	14	1 466	40 287	1 183	2 532	28 574	91 999	88 593	179 294	3 645
333	Machinery mfg	2	23	6	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	4	2	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)				
WILBARGER COUNTY, TX													
31-33	Manufacturing	-	9	3	681	19 792	552	1 496	14 881	99 949	142 695	236 709	1 150
311	Food mfg	-	3	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	2	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	2	1	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	-	2	1	f	D	D	D	D	D	D	D	D
WILLIAMSON COUNTY, TX													
31-33	Manufacturing	-	240	78	11 727	418 781	7 137	12 947	164 578	3 673 764	5 964 929	9 637 436	88 878
326	Plastics & rubber products mfg	-	13	9	803	23 387	653	1 353	12 017	60 052	28 070	87 476	4 878
3261	Plastics product mfg	-	13	9	803	23 387	653	1 353	12 017	60 052	28 070	87 476	4 878
32619	Other plastics product mfg	-	11	7	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	25	9	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	47	15	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	16	6	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	38	22	i	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg	-	9	6	h	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	-	9	6	h	D	D	D	D	D	D	D	D
334111	Electronic computer mfg	-	3	2	h	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	-	6	4	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	1	4	4	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
3344	Semiconductor & other electronic component mfg	3	14	9	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	3	14	9	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	11	3	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	11	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	2	20	5	g	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	-	8	2	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	8	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
3399	Other miscellaneous mfg ..	9	12	3	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	9	7	2	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg	9	6	2	f	D	D	D	D	D	D	D	D
WISE COUNTY, TX													
31-33	Manufacturing	2	54	16	1 340	37 792	1 004	1 933	25 431	106 992	76 943	180 316	8 163
WOOD COUNTY, TX													
31-33	Manufacturing	1	45	7	649	13 474	562	1 000	9 860	37 254	106 107	143 388	1 660
YOUNG COUNTY, TX													
31-33	Manufacturing	-	28	10	1 043	28 332	787	1 760	14 917	142 390	104 810	248 397	8 369

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

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)				
ABILENE, TX *													
31-33	Manufacturing	-	106	25	2 798	73 951	1 900	3 567	40 174	519 341	452 194	977 493	20 884
332	Fabricated metal product mfg	-	21	5	f	D	D	D	D	D	D	D	D
ADDISON, TX													
31-33	Manufacturing	6	43	12	612	21 207	384	753	10 991	48 687	36 201	85 050	3 395
ALLEN, TX													
31-33	Manufacturing	2	16	5	509	19 094	371	774	11 527	57 494	25 592	81 346	D
ALVIN, TX													
31-33	Manufacturing	-	23	7	g	D	D	D	D	D	D	D	25 446
325	Chemical mfg	-	4	3	f	D	D	D	D	D	D	D	16 085
3251	Basic chemical mfg	-	2	2	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	-	1	1	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	-	1	1	f	D	D	D	D	D	D	D	D
AMARILLO, TX *													
31-33	Manufacturing	-	176	44	i	D	D	D	D	D	D	D	D
311	Food mfg	-	18	6	h	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	2	2	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	2	2	h	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	-	1	1	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	12	6	951	32 629	829	1 644	27 638	167 944	54 652	228 070	5 585
3272	Glass & glass product mfg .	-	3	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	3	1	f	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	22	5	h	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	2	2	h	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	2	2	h	D	D	D	D	D	D	D	D
332995	Other ordnance & accessories mfg	-	2	2	h	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)				
	ARLINGTON, TX												
31-33	Manufacturing	-	323	102	13 408	481 586	9 335	19 166	294 924	1 374 814	1 515 204	2 909 808	171 651
323	Printing & related support activities.....	-	47	14	874	23 009	613	1 132	14 311	71 700	38 725	108 726	3 496
3231	Printing & related support activities.....	-	47	14	874	23 009	613	1 132	14 311	71 700	38 725	108 726	3 496
32311	Printing	-	43	14	837	21 847	582	1 086	13 477	69 641	37 886	105 831	D
326	Plastics & rubber products mfg.....	-	17	13	2 024	58 066	1 152	2 169	25 511	153 194	130 828	281 160	21 061
3261	Plastics product mfg.....	-	12	10	1 591	33 793	1 052	1 964	22 206	110 739	120 048	230 268	15 681
32619	Other plastics product mfg.....	-	8	6	1 352	28 234	877	1 610	18 959	89 640	75 869	165 391	13 950
326199	All other plastics product mfg.....	-	8	6	1 352	28 234	877	1 610	18 959	89 640	75 869	165 391	13 950
332	Fabricated metal product mfg.....	2	61	22	1 417	43 796	1 042	2 159	26 603	103 195	88 334	191 878	4 010
333	Machinery mfg.....	-	19	10	2 260	82 028	919	2 130	22 852	270 308	176 014	465 035	11 768
3333	Commercial & service industry machinery mfg ..	-	3	3	g	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg.....	-	3	3	g	D	D	D	D	D	D	D	D
333313	Office machinery mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	-	11	3	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	-	5	2	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	-	5	2	g	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg...	-	2	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	17	6	h	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
336112	Light truck & utility vehicle mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
	ATHENS, TX												
31-33	Manufacturing	-	27	8	1 504	29 687	1 210	2 314	20 306	109 677	67 191	176 809	2 587
339	Miscellaneous mfg.....	-	5	2	f	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg.....	-	3	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
	AUSTIN, TX *												
31-33	Manufacturing	-	596	165	46 780	1 892 118	21 199	46 075	677 120	10 541 882	2 598 696	13 235 101	1 139 000
311	Food mfg.....	7	50	12	g	D	D	D	D	D	D	D	D
321	Wood product mfg.....	1	12	5	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	5	138	27	2 469	70 242	1 749	3 032	42 127	143 504	96 120	240 666	15 152
3231	Printing & related support activities.....	5	138	27	2 469	70 242	1 749	3 032	42 127	143 504	96 120	240 666	15 152
32311	Printing	6	119	25	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	5	55	14	1 121	34 557	841	1 483	21 082	74 948	37 626	112 311	8 790
323117	Book printing.....	9	3	3	f	D	D	D	D	D	D	D	D
325	Chemical mfg.....	2	19	6	1 725	71 112	1 255	2 762	50 112	167 471	108 701	275 567	17 451
3254	Pharmaceutical & medicine mfg.....	-	6	3	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg.....	-	6	3	g	D	D	D	D	D	D	D	D
325411	Medicinal & botanical mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	1	33	9	692	21 191	566	1 305	16 629	65 839	54 352	120 434	D
332	Fabricated metal product mfg.....	2	46	9	533	15 817	413	767	10 425	43 291	22 790	65 892	2 194

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)				
	AUSTIN, TX *—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg	-	26	6	1 167	47 335	571	1 113	16 126	95 364	122 012	230 471	10 476
3332	Industrial machinery mfg ..	-	10	4	1 014	42 679	465	955	13 373	86 523	114 974	214 706	9 638
33329	Other industrial machinery mfg	-	10	4	1 014	42 679	465	955	13 373	86 523	114 974	214 706	9 638
333298	All other industrial machinery mfg	-	5	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	87	48	k	D	D	D	D	D	D	D	1 057 026
3341	Computer & peripheral equipment mfg	-	18	10	g	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	-	18	10	g	D	D	D	D	D	D	D	D
334111	Electronic computer mfg	-	7	3	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	31	23	26 340	1 228 381	9 721	23 017	330 149	8 889 293	1 289 638	10 258 177	1 022 329
33441	Semiconductor & other electronic component mfg	-	31	23	26 340	1 228 381	9 721	23 017	330 149	8 889 293	1 289 638	10 258 177	1 022 329
334413	Semiconductor & related device mfg ...	-	15	12	15 479	634 533	6 121	17 193	195 966	6 747 089	555 472	7 224 336	921 808
334418	Printed circuit assembly (electronic assembly) mfg	-	8	7	j	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	19	9	635	24 639	293	661	8 791	84 375	50 724	136 444	D
33451	Navigational, measuring, medical, & control instruments mfg	-	19	9	635	24 639	293	661	8 791	84 375	50 724	136 444	D
3346	Mfg & reproducing magnetic & optical media .	-	6	1	h	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media	-	6	1	h	D	D	D	D	D	D	D	D
334611	Software reproducing .	-	3	1	h	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	20	9	1 143	45 507	685	1 367	16 803	111 916	79 496	191 614	3 553
3351	Electric lighting equipment mfg	-	7	4	f	D	D	D	D	D	D	D	2 269
33512	Lighting fixture mfg	-	6	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	9	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	27	6	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	1	17	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	68	10	h	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	-	31	6	g	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	31	6	g	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg	-	7	4	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	2	37	4	1 334	33 063	874	1 816	21 871	66 879	61 456	127 157	2 516
33991	Jewelry & silverware mfg	-	6	1	g	D	D	D	D	D	D	D	D
339911	Jewelry (except costume) mfg	-	5	1	g	D	D	D	D	D	D	D	D
	BALCH SPRINGS, TX												
31-33	Manufacturing	5	25	8	527	10 309	423	780	6 899	19 222	16 498	35 699	1 310
	BALLINGER, TX												
31-33	Manufacturing	-	8	4	679	13 616	350	701	5 214	35 193	53 045	83 618	1 531

