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**1997 Economic Census**

*Manufacturing*

Geographic Area Series



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

*Helping You Make Informed Decisions*

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



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# Introduction to the Economic Census

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## PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

- Policymaking agencies of the Federal Government use the data to monitor economic activity and 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

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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](http://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.

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## 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](http://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](http://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

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## 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

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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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>NEW YORK</b>													
<b>31-33</b>	<b>Manufacturing</b> . . . . .	<b>1</b>	<b>23 908</b>	<b>6 689</b>	<b>785 891</b>	<b>26 515 818</b>	<b>538 186</b>	<b>1 057 483</b>	<b>14 695 767</b>	<b>76 999 763</b>	<b>69 255 045</b>	<b>146 720 195</b>	<b>5 724 553</b>
311	Food mfg. . . . .	1	2 198	436	49 103	1 376 928	33 795	65 699	796 490	6 012 317	7 693 570	13 717 789	344 903
3111	Animal food mfg. . . . .	1	52	24	1 677	59 174	1 079	2 215	34 359	472 916	524 138	997 115	25 763
31111	Animal food mfg. . . . .	1	52	24	1 677	59 174	1 079	2 215	34 359	472 916	524 138	997 115	25 763
311111	Dog & cat food mfg. . . . .	-	6	4	622	25 169	482	918	18 162	357 557	244 252	602 075	19 904
311119	Other animal food mfg. . . . .	3	46	20	1 055	34 005	597	1 297	16 197	115 559	279 886	395 040	5 859
3112	Grain & oilseed milling . . . . .	1	33	11	1 335	57 016	1 036	2 448	43 094	531 318	580 911	1 113 788	16 758
31121	Flour milling & malt mfg. . . . .	-	23	7	537	21 303	403	953	15 711	101 953	458 037	560 465	7 446
311211	Flour milling . . . . .	-	21	6	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal mfg. . . . .	1	3	3	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg. . . . .	1	3	3	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg. . . . .	-	109	31	3 678	118 918	2 817	5 799	79 722	467 967	754 800	1 226 991	22 917
31131	Sugar mfg. . . . .	-	5	3	802	42 431	596	1 352	28 160	100 209	509 295	611 777	D
311312	Cane sugar refining . . . . .	-	4	2	f	D	D	D	D	D	D	D	D
31132	Chocolate & confectionery mfg from cacao beans . . . . .	-	20	2	f	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans . . . . .	-	20	2	f	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate . . . . .	2	43	15	1 341	31 265	1 095	2 091	21 318	81 907	52 569	135 447	4 138
311330	Confectionery mfg from purchased chocolate . . . . .	2	43	15	1 341	31 265	1 095	2 091	21 318	81 907	52 569	135 447	4 138
31134	Nonchocolate confectionery mfg . . . . .	-	41	11	f	D	D	D	D	D	D	D	4 685
311340	Nonchocolate confectionery mfg . . . . .	-	41	11	f	D	D	D	D	D	D	D	4 685
3114	Fruit & vegetable preserving & specialty food mfg. . . . .	2	111	63	7 590	208 869	5 925	11 717	129 724	1 245 101	1 152 129	2 398 074	62 255
31141	Frozen food mfg. . . . .	3	43	28	3 076	77 066	2 581	4 745	48 736	575 731	325 727	901 226	27 005
311411	Frozen fruit, juice, & vegetable mfg. . . . .	6	14	10	928	23 256	800	1 729	18 245	163 623	110 202	273 426	11 924
311412	Frozen specialty food mfg. . . . .	1	29	18	2 148	53 810	1 781	3 016	30 491	412 108	215 525	627 800	15 081
31142	Fruit & vegetable canning, pickling, & drying . . . . .	2	68	35	4 514	131 803	3 344	6 972	80 988	669 370	826 402	1 496 848	35 250
311421	Fruit & vegetable canning . . . . .	2	57	31	3 863	108 715	2 846	6 096	68 338	562 358	749 927	1 313 693	31 398
311422	Specialty canning . . . . .	-	6	2	e	D	D	D	D	D	D	D	3 062
311423	Dried & dehydrated food mfg. . . . .	8	5	2	c	D	D	D	D	D	D	D	790
3115	Dairy product mfg. . . . .	1	122	59	6 916	198 920	4 863	10 065	127 222	679 407	2 282 651	2 962 475	80 150
31151	Dairy product (except frozen) mfg. . . . .	-	83	51	5 808	173 620	4 090	8 519	112 269	605 281	2 158 144	2 764 189	74 069
311511	Fluid milk mfg. . . . .	1	39	26	3 061	100 050	1 908	4 136	57 110	306 365	936 439	1 242 394	D
311513	Cheese mfg. . . . .	-	36	21	2 387	62 177	1 948	3 889	46 533	259 202	1 072 608	1 331 619	43 426
311514	Dry, condensed, & evaporated dairy product mfg. . . . .	-	8	4	360	11 393	234	494	8 626	39 714	149 097	190 176	D
31152	Ice cream & frozen dessert mfg. . . . .	8	39	8	1 108	25 300	773	1 546	14 953	74 126	124 507	198 286	6 081
311520	Ice cream & frozen dessert mfg. . . . .	8	39	8	1 108	25 300	773	1 546	14 953	74 126	124 507	198 286	6 081
3116	Meat product mfg. . . . .	2	151	45	3 226	90 983	2 417	4 888	56 631	451 362	934 083	1 387 295	27 740
31161	Animal slaughtering & processing . . . . .	2	151	45	3 226	90 983	2 417	4 888	56 631	451 362	934 083	1 387 295	27 740
311611	Animal (except poultry) slaughtering . . . . .	6	37	4	410	8 513	343	644	6 510	26 228	75 005	101 281	1 204
311612	Meat processed from carcasses . . . . .	2	96	34	2 419	74 435	1 744	3 619	44 350	397 776	810 223	1 209 648	25 232
311615	Poultry processing . . . . .	-	14	6	323	6 335	290	556	4 934	22 459	40 364	63 018	586
3117	Seafood product preparation & packaging . . . . .	2	12	3	293	13 297	219	501	5 729	23 316	44 779	67 905	1 340
31171	Seafood product preparation & packaging . . . . .	2	12	3	293	13 297	219	501	5 729	23 316	44 779	67 905	1 340
311711	Seafood canning . . . . .	1	6	2	245	12 091	179	413	4 909	19 846	36 877	56 533	1 127
3118	Bakeries & tortilla mfg. . . . .	2	1 449	148	19 185	481 131	11 928	21 482	241 352	1 513 547	812 270	2 325 482	78 831
31181	Bread & bakery product mfg. . . . .	2	1 368	124	16 473	401 743	9 936	17 700	193 329	1 158 710	598 462	1 758 859	60 931
311811	Retail bakeries . . . . .	5	978	28	4 927	70 339	3 060	4 110	35 686	161 364	98 088	260 096	7 736
311812	Commercial bakeries . . . . .	2	374	89	11 148	322 101	6 581	13 057	151 909	968 934	477 470	1 447 753	51 754
311813	Frozen cakes, pies, & other pastries mfg. . . . .	2	16	7	398	9 303	295	533	5 734	28 412	22 904	51 010	1 441
31182	Cookie, cracker, & pasta mfg. . . . .	2	80	24	h	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg. . . . .	1	31	17	2 107	61 954	1 605	3 046	37 994	281 654	111 027	390 723	13 379
311822	Flour mixes & dough mfg from purchased flour . . . . .	4	15	6	438	13 592	263	543	7 226	54 376	89 393	143 657	3 755
311823	Dry pasta mfg. . . . .	6	34	1	c	D	D	D	D	D	D	D	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
311	Food mfg—Con.												
3119	Other food mfg . . . . .	1	159	52	5 203	148 620	3 511	6 584	78 657	627 383	607 809	1 238 664	29 149
31191	Snack food mfg . . . . .	—	17	5	1 088	32 091	944	1 818	19 806	178 928	135 296	314 467	3 545
311911	Roasted nuts & peanut butter mfg . . . . .	2	7	1	123	2 783	79	167	1 508	9 198	20 052	29 879	738
311919	Other snack food mfg . . . . .	—	10	4	965	29 308	865	1 651	18 298	169 730	115 244	284 588	2 807
31192	Coffee & tea mfg . . . . .	1	15	11	841	28 944	408	909	13 914	130 189	163 803	296 859	8 492
311920	Coffee & tea mfg . . . . .	1	15	11	841	28 944	408	909	13 914	130 189	163 803	296 859	8 492
31193	Flavoring syrup & concentrate mfg . . . . .	4	12	3	219	7 951	99	217	3 051	24 790	21 525	48 236	1 142
311930	Flavoring syrup & concentrate mfg . . . . .	4	12	3	219	7 951	99	217	3 051	24 790	21 525	48 236	1 142
31194	Seasoning & dressing mfg . . . . .	2	39	11	944	29 528	678	1 277	15 453	101 109	104 585	205 198	4 905
311941	Mayonnaise, dressing, & other prepared sauce mfg . . . . .	3	24	7	568	15 684	454	809	9 790	78 160	75 688	153 691	3 075
311942	Spice & extract mfg . . . . .	—	15	4	376	13 844	224	468	5 663	22 949	28 897	51 507	1 830
31199	All other food mfg . . . . .	2	76	22	2 111	50 106	1 382	2 363	26 433	192 367	182 600	373 904	11 065
311991	Perishable prepared food mfg . . . . .	—	29	10	1 183	27 616	729	1 286	14 379	91 417	85 996	176 967	5 387
311999	All other miscellaneous food mfg . . . . .	3	47	12	928	22 490	653	1 077	12 054	100 950	96 604	196 937	5 678
312	Beverage & tobacco product mfg . . . . .	2	139	46	8 042	260 647	4 804	10 951	139 627	1 350 416	1 383 410	2 732 789	103 798
3121	Beverage mfg . . . . .	2	138	46	i	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg . . . . .	4	85	30	4 531	130 323	2 528	7 511	71 818	606 645	876 813	1 485 657	36 549
312111	Soft drink mfg . . . . .	4	45	24	4 099	120 570	2 346	7 187	68 080	577 688	857 459	1 437 498	32 728
312112	Bottled water mfg . . . . .	7	10	1	100	2 460	47	78	1 005	10 817	12 764	23 534	787
312113	Ice mfg . . . . .	1	30	5	332	7 293	135	246	2 733	18 140	6 590	24 625	3 034
31212	Breweries . . . . .	—	18	8	2 419	92 386	1 748	2 522	57 690	645 409	394 788	1 041 573	D
312120	Breweries . . . . .	—	18	8	2 419	92 386	1 748	2 522	57 690	645 409	394 788	1 041 573	D
31213	Wineries . . . . .	1	35	8	g	D	D	D	D	D	D	D	D
312130	Wineries . . . . .	1	35	8	g	D	D	D	D	D	D	D	D
313	Textile mills . . . . .	2	610	160	14 885	495 921	11 213	23 147	263 013	1 315 035	1 637 557	2 985 980	93 086
3131	Fiber, yarn, & thread mills . . . . .	3	34	7	407	7 094	381	694	5 696	14 078	31 377	44 976	1 949
31311	Fiber, yarn, & thread mills . . . . .	3	34	7	407	7 094	381	694	5 696	14 078	31 377	44 976	1 949
313111	Yarn spinning mills . . . . .	3	21	3	176	3 327	164	276	2 621	7 747	12 848	20 650	1 352
313113	Thread mills . . . . .	2	7	3	163	2 682	155	300	2 185	3 493	11 126	14 102	252
3132	Fabric mills . . . . .	2	204	62	6 771	203 653	5 483	11 217	123 918	496 118	530 805	1 029 257	53 166
31321	Broadwoven fabric mills . . . . .	5	60	15	1 486	56 719	1 217	2 475	28 858	123 616	201 101	323 772	9 801
313210	Broadwoven fabric mills . . . . .	5	60	15	1 486	56 719	1 217	2 475	28 858	123 616	201 101	323 772	9 801
31322	Narrow fabric mills & schiffli machine embroidery . . . . .	2	32	4	431	10 658	318	624	5 294	22 718	12 911	36 035	973
313221	Narrow fabric mills . . . . .	3	18	1	203	5 433	130	248	2 180	12 787	8 112	21 008	500
313222	Schiffli machine embroidery . . . . .	—	14	3	228	5 225	188	376	3 114	9 931	4 799	15 027	473
31323	Nonwoven fabric mills . . . . .	1	33	15	1 290	39 506	973	1 654	18 477	72 151	102 697	176 670	11 819
313230	Nonwoven fabric mills . . . . .	1	33	15	1 290	39 506	973	1 654	18 477	72 151	102 697	176 670	11 819
31324	Knit fabric mills . . . . .	1	79	28	3 564	96 770	2 975	6 464	71 289	277 633	214 096	492 780	30 573
313241	Weft knit fabric mills . . . . .	5	44	12	901	23 219	753	1 619	18 516	46 536	55 232	100 620	3 290
313249	Other knit fabric & lace mills . . . . .	—	35	16	2 663	73 551	2 222	4 845	52 773	231 097	158 864	392 160	27 283
3133	Textile & fabric finishing & fabric coating mills . . . . .	2	372	91	7 707	285 174	5 349	11 236	133 399	804 839	1 075 375	1 911 747	37 971
31331	Textile & fabric finishing mills . . . . .	3	354	83	6 986	262 016	4 820	10 250	120 694	750 948	992 539	1 774 559	35 779
313311	Broadwoven fabric finishing mills . . . . .	3	284	64	5 506	210 217	3 803	8 137	96 627	586 071	814 757	1 429 028	28 702
313312	Textile & fabric finishing mills . . . . .	2	70	19	1 480	51 799	1 017	2 113	24 067	164 877	177 782	345 531	7 077
31332	Fabric coating mills . . . . .	1	18	8	721	23 158	529	986	12 705	53 891	82 836	137 188	2 192
313320	Fabric coating mills . . . . .	1	18	8	721	23 158	529	986	12 705	53 891	82 836	137 188	2 192