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)				
	BAYTOWN, TX *												
31-33	Manufacturing	-	44	20	h	D	D	D	D	D	D	D	D
324	Petroleum & coal products mfg	-	3	2	g	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	-	3	2	g	D	D	D	D	D	D	D	D
32411	Petroleum refineries	-	1	1	g	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	-	1	1	g	D	D	D	D	D	D	D	D
325	Chemical mfg	-	13	8	1 428	90 236	762	2 040	42 539	651 448	1 155 351	1 754 615	D
3251	Basic chemical mfg	-	9	7	g	D	D	D	D	D	D	D	D
32511	Petrochemical mfg	-	1	1	g	D	D	D	D	D	D	D	D
325110	Petrochemical mfg	-	1	1	g	D	D	D	D	D	D	D	D
	BEAUMONT, TX												
31-33	Manufacturing	-	131	40	5 882	250 922	4 083	8 687	158 116	1 210 461	3 808 903	5 041 494	151 592
324	Petroleum & coal products mfg	-	2	2	g	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	-	2	2	g	D	D	D	D	D	D	D	D
32411	Petroleum refineries	-	1	1	g	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	-	1	1	g	D	D	D	D	D	D	D	D
325	Chemical mfg	-	10	8	1 391	75 801	901	1 903	45 057	537 004	590 527	1 126 962	75 050
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	2	2	f	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg	-	2	2	f	D	D	D	D	D	D	D	D
325212	Synthetic rubber mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	31	11	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	2	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	-	1	1	f	D	D	D	D	D	D	D	D
	BEDFORD, TX												
31-33	Manufacturing	-	24	3	f	D	D	D	D	D	D	D	9 294
334	Computer & electronic product mfg	-	1	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
33421	Telephone apparatus mfg	-	1	1	f	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg	-	1	1	f	D	D	D	D	D	D	D	D
	BELTON, TX												
31-33	Manufacturing	1	26	9	1 054	25 246	779	1 399	14 819	66 302	60 588	125 413	15 770
	BIG SPRING, TX												
31-33	Manufacturing	-	22	10	f	D	D	D	D	D	D	D	2 086
	BISHOP, TX												
31-33	Manufacturing	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	1	1	f	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	-	1	1	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	-	1	1	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	-	1	1	f	D	D	D	D	D	D	D	D
	BONHAM, TX												
31-33	Manufacturing	-	15	7	1 056	26 303	928	1 763	19 134	100 972	123 495	224 456	5 008
	BRECKENRIDGE, TX												
31-33	Manufacturing	-	17	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)				
BRENHAM, TX													
31-33	Manufacturing	—	36	21	2 876	79 740	2 196	4 811	55 055	269 778	251 842	513 978	18 727
311	Food mfg	—	6	2	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg	—	1	1	f	D	D	D	D	D	D	D	D
31152	Ice cream & frozen dessert mfg	—	1	1	f	D	D	D	D	D	D	D	D
311520	Ice cream & frozen dessert mfg	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	6	4	f	D	D	D	D	D	D	D	D
BROWNSVILLE, TX													
31-33	Manufacturing	—	110	29	6 511	123 612	5 235	8 470	80 527	443 267	515 376	963 280	19 805
311	Food mfg	—	20	2	f	D	D	D	D	D	D	D	D
3117	Seafood product preparation & packaging..	—	4	2	f	D	D	D	D	D	D	D	D
31171	Seafood product preparation & packaging	—	4	2	f	D	D	D	D	D	D	D	D
311712	Fresh & frozen seafood processing ..	—	4	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg	—	10	6	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	—	9	6	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	—	3	3	g	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	—	3	3	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	—	1	1	f	D	D	D	D	D	D	D	D
315234	Women's & girls' cut & sew suit, coat, skirt mfg	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	16	5	g	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	—	2	2	f	D	D	D	D	D	D	D	D
33231	Plate work & fabricated structural product mfg ..	—	1	1	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal mfg	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	12	5	1 298	36 446	808	1 470	16 775	148 237	174 968	323 962	8 408
3363	Motor vehicle parts mfg . . .	—	5	3	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
BROWNWOOD, TX													
31-33	Manufacturing	—	28	10	2 745	91 092	2 185	4 845	68 620	476 667	297 880	781 042	28 392
326	Plastics & rubber products mfg	—	2	2	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	—	2	2	f	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg ..	—	1	1	f	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	—	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	5	2	g	D	D	D	D	D	D	D	752
3271	Clay product & refractory mfg	—	1	1	f	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, & plumbing fixture mfg . . .	—	1	1	f	D	D	D	D	D	D	D	D
327111	Vitreous china plumbing fixture & bathroom accessories mfg	—	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	1	1	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	—	1	1	f	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg	—	1	1	f	D	D	D	D	D	D	D	D
335929	Other communication & energy wire 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)				
BRYAN, TX													
31-33	Manufacturing	-	73	18	2 527	63 360	1 863	3 997	37 914	134 588	174 671	309 332	D
332	Fabricated metal product mfg	-	15	2	g	D	D	D	D	D	D	D	1 920
3323	Architectural & structural metals mfg	-	6	1	g	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	-	5	1	g	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	-	2	1	g	D	D	D	D	D	D	D	D
BURLESON, TX *													
31-33	Manufacturing	1	44	10	1 091	35 118	824	1 707	20 808	79 528	93 513	172 262	6 421
321	Wood product mfg	-	5	5	618	18 974	478	1 017	10 833	45 008	58 387	103 184	D
3219	Other wood product mfg ...	-	5	5	618	18 974	478	1 017	10 833	45 008	58 387	103 184	D
32199	All other wood product mfg	-	3	3	f	D	D	D	D	D	D	D	D
321991	Manufactured home (mobile home) mfg ..	-	3	3	f	D	D	D	D	D	D	D	D
CARROLLTON, TX *													
31-33	Manufacturing	1	227	106	13 714	532 527	9 569	21 326	256 549	1 362 395	1 151 241	2 501 999	D
323	Printing & related support activities.....	2	43	12	823	28 445	623	1 212	18 170	64 099	33 364	98 199	2 997
3231	Printing & related support activities.....	2	43	12	823	28 445	623	1 212	18 170	64 099	33 364	98 199	2 997
32311	Printing	2	39	11	788	27 337	594	1 143	17 488	62 409	33 009	96 152	2 925
323110	Commercial lithographic printing ..	1	17	7	583	19 807	439	865	12 666	33 656	20 486	54 307	2 434
325	Chemical mfg	-	10	7	651	21 826	431	863	10 817	175 969	115 178	293 408	5 851
326	Plastics & rubber products mfg	-	8	5	882	39 507	678	1 521	20 052	63 217	115 218	176 692	3 218
3261	Plastics product mfg	-	7	4	f	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
326111	Unsupported plastics bag mfg	-	2	2	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	4	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	29	14	1 831	45 900	1 573	3 511	30 649	123 575	98 271	220 634	2 192
3323	Architectural & structural metals mfg	-	10	8	1 504	34 203	1 306	2 976	23 481	93 802	72 434	165 880	1 319
33232	Ornamental & architectural metal products mfg	-	9	7	g	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	-	3	3	975	23 028	838	1 848	15 169	56 061	48 702	104 530	832
333	Machinery mfg	1	24	13	1 787	80 461	986	1 931	32 987	178 795	137 105	315 211	7 523
3331	Agriculture, construction, & mining machinery mfg	2	3	3	f	D	D	D	D	D	D	D	D
33313	Mining & oil & gas field machinery mfg	2	3	3	f	D	D	D	D	D	D	D	D
333132	Oil & gas field machinery & equipment mfg	2	3	3	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	7	5	506	26 438	202	391	5 852	46 636	26 827	74 922	3 046
334	Computer & electronic product mfg	1	29	18	2 932	179 058	1 701	4 206	63 655	427 612	144 255	565 883	72 613
3344	Semiconductor & other electronic component mfg	1	9	7	1 877	130 774	1 193	3 007	44 227	382 588	80 146	456 973	66 583
33441	Semiconductor & other electronic component mfg	1	9	7	1 877	130 774	1 193	3 007	44 227	382 588	80 146	456 973	66 583
334413	Semiconductor & related device mfg ...	-	3	3	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	9	8	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	9	8	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)
CARROLLTON, TX *—Con.													
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	1	9	5	949	24 704	659	1 496	11 604	28 889	49 855	76 592	3 325
3359	Other electrical equipment & component mfg	2	5	3	f	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg	—	1	1	f	D	D	D	D	D	D	D	D
335921	Fiber optic cable mfg ..	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	3	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	—	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	8	5	741	20 152	545	1 073	11 718	61 441	59 855	121 966	1 446
3371	Household & institutional furniture & kitchen cabinet mfg	3	6	3	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	3	3	3	f	D	D	D	D	D	D	D	D
CEDAR PARK, TX *													
31-33	Manufacturing	—	12	5	f	D	D	D	D	D	D	D	D
CENTER, TX													
31-33	Manufacturing	—	12	6	1 737	34 595	1 206	2 985	27 883	191 331	51 908	238 059	2 261
311	Food mfg	—	2	2	g	D	D	D	D	D	D	D	D
3116	Meat product mfg	—	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	—	2	2	g	D	D	D	D	D	D	D	D
311615	Poultry processing	—	1	1	g	D	D	D	D	D	D	D	D
CLARKSVILLE, TX													
31-33	Manufacturing	—	14	7	g	D	D	D	D	D	D	D	1 159
332	Fabricated metal product mfg	—	2	2	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	—	2	2	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	—	2	2	f	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	—	2	2	f	D	D	D	D	D	D	D	D
CLEBURNE, TX													
31-33	Manufacturing	1	35	13	2 429	59 398	1 869	3 291	40 859	288 797	144 858	426 843	27 669
315	Apparel mfg	2	3	2	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	2	3	2	f	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	2	2	2	f	D	D	D	D	D	D	D	D
COMMERCE, TX													
31-33	Manufacturing	—	8	4	629	15 919	527	1 115	11 973	65 026	48 511	115 147	D
CONROE, TX													
31-33	Manufacturing	1	91	33	2 544	86 411	1 772	3 486	49 626	321 502	483 942	806 789	29 233
CORINTH, TX													
31-33	Manufacturing	—	4	2	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	1	1	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	—	1	1	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	—	1	1	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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
	CORPUS CHRISTI, TX *													
31-33	Manufacturing	6	205	55	i	D	D	D	D	D	D	D	234 948	
311	Food mfg.....	-	18	7	g	D	D	D	D	D	D	D	D	
3116	Meat product mfg.....	-	4	3	f	D	D	D	D	D	D	D	1 566	
31161	Animal slaughtering & processing.....	-	4	3	f	D	D	D	D	D	D	D	1 566	
311611	Animal (except poultry) slaughtering.....	-	1	1	f	D	D	D	D	D	D	D	D	
324	Petroleum & coal products mfg.....	7	8	5	g	D	D	D	D	D	D	D	D	
3241	Petroleum & coal products mfg.....	7	8	5	g	D	D	D	D	D	D	D	D	
32411	Petroleum refineries.....	7	5	4	g	D	D	D	D	D	D	D	D	
324110	Petroleum refineries..	7	5	4	g	D	D	D	D	D	D	D	D	
325	Chemical mfg.....	-	9	5	f	D	D	D	D	D	D	D	17 085	
3251	Basic chemical mfg.....	-	6	3	f	D	D	D	D	D	D	D	D	
332	Fabricated metal product mfg.....	-	40	10		1 009	29 132	802	1 609	19 607	64 758	55 206	120 266	D
	CORSICANA, TX													
31-33	Manufacturing	-	41	17	g	D	D	D	D	D	D	D	6 632	
	CROWLEY, TX *													
31-33	Manufacturing	1	16	8	542	18 247	401	888	11 366	62 854	42 132	102 657	3 297	
	DALLAS, TX *													
31-33	Manufacturing	1	1 762	605	77 920	2 884 092	48 530	98 531	1 337 305	9 756 190	6 252 975	15 722 924	1 033 013	
311	Food mfg.....	-	119	54	7 857	223 405	4 849	9 952	108 519	1 782 537	1 244 419	3 028 683	46 878	
3115	Dairy product mfg.....	1	8	5	g	D	D	D	D	D	D	D	D	
31151	Dairy product (except frozen) mfg.....	2	6	3	g	D	D	D	D	D	D	D	D	
311511	Fluid milk mfg.....	2	4	3	g	D	D	D	D	D	D	D	D	
3116	Meat product mfg.....	1	15	10	1 903	45 939	1 592	3 269	31 191	166 786	429 204	595 373	D	
31161	Animal slaughtering & processing.....	1	15	10	1 903	45 939	1 592	3 269	31 191	166 786	429 204	595 373	D	
311612	Meat processed from carcasses.....	2	8	5	f	D	D	D	D	D	D	D	D	
311615	Poultry processing.....	-	3	2	f	D	D	D	D	D	D	D	D	
3118	Bakeries & tortilla mfg.....	-	50	16	2 891	79 224	1 413	2 770	30 801	215 680	170 596	385 829	D	
31181	Bread & bakery product mfg.....	-	41	10	2 135	62 276	821	1 599	19 860	155 103	111 408	266 699	7 165	
311812	Commercial bakeries..	-	19	9	2 001	60 174	742	1 494	18 875	150 686	108 884	259 761	D	
31183	Tortilla mfg.....	-	3	2	f	D	D	D	D	D	D	D	D	
311830	Tortilla mfg.....	-	3	2	f	D	D	D	D	D	D	D	D	
3119	Other food mfg.....	-	30	17	1 292	38 333	1 007	2 100	22 698	1 205 032	195 512	1 402 808	12 883	
31199	All other food mfg.....	2	13	9	f	D	D	D	D	D	D	D	2 403	
312	Beverage & tobacco product mfg.....	1	8	4	g	D	D	D	D	D	D	D	7 305	
3121	Beverage mfg.....	1	8	4	g	D	D	D	D	D	D	D	7 305	
31211	Soft drink & ice mfg.....	1	6	4	g	D	D	D	D	D	D	D	D	
312111	Soft drink mfg.....	1	4	3	f	D	D	D	D	D	D	D	D	
314	Textile product mills.....	-	55	24	2 221	40 941	1 870	3 419	28 348	115 228	124 857	231 233	D	
3141	Textile furnishings mills....	-	34	17	1 634	28 701	1 436	2 497	21 341	86 041	103 298	179 711	1 698	
31412	Curtain & linen mills.....	-	32	17	g	D	D	D	D	D	D	D	D	
314129	Other household textile product mills.....	-	14	11	1 314	21 644	1 185	1 998	17 212	73 575	91 306	155 607	1 425	
3149	Other textile product mills..	1	21	7	587	12 240	434	922	7 007	29 187	21 559	51 522	D	
315	Apparel mfg.....	3	107	35	2 809	58 180	1 711	3 169	30 505	114 162	149 765	263 133	4 299	
3152	Cut & sew apparel mfg....	2	79	26	g	D	D	D	D	D	D	D	D	
31523	Women's & girls' cut & sew apparel mfg.....	2	35	18	1 738	37 160	821	1 459	17 301	73 806	120 261	193 487	2 405	
315233	Women's & girls' cut & sew dress mfg.....	2	11	4	1 056	17 890	393	700	6 481	33 367	61 177	94 696	D	
3159	Apparel accessories & other apparel mfg.....	4	25	9	f	D	D	D	D	D	D	D	1 297	
31599	Apparel accessories & other apparel mfg.....	4	25	9	f	D	D	D	D	D	D	D	1 297	
321	Wood product mfg.....	2	32	14	1 143	27 579	913	1 887	17 339	55 252	62 711	117 210	D	
3219	Other wood product mfg....	1	27	12	856	19 910	692	1 437	12 486	39 436	42 160	81 143	D	
32191	Millwork.....	-	16	9	664	16 518	522	1 089	9 858	32 583	33 361	65 573	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	DALLAS, TX *—Con.												
	Manufacturing—Con.												
322	Paper mfg	1	42	26	2 782	93 002	2 184	5 214	69 034	262 278	267 250	530 184	20 389
3222	Converted paper product mfg	1	40	25	h	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	1	15	11	1 641	52 898	1 346	3 293	42 246	107 745	135 466	243 197	5 999
322211	Corrugated & solid fiber box mfg.	2	10	9	f	D	D	D	D	D	D	D	D
322215	Nonfolding sanitary food container mfg.	—	1	1	f	D	D	D	D	D	D	D	D
32223	Stationery product mfg.	1	8	6	523	16 170	369	802	9 942	35 127	46 487	81 626	6 613
323	Printing & related support activities	2	373	92	8 209	276 252	6 101	11 908	168 028	621 568	335 763	957 776	43 377
3231	Printing & related support activities	2	373	92	8 209	276 252	6 101	11 908	168 028	621 568	335 763	957 776	43 377
32311	Printing	2	321	75	7 005	229 032	5 227	10 236	140 493	537 807	316 832	855 414	37 802
323110	Commercial lithographic printing	2	169	44	4 191	154 067	3 010	5 894	90 505	316 284	224 315	541 724	24 819
323113	Commercial screen printing	2	26	8	576	12 447	423	747	6 848	23 639	21 441	44 758	1 194
323116	Manifold business form printing	—	10	5	1 031	26 175	915	1 903	21 749	125 235	23 486	148 755	D
32312	Support activities for printing	2	52	17	1 204	47 220	874	1 672	27 535	83 761	18 931	102 362	5 575
323122	Prepress services	2	34	11	869	38 725	580	1 085	20 837	69 325	16 651	85 635	5 149
325	Chemical mfg	1	85	27	3 748	116 702	2 301	4 624	60 192	1 019 927	575 426	1 609 052	36 996
3255	Paint, coating, & adhesive mfg	1	15	5	735	14 945	276	417	5 722	76 994	73 170	146 156	D
32551	Paint & coating mfg	—	8	2	605	10 838	201	263	3 928	31 194	48 097	75 164	D
325510	Paint & coating mfg	—	8	2	605	10 838	201	263	3 928	31 194	48 097	75 164	D
3256	Soap, cleaning compound, & toilet preparation mfg.	—	27	6	g	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg.	—	10	4	1 049	37 600	769	1 504	21 031	680 230	261 530	955 696	10 027
325620	Toilet preparation mfg.	—	10	4	1 049	37 600	769	1 504	21 031	680 230	261 530	955 696	10 027
3259	Other chemical product mfg	—	20	9	913	29 536	573	1 126	15 617	125 927	112 522	238 807	7 123
326	Plastics & rubber products mfg	2	74	32	2 772	78 668	2 267	4 583	54 350	182 250	214 954	396 673	19 461
3261	Plastics product mfg	2	59	25	2 240	64 562	1 857	3 825	45 547	145 939	175 640	319 626	16 979
32619	Other plastics product mfg	2	28	10	1 077	27 791	889	1 727	18 373	60 247	57 771	116 933	4 958
326199	All other plastics product mfg	2	28	10	1 077	27 791	889	1 727	18 373	60 247	57 771	116 933	4 958
3262	Rubber product mfg	1	15	7	532	14 106	410	758	8 803	36 311	39 314	77 047	2 482
327	Nonmetallic mineral product mfg	1	52	26	2 431	68 712	2 058	4 181	51 915	226 945	249 430	476 742	22 748
3271	Clay product & refractory mfg	2	7	4	979	23 900	901	1 849	20 355	92 599	36 001	128 108	D
32712	Clay building material & refractories mfg	2	4	3	f	D	D	D	D	D	D	D	D
327122	Ceramic wall & floor tile mfg	—	2	1	f	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	1	21	15	842	30 295	667	1 532	21 709	92 629	165 124	258 461	15 632
331	Primary metal mfg	—	10	3	834	21 806	709	1 470	14 991	53 312	34 062	84 565	D
3315	Foundries	—	7	2	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	—	3	2	f	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	242	83	5 560	173 919	4 132	8 525	105 289	367 587	361 273	724 171	D
3323	Architectural & structural metals mfg	1	76	30	1 988	61 979	1 425	2 970	34 857	150 438	151 625	300 365	4 563
33232	Ornamental & architectural metal products mfg	—	63	25	1 705	53 505	1 231	2 571	30 228	128 955	119 456	246 855	3 794
332321	Metal window & door mfg	—	13	7	618	17 725	431	837	8 611	40 079	67 923	107 351	963
332322	Sheet metal work mfg	1	33	16	872	28 507	633	1 416	17 319	71 610	44 664	115 412	2 558
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	74	18	1 316	42 175	950	1 872	25 735	86 536	52 144	137 118	D
33271	Machine shops	1	65	14	1 154	36 824	826	1 672	22 676	75 114	45 367	119 160	6 633
332710	Machine shops	1	65	14	1 154	36 824	826	1 672	22 676	75 114	45 367	119 160	6 633
3328	Coating, engraving, heat treating, & allied activities	1	30	11	546	15 906	420	841	9 233	25 023	8 287	33 438	2 136
33281	Coating, engraving, heat treating, & allied activities	1	30	11	546	15 906	420	841	9 233	25 023	8 287	33 438	2 136
3329	Other fabricated metal product mfg	—	19	8	696	22 253	571	1 088	13 963	24 191	78 149	100 873	3 925

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	DALLAS, TX *—Con.												
	Manufacturing—Con.												
333	Machinery mfg	2	110	45	4 679	155 322	3 029	5 945	79 142	453 173	364 909	810 799	24 234
3331	Agriculture, construction, & mining machinery mfg.	1	11	6	933	37 320	625	1 330	21 297	166 712	50 092	215 709	7 435
33313	Mining & oil & gas field machinery mfg.	1	6	4	784	33 126	517	1 137	18 975	154 087	39 308	191 840	D
333132	Oil & gas field machinery & equipment mfg.	1	6	4	784	33 126	517	1 137	18 975	154 087	39 308	191 840	D
3332	Industrial machinery mfg. ..	9	19	5	673	25 145	335	703	10 330	69 572	58 194	122 258	4 337
33329	Other industrial machinery mfg.	9	17	5	f	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg. ..	1	17	9	729	21 899	503	824	12 304	51 181	63 565	114 822	4 353
33331	Commercial & service industry machinery mfg.	1	17	9	729	21 899	503	824	12 304	51 181	63 565	114 822	4 353
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.	2	15	11	1 278	31 206	939	1 693	15 609	75 692	80 263	158 011	2 230
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg. .	2	15	11	1 278	31 206	939	1 693	15 609	75 692	80 263	158 011	2 230
333415	AC & warm air heating & commercial/ industrial refrig equip mfg.	-	10	7	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg.	1	23	7	588	19 080	357	793	9 888	56 260	60 380	112 157	4 690
334	Computer & electronic product mfg.	-	97	37	16 285	920 878	6 174	12 817	199 804	2 959 094	820 678	3 708 020	701 628
3342	Communications equipment mfg.	1	15	7	g	D	D	D	D	D	D	D	D
33421	Telephone apparatus mfg.	-	5	1	f	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg.	-	5	1	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg.	1	7	5	g	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg.	1	7	5	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.	-	43	16	8 390	553 859	2 453	4 975	57 056	2 286 615	444 354	2 668 303	D
33441	Semiconductor & other electronic component mfg.	-	43	16	8 390	553 859	2 453	4 975	57 056	2 286 615	444 354	2 668 303	D
334413	Semiconductor & related device mfg.	-	12	6	i	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.	-	19	8	5 048	233 778	1 912	4 131	68 493	280 745	107 702	379 129	D
33451	Navigational, measuring, medical, & control instruments mfg.	-	19	8	5 048	233 778	1 912	4 131	68 493	280 745	107 702	379 129	D
334511	Search, detection, navigation, & guidance instrument mfg.	-	2	2	h	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media. .	-	7	3	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media.	-	7	3	f	D	D	D	D	D	D	D	D
334611	Software reproducing. .	-	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.	1	40	20	1 658	46 626	1 217	2 626	25 976	108 668	119 627	228 835	5 946
3353	Electrical equipment mfg. ..	1	16	8	766	23 175	545	1 224	13 234	55 611	52 630	107 466	1 927
33531	Electrical equipment mfg.	1	16	8	766	23 175	545	1 224	13 234	55 611	52 630	107 466	1 927
3359	Other electrical equipment & component mfg.	-	12	6	539	14 463	420	846	8 314	29 249	45 809	75 517	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	DALLAS, TX *—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg	—	43	23	8 269	399 917	4 283	8 148	218 379	975 298	687 785	1 457 412	46 435
3363	Motor vehicle parts mfg ...	5	26	12	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	—	14	9	7 118	372 604	3 370	6 534	200 841	931 295	541 175	1 263 071	41 667
33641	Aerospace product & parts mfg	—	14	9	7 118	372 604	3 370	6 534	200 841	931 295	541 175	1 263 071	41 667
336411	Aircraft mfg	—	4	3	f	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg	—	3	3	g	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	—	7	3	i	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	88	26	2 325	56 960	1 845	4 114	38 991	113 129	120 971	232 851	6 139
3371	Household & institutional furniture & kitchen cabinet mfg	1	63	14	1 443	31 760	1 234	2 535	23 624	63 545	67 385	130 100	4 177
33711	Wood kitchen cabinet & counter top mfg	—	25	6	646	11 807	575	1 200	8 453	30 045	28 319	57 528	2 177
337110	Wood kitchen cabinet & counter top mfg ...	—	25	6	646	11 807	575	1 200	8 453	30 045	28 319	57 528	2 177
33712	Household & institutional furniture mfg	2	38	8	797	19 953	659	1 335	15 171	33 500	39 066	72 572	2 000
3372	Office furniture (including fixtures) mfg	6	20	10	528	16 829	395	780	10 179	30 684	22 524	52 789	1 553
33721	Office furniture (including fixtures) mfg	6	20	10	528	16 829	395	780	10 179	30 684	22 524	52 789	1 553
339	Miscellaneous mfg	5	163	27	2 736	69 070	2 093	4 104	41 834	67 082	175 168	236 951	8 542
3399	Other miscellaneous mfg ..	5	118	23	g	D	D	D	D	D	D	D	D
33995	Sign mfg	4	45	11	1 049	30 218	780	1 613	17 131	S	S	82 790	1 968
339950	Sign mfg	4	45	11	1 049	30 218	780	1 613	17 131	S	S	82 790	1 968
33999	All other miscellaneous mfg	5	31	9	998	19 133	804	1 570	12 970	35 770	37 954	73 318	3 608
339999	All other miscellaneous mfg	7	22	5	f	D	D	D	D	D	D	D	2 772
	DECATUR, TX												
31-33	Manufacturing	1	9	4	594	17 350	439	888	11 628	56 762	31 363	83 165	4 870
	DEER PARK, TX												
31-33	Manufacturing	—	31	18	4 364	260 708	2 650	6 154	154 673	4 599 765	2 989 847	7 582 992	222 049
325	Chemical mfg	—	12	10	3 751	241 244	2 261	5 325	143 019	4 562 160	2 956 744	7 510 439	220 379
3251	Basic chemical mfg	—	8	7	h	D	D	D	D	D	D	D	D
32511	Petrochemical mfg	—	1	1	f	D	D	D	D	D	D	D	D
325110	Petrochemical mfg	—	1	1	f	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg	—	1	1	f	D	D	D	D	D	D	D	D
325181	Alkalies & chlorine mfg	—	1	1	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	—	4	4	g	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	—	4	4	g	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	—	2	2	f	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg	—	2	2	f	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg	—	2	2	f	D	D	D	D	D	D	D	D
	DENISON, TX												
31-33	Manufacturing	—	33	11	2 157	67 295	1 745	3 613	48 605	463 961	325 996	785 512	19 916
333	Machinery mfg	—	5	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)				
DENTON, TX													
31-33	Manufacturing	-	73	22	4 187	143 653	3 313	6 417	105 404	519 941	825 958	1 350 009	43 026
333	Machinery mfg	-	9	3	789	28 472	660	1 094	18 974	113 245	37 881	149 875	2 156
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
333992	Welding & soldering equipment mfg	-	1	1	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
336	Transportation equipment mfg	-	4	3	g	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
DUNCANVILLE, TX													
31-33	Manufacturing	1	40	12	2 452	50 269	1 744	3 383	30 748	146 646	88 647	237 256	5 492
337	Furniture & related product mfg	-	4	2	g	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	4	2	g	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet & counter top mfg	-	2	2	g	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet & counter top mfg ...	-	2	2	g	D	D	D	D	D	D	D	D
EAGLE PASS, TX													
31-33	Manufacturing	1	18	6	g	D	D	D	D	D	D	D	D
315	Apparel mfg	1	5	4	774	8 798	726	1 234	7 576	6 833	49 870	57 275	D
3152	Cut & sew apparel mfg	1	5	4	774	8 798	726	1 234	7 576	6 833	49 870	57 275	D
31522	Men's & boys' cut & sew apparel mfg	1	5	4	774	8 798	726	1 234	7 576	6 833	49 870	57 275	D
315225	Men's & boys' cut & sew work clothing mfg	-	3	3	f	D	D	D	D	D	D	D	D
EDINBURG, TX													
31-33	Manufacturing	-	26	13	2 134	32 518	1 817	2 587	24 357	236 144	234 661	471 489	5 254
315	Apparel mfg	-	2	2	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	2	2	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	-	2	2	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
EL CAMPO, TX													
31-33	Manufacturing	-	25	8	1 213	29 838	1 065	2 206	23 222	55 670	77 917	134 895	3 881