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

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>NEW YORK—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
314	Textile product mills.....	2	593	126	11 111	231 669	8 565	14 862	132 898	478 879	593 040	1 066 794	24 802
3141	Textile furnishings mills....	1	213	44	4 518	97 588	3 551	6 269	54 166	209 985	348 245	550 673	8 710
31411	Carpet & rug mills .....	5	10	3	187	5 727	149	319	4 247	9 938	20 078	29 557	905
314110	Carpet & rug mills .....	5	10	3	187	5 727	149	319	4 247	9 938	20 078	29 557	905
31412	Curtain & linen mills.....	1	203	41	4 331	91 861	3 402	5 950	49 919	200 047	328 167	521 116	7 805
314121	Curtain & drapery mills .....	1	125	18	2 799	55 854	2 209	3 965	34 196	107 046	142 578	242 522	6 094
314129	Other household textile product mills .....	1	78	23	1 532	36 007	1 193	1 985	15 723	93 001	185 589	278 594	1 711
3149	Other textile product mills..	2	380	82	6 593	134 081	5 014	8 593	78 732	268 894	244 795	516 121	16 092
31491	Textile bag & canvas mills .....	2	154	24	1 756	39 389	1 366	2 343	22 573	81 459	78 338	159 726	4 681
314911	Textile bag mills .....	1	36	9	662	12 863	535	962	7 293	26 645	19 094	45 404	2 143
314912	Canvas & related product mills .....	2	118	15	1 094	26 526	831	1 381	15 280	54 814	59 244	114 322	2 538
31499	All other textile product mills .....	3	226	58	4 837	94 692	3 648	6 250	56 159	187 435	166 457	356 395	11 411
314991	Rope, cordage, & twine mills .....	-	8	4	e	D	D	D	D	D	D	D	D
314992	Tire cord & tire fabric mills .....	-	1	1	e	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills ..	3	217	53	4 294	81 958	3 225	5 495	48 546	160 303	146 065	309 341	9 683
315	Apparel mfg .....	3	3 939	1 174	91 516	1 816 127	68 492	118 081	1 064 818	4 465 493	5 168 642	9 644 864	108 470
3151	Apparel knitting mills .....	5	291	115	8 953	172 547	7 631	14 497	128 864	358 708	384 452	754 913	18 679
31511	Hosiery & sock mills .....	9	29	3	561	9 008	506	918	7 142	17 995	20 629	38 919	1 129
315111	Sheer hosiery mills .....	9	14	1	c	D	D	D	D	D	D	D	227
315119	Other hosiery & sock mills .....	8	15	2	e	D	D	D	D	D	D	D	902
31519	Other apparel knitting mills .....	5	262	112	8 392	163 539	7 125	13 579	121 722	340 713	363 823	715 994	17 550
315191	Outerwear knitting mills .....	5	257	110	i	D	D	D	D	D	D	D	16 673
315192	Underwear & nightwear knitting mills .....	8	5	2	e	D	D	D	D	D	D	D	877
3152	Cut & sew apparel mfg ....	4	3 216	967	73 916	1 460 888	53 878	90 844	819 108	3 714 643	4 448 067	8 152 815	79 183
31521	Cut & sew apparel contractors .....	7	2 072	552	36 852	486 385	31 388	51 028	381 239	772 363	240 809	1 004 028	31 761
315211	Men's & boys' cut & sew apparel contractors .....	5	57	25	1 485	21 976	1 357	2 339	17 931	38 732	5 489	44 190	960
315212	Women's, girls', & infants' cut & sew apparel contractors ..	7	2 015	527	35 367	464 409	30 031	48 689	363 308	733 631	235 320	959 838	30 801
31522	Men's & boys' cut & sew apparel mfg .....	2	190	68	7 559	161 239	5 812	10 762	106 794	522 267	538 258	1 061 921	9 930
315221	Men's & boys' cut & sew underwear & nightwear mfg .....	9	4	3	203	2 878	84	166	1 225	7 151	5 953	13 102	161
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg .....	1	47	22	3 520	78 511	2 793	5 616	53 034	263 846	165 742	419 995	2 320
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg .....	1	29	7	1 046	30 711	625	983	19 638	136 896	174 165	322 148	1 720
315224	Men's & boys' cut & sew trouser, slack, & jean mfg .....	-	18	2	276	8 582	170	372	4 614	19 201	91 044	106 623	325
315225	Men's & boys' cut & sew work clothing mfg .....	7	14	2	341	3 818	325	441	3 359	9 061	5 742	14 903	890
315228	Men's & boys' cut & sew other outerwear mfg .....	5	78	32	2 173	36 739	1 815	3 184	24 924	86 112	95 612	185 150	4 514
31523	Women's & girls' cut & sew apparel mfg .....	3	763	323	27 556	767 893	15 155	26 331	302 450	2 291 737	3 528 068	5 817 399	34 933
315231	Women's & girls' cut/ sew lingerie & nightwear mfg .....	2	67	23	1 844	39 481	1 443	3 089	23 311	130 236	181 428	315 772	2 847
315232	Women's & girls' cut & sew blouse & shirt mfg .....	4	154	56	4 160	90 336	2 805	4 768	44 331	333 026	554 762	882 415	5 351
315233	Women's & girls' cut & sew dress mfg .....	3	259	116	10 245	284 785	5 361	8 841	119 288	853 022	1 354 740	2 186 288	13 471
315234	Women's & girls' cut & sew suit, coat, skirt mfg .....	2	144	67	6 010	177 526	3 197	5 715	73 722	554 280	869 132	1 434 235	5 586
315239	Women's & girls' cut & sew other outerwear mfg .....	5	139	61	5 297	175 765	2 349	3 918	41 798	421 173	568 006	998 689	7 678
31529	Other cut & sew apparel mfg .....	4	191	24	1 949	45 371	1 523	2 723	28 625	128 276	140 932	269 467	2 559
315292	Fur & leather apparel mfg .....	6	130	8	692	17 592	460	834	9 277	47 616	77 227	123 760	1 606
315299	All other cut & sew apparel mfg .....	4	59	15	g	D	D	D	D	D	D	D	D

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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>NEW YORK—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
315	Apparel mfg—Con.												
3159	Apparel accessories & other apparel mfg . . . . .	1	432	92	8 647	182 692	6 983	12 740	116 846	392 142	336 123	737 136	10 608
31599	Apparel accessories & other apparel mfg . . . . .	1	432	92	8 647	182 692	6 983	12 740	116 846	392 142	336 123	737 136	10 608
315991	Hat, cap, & millinery mfg . . . . .	5	86	19	2 561	57 704	2 228	3 939	43 691	114 403	58 333	179 861	4 566
315992	Glove & mitten mfg . . . . .	5	17	6	432	7 151	367	606	4 748	14 562	14 763	29 660	419
315993	Men's & boys' neckwear mfg . . . . .	1	53	21	1 599	38 799	1 270	2 337	21 052	107 673	87 885	197 543	940
315999	Other apparel accessories & other apparel mfg . . . . .	2	276	46	4 055	79 038	3 118	5 858	47 355	155 504	175 142	330 072	4 683
316	Leather & allied product mfg .	1	229	59	5 699	124 763	4 162	8 546	76 291	326 940	305 723	625 243	7 024
3161	Leather & hide tanning & finishing . . . . .	4	72	21	1 156	30 654	874	1 864	21 347	59 941	77 171	136 578	3 021
31611	Leather & hide tanning & finishing . . . . .	4	72	21	1 156	30 654	874	1 864	21 347	59 941	77 171	136 578	3 021
316110	Leather & hide tanning & finishing . . . . .	4	72	21	1 156	30 654	874	1 864	21 347	59 941	77 171	136 578	3 021
3162	Footwear mfg . . . . .	—	25	10	1 935	39 249	1 469	3 265	24 152	113 255	115 468	216 309	1 025
31621	Footwear mfg . . . . .	—	25	10	1 935	39 249	1 469	3 265	24 152	113 255	115 468	216 309	1 025
316211	Rubber & plastics footwear mfg . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
316212	House slipper mfg . . . . .	—	4	2	875	16 745	700	1 786	11 560	52 187	27 553	70 238	D
316213	Men's footwear (except athletic) mfg .	—	2	2	c	D	D	D	D	D	D	D	D
316214	Women's footwear (except athletic) mfg .	—	11	3	471	11 386	257	482	3 820	22 091	16 147	37 785	278
3169	Other leather & allied product mfg . . . . .	1	132	28	2 608	54 860	1 819	3 417	30 792	153 744	113 084	272 356	2 978
31699	Other leather & allied product mfg . . . . .	1	132	28	2 608	54 860	1 819	3 417	30 792	153 744	113 084	272 356	2 978
316991	Luggage mfg . . . . .	1	32	10	928	17 691	559	1 018	8 276	71 155	50 539	120 803	899
316992	Women's handbag & purse mfg . . . . .	2	49	7	706	19 070	524	1 016	10 602	41 795	35 732	80 001	1 431
316993	Personal leather good (except women's handbag & purse) mfg . . . . .	1	27	7	537	9 201	403	722	6 328	14 559	9 340	24 343	309
316999	All other leather good mfg . . . . .	—	24	4	437	8 898	333	661	5 586	26 235	17 473	47 209	339
321	Wood product mfg . . . . .	3	575	152	10 375	250 226	8 357	16 387	174 942	571 216	762 086	1 333 633	43 557
3211	Sawmills & wood preservation . . . . .	4	147	38	2 689	71 026	2 192	4 673	51 892	196 225	340 285	537 494	22 042
32111	Sawmills & wood preservation . . . . .	4	147	38	2 689	71 026	2 192	4 673	51 892	196 225	340 285	537 494	22 042
321113	Sawmills . . . . .	4	138	38	2 627	69 638	2 144	4 584	50 959	189 932	311 711	503 668	21 376
3212	Veneer, plywood, & engineered wood product mfg . . . . .	1	34	15	891	22 769	697	1 395	15 643	47 835	69 162	116 331	4 497
32121	Veneer, plywood, & engineered wood product mfg . . . . .	1	34	15	891	22 769	697	1 395	15 643	47 835	69 162	116 331	4 497
321211	Hardwood veneer & plywood mfg . . . . .	1	8	2	c	D	D	D	D	D	D	D	D
321214	Truss mfg . . . . .	3	20	9	378	9 694	275	541	5 987	20 373	26 783	47 215	987
321219	Reconstituted wood product mfg . . . . .	—	4	3	198	5 645	146	284	3 722	14 889	22 575	36 731	3 161
3219	Other wood product mfg . . . . .	3	394	99	6 795	156 431	5 468	10 319	107 407	327 156	352 639	679 808	17 018
32191	Millwork . . . . .	3	169	34	2 294	57 595	1 851	3 545	41 280	114 341	133 663	247 554	8 398
321911	Wood window & door mfg . . . . .	6	51	12	704	19 841	548	1 011	14 253	39 659	39 620	78 917	2 595
321912	Cut stock, resawing lumber, & planing . . . . .	2	52	14	890	18 454	766	1 501	13 458	39 367	54 768	94 135	4 321
321918	Other millwork (including flooring) . . . . .	2	66	8	700	19 300	537	1 033	13 569	35 315	39 275	74 502	1 482
32192	Wood container & pallet mfg . . . . .	2	105	28	1 731	32 791	1 457	2 573	23 683	66 891	74 467	140 849	3 726
321920	Wood container & pallet mfg . . . . .	2	105	28	1 731	32 791	1 457	2 573	23 683	66 891	74 467	140 849	3 726
32199	All other wood product mfg . . . . .	3	120	37	2 770	66 045	2 160	4 201	42 444	145 924	144 509	291 405	4 894
321991	Manufactured home (mobile home) mfg . . . . .	—	1	1	c	D	D	D	D	D	D	D	D
321992	Prefabricated wood building mfg . . . . .	2	24	12	f	D	D	D	D	D	D	D	D
321999	All other miscellaneous wood product mfg . . . . .	4	95	24	1 701	36 752	1 428	2 734	26 249	74 944	61 563	137 387	3 238

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>NEW YORK—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
322	Paper mfg . . . . .	1	405	239	27 055	972 164	20 645	42 571	628 717	2 364 714	2 771 584	5 139 652	313 910
3221	Pulp, paper, & paperboard mills . . . . .	—	50	48	8 829	384 070	6 679	14 679	262 872	1 032 170	1 226 733	2 258 199	186 417
32212	Paper mills . . . . .	—	34	33	7 498	330 713	5 706	12 364	227 019	904 220	1 068 096	1 970 182	D
322121	Paper (except newsprint) mills . . . . .	—	32	31	i	D	D	D	D	D	D	D	D
322122	Newsprint mills . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
32213	Paperboard mills . . . . .	1	15	14	g	D	D	D	D	D	D	D	64 447
322130	Paperboard mills . . . . .	1	15	14	g	D	D	D	D	D	D	D	64 447
3222	Converted paper product mfg . . . . .	2	355	191	18 226	588 094	13 966	27 892	365 845	1 332 544	1 544 851	2 881 453	127 493
32221	Paperboard container mfg . . . . .	2	163	105	10 089	333 344	7 720	15 642	201 178	736 272	871 456	1 604 737	60 093
322211	Corrugated & solid fiber box mfg . . . . .	2	84	57	4 847	163 314	3 433	6 948	91 357	341 488	527 077	871 924	30 342
322212	Folding paperboard box mfg . . . . .	1	41	30	3 217	112 364	2 571	5 453	70 685	244 682	220 262	464 004	21 568
322213	Setup paperboard box mfg . . . . .	3	21	9	1 020	24 248	857	1 365	14 273	47 464	33 069	80 201	3 066
322214	Fiber can, tube, drum, & similar products mfg . . . . .	3	11	6	389	13 312	318	622	8 348	32 787	39 985	72 351	D
322215	Nonfolding sanitary food container mfg . . . . .	—	6	3	616	20 106	541	1 254	16 515	69 851	51 063	116 257	D
32222	Paper bag & coated & treated paper mfg . . . . .	1	59	20	2 565	83 942	1 899	3 896	57 888	201 068	265 691	474 239	12 771
322222	Coated & laminated paper mfg . . . . .	—	40	13	1 723	55 535	1 205	2 393	37 215	138 503	177 090	323 634	9 015
322224	Uncoated paper & multiwall bag mfg . . . . .	—	6	2	460	12 624	410	907	10 894	24 125	38 392	62 107	D
322225	Laminated aluminum foil mfg for flexible packaging uses . . . . .	9	2	1	c	D	D	D	D	D	D	D	D
322226	Surface-coated paperboard mfg . . . . .	—	5	3	179	6 767	135	274	3 504	15 223	11 674	26 724	495
32223	Stationery product mfg . . . . .	1	79	36	3 388	99 036	2 709	5 063	65 454	206 386	182 731	390 997	20 721
322231	Die-cut paper & paperboard office supplies mfg . . . . .	3	39	16	1 142	26 137	927	1 679	17 590	53 736	31 251	85 297	2 240
322232	Envelope mfg . . . . .	—	22	15	1 890	63 880	1 510	2 859	42 180	132 409	137 050	270 673	14 277
322233	Stationery, tablet, & related product mfg . . . . .	1	18	5	356	9 019	272	525	5 684	20 241	14 430	35 027	4 204
32229	Other converted paper product mfg . . . . .	6	54	30	2 184	71 772	1 638	3 291	41 325	188 818	224 973	411 480	33 908
322291	Sanitary paper product mfg . . . . .	8	13	8	706	21 177	576	1 227	15 974	99 574	124 261	223 533	25 768
322299	All other converted paper product mfg . . . . .	4	41	22	1 478	50 595	1 062	2 064	25 351	89 244	100 712	187 947	8 140
323	Printing & related support activities . . . . .	3	3 005	562	50 284	1 682 982	36 630	71 735	1 060 269	4 139 181	2 221 445	6 348 282	589 024
3231	Printing & related support activities . . . . .	3	3 005	562	50 284	1 682 982	36 630	71 735	1 060 269	4 139 181	2 221 445	6 348 282	589 024
32311	Printing . . . . .	3	2 577	474	43 368	1 436 442	31 349	61 233	896 067	3 668 453	2 110 108	5 766 710	566 834
323110	Commercial lithographic printing . . . . .	3	1 351	279	25 428	928 196	18 196	35 942	579 525	2 455 987	1 317 529	3 770 393	478 262
323111	Commercial gravure printing . . . . .	3	26	6	382	14 040	280	613	9 102	36 148	37 651	75 162	3 586
323112	Commercial flexographic printing . . . . .	2	55	16	1 053	34 271	696	1 306	19 259	80 360	70 197	149 171	8 402
323113	Commercial screen printing . . . . .	5	241	40	3 500	88 016	2 724	4 921	53 009	192 748	141 792	324 696	18 860
323114	Quick printing . . . . .	3	419	20	2 362	62 913	1 656	2 756	39 586	123 163	81 419	204 490	10 411
323115	Digital printing . . . . .	3	34	7	398	13 912	275	525	6 996	29 166	13 813	42 905	1 498
323116	Manifold business form printing . . . . .	1	60	23	2 369	67 178	1 498	2 825	39 901	232 472	115 026	348 086	15 370
323117	Book printing . . . . .	2	64	26	2 788	94 108	2 298	4 647	67 516	176 004	120 998	297 083	16 196
323118	Blankbook, looseleaf binder, & device mfg . . . . .	2	37	24	2 202	52 497	1 783	4 053	34 967	175 716	97 162	273 521	5 038
323119	Other commercial printing . . . . .	4	290	33	2 886	81 311	1 943	3 645	46 206	166 689	114 521	281 203	9 211
32312	Support activities for printing . . . . .	3	428	88	6 916	246 540	5 281	10 502	164 202	470 728	111 337	581 572	22 190
323121	Tradebinding & related work . . . . .	3	109	39	2 489	63 557	2 095	3 921	44 288	122 878	25 078	147 450	7 420
323122	Prepress services . . . . .	3	319	49	4 427	182 983	3 186	6 581	119 914	347 850	86 259	434 122	14 770
324	Petroleum & coal products mfg . . . . .	1	152	25	1 742	80 433	1 229	2 540	49 393	291 757	512 405	800 619	22 490
3241	Petroleum & coal products mfg . . . . .	1	152	25	1 742	80 433	1 229	2 540	49 393	291 757	512 405	800 619	22 490
32412	Asphalt paving, roofing, & saturated materials mfg . . . . .	1	133	20	1 474	70 709	1 068	2 260	44 544	259 612	443 810	702 258	20 496
324121	Asphalt paving mixture & block mfg . . . . .	1	125	18	1 364	67 319	983	2 084	42 116	244 583	415 104	658 481	19 616
324122	Asphalt shingle & coating materials mfg . . . . .	2	8	2	110	3 390	85	176	2 428	15 029	28 706	43 777	880

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
<b>NEW YORK—Con.</b>														
<b>31-33</b>	<b>Manufacturing—Con.</b>													
324	Petroleum & coal products mfg—Con.													
3241	Petroleum & coal products mfg—Con.													
32419	Other petroleum & coal products mfg . . . . .	2	17	5	e	D	D	D	D	D	D	D	D	
324191	Petroleum lubricating oil & grease mfg . . . . .	2	12	5		230	7 893	136	222	3 639	22 488	38 239	58 191	936
325	Chemical mfg . . . . .	1	634	257		65 298	2 849 627	36 064	80 607	1 305 188	12 668 191	7 821 666	20 544 485	1 119 411
3251	Basic chemical mfg . . . . .	1	88	45		5 995	302 423	3 627	8 025	167 270	1 179 774	1 106 202	2 284 090	186 541
32512	Industrial gas mfg . . . . .	1	16	5	e	D	D	D	D	D	D	D	D	8 690
325120	Industrial gas mfg . . . . .	1	16	5	e	D	D	D	D	D	D	D	D	8 690
32513	Dye & pigment mfg . . . . .	—	7	1		1 120	48 821	588	1 252	27 272	166 992	126 624	299 836	D
325131	Inorganic dye & pigment mfg . . . . .	1	3	1	e	D	D	D	D	D	D	D	D	D
325132	Synthetic organic dye & pigment mfg . . . . .	—	4	4	f	D	D	D	D	D	D	D	D	D
32518	Other basic inorganic chemical mfg . . . . .	—	27	14		1 755	91 924	1 201	2 630	57 911	376 759	322 090	687 518	99 285
325181	Alkalies & chlorine mfg . . . . .	—	4	2	f	D	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg . . . . .	—	23	12	f	D	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg . . . . .	1	36	20		2 752	144 477	1 689	3 859	76 013	522 156	602 829	1 128 619	60 446
325192	Cyclic crude & intermediate mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg . . . . .	2	31	19	g	D	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg . . . . .	1	18	9		2 707	153 955	1 757	3 725	85 666	601 015	542 247	1 137 866	104 333
32521	Resin & synthetic rubber mfg . . . . .	1	16	8	h	D	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg . . . . .	2	10	6	f	D	D	D	D	D	D	D	D	D
325212	Synthetic rubber mfg . . . . .	—	6	2	g	D	D	D	D	D	D	D	D	D
32522	Artificial & synthetic fibers & filaments mfg . . . . .	—	2	1	c	D	D	D	D	D	D	D	D	D
325222	Noncellulosic organic fiber mfg . . . . .	—	2	1	c	D	D	D	D	D	D	D	D	D
3253	Pesticide, fertilizer, & other agricultural chemical mfg . . . . .	5	27	8		920	26 496	698	1 460	18 332	278 014	265 365	552 428	8 065
32531	Fertilizer mfg . . . . .	2	21	6	f	D	D	D	D	D	D	D	D	6 054
325312	Phosphatic fertilizer mfg . . . . .	9	2	1	c	D	D	D	D	D	D	D	D	D
325314	Fertilizer (mixing only) mfg . . . . .	1	18	4		500	11 245	373	771	7 127	39 300	122 705	162 539	D
32532	Pesticide & other agricultural chemical mfg . . . . .	9	6	2	c	D	D	D	D	D	D	D	D	2 011
325320	Pesticide & other agricultural chemical mfg . . . . .	9	6	2	c	D	D	D	D	D	D	D	D	2 011
3254	Pharmaceutical & medicine mfg . . . . .	—	126	66		18 825	793 840	9 937	19 855	348 307	4 301 479	1 728 885	6 023 483	401 680
32541	Pharmaceutical & medicine mfg . . . . .	—	126	66		18 825	793 840	9 937	19 855	348 307	4 301 479	1 728 885	6 023 483	401 680
325411	Medicinal & botanical mfg . . . . .	6	25	5	f	D	D	D	D	D	D	D	D	20 462
325412	Pharmaceutical preparation mfg . . . . .	—	86	52		15 420	640 199	8 705	17 453	291 278	3 896 502	1 374 294	5 242 240	365 840
325413	In-vitro diagnostic substance mfg . . . . .	—	9	6		2 355	114 490	678	1 293	38 292	342 723	166 284	526 550	14 768
325414	Biological product (except diagnostic) mfg . . . . .	—	6	3	e	D	D	D	D	D	D	D	D	610
3255	Paint, coating, & adhesive mfg . . . . .	3	91	27		2 098	77 115	1 222	2 430	31 324	252 034	258 032	513 126	11 396
32551	Paint & coating mfg . . . . .	3	62	18		1 308	46 882	715	1 355	18 318	110 640	136 765	246 808	6 305
325510	Paint & coating mfg . . . . .	3	62	18		1 308	46 882	715	1 355	18 318	110 640	136 765	246 808	6 305
32552	Adhesive mfg . . . . .	2	29	9		790	30 233	507	1 075	13 006	141 394	121 267	266 318	5 091
325520	Adhesive mfg . . . . .	2	29	9		790	30 233	507	1 075	13 006	141 394	121 267	266 318	5 091
3256	Soap, cleaning compound, & toilet preparation mfg . . . . .	1	175	55		10 559	307 804	6 749	14 066	136 629	2 089 060	1 270 266	3 345 386	63 975
32561	Soap & cleaning compound mfg . . . . .	4	93	23		2 340	73 267	1 584	3 110	39 540	250 377	227 402	480 166	11 091
325611	Soap & other detergent mfg . . . . .	5	36	6		992	29 036	741	1 503	18 146	98 191	87 479	187 296	6 932
325612	Polish & other sanitation good mfg . . . . .	4	50	14		1 121	31 394	715	1 343	15 105	104 554	86 220	192 612	2 047
325613	Surface active agent mfg . . . . .	3	7	3		227	12 837	128	264	6 289	47 632	53 703	100 258	2 112
32562	Toilet preparation mfg . . . . .	1	82	32		8 219	234 537	5 165	10 956	97 089	1 838 683	1 042 864	2 865 220	52 884
325620	Toilet preparation mfg . . . . .	1	82	32		8 219	234 537	5 165	10 956	97 089	1 838 683	1 042 864	2 865 220	52 884

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
325	Chemical mfg—Con.												
3259	Other chemical product mfg.....	—	109	47	24 194	1 187 994	12 074	31 046	517 660	3 966 815	2 650 669	6 688 106	343 421
32591	Printing ink mfg.....	—	16	4	e	D	D	D	D	D	D	D	D
325910	Printing ink mfg.....	—	16	4	e	D	D	D	D	D	D	D	D
32592	Explosives mfg.....	3	2	2	e	D	D	D	D	D	D	D	D
325920	Explosives mfg.....	3	2	2	e	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg.....	—	91	41	23 403	1 160 683	11 579	29 917	502 354	3 889 740	2 566 557	6 528 875	337 295
325991	Custom compounding of purchased resin...	2	16	6	626	23 492	344	678	11 872	57 964	85 739	144 288	D
325992	Photographic film, paper, plate, & chemical mfg.....	—	23	12	21 175	1 074 929	10 364	27 497	461 766	3 656 601	2 255 620	5 982 913	D
325998	All other miscellaneous chemical product & preparation mfg.....	2	52	23	1 602	62 262	871	1 742	28 716	175 175	225 198	401 674	D
326	Plastics & rubber products mfg.....	2	740	371	37 810	1 059 864	28 978	55 218	658 734	2 774 214	2 408 666	5 178 793	237 429
3261	Plastics product mfg.....	2	663	341	34 197	938 993	26 238	49 705	573 876	2 437 293	2 069 852	4 501 752	210 692
32611	Unsupported plastics film, sheet, & bag mfg..	2	98	52	4 853	151 382	3 628	7 518	95 710	387 695	461 443	849 681	45 360
326111	Unsupported plastics bag mfg.....	1	52	27	2 901	86 935	2 242	4 634	58 001	228 497	225 893	453 072	14 679
326112	Unsupported plastics packaging film & sheet mfg.....	2	11	7	654	18 202	492	1 076	12 707	40 314	53 216	93 761	20 198
326113	Unsupported plastics film & sheet (except packaging) mfg.....	3	35	18	1 298	46 245	894	1 808	25 002	118 884	182 334	302 848	10 483
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg.....	—	56	22	2 299	79 401	1 650	3 187	44 325	299 558	201 778	501 634	25 434
326121	Unsupported plastics profile shape mfg....	—	46	16	1 688	62 929	1 150	2 298	34 347	242 018	133 439	378 139	20 472
326122	Plastics pipe & pipe fitting mfg.....	—	10	6	611	16 472	500	889	9 978	57 540	68 339	123 495	4 962
32613	Laminated plastics plate, sheet, & shape mfg....	7	21	5	264	8 241	208	334	6 178	22 750	18 177	41 167	2 214
326130	Laminated plastics plate, sheet, & shape mfg.....	7	21	5	264	8 241	208	334	6 178	22 750	18 177	41 167	2 214
32614	Polystyrene foam product mfg.....	1	20	10	1 299	33 678	965	2 144	21 928	158 100	91 536	247 986	9 827
326140	Polystyrene foam product mfg.....	1	20	10	1 299	33 678	965	2 144	21 928	158 100	91 536	247 986	9 827
32615	Urethane & other foam product (except polystyrene) mfg.....	2	14	9	1 201	39 003	846	1 665	21 920	117 073	92 692	206 610	10 199
326150	Urethane & other foam product (except polystyrene) mfg....	2	14	9	1 201	39 003	846	1 665	21 920	117 073	92 692	206 610	10 199
32616	Plastics bottle mfg.....	—	13	8	853	20 301	622	1 215	12 532	53 363	52 106	104 956	12 426
326160	Plastics bottle mfg....	—	13	8	853	20 301	622	1 215	12 532	53 363	52 106	104 956	12 426
32619	Other plastics product mfg.....	2	441	235	23 428	606 987	18 319	33 642	371 283	1 398 754	1 152 120	2 549 718	105 232
326192	Resilient floor covering mfg.....	1	5	2	383	12 383	331	637	9 087	36 475	30 557	65 466	D
326199	All other plastics product mfg.....	2	428	233	23 009	593 826	17 959	32 951	361 672	1 360 495	1 120 198	2 481 096	103 941
3262	Rubber product mfg.....	1	77	30	3 613	120 871	2 740	5 513	84 858	336 921	338 814	677 041	26 737
32621	Tire mfg.....	—	25	6	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading).....	—	7	2	g	D	D	D	D	D	D	D	D
326212	Tire retreading.....	5	18	4	c	D	D	D	D	D	D	D	D
32622	Rubber & plastics hoses & belting mfg.....	—	5	3	e	D	D	D	D	D	D	D	D
326220	Rubber & plastics hoses & belting mfg..	—	5	3	e	D	D	D	D	D	D	D	D
32629	Other rubber product mfg.....	4	47	21	1 792	44 615	1 295	2 708	27 126	116 805	103 970	221 109	7 882
326291	Rubber product mfg for mechanical use.....	3	17	7	568	13 418	442	928	9 194	43 081	36 012	78 833	3 623
326299	All other rubber product mfg.....	4	30	14	1 224	31 197	853	1 780	17 932	73 724	67 958	142 276	4 259