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	EL PASO, TX												
31-33	Manufacturing	1	599	205	33 212	716 201	26 525	48 858	482 300	3 115 892	4 522 184	7 602 078	225 309
311	Food mfg	-	52	13	1 407	30 934	962	2 197	17 247	78 552	132 702	211 593	8 356
313	Textile mills	4	11	6	g	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills	5	8	5	g	D	D	D	D	D	D	D	D
31331	Textile & fabric finishing mills	5	8	5	g	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills	8	6	3	g	D	D	D	D	D	D	D	D
313312	Textile & fabric finishing mills	-	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	71	35	j	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	67	34	j	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	2	41	14	g	D	D	D	D	D	D	D	D
315212	Women's, girls', & infants' cut & sew apparel contractors ..	2	34	11	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	-	13	10	4 713	102 571	4 154	7 900	76 931	470 503	590 425	1 035 026	4 040
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	-	11	9	h	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	12	9	h	D	D	D	D	D	D	D	13 560
315234	Women's & girls' cut & sew suit, coat, skirt mfg	-	2	1	f	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	-	9	8	h	D	D	D	D	D	D	D	D
316	Leather & allied product mfg .	2	24	9	1 045	19 924	691	1 266	9 439	36 982	60 152	104 467	678
3162	Footwear mfg	2	18	8	914	17 331	636	1 176	8 711	32 986	53 798	94 030	429
31621	Footwear mfg	2	18	8	914	17 331	636	1 176	8 711	32 986	53 798	94 030	429
316213	Men's footwear (except athletic) mfg .	1	12	7	f	D	D	D	D	D	D	D	380
322	Paper mfg	1	18	13	1 102	28 076	897	1 887	18 599	78 022	98 110	175 572	4 508
3222	Converted paper product mfg	1	18	13	1 102	28 076	897	1 887	18 599	78 022	98 110	175 572	4 508
32221	Paperboard container mfg	1	13	12	1 035	25 328	841	1 773	16 666	73 856	93 046	166 257	D
322211	Corrugated & solid fiber box mfg	-	10	9	804	19 644	653	1 351	12 803	60 336	81 188	140 830	2 077
323	Printing & related support activities.....	2	71	11	942	18 330	734	1 018	11 986	35 817	20 447	55 817	3 127
3231	Printing & related support activities.....	2	71	11	942	18 330	734	1 018	11 986	35 817	20 447	55 817	3 127
32311	Printing	1	63	10	648	15 001	471	755	9 038	30 717	19 997	50 356	2 696
326	Plastics & rubber products mfg	1	33	19	3 349	71 615	2 652	5 169	52 282	190 417	202 516	387 657	D
3261	Plastics product mfg	1	31	19	h	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	28	17	h	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	27	17	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	14	6	f	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	-	8	5	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	7	4	g	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing.....	-	5	4	g	D	D	D	D	D	D	D	D
33141	Nonferrous metal (except aluminum) smelting & refining	-	2	2	f	D	D	D	D	D	D	D	D
331411	Primary smelting & refining of copper	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	5	84	23	g	D	D	D	D	D	D	D	8 017
333	Machinery mfg	5	40	9	931	16 587	757	1 341	11 650	40 701	21 934	63 902	D
334	Computer & electronic product mfg	1	20	10	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	11	5	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	11	5	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 PASO, TX—Con.													
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	-	19	12	g	D	D	D	D	D	D	D	D
3352	Household appliance mfg. . .	-	3	3	g	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg	-	3	3	g	D	D	D	D	D	D	D	D
335212	Household vacuum cleaner mfg	-	2	2	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	11	5	643	17 108	391	666	7 517	205 433	132 716	337 441	D
33531	Electrical equipment mfg	-	11	5	643	17 108	391	666	7 517	205 433	132 716	337 441	D
336	Transportation equipment mfg	-	15	5	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	13	5	f	D	D	D	D	D	D	D	4 681
337	Furniture & related product mfg	-	18	4	799	12 236	748	1 304	10 040	28 641	15 757	44 422	D
3371	Household & institutional furniture & kitchen cabinet mfg	-	15	3	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	7	3	f	D	D	D	D	D	D	D	D
337124	Metal household furniture mfg	-	2	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	52	12	g	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	-	24	5	786	20 458	392	633	7 606	100 623	186 397	291 521	6 104
33911	Medical equipment & supplies mfg	-	24	5	786	20 458	392	633	7 606	100 623	186 397	291 521	6 104
339113	Surgical appliance & supplies mfg	-	4	2	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ...	-	28	7	g	D	D	D	D	D	D	D	D
33993	Doll, toy, & game mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
339932	Game, toy, & children's vehicle mfg	-	1	1	f	D	D	D	D	D	D	D	D
ENNIS, TX													
31-33	Manufacturing	2	57	30	3 515	87 338	2 782	5 662	60 079	296 274	354 794	649 042	21 754
332	Fabricated metal product mfg	1	13	6	691	16 841	485	1 046	11 241	38 765	53 579	92 558	2 904
EULESS, TX													
31-33	Manufacturing	2	41	16	1 060	31 004	711	1 339	17 335	68 365	38 827	107 135	3 522
EVERMAN, TX													
31-33	Manufacturing	-	17	5	848	28 235	728	1 040	20 984	65 819	164 874	238 323	5 438
333	Machinery mfg	-	4	2	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg.	-	1	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

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)				
FARMERS BRANCH, TX													
31-33	Manufacturing	—	134	52	7 477	251 186	5 595	12 429	137 144	795 433	510 226	1 299 640	91 249
323	Printing & related support activities.....	—	28	7	976	37 430	755	2 052	25 561	81 563	41 638	123 752	4 055
3231	Printing & related support activities.....	—	28	7	976	37 430	755	2 052	25 561	81 563	41 638	123 752	4 055
32311	Printing	—	24	6	887	33 389	690	1 913	23 054	74 396	39 770	114 686	3 592
323110	Commercial lithographic printing ..	—	8	3	672	26 653	533	1 619	19 425	59 820	32 219	92 306	2 193
326	Plastics & rubber products mfg	1	13	8	825	25 131	681	1 492	15 875	58 765	80 121	134 965	7 802
3261	Plastics product mfg	—	12	8	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	12	4	715	19 705	585	1 334	14 495	48 205	48 568	101 958	2 205
334	Computer & electronic product mfg.....	—	17	5	2 154	91 225	1 458	3 230	32 070	385 963	111 933	489 700	66 741
3344	Semiconductor & other electronic component mfg	—	7	4	2 039	84 962	1 406	3 139	30 221	376 769	106 749	474 900	66 128
33441	Semiconductor & other electronic component mfg	—	7	4	2 039	84 962	1 406	3 139	30 221	376 769	106 749	474 900	66 128
334413	Semiconductor & related device mfg ...	—	3	2	g	D	D	D	D	D	D	D	D
334419	Other electronic component mfg	—	2	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	1	4	4	531	18 997	436	1 112	14 249	73 650	59 147	133 922	D
336	Transportation equipment mfg	—	2	1	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	—	2	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	2	1	f	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
FORT WORTH, TX *													
31-33	Manufacturing	1	821	300	56 215	2 337 949	31 800	66 959	964 857	5 885 255	5 260 111	11 198 254	321 608
311	Food mfg	—	45	24	4 034	114 130	2 801	5 839	63 991	471 003	689 137	1 158 876	25 005
3116	Meat product mfg	—	5	3	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	—	5	3	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	—	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	—	14	3	g	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	—	11	1	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	—	4	1	f	D	D	D	D	D	D	D	D
3119	Other food mfg	—	7	5	f	D	D	D	D	D	D	D	D
31199	All other food mfg	—	3	2	f	D	D	D	D	D	D	D	D
311991	Perishable prepared food mfg	—	2	2	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	—	4	3	g	D	D	D	D	D	D	D	D
3121	Beverage mfg	—	4	3	g	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	—	3	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
31212	Breweries	—	1	1	f	D	D	D	D	D	D	D	D
312120	Breweries	—	1	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg	4	18	7	1 176	23 491	1 038	2 006	18 127	43 055	106 084	149 419	2 847
3219	Other wood product mfg ...	4	15	7	1 171	23 443	1 034	2 002	18 090	42 896	105 647	148 829	D
32199	All other wood product mfg	5	6	2	f	D	D	D	D	D	D	D	2 050
321991	Manufactured home (mobile home) mfg ..	5	2	2	f	D	D	D	D	D	D	D	D
322	Paper mfg	—	18	13	1 128	35 105	694	1 396	18 704	74 157	134 233	206 364	7 836
3222	Converted paper product mfg	—	18	13	1 128	35 105	694	1 396	18 704	74 157	134 233	206 364	7 836
32221	Paperboard container mfg	—	14	10	f	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	—	8	7	641	20 073	429	871	10 901	47 636	85 589	131 792	6 592
323	Printing & related support activities.....	1	113	28	2 673	83 845	2 005	4 106	52 318	155 525	122 338	277 281	16 035
3231	Printing & related support activities.....	1	113	28	2 673	83 845	2 005	4 106	52 318	155 525	122 338	277 281	16 035
32311	Printing	1	100	25	2 513	78 730	1 889	3 878	49 153	146 063	120 507	265 824	14 432
323110	Commercial lithographic printing ..	2	54	16	1 567	57 558	1 160	2 517	34 565	94 792	76 183	170 867	8 791

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	FORT WORTH, TX *— Con. Manufacturing— Con.												
325	Chemical mfg	1	41	13	3 504	202 033	1 351	2 794	39 771	733 613	240 843	982 852	36 632
3254	Pharmaceutical & medicine mfg	1	8	3	h	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	1	8	3	h	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	—	5	3	h	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	3	43	21	1 633	41 793	1 270	2 679	30 092	97 738	112 133	209 786	12 011
3261	Plastics product mfg	3	31	18	1 452	36 203	1 132	2 414	26 872	83 932	101 493	185 250	11 355
32619	Other plastics product mfg	3	21	11	1 084	23 648	819	1 751	18 094	46 280	49 231	95 924	7 339
326199	All other plastics product mfg	3	21	11	1 084	23 648	819	1 751	18 094	46 280	49 231	95 924	7 339
327	Nonmetallic mineral product mfg	4	31	15	1 028	25 763	794	1 655	18 476	65 852	64 354	130 356	5 900
3273	Cement & concrete product mfg	3	15	8	533	15 488	442	962	11 584	44 759	46 640	91 375	4 549
331	Primary metal mfg	—	16	9	f	D	D	D	D	D	D	D	3 476
3315	Foundries	—	13	8	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	—	5	3	689	21 659	567	1 125	16 152	33 019	20 470	53 034	D
331513	Steel foundries (except investment)	—	2	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	157	49	3 567	111 515	2 763	5 570	70 527	237 320	263 938	508 230	12 981
3323	Architectural & structural metals mfg	—	42	14	988	30 103	772	1 589	18 190	78 722	55 684	133 750	2 462
33232	Ornamental & architectural metal products mfg	—	30	11	704	21 494	563	1 143	13 034	60 928	37 118	97 292	1 562
332322	Sheet metal work mfg	—	19	9	582	17 815	472	972	10 910	50 911	30 459	80 600	1 199
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	55	12	832	26 404	664	1 200	17 279	51 740	27 233	78 398	D
33271	Machine shops	—	43	7	599	17 563	482	838	11 613	31 236	19 727	50 319	1 989
332710	Machine shops	—	43	7	599	17 563	482	838	11 613	31 236	19 727	50 319	1 989
3329	Other fabricated metal product mfg	—	24	9	787	26 652	568	1 245	14 346	57 826	50 426	104 520	2 367
333	Machinery mfg	1	67	33	2 830	86 374	2 068	4 293	47 766	173 906	206 378	371 461	11 954
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	1	11	8	971	29 301	673	1 436	15 286	39 682	79 841	119 823	5 903
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	1	11	8	971	29 301	673	1 436	15 286	39 682	79 841	119 823	5 903
333415	AC & warm air heating & commercial/ industrial refig equip mfg	2	9	7	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	1	14	6	523	14 495	392	773	8 758	35 703	57 480	90 871	2 116
334	Computer & electronic product mfg	3	32	14	h	D	D	D	D	D	D	D	44 607
3341	Computer & peripheral equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
334111	Electronic computer mfg	—	1	1	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	5	5	3	h	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	5	4	3	h	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	5	4	3	h	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	1	11	4	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	1	11	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)				
31-33	FORT WORTH, TX *—Con.												
	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	-	12	5	1 477	32 624	1 007	1 609	16 593	131 428	67 897	190 792	5 394
3359	Other electrical equipment & component mfg	-	7	4	g	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg	-	1	1	f	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	47	24	21 982	1 180 174	8 687	19 643	365 999	2 432 368	1 948 776	4 432 567	101 209
3363	Motor vehicle parts mfg ...	2	21	12	1 353	35 308	962	2 100	18 694	82 577	103 151	185 446	D
33639	Other motor vehicle parts mfg	2	6	5	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	-	14	8	19 786	1 120 489	7 043	16 202	330 078	2 290 571	1 726 451	4 069 987	92 760
33641	Aerospace product & parts mfg	-	14	8	19 786	1 120 489	7 043	16 202	330 078	2 290 571	1 726 451	4 069 987	92 760
336411	Aircraft mfg	-	6	3	j	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	-	6	3	f	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg...	-	5	4	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	-	5	4	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	-	5	4	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	41	14	g	D	D	D	D	D	D	D	2 641
3372	Office furniture (including fixtures) mfg	3	19	10	f	D	D	D	D	D	D	D	1 910
33721	Office furniture (including fixtures) mfg	3	19	10	f	D	D	D	D	D	D	D	1 910
339	Miscellaneous mfg	3	81	15	1 604	47 232	1 150	2 259	24 090	113 830	114 668	232 451	6 729
3391	Medical equipment & supplies mfg	6	27	5	542	22 128	350	722	9 847	49 628	26 271	78 617	3 671
33911	Medical equipment & supplies mfg	6	27	5	542	22 128	350	722	9 847	49 628	26 271	78 617	3 671
3399	Other miscellaneous mfg ..	2	54	10	1 062	25 104	800	1 537	14 243	64 202	88 397	153 834	3 058
	FREDERICKSBURG, TX												
31-33	Manufacturing	1	35	6	678	11 820	518	1 149	8 925	24 698	39 818	66 882	864
	FREEPORT, TX												
31-33	Manufacturing	-	34	19	5 892	287 070	4 478	8 793	206 199	1 009 553	2 764 857	3 718 425	D
325	Chemical mfg	-	11	8	h	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	-	5	3	g	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	-	1	1	g	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	-	1	1	g	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	4	3	1 727	89 396	1 303	2 685	63 130	286 253	437 998	719 591	78 183
32521	Resin & synthetic rubber mfg	-	4	3	1 727	89 396	1 303	2 685	63 130	286 253	437 998	719 591	78 183
325211	Plastics material & resin mfg	-	4	3	1 727	89 396	1 303	2 685	63 130	286 253	437 998	719 591	78 183
331	Primary metal mfg	-	1	1	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	-	1	1	f	D	D	D	D	D	D	D	D
33141	Nonferrous metal (except aluminum) smelting & refining	-	1	1	f	D	D	D	D	D	D	D	D
331419	Other nonferrous metal primary smelting & refining	-	1	1	f	D	D	D	D	D	D	D	D
	FRIONA, TX												
31-33	Manufacturing	-	3	2	g	D	D	D	D	D	D	D	D
311	Food mfg	-	3	2	g	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	2	2	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	-	1	1	g	D	D	D	D	D	D	D	D