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

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<b>NEW YORK—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
327	Nonmetallic mineral product mfg . . . . .	1	712	204	20 475	711 402	15 117	30 689	462 980	2 195 707	1 406 990	3 611 391	270 569
3271	Clay product & refractory mfg . . . . .	—	69	28	5 306	168 411	3 879	7 813	107 098	490 355	189 670	675 968	36 756
32711	Pottery, ceramics, & plumbing fixture mfg . . . . .	—	48	17	3 799	114 607	2 748	5 335	70 673	350 605	107 341	456 277	22 621
327112	Vitreous china, fine earthenware, & other pottery product mfg . . . . .	—	33	8	g	D	D	D	D	D	D	D	D
327113	Porcelain electrical supply mfg . . . . .	—	12	8	2 254	74 667	1 651	3 227	45 765	254 528	76 497	328 987	17 347
32712	Clay building material & refractories mfg . . . . .	—	21	11	1 507	53 804	1 131	2 478	36 425	139 750	82 329	219 691	14 135
327122	Ceramic wall & floor tile mfg . . . . .	—	5	1	e	D	D	D	D	D	D	D	D
327124	Clay refractory mfg . . . . .	—	3	2	c	D	D	D	D	D	D	D	D
327125	Nonclay refractory mfg . . . . .	—	9	6	785	31 217	557	1 149	19 616	81 775	50 625	130 985	D
3272	Glass & glass product mfg . . . . .	—	164	35	4 195	146 204	3 232	6 651	100 061	469 977	268 632	738 560	131 969
32721	Glass & glass product mfg . . . . .	—	164	35	4 195	146 204	3 232	6 651	100 061	469 977	268 632	738 560	131 969
327212	Other pressed & blown glass & glassware mfg . . . . .	—	45	7	1 494	55 290	1 155	2 383	36 600	219 976	68 192	282 729	D
327213	Glass container mfg . . . . .	—	3	3	f	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass . . . . .	2	115	25	g	D	D	D	D	D	D	D	8 559
3273	Cement & concrete product mfg . . . . .	2	326	86	5 417	193 664	3 896	7 565	124 552	543 267	456 307	1 000 367	62 865
32731	Cement mfg . . . . .	—	10	4	523	24 978	382	869	17 038	127 203	65 360	193 530	18 380
327310	Cement mfg . . . . .	—	10	4	523	24 978	382	869	17 038	127 203	65 360	193 530	18 380
32732	Ready-mix concrete mfg . . . . .	2	171	45	2 634	100 985	1 974	3 808	69 655	240 398	270 821	512 204	22 316
327320	Ready-mix concrete mfg . . . . .	2	171	45	2 634	100 985	1 974	3 808	69 655	240 398	270 821	512 204	22 316
32733	Concrete pipe, brick, & block mfg . . . . .	1	58	19	956	30 321	575	1 152	14 772	81 531	66 524	148 776	8 845
327331	Concrete block & brick mfg . . . . .	2	48	16	711	23 242	389	801	10 297	64 034	52 611	117 397	7 735
327332	Concrete pipe mfg . . . . .	—	10	3	245	7 079	186	351	4 475	17 497	13 913	31 379	1 110
32739	Other concrete product mfg . . . . .	1	87	18	1 304	37 380	965	1 736	23 087	94 135	53 602	145 857	13 324
327390	Other concrete product mfg . . . . .	1	87	18	1 304	37 380	965	1 736	23 087	94 135	53 602	145 857	13 324
3274	Lime & gypsum product mfg . . . . .	—	14	5	660	26 453	521	1 265	20 044	64 703	88 194	152 754	5 431
32742	Gypsum product mfg . . . . .	—	13	5	f	D	D	D	D	D	D	D	D
327420	Gypsum product mfg . . . . .	—	13	5	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product mfg . . . . .	—	139	50	4 897	176 670	3 589	7 395	111 225	627 405	404 187	1 043 742	33 548
32791	Abrasive product mfg . . . . .	—	32	21	2 571	94 295	1 871	3 877	55 183	352 220	246 346	607 445	18 817
327910	Abrasive product mfg . . . . .	—	32	21	2 571	94 295	1 871	3 877	55 183	352 220	246 346	607 445	18 817
32799	All other nonmetallic mineral product mfg . . . . .	1	107	29	2 326	82 375	1 718	3 518	56 042	275 185	157 841	436 297	14 731
327991	Cut stone & stone product mfg . . . . .	4	68	11	762	21 686	600	1 198	15 365	45 026	31 941	76 029	2 743
327992	Ground or treated mineral & earth mfg . . . . .	—	12	4	447	18 216	302	633	10 887	54 153	31 410	82 580	4 815
327993	Mineral wool mfg . . . . .	—	11	5	541	22 294	444	916	17 393	126 271	42 791	175 935	5 215
327999	All other miscellaneous nonmetallic mineral product mfg . . . . .	—	16	9	576	20 179	372	771	12 397	49 735	51 699	101 753	1 958
331	Primary metal mfg . . . . .	—	208	104	16 849	678 459	12 279	26 564	455 532	1 655 819	3 862 918	5 545 987	212 332
3311	Iron & steel mills & ferroalloy mfg . . . . .	—	14	12	2 556	124 079	1 755	3 924	86 336	595 495	359 912	994 935	39 899
33111	Iron & steel mills & ferroalloy mfg . . . . .	—	14	12	2 556	124 079	1 755	3 924	86 336	595 495	359 912	994 935	39 899
331111	Iron & steel mills . . . . .	—	12	10	g	D	D	D	D	D	D	D	D
331112	Electrometallurgical ferroalloy product mfg . . . . .	—	2	2	c	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel . . . . .	—	16	9	1 431	57 315	1 026	2 107	33 984	133 311	270 276	402 515	14 418
33121	Iron & steel pipes & tubes mfg from purchased steel . . . . .	—	6	3	388	11 158	315	664	7 909	26 287	49 240	76 051	5 152
331210	Iron & steel pipes & tubes mfg from purchased steel . . . . .	—	6	3	388	11 158	315	664	7 909	26 287	49 240	76 051	5 152
33122	Rolling & drawing of purchased steel . . . . .	—	10	6	1 043	46 157	711	1 443	26 075	107 024	221 036	326 464	9 266
331221	Cold-rolled steel shape mfg . . . . .	—	3	3	776	37 967	514	1 052	20 265	85 123	180 881	265 501	7 569
331222	Steel wire drawing . . . . .	1	7	3	267	8 190	197	391	5 810	21 901	40 155	60 963	1 697

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
331	Primary metal mfg—Con.												
3313	Alumina & aluminum production & processing . . .	-	10	10	3 799	171 805	2 935	6 514	118 838	260 603	1 963 310	2 221 114	86 399
33131	Alumina & aluminum production & processing . . . . .	-	10	10	3 799	171 805	2 935	6 514	118 838	260 603	1 963 310	2 221 114	86 399
331312	Primary aluminum production . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
331314	Secondary smelting & alloying of aluminum . . .	-	2	2	c	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, & foil mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg . . . . .	-	5	5	1 764	72 105	1 381	3 064	50 339	173 379	413 608	585 852	16 295
3314	Nonferrous metal (except aluminum) production & processing . . . . .	-	60	26	4 716	182 035	3 141	6 713	116 781	420 637	1 050 532	1 468 234	46 106
33141	Nonferrous metal (except aluminum) smelting & refining . . . . .	-	21	4	344	13 394	184	406	6 941	43 090	118 407	159 941	4 102
331419	Other nonferrous metal primary smelting & refining . . . . .	-	21	4	344	13 394	184	406	6 941	43 090	118 407	159 941	4 102
33142	Copper rolling, drawing, extruding, & alloying . . .	-	12	8	2 775	102 890	1 972	4 132	71 361	215 402	533 475	755 778	24 122
331421	Copper rolling, drawing, & extruding . . . . .	-	8	4	1 637	74 850	1 193	2 564	51 557	144 264	416 612	566 423	16 488
331422	Copper wire (except mechanical) drawing . . . . .	-	3	3	g	D	D	D	D	D	D	D	D
331423	Secondary smelting, refining, & alloying of copper . . . . .	-	1	1	c	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying . . .	-	27	14	1 597	65 751	985	2 175	38 479	162 145	398 650	552 515	17 882
331491	Other nonferrous metal rolling, drawing, & extruding . . . . .	1	12	7	1 016	41 903	652	1 472	25 561	114 166	165 547	274 007	5 292
331492	Other nonferrous metal secondary smelting, refining, & alloying . . .	-	15	7	581	23 848	333	703	12 918	47 979	233 103	278 508	12 590
3315	Foundries . . . . .	-	108	47	4 347	143 225	3 422	7 306	99 593	245 773	218 888	459 189	25 510
33151	Ferrous metal foundries . . . . .	-	23	10	1 313	41 612	1 000	2 050	28 276	81 570	66 495	142 342	5 001
331511	Iron foundries . . . . .	-	15	7	652	20 422	496	973	13 593	36 823	33 286	67 558	3 488
331512	Steel investment foundries . . . . .	-	3	2	e	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment) . . . . .	-	5	1	c	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries . . . . .	-	85	37	3 034	101 613	2 422	5 256	71 317	164 203	152 393	316 847	20 509
331521	Aluminum die-casting foundries . . . . .	-	10	7	797	34 064	636	1 419	24 805	43 367	63 725	107 952	5 367
331522	Nonferrous (except aluminum) die-casting foundries . . . . .	-	22	12	967	33 791	761	1 758	23 381	64 179	43 538	107 623	8 320
331524	Aluminum foundries (except die-casting) . . . . .	1	26	10	869	23 984	700	1 442	17 063	40 083	22 158	61 720	6 511
331525	Copper foundries (except die-casting) . . . . .	2	18	7	283	6 118	228	461	4 201	10 630	5 221	15 970	256
331528	Other nonferrous foundries (except die-casting) . . . . .	-	9	1	118	3 656	97	176	1 867	5 944	17 751	23 582	55
332	Fabricated metal product mfg . . . . .	1	2 771	763	67 717	2 204 994	50 203	101 430	1 377 079	4 837 937	3 418 191	8 267 322	380 085
3321	Forging & stamping . . . . .	1	164	69	4 556	148 621	3 437	7 043	92 861	301 522	255 067	553 727	18 325
33211	Forging & stamping . . . . .	1	164	69	4 556	148 621	3 437	7 043	92 861	301 522	255 067	553 727	18 325
332111	Iron & steel forging . . . . .	1	16	8	599	19 511	468	990	14 738	48 607	52 571	97 577	4 978
332114	Custom roll forming . . . . .	-	20	6	354	11 829	259	500	7 273	24 619	32 688	60 242	973
332116	Metal stamping . . . . .	1	122	52	3 464	112 703	2 623	5 387	68 856	218 461	160 721	377 449	11 817
3322	Cutlery & handtool mfg . . . . .	1	96	36	4 660	137 896	3 382	7 046	79 378	347 327	246 409	606 573	23 267
33221	Cutlery & handtool mfg . . . . .	1	96	36	4 660	137 896	3 382	7 046	79 378	347 327	246 409	606 573	23 267
332211	Cutlery & flatware (except precious) mfg . . . . .	2	20	11	1 965	53 762	1 564	3 125	37 479	127 620	69 184	194 695	9 528
332212	Hand & edge tool mfg . . . . .	-	58	15	1 566	56 519	965	1 931	24 436	149 049	98 229	248 213	7 268
332213	Saw blade & handsaw mfg . . . . .	-	12	4	786	19 786	607	1 476	12 613	58 226	68 336	140 423	5 874
332214	Kitchen utensil, pot, & pan mfg . . . . .	4	6	6	343	7 829	246	514	4 850	12 432	10 660	23 242	597

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>NEW YORK—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg—Con.												
3323	Architectural & structural metals mfg . . . . .	1	620	187	13 608	443 185	9 700	19 438	268 234	877 845	770 967	1 640 674	37 906
33231	Plate work & fabricated structural product mfg . . . . .	2	166	44	3 541	118 919	2 319	4 854	65 555	236 982	266 321	501 583	8 405
332311	Prefabricated metal building & component mfg . . . . .	—	14	6	724	25 410	448	1 026	11 126	41 026	35 833	76 762	915
332312	Fabricated structural metal mfg . . . . .	2	118	33	2 341	78 929	1 503	3 118	45 051	169 788	208 973	377 483	6 759
332313	Plate work mfg . . . . .	1	34	5	476	14 580	368	710	9 378	26 168	21 515	47 338	731
33232	Ornamental & architectural metal products mfg . . . . .	1	454	143	10 067	324 266	7 381	14 584	202 679	640 863	504 646	1 139 091	29 501
332321	Metal window & door mfg . . . . .	2	94	32	2 224	58 894	1 603	3 232	35 339	141 948	119 693	261 464	3 235
332322	Sheet metal work mfg . . . . .	1	236	90	6 444	220 603	4 890	9 589	142 506	406 183	312 706	715 143	22 704
332323	Ornamental & architectural metal work mfg . . . . .	1	124	21	1 399	44 769	888	1 763	24 834	92 732	72 247	162 484	3 562
3324	Boiler, tank, & shipping container mfg . . . . .	—	82	40	5 004	197 839	3 537	7 427	121 012	436 679	551 737	1 016 518	33 658
33241	Power boiler & heat exchanger mfg . . . . .	—	34	18	2 784	106 891	1 867	3 924	58 032	223 957	162 782	392 203	8 194
332410	Power boiler & heat exchanger mfg . . . . .	—	34	18	2 784	106 891	1 867	3 924	58 032	223 957	162 782	392 203	8 194
33242	Metal tank (heavy gauge) mfg . . . . .	—	22	13	1 123	42 765	772	1 564	24 808	107 777	40 021	149 681	3 558
332420	Metal tank (heavy gauge) mfg . . . . .	—	22	13	1 123	42 765	772	1 564	24 808	107 777	40 021	149 681	3 558
33243	Metal can, box, & other metal container (light gauge) mfg . . . . .	—	26	9	1 097	48 183	898	1 939	38 172	104 945	348 934	474 634	21 906
332431	Metal can mfg . . . . .	—	7	5	831	40 869	688	1 538	33 662	90 400	336 078	447 064	21 515
332439	Other metal container mfg . . . . .	3	19	4	266	7 314	210	401	4 510	14 545	12 856	27 570	391
3325	Hardware mfg . . . . .	2	55	26	3 335	102 602	2 475	4 765	62 816	256 445	135 850	393 998	12 966
33251	Hardware mfg . . . . .	2	55	26	3 335	102 602	2 475	4 765	62 816	256 445	135 850	393 998	12 966
332510	Hardware mfg . . . . .	2	55	26	3 335	102 602	2 475	4 765	62 816	256 445	135 850	393 998	12 966
3326	Spring & wire product mfg . . . . .	3	77	19	1 833	49 534	1 399	2 572	30 826	105 061	80 002	184 772	8 670
33261	Spring & wire product mfg . . . . .	3	77	19	1 833	49 534	1 399	2 572	30 826	105 061	80 002	184 772	8 670
332612	Spring (light gauge) mfg . . . . .	5	9	4	397	10 821	313	533	7 857	26 327	14 872	41 432	3 355
332618	Other fabricated wire product mfg . . . . .	3	63	15	1 404	37 681	1 063	1 993	22 451	75 598	62 991	138 490	5 129
3327	Machine shops, turned product, & screw, nut, & bolt mfg . . . . .	1	1 118	217	18 023	580 869	13 837	27 469	382 221	1 192 425	650 087	1 821 473	102 391
33271	Machine shops . . . . .	1	911	129	10 758	348 154	8 229	15 641	227 773	676 482	291 947	954 976	57 986
332710	Machine shops . . . . .	1	911	129	10 758	348 154	8 229	15 641	227 773	676 482	291 947	954 976	57 986
33272	Turned product & screw, nut, & bolt mfg . . . . .	1	207	88	7 265	232 715	5 608	11 828	154 448	515 943	358 140	866 497	44 405
332721	Precision turned product mfg . . . . .	—	153	65	5 649	176 977	4 524	9 549	124 124	379 966	251 412	625 498	36 194
332722	Bolt, nut, screw, rivet, & washer mfg . . . . .	4	54	23	1 616	55 738	1 084	2 279	30 324	135 977	106 728	240 999	8 211
3328	Coating, engraving, heat treating, & allied activities . . . . .	1	275	83	6 003	171 072	4 654	9 292	107 985	367 071	161 226	520 175	84 071
33281	Coating, engraving, heat treating, & allied activities . . . . .	1	275	83	6 003	171 072	4 654	9 292	107 985	367 071	161 226	520 175	84 071
332811	Metal heat treating . . . . .	1	28	12	493	16 846	370	720	9 848	40 045	8 951	49 017	3 450
332812	Metal coating/engraving (exc jewelry/silverware)/allied services . . . . .	—	95	32	2 814	82 691	2 221	4 593	55 141	188 640	92 331	272 453	57 684
332813	Electroplating, plating, polishing, anodizing, & coloring . . . . .	1	152	39	2 696	71 535	2 063	3 979	42 996	138 386	59 944	198 705	22 937
3329	Other fabricated metal product mfg . . . . .	—	284	86	10 695	373 376	7 782	16 378	231 746	953 562	566 846	1 529 412	58 831
33291	Metal valve mfg . . . . .	—	45	26	2 887	95 006	2 153	4 651	61 452	275 653	184 044	463 077	16 135
332911	Industrial valve mfg . . . . .	—	17	11	1 491	50 865	1 134	2 417	32 545	158 051	95 109	256 511	5 677
332912	Fluid power valve & hose fitting mfg . . . . .	1	16	6	593	19 297	390	846	12 268	44 845	18 102	64 029	3 205
332913	Plumbing fixture fitting & trim mfg . . . . .	—	6	5	495	14 188	396	922	9 364	27 567	53 517	81 455	1 794
332919	Other metal valve & pipe fitting mfg . . . . .	1	6	4	308	10 656	233	466	7 275	45 190	17 316	61 082	5 459