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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)				
FRISCO, TX *													
31-33	Manufacturing	-	18	9	519	15 556	441	871	10 999	84 976	50 936	133 050	2 525
GAINESVILLE, TX													
31-33	Manufacturing	1	47	21	2 590	66 674	2 252	4 713	52 398	161 321	146 121	300 097	20 844
326	Plastics & rubber products mfg	-	9	7	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	2	2	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
GALENA PARK, TX													
31-33	Manufacturing	-	9	6	f	D	D	D	D	D	D	D	D
GALVESTON, TX													
31-33	Manufacturing	1	32	5	592	15 832	538	887	13 504	24 149	36 364	56 319	3 820
GARLAND, TX *													
31-33	Manufacturing	-	377	141	16 285	556 548	9 809	18 523	233 150	1 467 003	1 450 798	2 944 630	84 455
311	Food mfg	-	12	6	1 206	39 405	942	1 767	26 744	153 844	231 408	386 283	20 528
3116	Meat product mfg	1	4	4	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	1	4	4	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	1	3	3	f	D	D	D	D	D	D	D	D
315	Apparel mfg	1	59	24	1 525	21 661	1 222	2 036	16 072	56 094	49 013	103 389	901
3152	Cut & sew apparel mfg	1	53	21	g	D	D	D	D	D	D	D	463
31521	Cut & sew apparel contractors	6	37	12	622	6 829	573	879	6 115	10 442	2 154	12 573	240
315212	Women's, girls', & infants' cut & sew apparel contractors ..	5	36	11	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	14	9	1 103	41 634	677	1 430	18 665	316 462	372 936	683 559	10 733
3255	Paint, coating, & adhesive mfg	-	5	3	f	D	D	D	D	D	D	D	6 549
32551	Paint & coating mfg	-	4	2	f	D	D	D	D	D	D	D	D
325510	Paint & coating mfg ...	-	4	2	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	10	6	686	16 539	594	1 159	13 515	24 303	25 118	49 142	867
332	Fabricated metal product mfg	1	94	34	3 083	91 369	2 414	4 613	57 213	199 424	107 995	305 280	10 537
3323	Architectural & structural metals mfg	1	27	15	1 455	41 933	1 177	2 487	28 221	96 145	44 205	139 236	3 985
33232	Ornamental & architectural metal products mfg	1	22	13	1 374	40 449	1 106	2 393	27 123	93 622	42 418	134 827	D
332322	Sheet metal work mfg .	1	21	12	g	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	3	39	5	588	18 007	480	855	11 229	34 369	13 713	48 258	1 910
333	Machinery mfg	-	19	6	736	25 179	450	904	12 697	85 611	113 775	202 799	798
3331	Agriculture, construction, & mining machinery mfg ...	-	4	3	f	D	D	D	D	D	D	D	D
33313	Mining & oil & gas field machinery mfg	-	4	3	f	D	D	D	D	D	D	D	D
333132	Oil & gas field machinery & equipment mfg	-	3	3	f	D	D	D	D	D	D	D	D

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	GARLAND, TX *—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg	—	38	20	5 236	246 488	1 368	2 638	40 412	423 470	386 973	847 721	23 059
3344	Semiconductor & other electronic component mfg	1	24	13	1 266	42 667	934	1 855	31 086	38 114	61 114	103 435	7 935
33441	Semiconductor & other electronic component mfg	1	24	13	1 266	42 667	934	1 855	31 086	38 114	61 114	103 435	7 935
334412	Bare printed circuit board mfg	—	8	4	680	23 517	575	1 185	22 048	7 316	41 776	49 142	D
3345	Navigational, measuring, medical, & control instruments mfg	—	5	3	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	—	5	3	h	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	—	3	3	h	D	D	D	D	D	D	D	D
	GEORGETOWN, TX												
31-33	Manufacturing	2	54	14	g	D	D	D	D	D	D	D	6 221
334	Computer & electronic product mfg	3	13	6	f	D	D	D	D	D	D	D	3 357
	GLADEWATER, TX *												
31-33	Manufacturing	4	17	4	500	12 090	346	649	6 339	22 847	18 677	41 210	1 174
	GRAHAM, TX												
31-33	Manufacturing	—	14	4	f	D	D	D	D	D	D	D	D
	GRAND PRAIRIE, TX *												
31-33	Manufacturing	1	232	97	12 709	464 027	9 277	19 194	286 695	1 121 505	913 761	2 014 195	50 477
322	Paper mfg	—	7	7	730	25 797	531	1 093	16 112	57 957	100 718	158 384	D
3222	Converted paper product mfg	—	7	7	730	25 797	531	1 093	16 112	57 957	100 718	158 384	D
323	Printing & related support activities	—	24	10	1 140	28 875	885	1 899	19 936	69 819	26 173	95 004	2 352
3231	Printing & related support activities	—	24	10	1 140	28 875	885	1 899	19 936	69 819	26 173	95 004	2 352
32311	Printing	1	19	7	572	18 083	405	868	11 080	51 567	21 044	71 711	999
32312	Support activities for printing	—	5	3	568	10 792	480	1 031	8 856	18 252	5 129	23 293	1 353
323121	Tradebinding & related work	—	4	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	19	10	1 637	45 065	1 304	3 349	32 152	130 207	169 427	304 431	10 397
3261	Plastics product mfg	—	17	9	g	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg	—	3	2	f	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	—	2	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	54	19	1 424	44 619	1 010	2 132	26 073	99 904	112 418	212 968	8 559
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	26	8	f	D	D	D	D	D	D	D	D
333	Machinery mfg	—	18	8	703	20 435	487	1 050	11 818	49 664	54 745	100 790	2 650
335	Electrical equipment, appliance, & component mfg	—	3	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg	—	3	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	—	3	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	21	10	3 692	197 370	2 567	4 821	118 373	406 407	134 521	526 695	14 233
3364	Aerospace product & parts mfg	—	13	6	h	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	13	6	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

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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)				
	GRAND PRAIRIE, TX * —Con.												
31-33	Manufacturing— Con.												
337	Furniture & related product mfg	2	9	5	633	18 958	435	753	10 112	48 896	31 165	79 017	977
	GRAPEVINE, TX *												
31-33	Manufacturing	1	36	12	1 539	47 631	929	1 928	22 956	139 495	158 182	310 406	7 072
336	Transportation equipment mfg	—	2	1	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
336391	Motor vehicle air-conditioning mfg	—	1	1	f	D	D	D	D	D	D	D	D
	GREENVILLE, TX												
31-33	Manufacturing	2	30	15	1 629	34 058	1 263	2 543	20 441	146 685	205 789	351 692	5 835
321	Wood product mfg	6	3	3	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	6	2	2	f	D	D	D	D	D	D	D	D
32191	Millwork	6	2	2	f	D	D	D	D	D	D	D	D
321911	Wood window & door mfg	6	2	2	f	D	D	D	D	D	D	D	D
	HALTOM CITY, TX												
31-33	Manufacturing	2	138	43	3 292	89 664	2 355	4 561	52 254	183 132	177 775	361 289	9 609
332	Fabricated metal product mfg	1	42	10	722	20 778	565	1 120	14 308	37 318	28 248	65 431	1 798
333	Machinery mfg	—	13	4	545	17 109	318	654	8 066	32 726	45 787	78 872	1 382
	HARLINGEN, TX												
31-33	Manufacturing	—	65	21	4 480	86 146	3 872	7 433	67 697	229 228	336 346	562 443	7 394
311	Food mfg	—	15	5	f	D	D	D	D	D	D	D	D
315	Apparel mfg	—	3	3	h	D	D	D	D	D	D	D	D
3151	Apparel knitting mills	—	1	1	g	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills	—	1	1	g	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills	—	1	1	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	—	2	2	f	D	D	D	D	D	D	D	D
31529	Other cut & sew apparel mfg	—	1	1	f	D	D	D	D	D	D	D	D
315291	Infants' cut & sew apparel mfg	—	1	1	f	D	D	D	D	D	D	D	D
	HENDERSON, TX												
31-33	Manufacturing	1	22	13	940	21 789	725	1 506	15 764	68 629	64 311	131 972	2 832
	HEREFORD, TX												
31-33	Manufacturing	—	24	5	589	15 478	476	787	10 729	54 785	174 130	234 363	D
311	Food mfg	—	9	4	f	D	D	D	D	D	D	D	2 773
	HILLSBORO, TX												
31-33	Manufacturing	—	15	5	998	25 440	881	1 862	20 315	69 913	86 619	153 392	2 557

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	HOUSTON, TX *												
31-33	Manufacturing	1	2 969	914	104 218	3 599 309	72 361	141 747	2 024 013	13 318 807	19 275 747	32 595 787	1 127 813
311	Food mfg.....	-	165	51	7 829	217 970	5 292	10 456	121 078	945 444	1 223 220	2 170 256	52 004
3114	Fruit & vegetable preserving & specialty food mfg.....	3	12	6	f	D	D	D	D	D	D	D	D
31141	Frozen food mfg.....	7	6	4	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg.....	7	6	4	f	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	-	17	10	1 506	35 360	1 144	2 447	21 574	269 821	293 551	560 458	4 822
31161	Animal slaughtering & processing.....	-	17	10	1 506	35 360	1 144	2 447	21 574	269 821	293 551	560 458	4 822
311612	Meat processed from carcasses.....	-	10	6	1 309	30 376	1 033	2 222	19 125	243 493	248 247	488 681	D
3118	Bakeries & tortilla mfg.....	1	92	18	3 122	87 759	1 790	3 327	39 842	200 268	144 766	344 214	D
31181	Bread & bakery product mfg.....	-	80	13	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries..	-	21	7	g	D	D	D	D	D	D	D	5 014
31182	Cookie, cracker, & pasta mfg.....	2	8	3	f	D	D	D	D	D	D	D	D
3119	Other food mfg.....	-	28	13	1 884	61 205	1 458	2 973	42 126	365 684	540 797	916 783	D
31192	Coffee & tea mfg.....	-	6	3	f	D	D	D	D	D	D	D	D
311920	Coffee & tea mfg.....	-	6	3	f	D	D	D	D	D	D	D	D
31199	All other food mfg.....	1	17	8	854	18 364	668	1 199	12 048	60 931	84 121	144 974	D
311999	All other miscellaneous food mfg.....	-	8	3	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg.....	-	15	9	h	D	D	D	D	D	D	D	D
3121	Beverage mfg.....	-	14	9	h	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg.....	-	11	8	g	D	D	D	D	D	D	D	D
312111	Soft drink mfg.....	-	6	5	g	D	D	D	D	D	D	D	D
31212	Breweries.....	-	3	1	g	D	D	D	D	D	D	D	D
312120	Breweries.....	-	3	1	g	D	D	D	D	D	D	D	D
314	Textile product mills.....	3	58	8	959	20 094	725	1 381	11 613	36 894	28 282	64 979	1 536
3149	Other textile product mills..	3	36	5	676	14 755	504	947	8 270	27 910	20 379	48 150	1 162
315	Apparel mfg.....	6	45	6	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg....	5	33	6	f	D	D	D	D	D	D	D	724
321	Wood product mfg.....	4	51	12	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg....	5	47	10	f	D	D	D	D	D	D	D	D
322	Paper mfg.....	-	38	19	g	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
322122	Newsprint mills.....	-	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg.....	2	37	18	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg.....	1	19	13	f	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg.....	1	16	11	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	3	436	85	7 782	231 920	5 730	10 374	140 330	525 251	305 850	827 854	D
3231	Printing & related support activities.....	3	436	85	7 782	231 920	5 730	10 374	140 330	525 251	305 850	827 854	D
32311	Printing.....	3	394	73	i	D	D	D	D	D	D	D	36 983
323110	Commercial lithographic printing..	2	208	50	5 058	152 693	3 771	6 639	92 138	357 851	224 032	577 835	29 397
323113	Commercial screen printing.....	4	34	8	f	D	D	D	D	D	D	D	D
32312	Support activities for printing.....	4	42	12	f	D	D	D	D	D	D	D	D
324	Petroleum & coal products mfg.....	2	20	8	2 233	141 808	1 453	3 685	85 572	874 995	3 330 991	4 166 819	135 874
3241	Petroleum & coal products mfg.....	2	20	8	2 233	141 808	1 453	3 685	85 572	874 995	3 330 991	4 166 819	135 874
32411	Petroleum refineries.....	2	4	3	1 829	126 332	1 135	3 017	74 898	766 181	3 189 791	3 918 546	130 951
324110	Petroleum refineries..	2	4	3	1 829	126 332	1 135	3 017	74 898	766 181	3 189 791	3 918 546	130 951

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	HOUSTON, TX *—Con.												
31-33	Manufacturing—Con.												
325	Chemical mfg	1	151	54	6 795	319 262	4 153	8 801	174 337	1 799 974	2 805 989	4 603 914	357 313
3251	Basic chemical mfg	1	24	13	2 392	138 594	1 185	2 657	66 554	768 123	1 491 173	2 258 978	235 287
32511	Petrochemical mfg	1	4	4	1 330	82 142	662	1 530	39 564	503 065	1 165 730	1 674 870	192 748
325110	Petrochemical mfg	1	4	4	1 330	82 142	662	1 530	39 564	503 065	1 165 730	1 674 870	192 748
32519	Other basic organic chemical mfg	1	12	6	647	36 314	272	593	15 485	162 558	249 538	406 273	26 769
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	—	10	6	1 228	66 246	981	2 159	49 592	407 236	772 920	1 173 485	60 246
32521	Resin & synthetic rubber mfg	—	10	6	1 228	66 246	981	2 159	49 592	407 236	772 920	1 173 485	60 246
325212	Synthetic rubber mfg	—	4	2	f	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg	—	24	10	1 051	37 698	725	1 619	18 840	170 797	204 253	379 585	7 746
32551	Paint & coating mfg	—	18	8	914	33 130	661	1 507	17 614	153 113	188 937	347 116	7 255
325510	Paint & coating mfg	—	18	8	914	33 130	661	1 507	17 614	153 113	188 937	347 116	7 255
3256	Soap, cleaning compound, & toilet preparation mfg ..	2	34	8	732	18 042	431	654	8 751	115 519	120 100	239 450	4 339
32561	Soap & cleaning compound mfg	2	27	7	f	D	D	D	D	D	D	D	D
3259	Other chemical product mfg	4	41	13	804	26 503	505	978	14 456	126 657	115 066	241 592	22 718
32599	All other chemical product & preparation mfg	4	37	13	753	24 673	475	915	13 363	120 340	99 428	219 621	22 290
326	Plastics & rubber products mfg	1	137	74	7 355	200 348	5 649	10 805	130 650	596 213	580 155	1 155 577	53 903
3261	Plastics product mfg	1	118	69	i	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg ..	—	26	12	1 639	46 191	1 178	2 349	29 477	177 400	175 827	350 226	13 612
326113	Unsupported plastics film & sheet (except packaging) mfg	—	9	5	977	33 218	579	1 216	20 066	143 642	128 702	269 287	D
32616	Plastics bottle mfg	—	7	6	f	D	D	D	D	D	D	D	D
326160	Plastics bottle mfg	—	7	6	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	65	40	4 005	103 804	3 136	5 622	68 373	286 754	234 538	505 049	26 865
326199	All other plastics product mfg	1	59	37	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	2	97	21	1 496	41 166	1 198	2 294	29 067	129 814	135 168	264 220	9 255
3273	Cement & concrete product mfg	2	43	11	768	22 861	642	1 247	17 432	76 292	86 493	161 658	6 793
331	Primary metal mfg	2	30	13	g	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	2	9	7	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	805	273	20 683	687 115	15 527	32 232	431 361	1 418 775	1 229 590	2 647 038	89 185
3321	Forging & stamping	1	26	16	g	D	D	D	D	D	D	D	9 933
33211	Forging & stamping	1	26	16	g	D	D	D	D	D	D	D	9 933
332114	Custom roll forming	—	9	8	f	D	D	D	D	D	D	D	D
332116	Metal stamping	5	10	5	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	1	166	58	4 199	122 695	3 134	6 294	71 591	224 317	284 805	506 726	9 587
33231	Plate work & fabricated structural product mfg ..	1	72	31	2 318	72 579	1 771	3 748	41 789	124 912	192 332	314 888	5 733
332311	Prefabricated metal building & component mfg	—	7	5	688	21 676	506	1 151	11 469	38 501	55 634	93 573	1 334
332312	Fabricated structural metal mfg	—	42	19	1 185	35 308	914	1 897	20 296	55 521	122 245	178 606	3 161
33232	Ornamental & architectural metal products mfg	1	94	27	1 881	50 116	1 363	2 546	29 802	99 405	92 473	191 838	3 854
332322	Sheet metal work mfg	2	51	16	1 007	27 598	773	1 507	16 908	53 028	37 442	90 229	2 263
3324	Boiler, tank, & shipping container mfg	—	34	25	1 926	70 533	1 348	3 062	44 976	136 046	168 808	313 311	5 875
33241	Power boiler & heat exchanger mfg	1	13	10	614	22 078	434	970	13 267	45 496	36 710	81 082	D
332410	Power boiler & heat exchanger mfg	1	13	10	614	22 078	434	970	13 267	45 496	36 710	81 082	D
33242	Metal tank (heavy gauge) mfg	—	15	11	779	29 292	527	1 136	19 852	45 558	42 849	89 409	2 697
332420	Metal tank (heavy gauge) mfg	—	15	11	779	29 292	527	1 136	19 852	45 558	42 849	89 409	2 697
33243	Metal can, box, & other metal container (light gauge) mfg	—	6	4	533	19 163	387	956	11 857	44 992	89 249	142 820	D
3326	Spring & wire product mfg ..	—	21	8	f	D	D	D	D	D	D	D	2 912
33261	Spring & wire product mfg	—	21	8	f	D	D	D	D	D	D	D	2 912

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	HOUSTON, TX *—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	328	73	5 029	181 221	3 876	7 958	121 774	341 161	164 504	501 859	32 055
33271	Machine shops	2	289	59	4 225	154 779	3 258	6 719	104 700	294 669	128 882	420 512	23 463
332710	Machine shops	2	289	59	4 225	154 779	3 258	6 719	104 700	294 669	128 882	420 512	23 463
33272	Turned product & screw, nut, & bolt mfg	2	39	14	804	26 442	618	1 239	17 074	46 492	35 622	81 347	8 592
3328	Coating, engraving, heat treating, & allied activities .	1	95	37	2 686	86 429	2 188	4 572	57 119	198 529	115 047	311 711	11 072
33281	Coating, engraving, heat treating, & allied activities	1	95	37	2 686	86 429	2 188	4 572	57 119	198 529	115 047	311 711	11 072
332811	Metal heat treating	1	16	7	762	22 739	649	1 094	15 194	53 130	13 617	66 792	2 918
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	1	37	14	1 052	35 407	858	1 964	24 091	92 690	85 219	175 896	5 709
332813	Electroplating, plating, polishing, anodizing, & coloring	2	42	16	872	28 283	681	1 514	17 834	52 709	16 211	69 023	2 445
3329	Other fabricated metal product mfg	1	126	56	4 546	152 201	3 231	6 688	90 038	354 817	282 382	634 198	17 644
33291	Metal valve mfg	2	52	28	2 297	72 428	1 546	3 296	40 505	175 264	146 855	319 292	9 284
332911	Industrial valve mfg	1	19	12	993	34 230	669	1 408	17 587	84 906	57 533	139 951	5 145
332919	Other metal valve & pipe fitting mfg	3	24	14	1 196	33 664	790	1 744	20 603	68 531	83 632	152 573	3 809
33299	All other fabricated metal product mfg	—	74	28	2 249	79 773	1 685	3 392	49 533	179 553	135 527	314 906	8 360
332996	Fabricated pipe & pipe fitting mfg	1	27	12	f	D	D	D	D	D	D	D	3 123
332999	All other miscellaneous fabricated metal product mfg	—	33	13	1 050	43 204	734	1 391	25 967	105 924	59 424	165 317	4 695
333	Machinery mfg	—	266	106	16 707	649 409	10 108	21 314	340 968	1 963 533	2 043 471	3 914 018	156 333
3331	Agriculture, construction, & mining machinery mfg . . .	—	84	44	7 681	357 475	4 788	10 067	177 755	886 016	574 343	1 351 727	89 936
33312	Construction machinery mfg	1	9	5	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	1	9	5	f	D	D	D	D	D	D	D	D
33313	Mining & oil & gas field machinery mfg	—	73	39	7 099	337 054	4 400	9 278	167 088	867 060	528 012	1 284 349	87 389
333132	Oil & gas field machinery & equipment mfg	—	70	37	i	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg . .	3	18	7	f	D	D	D	D	D	D	D	2 512
33329	Other industrial machinery mfg	3	15	7	567	18 016	291	556	8 038	26 870	41 789	67 979	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	24	10	2 138	63 582	1 484	2 857	40 839	316 674	415 058	770 189	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	24	10	2 138	63 582	1 484	2 857	40 839	316 674	415 058	770 189	D
333415	AC & warm air heating & commercial/industrial refrig equip mfg	—	13	7	g	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	3	34	6	562	17 330	439	796	11 644	48 514	17 657	64 648	5 337
33351	Metalworking machinery mfg	3	34	6	562	17 330	439	796	11 644	48 514	17 657	64 648	5 337
3336	Engine, turbine, & power transmission equipment mfg	—	11	5	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg	—	11	5	g	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg	—	3	2	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	—	81	30	3 356	131 061	1 955	4 294	61 629	412 055	622 468	960 690	15 883
33391	Pump & compressor mfg	—	25	11	1 154	41 860	751	1 650	21 302	114 948	136 748	235 980	3 723
333911	Pump & pumping equipment mfg	1	16	6	f	D	D	D	D	D	D	D	2 420
333912	Air & gas compressor mfg	—	8	5	544	17 950	391	904	9 937	70 805	52 860	117 244	D
33392	Material handling equipment mfg	—	18	6	1 037	46 416	542	1 346	19 033	212 629	440 087	594 382	6 665
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	—	4	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)				
	HOUSTON, TX *—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3339	Other general-purpose machinery mfg—Con.												
33399	All other general-purpose machinery mfg	2	38	13	1 165	42 785	662	1 298	21 294	84 478	45 633	130 328	5 495
334	Computer & electronic product mfg	—	157	59	12 490	496 265	8 404	13 034	200 462	2 823 625	5 683 801	8 663 903	38 204
3341	Computer & peripheral equipment mfg	—	21	8	i	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	—	21	8	i	D	D	D	D	D	D	D	D
334111	Electronic computer mfg	—	12	3	i	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	4	32	12	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	4	32	12	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	1	87	38	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	1	87	38	h	D	D	D	D	D	D	D	D
334513	Industrial process control instrument mfg	1	28	13	f	D	D	D	D	D	D	D	2 660
334519	Other measuring & controlling device mfg	—	14	8	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	2	72	24	3 080	105 065	2 088	4 479	53 723	229 228	285 530	517 382	11 176
3353	Electrical equipment mfg ..	1	38	12	g	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	1	38	12	g	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg	—	9	3	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	5	22	9	f	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	7	16	8	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment & component mfg	7	16	8	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	3	66	18	g	D	D	D	D	D	D	D	9 655
3363	Motor vehicle parts mfg ...	6	30	7	f	D	D	D	D	D	D	D	3 250
3366	Ship & boat building	—	16	4	f	D	D	D	D	D	D	D	5 830
33661	Ship & boat building	—	16	4	f	D	D	D	D	D	D	D	5 830
336611	Ship building & repairing	—	15	4	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	106	27	2 651	54 888	1 973	3 766	35 408	138 593	118 925	255 707	4 513
3371	Household & institutional furniture & kitchen cabinet mfg	4	71	9	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	5	48	7	599	10 018	422	685	6 576	22 264	21 118	43 048	858
3372	Office furniture (including fixtures) mfg	2	20	8	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	2	20	8	f	D	D	D	D	D	D	D	D
3379	Other furniture related product mfg	—	15	10	g	D	D	D	D	D	D	D	D
33792	Blind & shade mfg	—	6	4	f	D	D	D	D	D	D	D	D
337920	Blind & shade mfg	—	6	4	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	2	236	47	4 582	125 754	3 187	6 530	71 461	466 240	189 311	655 614	19 724
3391	Medical equipment & supplies mfg	1	87	14	1 702	50 217	1 300	2 519	29 792	274 090	71 812	345 692	8 648
33911	Medical equipment & supplies mfg	1	87	14	1 702	50 217	1 300	2 519	29 792	274 090	71 812	345 692	8 648
339113	Surgical appliance & supplies mfg	—	14	5	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)				
HOUSTON, TX *—Con.													
31-33	Manufacturing—Con.												
339	Miscellaneous mfg—Con.												
3399	Other miscellaneous mfg ..	3	149	33	2 880	75 537	1 887	4 011	41 669	192 150	117 499	309 922	11 076
33995	Sign mfg	3	58	8	524	14 989	357	671	7 736	34 167	16 046	50 185	922
339950	Sign mfg	3	58	8	524	14 989	357	671	7 736	34 167	16 046	50 185	922
33999	All other miscellaneous mfg	2	47	16	1 651	44 745	1 049	2 338	24 855	124 465	71 930	195 653	9 329
339991	Gasket, packing, & sealing device mfg...	2	19	12	1 243	37 827	789	1 903	20 714	97 958	59 057	156 201	8 691
HUMBLE, TX													
31-33	Manufacturing	1	34	11	745	25 211	496	1 146	14 806	57 767	28 199	82 110	6 661
HURST, TX													
31-33	Manufacturing	2	43	10	716	17 459	522	882	12 460	48 617	54 107	104 733	1 689
HUTCHINS, TX													
31-33	Manufacturing	-	13	6	670	19 371	496	1 004	12 865	77 044	30 930	104 861	1 901
INGLESIDE, TX													
31-33	Manufacturing	-	11	4	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	1	1	f	D	D	D	D	D	D	D	D
33231	Plate work & fabricated structural product mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal mfg	-	1	1	f	D	D	D	D	D	D	D	D
IOWA PARK, TX													
31-33	Manufacturing	-	6	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
3261	Plastics product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
326111	Unsupported plastics bag mfg	-	1	1	f	D	D	D	D	D	D	D	D
IRVING, TX													
31-33	Manufacturing	1	240	73	11 146	435 944	7 072	13 613	190 865	1 256 787	1 382 295	2 590 882	112 900
311	Food mfg	-	8	4	1 093	32 816	856	1 753	22 497	195 777	245 388	439 733	2 787
3119	Other food mfg	-	4	3	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
312	Beverage & tobacco product mfg	3	2	2	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	3	2	2	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	3	2	2	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg	3	2	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	1	55	13	1 023	37 275	699	1 381	19 428	88 109	95 479	181 549	8 198
3231	Printing & related support activities.....	1	55	13	1 023	37 275	699	1 381	19 428	88 109	95 479	181 549	8 198
32311	Printing	1	46	8	611	16 488	457	871	10 381	49 428	86 837	134 308	D
333	Machinery mfg	4	17	10	778	29 969	520	1 169	16 271	64 074	52 483	113 738	3 172

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
IRVING, TX—Con.													
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg.....	1	23	13	4 760	219 098	2 572	4 099	72 741	614 938	572 277	1 144 690	76 618
3344	Semiconductor & other electronic component mfg.....	—	15	9	2 816	100 246	1 857	3 097	42 280	265 414	287 553	532 964	D
33441	Semiconductor & other electronic component mfg.....	—	15	9	2 816	100 246	1 857	3 097	42 280	265 414	287 553	532 964	D
334413	Semiconductor & related device mfg...	—	2	2	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg.....	—	2	2	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	—	3	1	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	—	3	1	g	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	—	20	3	559	25 900	466	711	10 688	74 519	30 246	103 115	3 518
3391	Medical equipment & supplies mfg.....	—	10	2	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg.....	—	10	2	f	D	D	D	D	D	D	D	D
JACKSONVILLE, TX													
31-33	Manufacturing	1	54	30	2 511	54 814	2 101	4 455	39 981	141 924	109 428	255 669	14 755
333	Machinery mfg.....	—	9	5	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	2	4	2	f	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg.....	—	2	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg.....	—	2	1	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
KATY, TX *													
31-33	Manufacturing	1	35	9	536	15 383	395	687	8 905	42 723	43 759	84 097	2 980
KAUFMAN, TX													
31-33	Manufacturing	—	16	8	749	16 696	599	1 183	11 124	37 768	37 292	74 874	1 945
KENNEDALE, TX													
31-33	Manufacturing	2	43	5	567	16 933	410	722	9 779	52 595	27 711	79 492	1 942
KERRVILLE, TX													
31-33	Manufacturing	1	28	2	682	19 069	412	748	9 461	33 970	25 702	56 239	1 963
KILGORE, TX *													
31-33	Manufacturing	2	35	17	2 007	54 906	1 534	3 246	32 989	115 143	110 648	223 506	6 221
LANCASTER, TX													
31-33	Manufacturing	—	30	14	1 275	35 858	1 023	2 141	25 062	106 972	85 319	191 010	3 440

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
LA PORTE, TX														
31-33	Manufacturing	-	35	18	2 442	132 511	1 568	3 414	78 058	785 420	1 015 068	1 819 102	264 677	
325	Chemical mfg	-	13	9	g	D	D	D	D	D	D	D	262 904	
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	4	3		599	36 999	396	918	21 175	304 725	577 432	887 384	96 592
32521	Resin & synthetic rubber mfg	-	4	3		599	36 999	396	918	21 175	304 725	577 432	887 384	96 592
325211	Plastics material & resin mfg	-	4	3		599	36 999	396	918	21 175	304 725	577 432	887 384	96 592
3253	Pesticide, fertilizer, & other agricultural chemical mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
32532	Pesticide & other agricultural chemical mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
325320	Pesticide & other agricultural chemical mfg	-	1	1	f	D	D	D	D	D	D	D	D	D
LAREDO, TX														
31-33	Manufacturing	1	86	15	g	D	D	D	D	D	D	D	D	
LEWISVILLE, TX *														
31-33	Manufacturing	-	85	28	5 347	219 532	3 155	6 767	88 563	617 939	315 105	930 818	37 111	
332	Fabricated metal product mfg	-	16	9	730	19 674	551	1 143	12 687	48 559	58 857	105 649	1 489	
334	Computer & electronic product mfg	-	4	1	h	D	D	D	D	D	D	D	D	
3345	Navigational, measuring, medical, & control instruments mfg	-	1	1	h	D	D	D	D	D	D	D	D	
33451	Navigational, measuring, medical, & control instruments mfg	-	1	1	h	D	D	D	D	D	D	D	D	
334511	Search, detection, navigation, & guidance instrument mfg	-	1	1	h	D	D	D	D	D	D	D	D	
337	Furniture & related product mfg	1	7	3	820	15 949	707	1 588	10 968	23 716	18 343	42 616	2 877	
3372	Office furniture (including fixtures) mfg	1	3	3	784	15 273	678	1 534	10 459	22 527	17 528	40 599	2 839	
33721	Office furniture (including fixtures) mfg	1	3	3	784	15 273	678	1 534	10 459	22 527	17 528	40 599	2 839	
337215	Showcase, partition, shelving, & locker mfg	1	3	3	784	15 273	678	1 534	10 459	22 527	17 528	40 599	2 839	
LONGVIEW, TX *														
31-33	Manufacturing	-	135	55	10 208	374 781	7 476	14 850	236 436	1 249 706	1 830 941	3 074 284	157 185	
325	Chemical mfg	-	4	4	h	D	D	D	D	D	D	D	D	
3251	Basic chemical mfg	-	2	2	g	D	D	D	D	D	D	D	D	
32519	Other basic organic chemical mfg	-	1	1	g	D	D	D	D	D	D	D	D	
325199	All other basic organic chemical mfg	-	1	1	g	D	D	D	D	D	D	D	D	
332	Fabricated metal product mfg	1	37	13	1 576	49 363	1 294	2 683	35 308	94 707	164 422	258 422	D	
3324	Boiler, tank, & shipping container mfg	-	5	5	f	D	D	D	D	D	D	D	D	
33242	Metal tank (heavy gauge) mfg	-	4	4	f	D	D	D	D	D	D	D	D	
332420	Metal tank (heavy gauge) mfg	-	4	4	f	D	D	D	D	D	D	D	D	
333	Machinery mfg	1	15	13	2 598	80 329	1 856	3 688	55 291	129 976	196 144	319 601	D	
3331	Agriculture, construction, & mining machinery mfg	-	4	3	g	D	D	D	D	D	D	D	D	
33312	Construction machinery mfg	-	1	1	g	D	D	D	D	D	D	D	D	
333120	Construction machinery mfg	-	1	1	g	D	D	D	D	D	D	D	D	
336	Transportation equipment mfg	-	10	5	1 335	40 175	1 093	2 384	28 550	127 959	289 603	415 719	D	

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LUBBOCK, TX													
31-33	Manufacturing	-	210	58	6 357	182 339	4 331	8 479	86 796	828 864	644 966	1 464 997	138 702
311	Food mfg	-	27	11	1 438	41 533	888	1 952	20 207	143 027	274 248	417 054	D
326	Plastics & rubber products mfg	-	8	2	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	4	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	34	7	582	15 222	405	781	8 737	50 286	49 794	95 170	D
333	Machinery mfg	-	25	14	1 623	42 639	1 224	2 560	24 073	93 887	144 312	234 560	5 660
3331	Agriculture, construction, & mining machinery mfg....	-	6	3	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	9	6	683	17 229	486	1 042	10 303	27 675	59 927	87 765	2 798
334	Computer & electronic product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	1	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	1	1	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
LUFKIN, TX													
31-33	Manufacturing	-	52	16	5 006	120 105	4 347	10 614	96 464	283 175	480 160	763 217	29 953
311	Food mfg	-	7	4	2 078	33 321	1 917	5 443	27 480	94 954	229 236	322 736	D
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	-	1	1	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	3	3	1 194	33 779	1 004	2 085	29 371	62 829	64 326	126 667	4 242
3315	Foundries	-	3	3	1 194	33 779	1 004	2 085	29 371	62 829	64 326	126 667	4 242
33151	Ferrous metal foundries ..	-	2	2	g	D	D	D	D	D	D	D	D
331511	Iron foundries	-	2	2	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	4	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
33391	Pump & compressor mfg	-	1	1	f	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
MCALLEN, TX													
31-33	Manufacturing	1	100	29	3 709	69 549	2 779	4 782	43 137	260 836	246 967	511 395	24 068
311	Food mfg	3	15	5	568	9 002	456	712	6 219	38 860	41 188	84 174	3 860
315	Apparel mfg	-	6	3	925	12 281	767	1 194	6 846	23 742	31 049	54 705	488
3152	Cut & sew apparel mfg	-	6	3	925	12 281	767	1 194	6 846	23 742	31 049	54 705	488
31523	Women's & girls' cut & sew apparel mfg	-	2	2	f	D	D	D	D	D	D	D	D
MCKINNEY, TX													
31-33	Manufacturing	-	48	22	4 537	203 996	2 729	5 993	87 430	720 084	592 847	1 327 855	58 570
332	Fabricated metal product mfg	-	6	3	f	D	D	D	D	D	D	D	6 131
3329	Other fabricated metal product mfg	-	2	2	f	D	D	D	D	D	D	D	D
33291	Metal valve mfg	-	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	8	5	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	2	2	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	2	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