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg—Con.												
3329	Other fabricated metal product mfg—Con.												
33299	All other fabricated metal product mfg . . . . .	—	239	60	7 808	278 370	5 629	11 727	170 294	677 909	382 802	1 066 335	42 696
332991	Ball & roller bearing mfg . . . . .	—	16	8	2 162	91 257	1 572	3 526	56 743	194 498	90 833	285 048	19 458
332994	Small arms mfg . . . . .	—	8	2	g	D	D	D	D	D	D	D	4 201
332995	Other ordnance & accessories mfg . . . . .	—	3	2	160	6 854	43	85	1 373	19 706	10 891	30 263	D
332996	Fabricated pipe & pipe fitting mfg . . . . .	2	32	7	503	16 437	326	630	8 414	37 255	31 343	69 481	2 474
332997	Industrial pattern mfg . . . . .	1	28	1	c	D	D	D	D	D	D	D	543
332998	Enameled iron & metal sanitary ware mfg . . . . .	—	6	3	211	6 914	140	247	3 218	10 401	10 719	21 173	D
332999	All other miscellaneous fabricated metal product mfg . . . . .	1	145	37	3 108	99 590	2 147	4 201	55 575	238 980	171 557	411 261	15 473
333	Machinery mfg . . . . .	—	1 315	469	70 942	2 897 249	44 290	85 612	1 500 573	9 378 709	7 591 564	17 071 991	471 975
3331	Agriculture, construction, & mining machinery mfg . . . . .	1	48	18	2 904	91 882	1 561	3 124	42 962	167 579	206 634	384 557	14 176
33311	Agricultural implement mfg . . . . .	1	20	6	g	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg . . . . .	4	17	3	e	D	D	D	D	D	D	D	3 369
333112	Lawn & garden tractor & home lawn & garden equipment mfg . . . . .	—	3	3	1 005	29 053	240	413	5 793	21 451	74 051	106 180	D
33312	Construction machinery mfg . . . . .	2	23	10	952	28 413	612	1 223	14 992	48 569	67 337	117 550	4 969
333120	Construction machinery mfg . . . . .	2	23	10	952	28 413	612	1 223	14 992	48 569	67 337	117 550	4 969
33313	Mining & oil & gas field machinery mfg . . . . .	—	5	2	e	D	D	D	D	D	D	D	D
333131	Mining machinery & equipment mfg . . . . .	—	5	2	e	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg . . . . .	—	249	81	7 423	318 549	4 408	8 308	148 189	874 096	684 177	1 575 416	32 472
33321	Sawmill & woodworking machinery mfg . . . . .	4	5	3	124	5 250	78	186	3 073	10 907	7 750	18 908	513
333210	Sawmill & woodworking machinery mfg . . . . .	4	5	3	124	5 250	78	186	3 073	10 907	7 750	18 908	513
33322	Plastics & rubber industry machinery mfg . . . . .	—	19	8	944	37 412	589	1 178	19 607	89 337	68 244	159 929	4 174
333220	Plastics & rubber industry machinery mfg . . . . .	—	19	8	944	37 412	589	1 178	19 607	89 337	68 244	159 929	4 174
33329	Other industrial machinery mfg . . . . .	—	225	70	6 355	275 887	3 741	6 944	125 509	773 852	608 183	1 396 579	27 785
333291	Paper industry machinery mfg . . . . .	1	32	9	795	33 801	474	924	17 166	61 796	60 123	121 789	3 349
333292	Textile machinery mfg . . . . .	—	24	8	581	22 452	371	686	11 069	42 028	31 194	72 235	1 569
333293	Printing machinery & equipment mfg . . . . .	1	41	10	686	25 304	414	845	14 143	52 144	31 900	81 801	1 629
333294	Food product machinery mfg . . . . .	1	31	9	501	17 986	277	503	7 941	38 296	46 139	83 841	1 250
333295	Semiconductor machinery mfg . . . . .	—	8	6	1 705	93 104	1 046	1 687	40 704	407 548	253 105	681 081	12 181
333298	All other industrial machinery mfg . . . . .	1	89	28	2 087	83 240	1 159	2 299	34 486	172 040	185 722	355 832	7 807
3333	Commercial & service industry machinery mfg . . . . .	—	151	67	17 617	831 909	10 651	17 865	379 040	4 029 838	3 105 726	7 177 276	201 897
33331	Commercial & service industry machinery mfg . . . . .	—	151	67	17 617	831 909	10 651	17 865	379 040	4 029 838	3 105 726	7 177 276	201 897
333312	Commercial laundry, drycleaning, & pressing machine mfg . . . . .	—	1	1	c	D	D	D	D	D	D	D	D
333313	Office machinery mfg . . . . .	—	15	9	f	D	D	D	D	D	D	D	D
333314	Optical instrument & lens mfg . . . . .	—	48	26	1 456	54 104	880	1 613	23 552	115 376	74 064	191 950	6 025
333315	Photographic & photocopying equipment mfg . . . . .	—	41	13	j	D	D	D	D	D	D	D	D
333319	Other commercial & service industry machinery mfg . . . . .	1	42	16	1 855	78 868	1 100	1 523	25 038	144 204	72 200	216 205	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
333	Machinery mfg—Con.												
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	-	97	51	7 323	256 555	4 918	10 061	143 952	695 023	727 406	1 427 651	25 386
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	97	51	7 323	256 555	4 918	10 061	143 952	695 023	727 406	1 427 651	25 386
333411	Air purification equipment mfg .....	-	10	4	265	8 472	168	331	4 394	16 328	23 608	38 923	480
333412	Industrial & commercial fan & blower mfg .....	-	10	5	931	31 075	376	746	11 696	109 491	43 527	153 483	4 021
333414	Heating equipment (except warm air furnaces) mfg .....	-	27	13	1 497	45 579	1 012	1 942	21 885	129 513	106 049	233 773	5 705
333415	AC & warm air heating & commercial/ industrial refrig equip mfg .....	-	50	29	4 630	171 429	3 362	7 042	105 977	439 691	554 222	1 001 472	15 180
3335	Metalworking machinery mfg .....	1	422	107	10 863	424 038	7 430	14 517	252 429	839 653	564 155	1 400 406	58 399
33351	Metalworking machinery mfg .....	1	422	107	10 863	424 038	7 430	14 517	252 429	839 653	564 155	1 400 406	58 399
333511	Industrial mold mfg ...	1	94	21	1 504	54 314	1 178	2 276	36 824	104 588	36 910	140 817	9 674
333512	Machine tool (metal cutting types) mfg ...	-	20	13	3 105	134 266	1 906	3 675	70 990	275 117	246 257	530 733	14 186
333513	Machine tool (metal forming types) mfg ...	4	11	6	1 137	48 511	660	1 305	27 209	112 794	67 216	171 905	6 961
333514	Special die & tool, die set, jig, & fixture mfg .	3	185	40	2 710	90 356	2 079	3 954	61 941	162 768	69 523	234 312	14 821
333515	Cutting tool & machine tool accessory mfg ..	1	87	14	g	D	D	D	D	D	D	D	6 669
333516	Rolling mill machinery & equipment mfg ....	1	2	1	c	D	D	D	D	D	D	D	D
333518	Other metalworking machinery mfg .....	1	23	12	1 071	48 601	664	1 442	27 941	93 720	86 343	177 770	D
3336	Engine, turbine, & power transmission equipment mfg .....	-	53	32	6 787	267 749	4 815	10 322	187 930	946 527	949 626	1 950 492	35 223
33361	Engine, turbine, & power transmission equipment mfg .....	-	53	32	6 787	267 749	4 815	10 322	187 930	946 527	949 626	1 950 492	35 223
333611	Turbine & turbine generator set unit mfg .....	-	9	7	2 891	138 057	2 213	4 560	100 486	432 180	465 456	951 082	17 952
333612	Speed changer, industrial high-speed drive, & gear mfg ....	3	20	12	g	D	D	D	D	D	D	D	D
333613	Mechanical power transmission equipment mfg .....	-	15	10	1 247	40 789	937	1 830	26 061	86 040	58 960	144 485	5 175
333618	Other engine equipment mfg .....	-	9	3	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	-	295	113	18 025	706 567	10 507	21 415	346 071	1 825 993	1 353 840	3 156 193	104 422
33391	Pump & compressor mfg .....	-	36	25	5 534	236 825	3 455	6 985	129 951	721 741	693 466	1 381 687	49 054
333911	Pump & pumping equipment mfg .....	-	20	14	g	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg .....	-	15	10	3 391	146 769	2 172	4 290	80 202	467 154	384 313	829 058	30 312
33392	Material handling equipment mfg .....	1	77	30	3 236	114 417	2 020	4 368	54 196	206 048	213 625	421 553	7 688
333921	Elevator & moving stairway mfg .....	3	20	12	783	28 183	556	1 226	15 535	59 053	40 823	99 746	1 279
333922	Conveyor & conveying equipment mfg .....	1	27	5	445	14 540	280	527	6 654	32 048	25 532	58 048	940
333923	Overhead traveling crane, hoist, & monorail system mfg .	-	10	5	462	15 513	254	600	7 573	42 682	22 854	65 986	1 301
333924	Industrial truck, tractor, trailer, & stacker machinery mfg .....	-	20	8	1 546	56 181	930	2 015	24 434	72 265	124 416	197 773	4 168
33399	All other general-purpose machinery mfg .....	1	182	58	9 255	355 325	5 032	10 062	161 924	898 204	446 749	1 352 953	47 680
333991	Power-driven handtool mfg .....	1	13	4	426	16 766	201	394	6 315	35 291	24 830	60 466	6 340
333992	Welding & soldering equipment mfg .....	-	3	1	c	D	D	D	D	D	D	D	D
333993	Packaging machinery mfg .....	4	34	11	922	32 599	508	1 030	14 507	81 911	55 873	139 026	3 401
333994	Industrial process furnace & oven mfg ..	3	14	8	633	28 274	347	802	12 335	56 019	56 282	111 617	2 435
333995	Fluid power cylinder & actuator mfg .....	-	13	8	2 760	136 314	1 298	2 627	55 289	340 224	49 982	403 847	9 892
333997	Scale & balance (except laboratory) mfg .....	-	4	2	251	7 321	72	134	1 647	19 381	18 247	37 791	288
333999	All other miscellaneous general-purpose machinery mfg .....	1	94	24	4 016	124 800	2 500	4 892	67 799	335 332	220 799	549 871	23 407



**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>NEW YORK—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg . . . . .	—	975	433	86 243	3 541 667	43 927	87 451	1 264 620	8 449 091	6 530 471	15 113 667	536 066
3341	Computer & peripheral equipment mfg . . . . .	—	93	30	12 544	552 320	5 911	10 499	155 545	1 175 998	939 921	2 048 399	75 803
33411	Computer & peripheral equipment mfg . . . . .	—	93	30	12 544	552 320	5 911	10 499	155 545	1 175 998	939 921	2 048 399	75 803
334111	Electronic computer mfg . . . . .	5	28	9	766	25 309	408	791	11 200	58 699	42 667	99 811	2 858
334113	Computer terminal mfg . . . . .	1	9	2	435	20 932	254	507	8 649	43 948	72 728	122 660	610
334119	Other computer peripheral equipment mfg . . . . .	—	53	18	11 275	503 507	5 206	9 100	133 777	1 066 451	821 653	1 816 259	71 625
3342	Communications equipment mfg . . . . .	—	152	84	14 837	590 197	7 802	14 683	225 978	1 494 806	1 227 725	2 687 704	77 931
33421	Telephone apparatus mfg . . . . .	2	33	23	2 908	133 880	1 166	2 131	38 533	331 448	300 064	620 176	20 461
334210	Telephone apparatus mfg . . . . .	2	33	23	2 908	133 880	1 166	2 131	38 533	331 448	300 064	620 176	20 461
33422	Radio & TV broadcasting & wireless communications equipment mfg . . . . .	—	86	53	9 343	366 648	5 559	10 765	167 890	890 433	731 086	1 613 561	47 554
334220	Radio & TV broadcasting & wireless communications equipment mfg . . . . .	—	86	53	9 343	366 648	5 559	10 765	167 890	890 433	731 086	1 613 561	47 554
33429	Other communications equipment mfg . . . . .	—	33	8	2 586	89 669	1 077	1 787	19 555	272 925	196 575	453 967	9 916
334290	Other communications equipment mfg . . . . .	—	33	8	2 586	89 669	1 077	1 787	19 555	272 925	196 575	453 967	9 916
3343	Audio & video equipment mfg . . . . .	4	38	4	440	11 998	268	445	4 405	21 820	27 407	48 897	661
33431	Audio & video equipment mfg . . . . .	4	38	4	440	11 998	268	445	4 405	21 820	27 407	48 897	661
334310	Audio & video equipment mfg . . . . .	4	38	4	440	11 998	268	445	4 405	21 820	27 407	48 897	661
3344	Semiconductor & other electronic component mfg . . . . .	1	307	157	32 000	1 134 496	18 897	38 345	470 727	2 445 985	2 943 235	5 598 409	218 140
33441	Semiconductor & other electronic component mfg . . . . .	1	307	157	32 000	1 134 496	18 897	38 345	470 727	2 445 985	2 943 235	5 598 409	218 140
334411	Electron tube mfg . . . . .	—	6	3	2 050	60 263	1 477	3 347	38 178	175 939	205 850	384 732	3 930
334412	Bare printed circuit board mfg . . . . .	—	66	21	4 750	133 093	3 463	6 970	77 912	389 387	266 385	648 599	34 057
334413	Semiconductor & related device mfg . . . . .	2	41	17	7 830	382 684	3 238	6 504	103 126	625 583	481 083	1 167 165	98 661
334414	Electronic capacitor mfg . . . . .	1	10	8	1 025	28 344	645	1 175	12 887	85 844	18 946	104 466	2 483
334415	Electronic resistor mfg . . . . .	4	5	3	387	8 965	268	378	4 880	25 608	6 143	32 305	1 197
334416	Electronic coil, transformer, & other inductor mfg . . . . .	1	31	20	1 595	40 617	1 318	2 602	23 271	84 013	31 365	113 866	3 619
334417	Electronic connector mfg . . . . .	—	14	9	3 068	104 867	2 123	4 662	71 192	270 040	120 256	401 462	35 717
334418	Printed circuit assembly (electronic assembly) mfg . . . . .	—	36	29	5 570	232 730	2 403	5 040	61 146	490 895	1 610 519	2 242 863	24 851
334419	Other electronic component mfg . . . . .	1	98	47	5 725	142 933	3 962	7 667	78 135	298 676	202 688	502 951	13 625
3345	Navigational, measuring, medical, & control instruments mfg . . . . .	—	304	137	24 119	1 177 274	9 460	20 145	362 575	3 143 641	1 271 560	4 439 776	121 313
33451	Navigational, measuring, medical, & control instruments mfg . . . . .	—	304	137	24 119	1 177 274	9 460	20 145	362 575	3 143 641	1 271 560	4 439 776	121 313
334510	Electromedical & electrotherapeutic apparatus mfg . . . . .	2	35	16	2 484	111 597	1 026	2 163	32 382	197 057	129 112	325 829	25 659
334511	Search, detection, navigation, & guidance instrument mfg . . . . .	—	58	28	12 316	687 338	3 701	7 401	181 104	2 081 658	511 802	2 607 015	49 824
334512	Automatic environmental control mfg . . . . .	6	12	4	306	9 538	227	490	5 762	21 921	16 360	38 580	1 000
334513	Industrial process control instrument mfg . . . . .	2	43	19	1 461	57 375	695	1 165	19 163	121 160	87 596	210 401	3 467
334514	Totalizing fluid meter & counting device mfg . . . . .	4	15	4	233	8 310	114	194	2 669	17 855	9 340	26 751	422
334515	Electricity measuring & testing instrument mfg . . . . .	1	45	20	2 922	123 653	1 495	4 416	52 162	294 603	258 475	568 434	20 896
334516	Analytical laboratory instrument mfg . . . . .	—	31	16	1 532	64 086	551	1 048	20 054	160 267	87 385	250 176	9 411
334517	Irradiation apparatus mfg . . . . .	1	7	6	641	22 948	377	842	9 679	64 547	56 832	121 074	2 765