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
MANSFIELD, TX *													
31-33	Manufacturing	2	70	37	2 715	77 869	2 113	4 252	50 194	180 286	257 501	434 494	13 240
332	Fabricated metal product mfg	-	13	7	510	17 837	432	983	12 984	43 111	45 932	88 075	2 284
MARSHALL, TX													
31-33	Manufacturing	3	53	19	1 407	29 465	1 102	2 016	20 466	105 716	116 317	223 191	D
MERCEDES, TX													
31-33	Manufacturing	-	11	3	534	7 578	413	747	5 076	14 677	35 916	50 733	D
MESQUITE, TX													
31-33	Manufacturing	-	72	23	3 338	111 121	2 395	4 632	68 052	739 695	418 378	1 147 294	32 895
334	Computer & electronic product mfg	-	2	1	g	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
33421	Telephone apparatus mfg	-	1	1	g	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg	-	1	1	g	D	D	D	D	D	D	D	D
MIDLAND, TX *													
31-33	Manufacturing	3	73	12	901	32 391	461	776	9 995	77 473	41 970	119 109	2 876
MIDLOTHIAN, TX													
31-33	Manufacturing	-	17	6	1 774	70 025	1 360	3 029	48 360	425 322	487 774	939 073	79 528
327	Nonmetallic mineral product mfg	-	6	5	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	1	1	g	D	D	D	D	D	D	D	D
3311	Iron & steel mills & ferroalloy mfg	-	1	1	g	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	1	1	g	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	1	1	g	D	D	D	D	D	D	D	D
MINERAL WELLS, TX *													
31-33	Manufacturing	2	31	15	1 060	25 740	736	1 338	15 664	74 625	50 997	124 619	11 502
MISSION, TX													
31-33	Manufacturing	1	27	5	1 176	22 100	1 050	2 008	18 542	88 371	89 491	177 934	3 940
315	Apparel mfg	-	3	1	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	2	1	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	-	1	1	f	D	D	D	D	D	D	D	D
MISSOURI CITY, TX *													
31-33	Manufacturing	-	18	6	675	28 315	480	835	17 180	75 115	83 685	163 417	1 493
MOUNT PLEASANT, TX													
31-33	Manufacturing	-	29	14	4 544	97 011	4 225	9 738	86 636	178 062	643 541	819 987	5 758
311	Food mfg	-	8	7	h	D	D	D	D	D	D	D	3 402
3116	Meat product mfg	-	4	4	h	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	4	4	h	D	D	D	D	D	D	D	D
311615	Poultry processing	-	3	3	h	D	D	D	D	D	D	D	D
NACOGDOCHES, TX													
31-33	Manufacturing	1	36	18	3 101	92 493	2 507	5 230	67 758	232 756	480 406	719 591	18 606
311	Food mfg	-	6	5	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
NAVASOTA, TX													
31-33	Manufacturing	-	11	5	f	D	D	D	D	D	D	D	1 244
NEW BRAUNFELS, TX *													
31-33	Manufacturing	-	59	23	3 525	86 238	2 726	5 359	54 129	274 768	179 702	449 858	16 687
313	Textile mills	-	1	1	f	D	D	D	D	D	D	D	D
3132	Fabric mills	-	1	1	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills	-	1	1	f	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	4	3	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	4	3	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	3	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	3	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	10	5	524	10 762	361	780	6 506	33 731	31 786	64 358	D
339	Miscellaneous mfg	1	9	5	552	13 000	399	833	7 712	23 921	11 236	33 193	4 120
NORTH RICHLAND HILLS, TX													
31-33	Manufacturing	-	33	9	1 980	59 445	1 478	2 990	29 342	233 129	173 141	405 301	19 680
315	Apparel mfg	-	2	1	g	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg	-	2	1	g	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	-	2	1	g	D	D	D	D	D	D	D	D
315999	Other apparel accessories & other apparel mfg	-	2	1	g	D	D	D	D	D	D	D	D
ODESSA, TX *													
31-33	Manufacturing	1	120	28	1 886	62 107	1 366	2 737	38 629	201 812	556 767	758 905	17 857
332	Fabricated metal product mfg	1	38	9	646	19 833	473	986	11 534	47 455	32 175	79 867	1 963
ORANGE, TX													
31-33	Manufacturing	1	31	12	1 842	80 964	1 333	2 710	49 646	377 681	377 984	750 802	33 601
325	Chemical mfg	-	6	6	g	D	D	D	D	D	D	D	28 892
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	4	4	f	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg	-	4	4	f	D	D	D	D	D	D	D	D
325212	Synthetic rubber mfg	-	2	2	f	D	D	D	D	D	D	D	D
PALESTINE, TX													
31-33	Manufacturing	-	22	6	667	13 879	566	1 086	10 189	48 160	53 130	98 523	1 330

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
PARIS, TX													
31-33	Manufacturing	-	44	19	4 585	156 988	3 839	8 228	122 180	1 329 043	708 996	2 032 280	54 472
311	Food mfg	-	6	3	g	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
311422	Specialty canning	-	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	3	1	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	3	1	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	2	2	g	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	2	2	g	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	-	1	1	f	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	9	5	f	D	D	D	D	D	D	D	D
3324	Boiler, tank, & shipping container mfg	-	2	2	f	D	D	D	D	D	D	D	D
33241	Power boiler & heat exchanger mfg	-	1	1	f	D	D	D	D	D	D	D	D
332410	Power boiler & heat exchanger mfg	-	1	1	f	D	D	D	D	D	D	D	D
PASADENA, TX													
31-33	Manufacturing	-	100	39	5 905	270 665	4 111	9 078	155 506	1 434 970	3 488 799	4 893 445	276 176
311	Food mfg	-	5	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
311412	Frozen specialty food mfg	-	1	1	f	D	D	D	D	D	D	D	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
325	Chemical mfg	-	23	19	3 005	164 801	1 802	3 641	83 056	1 138 352	2 423 438	3 532 647	237 412
3251	Basic chemical mfg	-	14	11	1 866	99 932	1 311	2 570	55 123	681 736	1 213 951	1 888 992	D
32519	Other basic organic chemical mfg	-	7	6	1 438	77 066	1 037	1 986	38 854	497 314	870 749	1 367 380	87 823
325199	All other basic organic chemical mfg	-	6	5	g	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	5	5	g	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg	-	5	5	g	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg	-	5	5	g	D	D	D	D	D	D	D	D
PEARLAND, TX *													
31-33	Manufacturing	4	57	12	793	21 786	605	1 198	14 102	39 435	38 010	76 472	3 320
PECOS, TX													
31-33	Manufacturing	-	4	1	f	D	D	D	D	D	D	D	D
311	Food mfg	-	2	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
PLAINVIEW, TX													
31-33	Manufacturing	-	21	10	g	D	D	D	D	D	D	D	16 128
311	Food mfg	-	9	6	g	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	3	3	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	3	3	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	-	1	1	g	D	D	D	D	D	D	D	D

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	PLANO, TX *												
31-33	Manufacturing	-	124	29	8 614	448 558	4 460	9 584	151 027	1 478 608	1 115 255	2 547 517	58 891
323	Printing & related support activities.....	-	21	5	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	-	21	5	f	D	D	D	D	D	D	D	D
32311	Printing	-	19	4	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	9	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	-	27	12	5 911	361 947	2 426	5 285	91 842	1 202 066	664 852	1 820 074	D
3342	Communications equipment mfg.....	-	9	5	h	D	D	D	D	D	D	D	D
33421	Telephone apparatus mfg.....	-	6	5	h	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg.....	-	6	5	h	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	-	7	4	767	36 934	597	1 231	24 578	33 258	78 186	112 256	D
33441	Semiconductor & other electronic component mfg.....	-	7	4	767	36 934	597	1 231	24 578	33 258	78 186	112 256	D
334419	Other electronic component mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
	PORT ARTHUR, TX												
31-33	Manufacturing	-	33	14	3 915	234 894	2 799	6 475	159 348	1 454 445	5 223 001	6 712 233	217 057
324	Petroleum & coal products mfg.....	-	4	4	h	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg.....	-	4	4	h	D	D	D	D	D	D	D	D
32411	Petroleum refineries	-	3	3	h	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	-	3	3	h	D	D	D	D	D	D	D	D
325	Chemical mfg.....	-	5	3	f	D	D	D	D	D	D	D	D
	PORT NECHES, TX												
31-33	Manufacturing	2	16	4	1 251	69 270	974	3 011	52 734	627 138	793 887	1 425 330	D
325	Chemical mfg.....	3	4	2	f	D	D	D	D	D	D	D	D
3251	Basic chemical mfg.....	3	4	2	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg.....	3	2	1	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg.....	3	2	1	f	D	D	D	D	D	D	D	D
	RICHARDSON, TX *												
31-33	Manufacturing	-	179	51	11 246	444 453	5 049	8 888	121 498	1 883 412	1 499 784	3 350 472	247 144
334	Computer & electronic product mfg.....	-	63	29	9 398	376 724	3 795	6 373	87 252	1 704 466	1 376 598	3 046 943	235 872
3341	Computer & peripheral equipment mfg.....	-	5	2	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg.....	-	5	2	f	D	D	D	D	D	D	D	D
334111	Electronic computer mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg.....	-	16	9	i	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg.....	-	10	8	4 608	183 752	1 392	1 834	33 645	1 199 702	898 000	2 078 155	120 514
334220	Radio & TV broadcasting & wireless communications equipment mfg.....	-	10	8	4 608	183 752	1 392	1 834	33 645	1 199 702	898 000	2 078 155	120 514
3344	Semiconductor & other electronic component mfg.....	-	24	11	2 984	91 060	1 744	3 245	30 237	217 413	356 139	584 379	95 594
33441	Semiconductor & other electronic component mfg.....	-	24	11	2 984	91 060	1 744	3 245	30 237	217 413	356 139	584 379	95 594
334413	Semiconductor & related device mfg...	-	8	4	1 922	54 740	1 125	2 106	16 630	93 692	121 461	226 633	D
334418	Printed circuit assembly (electronic assembly) mfg.....	-	6	4	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	-	15	6	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	-	15	6	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)				
ROCKWALL, TX													
31-33	Manufacturing	3	36	9	715	20 047	516	1 055	12 355	50 660	47 015	97 154	D
ROSENBERG, TX													
31-33	Manufacturing	2	26	7	899	41 999	672	1 736	23 852	154 345	113 557	266 742	16 961
ROUND ROCK, TX *													
31-33	Manufacturing	-	69	30	i	D	D	D	D	D	D	D	55 391
334	Computer & electronic product mfg.....	-	14	10	h	D	D	D	D	D	D	D	38 644
3341	Computer & peripheral equipment mfg	-	4	4	h	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	-	4	4	h	D	D	D	D	D	D	D	D
334111	Electronic computer mfg	-	1	1	h	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	-	3	3	f	D	D	D	D	D	D	D	D
ROWLETT, TX *													
31-33	Manufacturing	4	44	9	771	20 313	581	1 128	12 949	33 283	29 200	62 597	3 220
SAGINAW, TX													
31-33	Manufacturing	1	32	15	1 457	39 124	1 218	2 420	25 131	97 195	345 563	437 099	6 687
SAN ANGELO, TX													
31-33	Manufacturing	2	85	26	4 323	101 844	3 480	6 984	72 742	353 578	452 832	803 403	9 691
311	Food mfg.....	7	14	6	f	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	7	5	3	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	7	5	3	f	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	7	4	3	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	6	5	638	12 189	596	1 142	11 299	40 695	27 754	68 317	591
3152	Cut & sew apparel mfg	-	3	3	f	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	8	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	14	2	g	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	-	5	1	g	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	5	1	g	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument 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)				
SAN ANTONIO, TX													
31-33	Manufacturing	1	953	261	32 870	911 606	23 027	45 409	494 247	2 552 048	2 656 154	5 199 676	228 347
311	Food mfg	-	117	31	4 673	113 341	2 979	5 580	58 687	498 703	650 574	1 149 656	34 562
3115	Dairy product mfg	-	6	4	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	9	4	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	9	4	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	58	11	g	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	49	9	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries	-	10	5	g	D	D	D	D	D	D	D	D
3119	Other food mfg	-	24	8	g	D	D	D	D	D	D	D	D
31194	Seasoning & dressing mfg	-	3	2	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	1	14	10	g	D	D	D	D	D	D	D	D
3121	Beverage mfg	1	13	9	g	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	-	9	7	g	D	D	D	D	D	D	D	D
312111	Soft drink mfg	-	5	5	1 338	43 942	489	1 146	11 199	248 426	218 051	469 290	17 035
314	Textile product mills	-	18	6	g	D	D	D	D	D	D	D	1 310
3141	Textile furnishings mills	-	8	2	g	D	D	D	D	D	D	D	D
31412	Curtain & linen mills	-	8	2	g	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills	-	7	1	g	D	D	D	D	D	D	D	D
315	Apparel mfg	-	31	5	1 324	22 014	1 212	2 071	19 233	75 085	51 379	126 419	1 334
3152	Cut & sew apparel mfg	-	21	3	f	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	-	3	1	f	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	-	2	1	f	D	D	D	D	D	D	D	D
316	Leather & allied product mfg	-	11	7	f	D	D	D	D	D	D	D	D
3162	Footwear mfg	-	3	2	f	D	D	D	D	D	D	D	D
31621	Footwear mfg	-	3	2	f	D	D	D	D	D	D	D	D
316214	Women's footwear (except athletic) mfg	-	3	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg	4	28	8	f	D	D	D	D	D	D	D	3 106
3219	Other wood product mfg	4	27	8	f	D	D	D	D	D	D	D	D
32191	Millwork	4	13	5	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	15	9	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	15	9	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	9	7	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	2	158	27	g	D	D	D	D	D	D	D	10 000
3231	Printing & related support activities	2	158	27	g	D	D	D	D	D	D	D	10 000
32311	Printing	2	143	25	g	D	D	D	D	D	D	D	9 498
323110	Commercial lithographic printing	2	79	15	g	D	D	D	D	D	D	D	5 586
325	Chemical mfg	1	34	8	759	25 834	455	866	12 128	117 503	76 641	199 096	D
326	Plastics & rubber products mfg	5	41	13	1 961	53 791	1 443	2 919	30 492	98 470	108 153	202 286	D
3261	Plastics product mfg	5	32	10	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	3	20	6	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	3	18	6	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	1	41	10	742	22 203	583	1 250	14 281	85 493	63 614	149 779	11 088
3273	Cement & concrete product mfg	-	22	8	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	4	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	115	32	1 939	51 608	1 484	3 026	31 865	103 923	92 168	196 347	6 646
3323	Architectural & structural metals mfg	-	42	13	f	D	D	D	D	D	D	D	2 186
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	44	10	525	13 228	411	737	9 203	26 304	11 562	37 746	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)				
	SAN ANTONIO, TX— Con.												
31-33	Manufacturing— Con.												
333	Machinery mfg	1	36	15	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	11	6	1 411	36 096	1 104	2 019	22 914	83 731	140 944	221 850	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	—	11	6	1 411	36 096	1 104	2 019	22 914	83 731	140 944	221 850	D
333415	AC & warm air heating & commercial industrial refrig equip mfg	—	8	6	1 406	35 990	1 100	2 014	22 859	83 474	140 733	221 376	D
3339	Other general-purpose machinery mfg	3	9	5	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	34	12	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	8	6	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	—	8	6	g	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	—	2	2	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	3	16	6	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	3	48	16	h	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	3	20	11	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	3	20	11	g	D	D	D	D	D	D	D	D
336411	Aircraft mfg	3	5	4	1 676	82 594	1 237	3 043	43 339	115 697	115 410	223 805	D
337	Furniture & related product mfg	1	58	19	1 990	42 692	1 594	3 981	31 488	85 593	87 071	172 833	7 358
3371	Household & institutional furniture & kitchen cabinet mfg	1	37	10	1 559	33 467	1 250	3 285	25 222	66 509	68 296	134 876	6 603
33711	Wood kitchen cabinet & counter top mfg	1	22	7	1 270	27 103	1 022	2 852	20 673	56 734	57 456	114 274	5 749
337110	Wood kitchen cabinet & counter top mfg ...	1	22	7	1 270	27 103	1 022	2 852	20 673	56 734	57 456	114 274	5 749
339	Miscellaneous mfg	1	123	20	2 675	60 911	1 725	3 053	33 219	138 173	136 198	269 073	5 541
3391	Medical equipment & supplies mfg	—	50	9	1 462	32 335	856	1 391	16 838	67 207	80 821	141 755	D
33911	Medical equipment & supplies mfg	—	50	9	1 462	32 335	856	1 391	16 838	67 207	80 821	141 755	D
339115	Ophthalmic goods mfg	—	3	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	1	73	11	1 213	28 576	869	1 662	16 381	70 966	55 377	127 318	D
	SAN BENITO, TX												
31-33	Manufacturing	—	18	7	808	13 904	720	1 360	11 892	63 530	62 178	122 696	1 761
	SAN MARCOS, TX *												
31-33	Manufacturing	—	42	19	1 972	54 047	1 305	2 415	26 467	122 874	124 703	245 663	13 698
332	Fabricated metal product mfg	1	7	4	500	11 903	386	889	8 085	30 283	51 450	82 466	1 906
335	Electrical equipment, appliance, & component mfg	—	4	4	f	D	D	D	D	D	D	D	D

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)				
SEGUIN, TX													
31-33	Manufacturing	-	43	17	3 365	84 055	2 438	3 974	51 545	450 670	467 315	918 637	26 160
311	Food mfg	-	5	2	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	3	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	3	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	1	1	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
SHERMAN, TX													
31-33	Manufacturing	-	58	22	6 992	274 391	5 265	10 821	159 925	1 681 085	993 553	2 672 032	188 875
311	Food mfg	-	11	5	1 227	42 020	1 131	2 462	35 962	625 720	444 937	1 068 401	12 775
3116	Meat product mfg	-	2	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	2	1	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	-	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	3	1	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .	-	1	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	1	1	f	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	3	3	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	5	3	h	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	3	2	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	3	2	g	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	-	2	2	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	1	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	1	1	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	3	1	f	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	-	2	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	2	1	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
SILSBEE, TX													
31-33	Manufacturing	1	11	6	579	18 757	462	1 219	13 044	34 513	62 707	96 206	D
SOUTH HOUSTON, TX													
31-33	Manufacturing	2	52	9	711	21 770	572	998	14 139	46 164	32 318	78 365	3 268

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)				
STAFFORD, TX *													
31-33	Manufacturing	-	110	36	5 404	206 372	2 561	4 562	55 924	664 156	266 137	926 759	73 226
332	Fabricated metal product mfg	-	33	14	g	D	D	D	D	D	D	D	8 491
3329	Other fabricated metal product mfg	-	9	7	1 001	21 520	486	627	8 649	78 041	58 012	139 889	5 115
33291	Metal valve mfg	-	6	5	f	D	D	D	D	D	D	D	D
33291 1	Industrial valve mfg ...	-	3	3	f	D	D	D	D	D	D	D	4 459
334	Computer & electronic product mfg	-	17	5	h	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
3344	Semiconductor & other electronic component mfg	-	5	1	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	5	1	g	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	-	3	1	g	D	D	D	D	D	D	D	D
STEPHENVILLE, TX													
31-33	Manufacturing	-	29	7	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32791	Abrasive product mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
327910	Abrasive product mfg .	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	8	2	630	17 723	376	941	8 990	47 939	80 674	129 067	5 071
SUGAR LAND, TX													
31-33	Manufacturing	-	40	18	2 703	105 344	1 691	3 741	56 438	414 019	580 041	983 389	37 849
311	Food mfg	-	3	1	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg	-	1	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
335	Electrical equipment, appliance, & component mfg	-	5	4	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	2	2	f	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg	-	2	2	f	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg ...	-	2	2	f	D	D	D	D	D	D	D	D
SULPHUR SPRINGS, TX													
31-33	Manufacturing	-	32	13	1 277	37 198	940	2 026	24 382	216 431	284 527	498 818	18 209
SWEETWATER, TX													
31-33	Manufacturing	-	11	5	560	11 339	392	722	7 510	55 367	36 236	66 822	3 130
TAYLOR, TX													
31-33	Manufacturing	5	19	12	1 304	26 793	1 058	2 056	19 159	92 223	54 203	144 475	4 711
339	Miscellaneous mfg	9	4	3	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	9	3	3	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	9	2	2	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg	9	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)				
TEMPLE, TX													
31-33	Manufacturing	-	59	32	5 515	182 965	4 332	10 050	131 634	596 066	571 827	1 164 662	31 852
326	Plastics & rubber products mfg	-	9	6	2 624	111 611	2 162	5 870	85 641	404 938	318 718	722 977	D
3261	Plastics product mfg	-	8	6	h	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
326111	Unsupported plastics bag mfg	-	1	1	f	D	D	D	D	D	D	D	D
32613	Laminated plastics plate, sheet, & shape mfg	-	2	2	g	D	D	D	D	D	D	D	D
326130	Laminated plastics plate, sheet, & shape mfg	-	2	2	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	6	4	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	8	5	1 130	22 579	833	1 326	14 707	42 182	54 727	96 444	3 093
3371	Household & institutional furniture & kitchen cabinet mfg	-	4	3	g	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	-	2	2	f	D	D	D	D	D	D	D	D
337127	Institutional furniture mfg	-	2	2	f	D	D	D	D	D	D	D	D
TERRELL, TX													
31-33	Manufacturing	-	32	15	2 490	77 267	1 844	3 699	42 186	165 947	133 624	297 819	7 286
332	Fabricated metal product mfg	-	8	4	897	27 239	599	1 180	15 150	23 452	63 764	86 762	1 920
3323	Architectural & structural metals mfg	-	3	1	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	-	3	1	f	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	4	1	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	-	1	1	f	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	-	1	1	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, & locker mfg	-	1	1	f	D	D	D	D	D	D	D	D
TEXARKANA, TX													
31-33	Manufacturing	1	49	15	2 717	90 286	2 097	4 352	61 170	289 887	313 046	608 268	D
322	Paper mfg	-	4	2	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32213	Paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
322130	Paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	12	3	667	20 523	491	1 063	10 030	21 604	24 920	47 166	380
TEXAS CITY, TX *													
31-33	Manufacturing	1	27	14	5 408	327 226	3 569	8 697	213 115	1 632 210	7 286 810	8 921 993	173 989
324	Petroleum & coal products mfg	2	3	3	g	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	2	3	3	g	D	D	D	D	D	D	D	D
32411	Petroleum refineries	2	3	3	g	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	2	3	3	g	D	D	D	D	D	D	D	D
325	Chemical mfg	-	8	6	h	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	-	8	6	h	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	-	5	4	h	D	D	D	D	D	D	D	D
325192	Cyclic crude & intermediate mfg	-	1	1	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	-	4	3	g	D	D	D	D	D	D	D	D
TOMBALL, TX *													
31-33	Manufacturing	3	25	7	503	14 943	395	764	9 491	31 190	36 281	67 680	4 960

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)				
TYLER, TX													
31-33	Manufacturing	-	115	38	9 228	338 968	7 143	14 827	237 136	996 129	1 066 708	2 068 836	42 385
311	Food mfg	1	10	5	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	10	8	g	D	D	D	D	D	D	D	5 849
3262	Rubber product mfg	-	5	5	g	D	D	D	D	D	D	D	D
32621	Tire mfg	-	2	2	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	1	1	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	1	1	g	D	D	D	D	D	D	D	D
3315	Foundries	-	1	1	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	-	1	1	g	D	D	D	D	D	D	D	D
331511	Iron foundries	-	1	1	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	11	5	h	D	D	D	D	D	D	D	16 819
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	3	3	h	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	3	3	h	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refig equip mfg	-	3	3	h	D	D	D	D	D	D	D	D
UVALDE, TX													
31-33	Manufacturing	6	8	2	f	D	D	D	D	D	D	D	D
VERNON, TX													
31-33	Manufacturing	-	9	3	681	19 792	552	1 496	14 881	99 949	142 695	236 709	1 150
311	Food mfg	-	3	1	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	2	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	2	1	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	-	2	1	f	D	D	D	D	D	D	D	D
VICTORIA, TX													
31-33	Manufacturing	-	60	14	2 765	110 995	2 040	4 316	76 486	569 184	630 545	1 195 526	96 757
325	Chemical mfg	-	5	2	g	D	D	D	D	D	D	D	D
3251	Basic chemical mfg	-	2	1	g	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg	-	1	1	g	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg	-	1	1	g	D	D	D	D	D	D	D	D
WACO, TX													
31-33	Manufacturing	-	177	83	14 884	444 333	10 629	21 641	268 888	1 987 836	1 636 453	3 608 252	66 187
311	Food mfg	-	11	6	h	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg	-	1	1	f	D	D	D	D	D	D	D	D
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
3116	Meat product mfg	-	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	2	2	g	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	g	D	D	D	D	D	D	D	D
321	Wood product mfg	-	11	7	g	D	D	D	D	D	D	D	D
3219	Other wood product mfg	-	10	6	g	D	D	D	D	D	D	D	D
32199	All other wood product mfg	-	5	5	g	D	D	D	D	D	D	D	D
321991	Manufactured home (mobile home) mfg	-	5	5	g	D	D	D	D	D	D	D	D
322	Paper mfg	-	10	8	g	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	10	8	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	7	5	745	20 662	575	1 402	15 108	59 736	92 333	149 637	10 785
322211	Corrugated & solid fiber box mfg	-	6	4	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	35	9	783	18 589	604	1 115	12 629	44 913	28 779	73 485	1 525
3231	Printing & related support activities	1	35	9	783	18 589	604	1 115	12 629	44 913	28 779	73 485	1 525
32311	Printing	1	31	8	722	17 700	554	1 037	12 019	43 542	28 412	71 736	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)				
WACO, TX—Con.													
31-33	Manufacturing—Con.												
325	Chemical mfg	-	3	2	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
325412	Pharmaceutical preparation mfg	-	2	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	10	8	760	28 830	665	1 304	23 767	92 691	83 910	177 902	2 557
332	Fabricated metal product mfg	1	23	10	1 187	40 908	818	1 735	25 831	107 977	113 994	223 363	6 043
333	Machinery mfg	-	12	8	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	1	5	3	f	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D
333923	Overhead traveling crane, hoist, & monorail system mfg	-	3	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	6	4	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
336411	Aircraft mfg	-	1	1	g	D	D	D	D	D	D	D	D
WAXAHACHIE, TX													
31-33	Manufacturing	-	44	20	3 311	104 301	2 714	5 681	80 629	340 426	370 281	713 848	18 545
326	Plastics & rubber products mfg	1	8	5	871	24 025	746	1 581	19 957	73 367	115 270	188 014	5 360
3261	Plastics product mfg	1	7	5	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	4	3	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
327993	Mineral wool mfg	-	1	1	f	D	D	D	D	D	D	D	D
WEATHERFORD, TX													
31-33	Manufacturing	1	43	8	1 203	29 132	967	1 719	18 743	82 003	83 988	166 270	5 500
326	Plastics & rubber products mfg	-	2	2	f	D	D	D	D	D	D	D	D
WESLACO, TX													
31-33	Manufacturing	-	18	5	1 414	24 884	1 032	1 898	16 575	12 374	65 147	77 806	1 441
315	Apparel mfg	-	3	3	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	3	3	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	-	3	3	g	D	D	D	D	D	D	D	D
315225	Men's & boys' cut & sew work clothing mfg	-	1	1	f	D	D	D	D	D	D	D	D
WHITE SETTLEMENT, TX													
31-33	Manufacturing	3	14	4	561	14 678	445	916	9 360	30 415	16 187	47 332	4 615

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)				
	WICHITA FALLS, TX *												
31-33	Manufacturing	-	121	31	6 090	205 968	4 731	9 591	148 570	570 299	494 700	1 069 645	48 303
327	Nonmetallic mineral product mfg	-	6	4	g	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg	-	2	2	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	2	2	g	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	4	2	f	D	D	D	D	D	D	D	D
3315	Foundries	-	4	2	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	-	3	2	f	D	D	D	D	D	D	D	D
331512	Steel investment foundries	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	25	10	1 173	32 112	933	2 043	22 171	80 021	51 597	131 481	3 343
336	Transportation equipment mfg	-	2	1	f	D	D	D	D	D	D	D	D
	WILLIS, TX												
31-33	Manufacturing	8	12	3	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	9	2	1	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	9	1	1	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	9	1	1	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	9	1	1	f	D	D	D	D	D	D	D	D
	WINTERS, TX												
31-33	Manufacturing	-	4	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	2	2	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	1	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
332323	Ornamental & architectural metal work mfg	-	1	1	f	D	D	D	D	D	D	D	D
	WOODVILLE, TX												
31-33	Manufacturing	1	7	2	f	D	D	D	D	D	D	D	D
	WYLIE, TX *												
31-33	Manufacturing	1	36	15	1 647	44 890	1 218	2 827	28 431	152 333	302 950	467 114	8 085
336	Transportation equipment mfg	1	5	2	g	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
336391	Motor vehicle air-conditioning mfg	-	1	1	f	D	D	D	D	D	D	D	D
	YOAKUM, TX *												
31-33	Manufacturing	-	26	14	1 015	16 319	698	1 128	9 070	28 644	45 867	78 273	1 207

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
TEXAS		TEXAS—Con.	
Companies ¹	19 795	Quantity of electricity purchased for heat and power	1,000 kWh.. 64 463 278
		Quantity of electricity generated less sold for heat and power	1,000 kWh.. 16 991 176
All establishments	21 808	Total value of shipments	\$1,000.. 297 657 003
Establishments with 1 to 19 employees	15 020	Value of resales	\$1,000.. 10 145 289
Establishments with 20 to 99 employees	4 909	Value added	\$1,000.. 129 390 041
Establishments with 100 employees or more	1 879	Total inventories, beginning of year	\$1,000.. 28 738 782
All employees	959 665	Finished goods inventories, beginning of year	\$1,000.. 11 592 204
Total compensation ²	\$1,000.. 40 975 491	Work-in-process inventories, beginning of year	\$1,000.. 7 480 607
Annual payroll	\$1,000.. 32 760 820	Materials and supplies inventories, beginning of year	\$1,000.. 9 665 971
Total fringe benefits	\$1,000.. 8 214 671	Total inventories, end of year	\$1,000.. 29 593 498
Production workers, average for year	663 929	Finished goods inventories, end of year	\$1,000.. 11 730 127
Production workers on March 12	659 218	Work-in-process inventories, end of year	\$1,000.. 7 639 034
Production workers on May 12	662 349	Materials and supplies inventories, end of year	\$1,000.. 10 224 337
Production workers on August 12	665 477	Gross book value of total assets at beginning of year	\$1,000.. 131 727 257
Production workers on November 12	668 672	Total capital expenditures (new and used)	\$1,000.. 12 509 148
Production-worker hours	1 342 337	Capital expenditures for buildings and other structures (new and used)	\$1,000.. 1 468 416
Production-worker wages	\$1,000.. 18 163 055	Capital expenditures for machinery and equipment (new and used)	\$1,000.. 11 040 732
Total cost of materials	\$1,000.. 168 557 010	Total retirements ²	\$1,000.. 3 114 495
Cost of materials, parts, containers, etc., consumed	\$1,000.. 150 488 560	Gross book value of total assets at end of year	\$1,000.. 141 121 910
Cost of resales	\$1,000.. 7 623 240	Total depreciation during year ²	\$1,000.. 9 086 800
Cost of fuels	\$1,000.. 4 013 217	Total rental payments ²	\$1,000.. 2 114 390
Cost of purchased electricity	\$1,000.. 2 758 095	Buildings and other structures rental payments ²	\$1,000.. 863 372
Cost of contract work	\$1,000.. 3 673 898	Machinery and equipment rental payments ²	\$1,000.. 1 251 018

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 323110 include the following SIC industries:

- 2752 Commercial printing, lithographic (pt)
- 2771 Greeting cards (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

323111 Commercial Gravure Printing

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

The data published with NAICS code 323111 include the following SIC industries:

- 2754 Commercial printing, gravure
- 2771 Greeting cards (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

323112 Commercial Flexographic Printing

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

The data published with NAICS code 323112 include the following SIC industries:

- 2759 Commercial printing, n.e.c. (pt)
- 2771 Greeting cards (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

323113 Commercial Screen Printing

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

The data published with NAICS code 323113 include the following SIC industries:

- 2396 Automotive and apparel trimmings (pt)
- 2759 Commercial printing, n.e.c. (pt)
- 2771 Greeting cards (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

323114 Quick Printing

This U.S. industry comprises establishments primarily engaged in traditional printing activities, such as short-run offset printing or prepress services, in combination with providing document photocopying service. Prepress services include receiving documents in electronic format and directly duplicating from the electronic file and formatting, colorizing, and otherwise modifying the original document to improve presentation. These establishments, known as quick printers, generally provide short-run printing and copying with fast turnaround times.

The data published with NAICS code 323114 include the following SIC industries:

- 2752 Commercial printing, lithographic (pt)
- 2759 Commercial printing, n.e.c. (pt)

323115 Digital Printing

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

The data published with NAICS code 323115 include the following SIC industry:

- 2759 Commercial printing, n.e.c. (pt)

323116 Manifold Business Form Printing

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

The data published with NAICS code 323116 include the following SIC industries:

- 2761 Manifold business forms
- 2782 Blankbooks and looseleaf binders (pt)

323117 Book Printing

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

The data published with NAICS code 323117 include the following SIC industry:

- 2732 Book printing

323118 Blankbook, Looseleaf Binders, and Devices Manufacturing

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

The data published with NAICS code 323118 include the following SIC industry:

2782 Blankbooks and looseleaf binders (pt)

323119 Other Commercial Printing

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

The data published with NAICS code 323119 include the following SIC industries:

2759 Commercial printing, n.e.c. (pt)

2771 Greeting cards (pt)

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

32312 Support Activities for Printing

This industry comprises establishments primarily engaged in performing prepress (e.g., platemaking, typesetting) and postpress services (e.g., book binding) in support of printing activities.

323121 Tradebinding and Related Work

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) tradebinding; (2) sample mounting; and (3) postpress services (e.g., book or paper bronzing, die-cutting, edging, embossing, folding, gilding, gluing, indexing).