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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg—Con.												
3345	Navigational, measuring, medical, & control instruments mfg—Con.												
33451	Navigational, measuring, medical, & control instruments mfg—Con.												
334518	Watch, clock, & part mfg .....	1	15	3	222	9 435	143	298	3 975	25 394	22 316	45 453	335
334519	Other measuring & controlling device mfg .....	1	43	21	2 002	82 994	1 131	2 128	35 625	159 179	92 342	246 063	7 534
3346	Mfg & reproducing magnetic & optical media .	2	81	21	2 303	75 382	1 589	3 334	45 390	166 841	120 623	290 482	42 218
33461	Mfg & reproducing magnetic & optical media .....	2	81	21	2 303	75 382	1 589	3 334	45 390	166 841	120 623	290 482	42 218
334611	Software reproducing .	1	7	4	294	10 887	130	294	4 200	21 539	12 124	33 286	2 957
334612	Prerecorded CD (except software), tape, & record reproducing .....	1	61	14	1 830	59 111	1 319	2 777	37 459	131 568	92 678	227 119	35 881
334613	Magnetic & optical recording media mfg .	9	13	3	179	5 384	140	263	3 731	13 734	15 821	30 077	3 380
335	Electrical equipment, appliance, & component mfg .....	1	424	192	24 990	814 828	18 043	35 482	485 753	2 842 281	2 088 089	4 950 531	134 443
3351	Electric lighting equipment mfg .....	1	128	48	h	D	D	D	D	D	D	D	13 184
33511	Electric lamp bulb & part mfg .....	—	2	1	f	D	D	D	D	D	D	D	D
335110	Electric lamp bulb & part mfg .....	—	2	1	f	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg .....	1	126	47	h	D	D	D	D	D	D	D	D
335121	Residential electric lighting fixture mfg ...	1	62	18	1 364	34 088	1 011	1 995	18 255	87 261	88 881	175 159	D
335122	Commercial/industrial/institutional electric lighting fixture mfg ...	1	40	17	1 654	61 642	1 118	2 235	30 293	168 662	100 304	274 398	3 115
335129	Other lighting equipment mfg .....	—	24	12	g	D	D	D	D	D	D	D	3 042
3353	Electrical equipment mfg ..	—	147	61	9 463	310 713	7 195	14 649	202 146	1 519 238	952 290	2 474 944	42 915
33531	Electrical equipment mfg .....	—	147	61	9 463	310 713	7 195	14 649	202 146	1 519 238	952 290	2 474 944	42 915
335311	Power, distribution, & specialty transformer mfg .....	3	11	4	346	11 042	195	437	4 802	23 961	13 855	39 681	658
335312	Motor & generator mfg .....	—	32	14	5 238	177 523	4 619	9 586	145 181	1 213 654	749 365	1 961 382	25 594
335313	Switchgear & switchboard apparatus mfg .....	4	26	10	556	22 818	358	679	11 160	44 230	34 363	79 217	1 571
335314	Relay & industrial control mfg .....	2	78	33	3 323	99 330	2 023	3 947	41 003	237 393	154 707	394 664	15 092
3359	Other electrical equipment & component mfg .....	2	141	83	10 584	346 118	7 189	13 936	191 752	924 636	843 244	1 778 379	78 265
33591	Battery mfg .....	1	10	6	1 379	49 927	930	2 249	28 030	82 234	85 116	168 195	15 753
335911	Storage battery mfg...	2	7	4	e	D	D	D	D	D	D	D	D
335912	Primary battery mfg...	—	3	2	f	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg .....	5	21	20	1 559	44 294	1 119	2 226	25 360	109 846	299 053	421 685	10 385
335921	Fiber optic cable mfg...	—	3	3	243	3 962	188	275	2 625	9 040	15 351	24 812	D
335929	Other communication & energy wire mfg ...	5	18	17	1 316	40 332	931	1 951	22 735	100 806	283 702	396 873	D
33593	Wiring device mfg .....	—	46	17	4 438	139 828	3 045	5 350	77 681	441 805	189 653	633 066	23 813
335931	Current-carrying wiring device mfg .....	—	33	12	2 624	75 383	1 798	2 964	40 404	220 628	103 530	318 008	18 127
335932	Noncurrent-carrying wiring device mfg .....	1	13	5	1 814	64 445	1 247	2 386	37 277	221 177	86 123	315 058	5 686
33599	All other electrical equipment & component mfg .....	1	64	40	3 208	112 069	2 095	4 111	60 681	290 751	269 422	555 433	28 314
335991	Carbon & graphite product mfg .....	—	7	6	780	32 991	598	1 322	23 701	111 887	122 371	227 820	21 188
335999	All other miscellaneous electrical equipment & component mfg .....	1	57	34	2 428	79 078	1 497	2 789	36 980	178 864	147 051	327 613	7 126

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
336	Transportation equipment mfg . . . . .	—	408	161	44 393	2 131 725	32 972	70 464	1 480 510	5 246 056	6 662 720	12 040 217	402 649
3361	Motor vehicle mfg . . . . .	9	10	3	753	20 230	627	817	16 318	85 733	144 450	229 772	D
33611	Automobile & light duty motor vehicle mfg . . . . .	9	9	2	c	D	D	D	D	D	D	D	D
336111	Automobile mfg . . . . .	9	7	2	c	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg . . . . .	—	41	12	935	24 453	629	1 154	14 946	79 965	116 682	202 044	3 161
33621	Motor vehicle body & trailer mfg . . . . .	—	41	12	935	24 453	629	1 154	14 946	79 965	116 682	202 044	3 161
336211	Motor vehicle body mfg . . . . .	—	34	10	818	21 194	557	1 025	13 617	73 872	106 642	185 904	2 848
3363	Motor vehicle parts mfg . . . . .	—	202	78	31 062	1 600 100	25 056	55 555	1 251 350	3 596 029	5 562 426	9 208 924	338 794
33631	Motor vehicle gasoline engine & engine parts mfg . . . . .	—	36	7	i	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg . . . . .	—	33	7	i	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg . . . . .	2	70	27	5 781	188 318	3 653	7 734	92 462	465 136	418 583	923 476	37 357
336321	Vehicular lighting equipment mfg . . . . .	—	7	2	400	11 539	213	415	4 688	7 401	11 212	27 296	D
336322	Other motor vehicle electrical & electronic equipment mfg . . . . .	2	63	25	5 381	176 779	3 440	7 319	87 774	457 735	407 371	896 180	D
33633	Motor vehicle steering & suspension component (except spring) mfg . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
336330	Motor vehicle steering & suspension component (except spring) mfg . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg . . . . .	—	14	8	776	19 832	647	1 252	14 373	33 781	72 618	104 620	2 707
336340	Motor vehicle brake system mfg . . . . .	—	14	8	776	19 832	647	1 252	14 373	33 781	72 618	104 620	2 707
33635	Motor vehicle transmission & power train parts mfg . . . . .	—	16	7	6 753	391 062	5 843	14 563	330 761	972 826	1 050 197	2 006 903	104 531
336350	Motor vehicle transmission & power train parts mfg . . . . .	—	16	7	6 753	391 062	5 843	14 563	330 761	972 826	1 050 197	2 006 903	104 531
33636	Motor vehicle seating & interior trim mfg . . . . .	5	8	3	153	2 886	112	221	1 823	8 007	7 238	15 008	331
336360	Motor vehicle seating & interior trim mfg . . . . .	5	8	3	153	2 886	112	221	1 823	8 007	7 238	15 008	331
33637	Motor vehicle metal stamping . . . . .	—	8	4	g	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping . . . . .	—	8	4	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg . . . . .	1	47	20	7 570	440 027	5 952	13 145	333 744	1 052 394	637 322	1 693 272	50 359
336391	Motor vehicle air-conditioning mfg . . . . .	—	1	1	i	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg . . . . .	8	46	19	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg . . . . .	—	69	39	8 677	384 896	4 673	9 043	141 120	1 290 306	665 605	2 018 183	35 623
33641	Aerospace product & parts mfg . . . . .	—	69	39	8 677	384 896	4 673	9 043	141 120	1 290 306	665 605	2 018 183	35 623
336411	Aircraft mfg . . . . .	8	5	3	f	D	D	D	D	D	D	D	1 352
336412	Aircraft engine & engine parts mfg . . . . .	2	15	12	g	D	D	D	D	D	D	D	7 644
336413	Other aircraft part & auxiliary equipment mfg . . . . .	—	49	24	5 841	268 344	2 757	4 973	79 153	1 075 798	516 619	1 653 673	26 627
3365	Railroad rolling stock mfg . . . . .	—	16	8	1 630	58 310	923	1 819	27 735	99 516	95 728	208 143	18 197
33651	Railroad rolling stock mfg . . . . .	—	16	8	1 630	58 310	923	1 819	27 735	99 516	95 728	208 143	18 197
336510	Railroad rolling stock mfg . . . . .	—	16	8	1 630	58 310	923	1 819	27 735	99 516	95 728	208 143	18 197
3366	Ship & boat building . . . . .	2	48	12	835	26 510	701	1 486	20 457	50 621	31 555	82 409	D
33661	Ship & boat building . . . . .	2	48	12	835	26 510	701	1 486	20 457	50 621	31 555	82 409	D
336611	Ship building & repairing . . . . .	2	23	7	f	D	D	D	D	D	D	D	545
336612	Boat building . . . . .	1	25	5	c	D	D	D	D	D	D	D	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>NEW YORK—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
336	Transportation equipment mfg—Con.												
3369	Other transportation equipment mfg .....	3	22	9	501	17 226	363	590	8 584	43 886	46 274	90 742	1 703
33699	Other transportation equipment mfg .....	3	22	9	501	17 226	363	590	8 584	43 886	46 274	90 742	1 703
336991	Motorcycle, bicycle, & parts mfg .....	1	9	3	c	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg .....	5	11	5	316	11 785	211	291	5 039	29 860	27 184	57 621	1 428
337	Furniture & related product mfg .....	2	1 136	223	21 818	568 623	16 577	30 748	353 553	1 250 752	873 223	2 111 880	80 954
3371	Household & institutional furniture & kitchen cabinet mfg .....	2	788	107	11 793	293 939	9 375	17 452	196 268	662 064	472 648	1 127 662	53 617
33711	Wood kitchen cabinet & counter top mfg .....	4	345	27	2 534	61 327	2 014	3 810	44 506	115 307	88 578	203 954	4 973
337110	Wood kitchen cabinet & counter top mfg ...	4	345	27	2 534	61 327	2 014	3 810	44 506	115 307	88 578	203 954	4 973
33712	Household & institutional furniture mfg .....	2	443	80	9 259	232 612	7 361	13 642	151 762	546 757	384 070	923 708	48 644
337121	Upholstered household furniture mfg .....	4	79	9	657	17 559	555	1 025	12 762	25 765	28 346	53 792	998
337122	Nonupholstered wood household furniture mfg .....	1	245	39	6 406	161 333	5 210	9 582	106 892	397 014	269 865	659 909	43 075
337124	Metal household furniture mfg .....	2	39	12	897	24 507	614	1 260	13 590	60 062	37 422	97 948	2 471
337125	Household furniture (except wood & metal) mfg .....	3	11	2	129	2 294	86	156	1 646	4 187	4 684	8 828	243
337127	Institutional furniture mfg .....	3	61	15	1 065	24 677	816	1 494	15 560	53 667	38 635	92 046	1 732
337129	Wood television, radio, & sewing machine cabinet mfg .....	1	8	3	105	2 242	80	125	1 312	6 062	5 118	11 185	125
3372	Office furniture (including fixtures) mfg .....	2	287	103	9 011	252 345	6 454	11 952	143 888	529 780	336 153	860 541	22 495
33721	Office furniture (including fixtures) mfg .....	2	287	103	9 011	252 345	6 454	11 952	143 888	529 780	336 153	860 541	22 495
337211	Wood office furniture mfg .....	2	37	13	1 636	50 951	1 186	2 631	28 596	95 769	56 738	152 147	4 282
337212	Custom architectural woodwork & millwork mfg .....	1	74	19	1 225	39 405	879	1 666	25 129	69 441	43 947	111 198	2 714
337214	Office furniture (except wood) mfg .....	2	25	7	814	21 670	613	1 296	12 722	49 624	39 841	89 467	5 605
337215	Showcase, partition, shelving, & locker mfg .....	2	151	64	5 336	140 319	3 776	6 359	77 441	314 946	195 627	507 729	9 894
3379	Other furniture related product mfg .....	3	61	13	1 014	22 339	748	1 344	13 397	58 908	64 422	123 677	4 842
33791	Mattress mfg .....	1	23	7	533	11 759	412	658	7 068	38 761	40 556	78 833	4 210
337910	Mattress mfg .....	1	23	7	533	11 759	412	658	7 068	38 761	40 556	78 833	4 210
33792	Blind & shade mfg .....	6	38	6	481	10 580	336	686	6 329	20 147	23 866	44 844	632
337920	Blind & shade mfg .....	6	38	6	481	10 580	336	686	6 329	20 147	23 866	44 844	632
339	Miscellaneous mfg .....	2	2 740	533	59 544	1 765 520	41 844	78 699	964 787	4 385 058	3 541 085	7 888 286	227 576
3391	Medical equipment & supplies mfg .....	2	798	125	20 310	677 439	13 383	25 970	338 509	1 573 008	761 248	2 336 242	123 869
33911	Medical equipment & supplies mfg .....	2	798	125	20 310	677 439	13 383	25 970	338 509	1 573 008	761 248	2 336 242	123 869
339111	Laboratory apparatus & furniture mfg .....	2	23	13	1 104	40 286	568	1 067	12 923	82 156	46 529	126 436	3 775
339112	Surgical & medical instrument mfg .....	1	80	34	8 598	275 511	5 189	9 901	112 612	573 503	332 671	909 504	36 021
339113	Surgical appliance & supplies mfg .....	2	102	29	3 328	116 922	2 117	3 561	46 145	322 738	163 993	483 841	16 280
339114	Dental equipment & supplies mfg .....	-	60	10	861	27 806	571	1 008	14 335	88 821	94 802	185 644	3 838
339115	Ophthalmic goods mfg .....	1	47	14	3 730	146 435	2 949	7 075	109 629	355 633	64 868	418 238	58 926
339116	Dental laboratories ...	5	486	25	2 689	70 479	1 989	3 358	42 865	150 157	58 385	212 579	5 029
3399	Other miscellaneous mfg ..	2	1 942	408	39 234	1 088 081	28 461	52 729	626 278	2 812 050	2 779 837	5 552 044	103 707
33991	Jewelry & silverware mfg .....	1	896	150	14 508	410 974	10 289	17 235	230 647	1 243 943	1 699 075	2 913 738	29 305
339911	Jewelry (except costume) mfg .....	1	615	102	9 445	279 543	6 329	11 760	142 151	807 348	1 233 261	2 029 611	18 330
339912	Silverware & plated ware mfg .....	-	20	5	g	D	D	D	D	D	D	D	D
339913	Jewelers' material & lapidary work mfg ...	2	132	20	1 331	36 837	908	1 552	17 411	93 925	302 605	391 928	1 925
339914	Costume jewelry & novelty mfg .....	4	129	23	g	D	D	D	D	D	D	D	D
33992	Sporting & athletic goods mfg .....	4	80	19	1 618	38 253	1 330	2 611	26 083	140 898	113 088	245 156	12 312
339920	Sporting & athletic goods mfg .....	4	80	19	1 618	38 253	1 330	2 611	26 083	140 898	113 088	245 156	12 312

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>NEW YORK—Con.</b>												
	<b>Manufacturing—Con.</b>												
339	Miscellaneous mfg—Con.												
3399	Other miscellaneous mfg—Con.												
33993	Doll, toy, & game mfg . . .	2	89	20	1 947	51 709	1 511	2 867	34 677	107 202	99 162	208 808	3 787
339931	Doll & stuffed toy mfg . . .	1	34	6	764	17 320	618	1 309	12 906	36 643	28 817	66 064	310
339932	Game, toy, & children's vehicle mfg . . . . .	3	55	14	1 183	34 389	893	1 558	21 771	70 559	70 345	142 744	3 477
33994	Office supplies (except paper) mfg . . . . .	—	77	18	2 725	65 522	1 910	4 512	38 541	191 323	126 933	321 560	9 272
339941	Pen & mechanical pencil mfg . . . . .	2	17	7	470	11 806	338	592	5 599	26 998	19 284	46 417	2 720
339942	Lead pencil & art good mfg . . . . .	—	14	4	878	16 899	632	1 632	9 496	70 484	48 376	122 446	4 813
339943	Marking device mfg . . .	4	36	2	280	6 004	182	349	3 920	12 406	6 652	18 998	496
339944	Carbon paper & inked ribbon mfg . . . . .	—	10	5	1 097	30 813	758	1 939	19 526	81 435	52 621	133 699	1 243
33995	Sign mfg . . . . .	3	381	78	6 009	187 401	4 053	7 681	95 422	354 545	238 887	592 466	12 593
339950	Sign mfg . . . . .	3	381	78	6 009	187 401	4 053	7 681	95 422	354 545	238 887	592 466	12 593
33999	All other miscellaneous mfg . . . . .	2	419	123	12 427	334 222	9 368	17 823	200 908	774 139	502 692	1 270 316	36 438
339991	Gasket, packing, & sealing device mfg . . .	—	33	14	2 151	73 688	1 530	3 066	45 490	213 192	140 682	351 982	8 127
339992	Musical instrument mfg . . . . .	—	51	10	1 563	44 313	1 253	2 524	27 626	109 309	44 129	148 988	2 627
339993	Fastener, button, needle, & pin mfg . . . .	3	52	14	g	D	D	D	D	D	D	D	5 808
339994	Broom, brush, & mop mfg . . . . .	1	32	13	1 573	37 143	1 293	2 509	22 452	60 866	56 139	115 511	D
339995	Burial casket mfg . . . .	—	6	1	e	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg . . . . .	4	245	71	5 741	144 879	4 187	7 651	83 749	315 668	212 629	528 077	16 302

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

<sup>2</sup>Industries with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>ALBANY—SCHENECTADY—TROY, NY MSA</b>												
	<b>Manufacturing . . . .</b>	<b>1</b>	<b>752</b>	<b>249</b>	<b>31 436</b>	<b>1 127 976</b>	<b>22 036</b>	<b>44 425</b>	<b>676 617</b>	<b>3 339 490</b>	<b>3 539 569</b>	<b>6 969 773</b>	<b>324 465</b>
311	Food mfg . . . . .	1	77	25	2 161	67 607	1 534	3 013	36 968	253 990	435 239	689 530	12 091
3114	Fruit & vegetable preserving & specialty food mfg . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
311422	Specialty canning . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
3115	Dairy product mfg . . . . .	—	8	7	509	12 152	320	615	6 054	51 929	148 579	200 261	D
31151	Dairy product (except frozen) mfg . . . . .	—	7	6	e	D	D	D	D	D	D	D	D
311511	Fluid milk mfg . . . . .	—	5	4	327	8 510	193	414	4 111	44 210	131 441	175 684	1 033
3118	Bakeries & tortilla mfg . . . .	1	41	8	581	15 999	414	835	8 557	20 151	53 406	73 566	2 589
31181	Bread & bakery product mfg . . . . .	1	39	7	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries . . . .	1	20	6	427	13 534	299	646	6 660	14 759	50 031	64 792	2 279
312	Beverage & tobacco product mfg . . . . .	—	9	4	692	12 011	297	567	7 084	51 672	102 639	154 559	1 677
3121	Beverage mfg . . . . .	—	9	4	692	12 011	297	567	7 084	51 672	102 639	154 559	1 677
31211	Soft drink & ice mfg . . . . .	—	8	4	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg . . . . .	—	4	3	626	10 491	269	514	6 521	46 165	98 893	145 330	1 268



**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>ALBANY—SCHENECTADY—TROY, NY MSA—Con. Manufacturing—Con.</b>												
313	Textile mills .....	-	16	11	2 013	61 908	1 608	3 067	36 150	188 762	117 318	308 190	23 481
3132	Fabric mills .....	-	11	8	1 696	53 118	1 343	2 558	29 671	166 126	92 527	259 744	22 478
31321	Broadwoven fabric mills ..	4	4	2	e	D	D	D	D	D	D	D	2 599
313210	Broadwoven fabric mills .....	4	4	2	e	D	D	D	D	D	D	D	2 599
31323	Nonwoven fabric mills ...	-	2	2	f	D	D	D	D	D	D	D	D
313230	Nonwoven fabric mills ..	-	2	2	f	D	D	D	D	D	D	D	D
31324	Knit fabric mills .....	-	5	4	832	19 830	678	1 465	14 865	112 002	41 410	152 641	D
313249	Other knit fabric & lace mills .....	-	5	4	832	19 830	678	1 465	14 865	112 002	41 410	152 641	D
3133	Textile & fabric finishing & fabric coating mills .....	-	4	2	e	D	D	D	D	D	D	D	D
31332	Fabric coating mills .....	-	2	2	e	D	D	D	D	D	D	D	D
313320	Fabric coating mills .....	-	2	2	e	D	D	D	D	D	D	D	D
314	Textile product mills .....	-	10	4	546	13 907	412	743	7 952	27 334	31 398	58 645	906
3149	Other textile product mills ..	-	8	2	e	D	D	D	D	D	D	D	D
31499	All other textile product mills .....	-	5	1	265	6 121	191	350	3 250	13 876	18 840	32 666	D
314999	All other miscellaneous textile product mills ..	-	5	1	265	6 121	191	350	3 250	13 876	18 840	32 666	D
315	Apparel mfg .....	1	27	7	581	10 635	413	805	5 957	16 546	23 647	40 725	467
3152	Cut & sew apparel mfg ....	-	14	4	314	6 164	210	392	3 346	12 566	15 422	28 658	D
3159	Apparel accessories & other apparel mfg .....	3	11	3	e	D	D	D	D	D	D	D	165
31599	Apparel accessories & other apparel mfg .....	3	11	3	e	D	D	D	D	D	D	D	165
321	Wood product mfg .....	2	43	9	684	16 605	514	1 014	10 929	33 622	36 897	70 596	5 583
3219	Other wood product mfg ...	2	25	7	512	11 759	382	751	7 798	24 081	23 302	47 527	854
322	Paper mfg .....	-	25	19	2 592	105 285	1 926	3 973	69 911	233 166	339 086	578 688	25 454
3221	Pulp, paper, & paperboard mills .....	-	10	10	1 784	78 151	1 339	2 838	52 057	177 688	233 609	412 844	21 361
32212	Paper mills .....	-	5	5	1 274	59 442	963	2 007	39 681	150 865	190 030	341 322	12 920
322121	Paper (except newsprint) mills .....	-	5	5	1 274	59 442	963	2 007	39 681	150 865	190 030	341 322	12 920
32213	Paperboard mills .....	4	5	5	510	18 709	376	831	12 376	26 823	43 579	71 522	8 441
322130	Paperboard mills .....	4	5	5	510	18 709	376	831	12 376	26 823	43 579	71 522	8 441
3222	Converted paper product mfg .....	-	15	9	808	27 134	587	1 135	17 854	55 478	105 477	165 844	4 093
32221	Paperboard container mfg .....	-	11	7	f	D	D	D	D	D	D	D	4 039
322211	Corrugated & solid fiber box mfg .....	-	7	5	376	11 786	275	542	7 009	27 425	47 973	75 266	D
322212	Folding paperboard box mfg .....	-	3	2	e	D	D	D	D	D	D	D	D
323	Printing & related support activities .....	2	114	23	2 724	77 319	2 170	4 253	54 444	197 736	106 751	302 792	9 682
3231	Printing & related support activities .....	2	114	23	2 724	77 319	2 170	4 253	54 444	197 736	106 751	302 792	9 682
32311	Printing .....	2	100	21	2 540	73 897	2 019	4 070	52 359	183 671	103 649	286 088	9 106
323110	Commercial lithographic printing ..	1	61	13	1 916	54 851	1 527	3 169	40 740	147 303	76 106	222 297	5 822
325	Chemical mfg .....	-	24	13	3 920	209 413	2 232	4 805	104 822	741 210	765 411	1 497 766	130 364
3251	Basic chemical mfg .....	-	6	4	1 059	52 770	509	1 099	23 989	227 224	238 348	464 849	27 043
32513	Dye & pigment mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
325132	Synthetic organic dye & pigment mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
325192	Cyclic crude & intermediate mfg ....	-	1	1	f	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg .....	-	4	3	g	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg .....	-	4	3	g	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
325212	Synthetic rubber mfg ..	-	3	2	g	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg .....	-	5	3	306	9 850	148	323	2 851	13 989	9 357	23 657	D
32551	Paint & coating mfg .....	-	3	2	e	D	D	D	D	D	D	D	D
325510	Paint & coating mfg .....	-	3	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>ALBANY—SCHENECTADY—TROY, NY MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
326	Plastics & rubber products mfg . . . . .	2	42	24	2 666	67 191	2 086	3 704	43 734	159 109	158 612	318 817	13 782
3261	Plastics product mfg . . . . .	2	38	24	2 641	66 573	2 068	3 669	43 306	157 932	157 793	316 807	D
32611	Unsupported plastics film, sheet, & bag mfg . . . . .	—	4	2	e	D	D	D	D	D	D	D	773
326111	Unsupported plastics bag mfg . . . . .	—	3	2	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg . . . . .	2	26	19	1 939	48 576	1 533	2 623	31 776	112 584	116 911	230 239	9 506
326199	All other plastics product mfg . . . . .	2	26	19	1 939	48 576	1 533	2 623	31 776	112 584	116 911	230 239	9 506
327	Nonmetallic mineral product mfg . . . . .	—	43	14	1 763	80 788	1 270	2 777	52 339	297 288	170 335	473 118	24 664
3273	Cement & concrete product mfg . . . . .	—	20	6	548	24 833	380	837	14 698	116 128	52 218	168 152	14 168
3279	Other nonmetallic mineral product mfg . . . . .	—	8	3	873	44 192	612	1 311	28 942	145 103	82 623	233 724	8 072
32791	Abrasive product mfg . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
327910	Abrasive product mfg . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg . . . . .	—	6	2	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 . . . . .	—	6	4	528	18 651	414	1 017	12 770	34 640	55 076	90 079	2 358
3313	Alumina & aluminum production & processing . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	1	93	31	2 957	107 767	2 150	4 333	68 249	287 061	286 073	577 038	19 932
3323	Architectural & structural metals mfg . . . . .	3	27	8	584	19 175	424	933	11 709	45 424	62 672	108 302	2 375
33231	Plate work & fabricated structural product mfg . . . . .	4	10	5	269	8 271	181	385	4 768	23 133	43 545	67 115	678
332312	Fabricated structural metal mfg . . . . .	4	9	5	e	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg . . . . .	1	17	3	315	10 904	243	548	6 941	22 291	19 127	41 187	1 697
3324	Boiler, tank, & shipping container mfg . . . . .	—	6	4	328	17 475	270	578	13 397	57 488	110 551	170 475	1 476
3325	Hardware mfg . . . . .	—	3	2	e	D	D	D	D	D	D	D	D
33251	Hardware mfg . . . . .	—	3	2	e	D	D	D	D	D	D	D	D
332510	Hardware mfg . . . . .	—	3	2	e	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg . . . . .	1	30	9	636	21 171	496	986	14 411	36 421	26 234	62 582	2 805
33271	Machine shops . . . . .	2	27	6	427	14 279	331	624	9 562	24 490	11 924	36 338	1 460
332710	Machine shops . . . . .	2	27	6	427	14 279	331	624	9 562	24 490	11 924	36 338	1 460
3329	Other fabricated metal product mfg . . . . .	—	19	7	978	38 714	580	1 244	20 673	121 146	75 707	197 903	11 707
33291	Metal valve mfg . . . . .	—	4	3	273	10 108	202	417	7 425	47 829	19 653	67 011	D
33299	All other fabricated metal product mfg . . . . .	—	15	4	705	28 606	378	827	13 248	73 317	56 054	130 892	D
332999	All other miscellaneous fabricated metal product mfg . . . . .	—	11	3	638	26 862	331	737	12 340	70 319	54 590	126 268	D
333	Machinery mfg . . . . .	—	56	20	3 997	166 727	2 500	5 137	100 655	484 578	575 342	1 127 320	23 802
3331	Agriculture, construction, & mining machinery mfg . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg . . . . .	—	14	4	297	10 189	168	326	5 351	16 069	17 708	33 634	352
33351	Metalworking machinery mfg . . . . .	—	14	4	297	10 189	168	326	5 351	16 069	17 708	33 634	352