The data published with NAICS code 323121 include the following SIC industry:

2789 Bookbinding and related work

323122 Prepress Services

This U.S. industry comprises (1) establishments primarily engaged in prepress services, such as imagesetting or typesetting, for printers and (2) establishments primarily engaged in preparing film or plates for printing purposes.

The data published with NAICS code 323122 include the following SIC industries:

2791 Typesetting

2796 Platemaking services

324 Petroleum and Coal Products Manufacturing

The Petroleum and Coal Products Manufacturing subsector is based on the transformation of crude petroleum and coal into usable products. The dominant process is

petroleum refining that involves the separation of crude petroleum into component products through such techniques as cracking and distillation.

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

3241 Petroleum and Coal Products Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32411, Petroleum Refineries; 32412, Asphalt Paving, Roofing, and Saturated Materials Manufacturing; and 32419, Other Petroleum and Coal Products Manufacturing.

32411 Petroleum Refineries

This industry comprises establishments primarily engaged in refining crude petroleum into refined petroleum. Petroleum refining involves one or more of the following activities: (1) fractionation; (2) straight distillation of crude oil; and (3) cracking.

324110 Petroleum Refineries

This U.S. industry comprises establishments primarily engaged in refining crude petroleum into refined petroleum. Petroleum refining involves one or more of the following activities: (1) fractionation; (2) straight distillation of crude oil; and (3) cracking.

The data published with NAICS code 324110 include the following SIC industry:

2911 Petroleum refining

32412 Asphalt Paving, Roofing, and Saturated Materials Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing asphalt and tar paving mixtures and blocks and roofing cements and coatings from purchased asphaltic materials and/or (2) saturating purchased mats and felts with asphalt or tar from purchased asphaltic materials.

32412 Asphalt Paving, Roofing, and Saturated Materials Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing asphalt and tar paving mixtures and blocks and roofing cements and coatings from purchased asphaltic materials and/or (2) saturating purchased mats and felts with asphalt or tar from purchased asphaltic materials.

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 semifinished shapes, such as blooms, billets, and rods.

3311113 Iron and Steel Mills – Partially Integrated Without a Blast Furnace

Establishments primarily engaged in converting pig iron, direct reduced iron, and/or scrap into steel by removal of the carbon in the iron through combustion in a basic oxygen or electric furnace; then producing iron and steel basic shapes, such as plates, sheets, strips, and bars, and other related products, such as pipes, tubes, and wire.

3311114 Iron and Steel Mills – Nonintegrated

Establishments primarily engaged in producing iron and steel basic shapes, such as plates, sheets, strips, and bars, and other related products, such as pipes, tubes, and wire from purchased ingots and/or semifinished shapes, such as blooms, billets, and rods.

331112 Electrometallurgical Ferroalloy Product Manufacturing

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

The data published with NAICS code 331112 include the following SIC industry:

3313 Electrometallurgical products (pt)

3312 Steel Product Manufacturing From Purchased Steel

This industry group comprises establishments primarily engaged in manufacturing iron and steel tube and pipe, drawing steel wire, and rolling or drawing shapes from purchased iron or steel.

33121 Iron and Steel Pipes and Tubes Manufacturing From Purchased Steel

This industry comprises establishments primarily engaged in manufacturing welded, riveted, or seamless pipe and tube from purchased iron or steel.

331210 Iron and Steel Pipes and Tubes Manufacturing From Purchased Steel

This U.S. industry comprises establishments primarily engaged in manufacturing welded, riveted, or seamless pipe and tube from purchased iron or steel.

The data published with NAICS code 331210 include the following SIC industry:

3317 Steel pipe and tubes

33122 Rolling and Drawing of Purchased Steel

This industry comprises establishments primarily engaged in rolling and/or drawing steel shapes, such as plate, sheet, strip, rod, and bar, from purchased steel.

331221 Rolled Steel Shape Manufacturing

This U.S. industry comprises establishments primarily engaged in rolling or drawing shapes (except wire), such as plate, sheet, strip, rod, and bar, from purchased steel.

The data published with NAICS code 331221 include the following SIC industry:

3316 Cold finishing of steel shapes

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 331221 do not include establishments primarily engaged in making coke oven and blast furnace products; in making steel and rolling or drawing steel shapes; or in the making of ferrous metal powder, paste, and flake. The NAICS definitions will be fully implemented with the 2002 Economic Census.

331222 Steel Wire Drawing

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

The data published with NAICS code 331222 include the following SIC industry:

3315 Steel wire and related products (pt)

3313 Alumina and Aluminum Production and Processing

This NAICS industry group includes establishments classified in NAICS Industry 33131, Alumina and Aluminum Production and Processing.

33131 Alumina and Aluminum Production and Processing

This industry comprises establishments primarily engaged in one or more of the following: (1) refining alumina; (2) making (i.e., the primary production) aluminum from alumina; (3) recovering aluminum from scrap or dross; (4) alloying purchased aluminum; and (5) manufacturing aluminum primary forms (e.g., bar, foil, pipe, plate, rod, sheet, tube, wire).

331311 Alumina Refining

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

The data published with NAICS code 331311 include the following SIC industry:

2819 Industrial inorganic chemicals, n.e.c. (pt)

331312 Primary Aluminum Production

This U.S. industry comprises establishments primarily engaged in (1) making aluminum from alumina and/or (2) making aluminum from alumina and rolling, drawing, extruding, or casting the aluminum they make into primary forms (e.g., bar, billet, ingot, plate, rod, sheet, strip). Establishments in this industry may make primary aluminum or aluminum-based alloys from alumina.

The data published with NAICS code 331312 include the following SIC industry:

3334 Primary aluminum

331314 Secondary Smelting and Alloying of Aluminum

This U.S. industry comprises establishments primarily engaged in (1) recovering aluminum and aluminum alloys from scrap and/or dross (i.e., secondary smelting) and making billet or ingot (except by rolling) and/or (2) manufacturing alloys, powder, paste, or flake from purchased aluminum.

The data published with NAICS code 331314 include the following SIC industries:

3341 Secondary nonferrous metals (pt)

3399 Primary metal products, n.e.c. (pt)

331315 Aluminum Sheet, Plate, and Foil Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) flat rolling or continuous casting sheet, plate, foil, and welded tube from purchased aluminum and/or (2) recovering aluminum from scrap and flat rolling or continuous casting sheet, plate, foil, and welded tube in integrated mills.

The data published with NAICS code 331315 include the following SIC industry:

3353 Aluminum sheet, plate, and foil (pt)

331316 Aluminum Extruded Product Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) extruding aluminum bar, pipe, and tube blooms or extruding or drawing tube from purchased aluminum; and/or (2) recovering aluminum from scrap and extruding bar, pipe, and tube blooms or drawing tube in integrated mills.

The data published with NAICS code 331316 include the following SIC industry:

3354 Aluminum extruded products

331319 Other Aluminum Rolling and Drawing

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

The data published with NAICS code 331319 include the following SIC industries:

3355 Aluminum rolling and drawing, n.e.c.

3357 Nonferrous wire drawing and insulating (pt)

3314 Nonferrous Metal (Except Aluminum) Production and Processing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33141, Nonferrous Metal (Except Aluminum) Smelting and Refining; 33142, Copper Rolling, Drawing, Extruding, and Alloying; and 33149, Nonferrous Metal (Except Copper and Aluminum) Rolling, Drawing, Extruding, and Alloying.

33141 Nonferrous Metal (Except Aluminum) Smelting and Refining

This industry comprises establishments primarily engaged in (1) smelting ores into nonferrous metals and/or (2) the primary refining of nonferrous metals (except aluminum) using electrolytic or other processes.

331411 Primary Smelting and Refining of Copper

This U.S. industry comprises establishments primarily engaged in (1) smelting copper ore and/or (2) the primary refining of copper by electrolytic methods or other processes. Establishments in this industry make primary copper and copper-based alloys, such as brass and bronze, from ore or concentrates.

The data published with NAICS code 331411 include the following SIC industry:

3331 Primary copper

331419 Primary Smelting and Refining of Nonferrous Metal (Except Copper and Aluminum)

This U.S. industry comprises establishments primarily engaged in (1) making (i.e., the primary production) nonferrous metals by smelting ore and/or (2) the primary refining of nonferrous metals by electrolytic methods or other processes.

The data published with NAICS code 331419 include the following SIC industry:

3339 Primary nonferrous metals, n.e.c.

33142 Copper Rolling, Drawing, Extruding, and Alloying

This industry comprises establishments primarily engaged in one or more of the following: (1) recovering copper or copper alloys from scraps; (2) alloying purchased copper; (3) rolling, drawing, or extruding shapes, (e.g., bar, plate, sheet, strip, tube, and wire) from purchased copper; and (4) recovering copper or copper alloys from scrap and rolling drawing, or extruding shapes (e.g., bar, plate, sheet, strip, tube, and wire).

331421 Copper Rolling, Drawing, and Extruding

This U.S. industry comprises establishments primarily engaged in (1) rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, tube (except bare or insulated copper communication or energy wire)) from purchased copper; and/or (2) recovering copper from scrap and rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, tube (except bare or insulated copper communication or energy wire in integrated mills)).

The data published with NAICS code 331421 include the following SIC industry:

3351 Copper rolling and drawing

331422 Copper Wire (Except Mechanical) Drawing

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

The data published with NAICS code 331422 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

331423 Secondary Smelting, Refining, and Alloying of Copper

This U.S. industry comprises establishments primarily engaged in (1) recovering copper and copper alloys from scrap and/or (2) alloying purchased copper. Establishments in this industry make primary forms, such as ingot, wire bar, cake, and slab from copper or copper alloys, such as brass and bronze.

The data published with NAICS code 331423 include the following SIC industries:

3341 Secondary nonferrous metals (pt)

3399 Primary metal products, n.e.c. (pt)

33149 Nonferrous Metal (Except Copper and Aluminum) Rolling, Drawing, Extruding, and Alloying

This industry comprises establishments primarily engaged in one or more of the following: (1) recovering nonferrous metals (except copper and aluminum) and nonferrous metal alloys from scrap; (2) alloying purchased

nonferrous metals (except copper and aluminum); (3) rolling, drawing, and extruding shapes from purchased nonferrous metals (except copper and aluminum); and (4) recovering nonferrous metals from scrap (except copper and aluminum) and rolling, drawing, or extruding shapes in integrated facilities.

331491 Nonferrous Metal (Except Copper and Aluminum) Rolling, Drawing, and Extruding

This U.S. industry comprises establishments primarily engaged in (1) rolling, drawing, or extruding shapes (e.g., bar, plate, sheet, strip, tube) from purchased nonferrous metals) and/or (2) recovering nonferrous metals from scrap and rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, tube) in integrated mills.

The data published with NAICS code 331491 include the following SIC industries:

3356 Nonferrous rolling and drawing, n.e.c.

3357 Nonferrous wire drawing and 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

TEXAS

Abernathy is in Hale and Lubbock Counties.

Abilene is in Jones and Taylor Counties.

Amarillo is in Potter and Randall Counties.

Aransas Pass is in Aransas, Nueces, and San Patricio Counties.

Austin is in Travis and Williamson Counties.

Azle is in Parker and Tarrant Counties.

Baytown is in Chambers and Harris Counties.

Burleson is in Johnson and Tarrant Counties.

Carrollton is in Collin, Dallas, and Denton Counties.

Cedar Hill is in Dallas and Ellis Counties.

Cedar Park is in Travis and Williamson Counties.

Coppell is in Dallas and Denton Counties.

Copperas Cove is in Coryell and Lampasas Counties.

Corpus Christi is in Kleberg, Nueces, and San Patricio Counties.

Crowley is in Johnson and Tarrant Counties.

Dalhart is in Dallam and Hartley Counties.

Dallas is in Collin, Dallas, Denton, Kaufman, and Rockwall Counties.

Denver City is in Gaines and Yoakum Counties; it annexed into Gaines County in December 1991, but this change was not submitted to the Census Bureau until October 1992.

Fair Oaks Ranch is in Bexar, Comal, and Kendall Counties.

Flower Mound is in Dallas, Denton, and Tarrant Counties.

Fort Worth is in Denton and Tarrant Counties.

Friendswood is in Galveston and Harris Counties.

Frisco is in Collin and Denton Counties.

Garland is in Collin, Dallas, and Rockwall Counties.

Gladewater is in Gregg and Upshur Counties.

Glenn Heights is in Dallas and Ellis Counties.

Grand Prairie is in Dallas, Ellis, and Tarrant Counties.

Grapevine is in Dallas, Denton, and Tarrant Counties.

Hamlin is in Fisher and Jones Counties.

Houston is in Fort Bend, Harris, and Montgomery Counties.

Katy is in Fort Bend, Harris, and Waller Counties.

Kilgore is in Gregg and Rusk Counties.

League City is in Galveston and Harris Counties.

Leander is in Travis and Williamson Counties.

Lewisville is in Dallas and Denton Counties.

Longview is in Gregg and Harrison Counties.

Lytle is in Atascosa, Bexar, and Medina Counties.

McGregor is in Coryell and McLennan Counties; it annexed into Coryell County in November 1996.

Mansfield is in Ellis, Johnson, and Tarrant Counties.

Midland is in Martin and Midland Counties.

Mineral Wells is in Palo Pinto and Parker Counties.

Missouri City is in Fort Bend and Harris Counties.

Monahans is in Ward and Winkler Counties.

New Braunfels is in Comal and Guadalupe Counties.

Odessa is in Ector and Midland Counties.

Ovilla is in Dallas and Ellis Counties.

Pearland is in Brazoria and Harris Counties.

Plano is in Collin and Denton Counties.

Portland is in Nueces and San Patricio Counties.

Progreso was incorporated in November 1991, but this change was not submitted to the Census Bureau until September 1992.

Richardson is in Collin and Dallas Counties.

Rio Grande City was incorporated in May 1993.

Round Rock is in Travis and Williamson Counties.

Rowlett is in Dallas and Rockwall Counties.

Royse City is in Collin and Rockwall Counties.

Sachse is in Collin and Dallas Counties.

San Diego is in Duval and Jim Wells Counties.

San Marcos is in Caldwell and Hays Counties.

Schertz is in Bexar, Comal, and Guadalupe Counties.

Seabrook is in Chambers, Galveston, and Harris Counties.

Seagoville is in Dallas and Kaufman Counties.

Southlake is in Denton and Tarrant Counties.

Stafford is in Fort Bend and Harris Counties.

Stamford is in Haskell and Jones Counties.

Texas City is in Chambers and Galveston Counties; it annexed into Chambers County in October 1992.

Tomball is in Harris and Montgomery Counties.

Trophy Club is in Denton and Tarrant Counties.

Wichita Falls is in Wichita County; it detached from Archer County in October 1996.

Winnsboro is in Franklin and Wood Counties.

Wylie is in Collin, Dallas, and Rockwall Counties.

Yoakum is in DeWitt and Lavaca Counties.

Appendix E. Metropolitan Areas

TEXAS

Abilene, TX MSA

Taylor County, TX

Amarillo, TX MSA

Potter County, TX

Randall County, TX

Austin—San Marcos, TX MSA

Bastrop County, TX

Caldwell County, TX

Hays County, TX

Travis County, TX

Williamson County, TX

Baumont—Port Arthur, TX MSA

Hardin County, TX

Jefferson County, TX

Orange County, TX

Brazoria, TX PMSA

Brazoria County, TX

Brownsville—Harlingen—San Benito, TX MSA

Cameron County, TX

Bryan—College Station, TX MSA

Brazos County, TX

Corpus Christi, TX MSA

Nueces County, TX

San Patricio County, TX

Dallas, TX PMSA

Collin County, TX

Dallas County, TX

Denton County, TX

Ellis County, TX

Henderson County, TX

Hunt County, TX

Kaufman County, TX

Rockwall County, TX

Dallas—Fort Worth, TX CMSA

Dallas, TX PMSA

Collin County, TX

Dallas County, TX

Denton County, TX

Ellis County, TX

Henderson County, TX

Hunt County, TX

Kaufman County, TX

Rockwall County, TX

Fort Worth—Arlington, TX PMSA

Hood County, TX

Johnson County, TX

Parker County, TX

Tarrant County, TX

El Paso, TX MSA

El Paso County, TX

Fort Worth—Arlington, TX PMSA

Hood County, TX

Johnson County, TX

Parker County, TX

Tarrant County, TX

Galveston—Texas City, TX PMSA

Galveston County, TX

Houston, TX PMSA

Chambers County, TX

Fort Bend County, TX

Harris County, TX

Liberty County, TX

Montgomery County, TX

Waller County, TX

Houston—Galveston—Brazoria, TX CMSA

Brazoria, TX PMSA

Brazoria County, TX

Galveston—Texas City, TX PMSA

Galveston County, TX

Houston, TX PMSA

Chambers County, TX

Fort Bend County, TX

Harris County, TX

Liberty County, TX

Montgomery County, TX

Waller County, TX

Killeen—Temple, TX MSA

Bell County, TX

Coryell County, TX

Laredo, TX MSA

Webb County, TX

Longview—Marshall, TX MSA

Gregg County, TX

Harrison County, TX

Upshur County, TX

Lubbock, TX MSA

Lubbock County, TX

McAllen—Edinburg—Mission, TX MSA

Hidalgo County, TX

Odessa—Midland, TX MSA

Ector County, TX

Midland County, TX

San Angelo, TX MSA

Tom Green County, TX

San Antonio, TX MSA

Bexar County, TX

Comal County, TX

Guadalupe County, TX

Wilson County, TX

Sherman—Denison, TX MSA

Grayson County, TX

Texarkana, TX—Texarkana, AR MSA

Miller County, AR

Bowie County, TX

Tyler, TX MSA

Smith County, TX

Victoria, TX MSA

Victoria County, TX

Waco, TX MSA

McLennan County, TX

Wichita Falls, TX MSA

Archer County, TX

Wichita County, TX