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>ALBANY—SCHENECTADY—TROY, NY MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
333	Machinery mfg—Con.												
3336	Engine, turbine, & power transmission equipment mfg .....	—	3	3	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg .....	—	3	3	g	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg .....	—	3	3	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	—	18	6	636	28 320	322	507	8 072	79 353	59 040	140 721	7 525
33391	Pump & compressor mfg .....	—	5	3	398	20 011	166	181	4 025	65 303	46 267	113 914	D
333912	Air & gas compressor mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	1	26	9	1 038	33 279	620	1 434	15 687	88 491	53 411	146 685	3 363
3344	Semiconductor & other electronic component mfg .....	—	5	2	e	D	D	D	D	D	D	D	178
33441	Semiconductor & other electronic component mfg .....	—	5	2	e	D	D	D	D	D	D	D	178
334419	Other electronic component mfg .....	—	3	2	e	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg .....	1	15	5	506	18 204	264	573	6 740	53 459	26 954	81 406	2 582
33451	Navigational, measuring, medical, & control instruments mfg .....	1	15	5	506	18 204	264	573	6 740	53 459	26 954	81 406	2 582
335	Electrical equipment, appliance, & component mfg .....	4	7	3	296	9 744	147	324	3 410	22 888	8 082	32 527	759
336	Transportation equipment mfg .....	—	17	8	609	20 021	480	967	15 406	76 187	83 409	165 260	13 407
337	Furniture & related product mfg .....	—	21	8	694	18 041	534	1 141	11 308	52 424	43 445	95 636	7 245
3372	Office furniture (including fixtures) mfg .....	1	11	4	366	9 814	264	655	6 022	23 218	19 169	42 402	4 565
33721	Office furniture (including fixtures) mfg .....	1	11	4	366	9 814	264	655	6 022	23 218	19 169	42 402	4 565
339	Miscellaneous mfg .....	2	77	9	703	19 160	516	899	9 897	47 762	40 716	89 817	1 497
3391	Medical equipment & supplies mfg .....	4	33	4	306	9 507	219	327	4 226	24 549	12 007	37 854	962
33911	Medical equipment & supplies mfg .....	4	33	4	306	9 507	219	327	4 226	24 549	12 007	37 854	962
3399	Other miscellaneous mfg ..	1	44	5	397	9 653	297	572	5 671	23 213	28 709	51 963	535
	<b>BINGHAMTON, NY MSA</b>												
<b>31-33</b>	<b>Manufacturing .....</b>	<b>1</b>	<b>290</b>	<b>122</b>	<b>25 484</b>	<b>1 027 594</b>	<b>14 051</b>	<b>27 556</b>	<b>356 443</b>	<b>2 832 274</b>	<b>1 869 116</b>	<b>4 717 204</b>	<b>156 028</b>
311	Food mfg .....	—	22	11	1 337	40 029	1 054	2 021	24 544	226 037	282 899	506 584	11 332
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
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
314	Textile product mills .....	—	11	3	259	6 117	199	390	3 850	20 580	30 843	51 779	633
321	Wood product mfg .....	5	19	7	453	11 528	362	759	8 401	25 422	39 558	64 505	1 632
3219	Other wood product mfg ..	9	13	5	298	8 037	238	474	5 373	17 700	23 850	41 103	803
322	Paper mfg .....	—	4	4	278	8 272	180	360	5 200	21 619	21 959	43 595	1 194
3222	Converted paper product mfg .....	—	4	4	278	8 272	180	360	5 200	21 619	21 959	43 595	1 194
323	Printing & related support activities .....	2	35	11	1 089	28 774	820	1 625	18 670	52 508	35 799	88 746	2 798
3231	Printing & related support activities .....	2	35	11	1 089	28 774	820	1 625	18 670	52 508	35 799	88 746	2 798
32311	Printing .....	1	27	11	1 055	27 971	792	1 584	18 079	50 879	35 462	86 772	2 435
323110	Commercial lithographic printing ..	2	18	8	370	10 869	264	489	6 077	19 903	12 729	32 411	1 572
323117	Book printing .....	—	1	1	f	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>BINGHAMTON, NY MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
325	Chemical mfg .....	2	6	3	1 386	49 540	806	1 665	22 407	69 549	116 651	190 790	D
3259	Other chemical product mfg .....	3	2	2	g	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg .....	3	2	2	g	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, & chemical mfg .....	3	2	2	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	1	17	7	515	13 045	405	733	7 705	44 728	58 641	101 154	5 335
3261	Plastics product mfg .....	1	17	7	515	13 045	405	733	7 705	44 728	58 641	101 154	5 335
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg .....	—	5	3	341	8 853	283	543	5 522	36 164	50 825	84 837	4 548
326122	Plastics pipe & pipe fitting mfg .....	—	4	3	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	2	51	22	1 490	42 475	1 148	2 133	27 791	71 858	60 267	133 506	6 460
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	—	29	11	840	25 900	688	1 384	18 271	47 492	19 375	68 759	4 694
33271	Machine shops .....	—	26	8	666	20 826	543	1 084	14 226	36 461	15 389	53 775	3 851
332710	Machine shops .....	—	26	8	666	20 826	543	1 084	14 226	36 461	15 389	53 775	3 851
333	Machinery mfg .....	—	23	10	2 151	114 219	1 233	1 892	39 439	435 831	204 240	659 077	7 116
3332	Industrial machinery mfg ..	—	4	2	g	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg .....	—	4	2	g	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg ..	—	4	2	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg .....	—	4	2	f	D	D	D	D	D	D	D	D
333319	Other commercial & service industry machinery mfg .....	—	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	1	35	25	14 626	670 883	6 226	12 696	166 907	1 790 488	909 225	2 695 692	109 682
3341	Computer & peripheral equipment mfg .....	—	4	2	i	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg .....	—	4	2	i	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg .....	—	2	2	i	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	4	21	18	4 074	128 029	2 752	5 660	64 254	389 762	266 198	651 355	77 640
33441	Semiconductor & other electronic component mfg .....	4	21	18	4 074	128 029	2 752	5 660	64 254	389 762	266 198	651 355	77 640
334412	Bare printed circuit board mfg .....	—	5	3	1 639	38 839	1 103	2 110	22 393	131 613	125 239	252 045	D
334413	Semiconductor & related device mfg ...	9	2	2	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg .....	2	5	5	e	D	D	D	D	D	D	D	1 063
334419	Other electronic component mfg .....	—	6	5	f	D	D	D	D	D	D	D	1 728
3345	Navigational, measuring, medical, & control instruments mfg .....	—	9	4	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg .....	—	9	4	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
334519	Other measuring & controlling device mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	—	8	4	641	12 874	598	1 338	11 256	11 435	50 572	61 547	1 042
3353	Electrical equipment mfg ..	—	4	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	—	4	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg .....	—	2	1	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>BUFFALO-NIAGARA FALLS, NY MSA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>1 561</b>	<b>582</b>	<b>81 398</b>	<b>3 258 585</b>	<b>58 703</b>	<b>121 293</b>	<b>2 120 425</b>	<b>9 595 175</b>	<b>8 825 676</b>	<b>18 457 932</b>	<b>764 290</b>
311	Food mfg.....	1	122	56	6 508	203 612	4 824	9 691	130 632	1 347 857	1 087 063	2 443 599	72 833
3111	Animal food mfg.....	-	5	3	e	D	D	D	D	D	D	D	D
31111	Animal food mfg.....	-	5	3	e	D	D	D	D	D	D	D	D
3112	Grain & oilseed milling ....	-	5	5	758	39 458	598	1 635	30 831	420 770	282 969	705 178	D
31121	Flour milling & malt mfg .	-	4	4	e	D	D	D	D	D	D	D	D
311211	Flour milling .....	-	3	3	e	D	D	D	D	D	D	D	D
31123	Breakfast cereal mfg ....	-	1	1	e	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg ..	-	1	1	e	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg.....	1	18	7	601	12 269	391	702	6 604	34 611	37 638	73 687	2 525
31133	Confectionery mfg from purchased chocolate...	1	8	3	371	6 968	256	406	3 627	24 571	10 376	34 987	794
311330	Confectionery mfg from purchased chocolate.....	1	8	3	371	6 968	256	406	3 627	24 571	10 376	34 987	794
3114	Fruit & vegetable preserving & specialty food mfg .....	1	13	8	985	30 096	806	1 323	14 101	147 612	147 477	294 783	4 290
31141	Frozen food mfg.....	-	5	4	698	20 569	588	836	8 153	114 518	87 161	201 638	2 729
311412	Frozen specialty food mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying.....	5	8	4	287	9 527	218	487	5 948	33 094	60 316	93 145	1 561
3115	Dairy product mfg .....	2	13	8	1 045	29 464	753	1 560	20 170	83 861	287 714	379 318	24 529
31151	Dairy product (except frozen) mfg .....	-	10	6	f	D	D	D	D	D	D	D	D
311511	Fluid milk mfg .....	-	6	3	e	D	D	D	D	D	D	D	D
311513	Cheese mfg .....	-	4	3	e	D	D	D	D	D	D	D	D
31152	Ice cream & frozen dessert mfg.....	9	3	2	e	D	D	D	D	D	D	D	D
311520	Ice cream & frozen dessert mfg.....	9	3	2	e	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	3	10	7	603	18 951	477	979	11 164	67 467	144 017	211 359	16 017
31161	Animal slaughtering & processing.....	3	10	7	603	18 951	477	979	11 164	67 467	144 017	211 359	16 017
311612	Meat processed from carcasses .....	3	9	7	f	D	D	D	D	D	D	D	16 017
3118	Bakeries & tortilla mfg.....	-	53	15	1 979	56 627	1 391	2 806	36 067	451 041	114 417	564 065	6 304
31181	Bread & bakery product mfg.....	-	46	11	1 375	38 785	857	1 603	21 967	269 629	49 962	319 751	3 226
311812	Commercial bakeries .	-	15	6	1 117	34 994	698	1 387	19 977	255 121	42 196	297 527	2 794
31182	Cookie, cracker, & pasta mfg.....	-	7	4	604	17 842	534	1 203	14 100	181 412	64 455	244 314	3 078
311821	Cookie & cracker mfg .	-	5	3	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg.....	2	8	4	721	18 868	268	446	6 324	77 898	70 011	148 307	2 726
3121	Beverage mfg.....	2	8	4	721	18 868	268	446	6 324	77 898	70 011	148 307	2 726
31211	Soft drink & ice mfg.....	2	8	4	721	18 868	268	446	6 324	77 898	70 011	148 307	2 726
312111	Soft drink mfg.....	2	7	4	f	D	D	D	D	D	D	D	D
314	Textile product mills.....	1	24	5	e	D	D	D	D	D	D	D	2 208
3149	Other textile product mills..	1	17	5	e	D	D	D	D	D	D	D	2 194
315	Apparel mfg .....	-	21	6	2 446	61 298	2 103	3 950	45 069	184 388	70 555	254 173	4 479
3152	Cut & sew apparel mfg ....	-	7	2	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg .....	-	12	4	g	D	D	D	D	D	D	D	4 017
31599	Apparel accessories & other apparel mfg .....	-	12	4	g	D	D	D	D	D	D	D	4 017
315991	Hat, cap, & millinery mfg.....	-	3	2	g	D	D	D	D	D	D	D	D
321	Wood product mfg .....	2	42	18	1 564	37 392	1 303	2 699	27 079	86 081	122 347	208 818	4 703
3211	Sawmills & wood preservation .....	2	4	3	f	D	D	D	D	D	D	D	2 797
32111	Sawmills & wood preservation .....	2	4	3	f	D	D	D	D	D	D	D	2 797
321113	Sawmills .....	2	4	3	f	D	D	D	D	D	D	D	2 797
3219	Other wood product mfg ...	3	36	14	1 008	20 349	821	1 414	13 344	42 618	40 629	83 652	D
32192	Wood container & pallet mfg.....	6	14	7	478	7 590	407	642	5 585	17 583	13 779	31 249	932
321920	Wood container & pallet mfg .....	6	14	7	478	7 590	407	642	5 585	17 583	13 779	31 249	932
32199	All other wood product mfg.....	1	11	6	370	9 269	283	511	4 996	19 082	19 570	39 171	519

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>BUFFALO-NIAGARA FALLS, NY MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
322	Paper mfg .....	1	34	22	2 209	73 667	1 714	3 704	50 492	194 872	230 055	427 224	16 878
3222	Converted paper product mfg .....	1	32	20	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg .....	1	19	13	1 269	45 107	1 011	2 218	30 066	108 711	125 606	236 368	9 412
322211	Corrugated & solid fiber box mfg .....	2	8	7	680	23 747	500	1 064	14 493	51 020	73 318	126 728	3 154
322212	Folding paperboard box mfg .....	—	7	5	491	18 182	425	992	13 113	51 140	41 323	92 248	6 166
32223	Stationery product mfg ..	—	8	4	506	13 357	415	828	9 535	37 461	48 394	86 232	D
322232	Envelope mfg .....	—	4	3	445	12 276	363	736	8 696	35 120	45 425	80 728	D
323	Printing & related support activities .....	1	196	44	4 153	128 116	3 155	6 045	85 835	259 810	167 939	428 134	32 350
3231	Printing & related support activities .....	1	196	44	4 153	128 116	3 155	6 045	85 835	259 810	167 939	428 134	32 350
32311	Printing .....	1	175	39	3 826	118 659	2 908	5 543	79 403	236 927	163 379	400 651	31 553
323110	Commercial lithographic printing ..	1	94	22	1 591	48 447	1 195	2 331	30 464	90 425	63 863	152 272	9 397
323117	Book printing .....	—	4	2	f	D	D	D	D	D	D	D	D
323119	Other commercial printing .....	4	17	5	410	11 752	275	517	6 169	21 597	15 584	36 905	1 895
32312	Support activities for printing .....	—	21	5	327	9 457	247	502	6 432	22 883	4 560	27 483	797
323122	Prepress services .....	—	16	4	274	8 458	200	426	5 655	19 871	3 988	23 891	613
324	Petroleum & coal products mfg .....	1	16	7	378	16 843	242	500	8 927	46 083	68 775	112 355	3 912
3241	Petroleum & coal products mfg .....	1	16	7	378	16 843	242	500	8 927	46 083	68 775	112 355	3 912
325	Chemical mfg .....	2	71	38	4 951	232 460	2 920	6 137	117 400	1 093 932	783 179	1 868 024	129 707
3251	Basic chemical mfg .....	—	24	17	2 391	133 020	1 524	3 358	76 353	418 235	373 262	785 971	108 933
32518	Other basic inorganic chemical mfg .....	—	9	6	1 127	62 806	792	1 762	40 225	172 179	145 413	307 452	84 982
325181	Alkalies & chlorine mfg .....	—	2	2	f	D	D	D	D	D	D	D	D
325188	All other basic inorganic chemical mfg .....	1	7	4	e	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg .....	1	8	7	832	49 505	530	1 201	27 912	154 487	174 549	335 442	14 926
325199	All other basic organic chemical mfg .....	1	8	7	832	49 505	530	1 201	27 912	154 487	174 549	335 442	14 926
3253	Pesticide, fertilizer, & other agricultural chemical mfg ..	6	5	2	e	D	D	D	D	D	D	D	D
32531	Fertilizer mfg .....	—	4	1	e	D	D	D	D	D	D	D	D
325314	Fertilizer (mixing only) mfg .....	—	3	1	e	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	—	8	5	1 398	63 378	635	1 282	20 607	407 118	122 163	523 338	9 260
32541	Pharmaceutical & medicine mfg .....	—	8	5	1 398	63 378	635	1 282	20 607	407 118	122 163	523 338	9 260
325412	Pharmaceutical preparation mfg .....	—	6	4	g	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
3259	Other chemical product mfg .....	3	11	6	299	11 071	180	323	5 822	22 717	37 428	61 009	3 369
326	Plastics & rubber products mfg .....	—	76	38	4 903	174 781	3 600	6 945	115 823	537 546	426 528	966 545	45 335
3261	Plastics product mfg .....	1	63	32	h	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg ..	1	6	4	256	7 203	179	369	4 202	15 901	17 156	33 694	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg .....	—	7	5	935	43 177	628	1 380	23 187	199 333	85 773	287 589	D
326121	Unsupported plastics profile shape mfg .....	—	5	4	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	2	41	22	2 006	53 246	1 446	2 638	32 819	118 970	108 146	225 298	7 692
326199	All other plastics product mfg .....	2	39	22	g	D	D	D	D	D	D	D	D
3262	Rubber product mfg .....	—	13	6	g	D	D	D	D	D	D	D	D
32621	Tire mfg .....	—	5	3	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading) .....	—	3	2	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>BUFFALO-NIAGARA FALLS, NY MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
327	Nonmetallic mineral product mfg .....	-	62	32	3 795	134 790	2 736	5 565	79 483	469 113	275 785	757 373	30 131
3271	Clay product & refractory mfg .....	-	8	6	941	33 842	671	1 323	20 528	89 309	41 832	131 336	7 583
32711	Pottery, ceramics, & plumbing fixture mfg ...	-	2	2	f	D	D	D	D	D	D	D	D
327112	Vitreous china, fine earthenware, & other pottery product mfg ..	-	1	1	e	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg .....	-	6	4	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg .....	4	23	8	570	19 608	382	735	11 465	40 804	43 054	83 794	4 718
32732	Ready-mix concrete mfg.	5	10	5	362	14 746	228	451	8 078	29 324	33 815	63 413	4 140
327320	Ready-mix concrete mfg .....	5	10	5	362	14 746	228	451	8 078	29 324	33 815	63 413	4 140
3279	Other nonmetallic mineral product mfg .....	-	25	18	2 245	80 569	1 651	3 465	46 929	336 947	189 500	538 773	17 615
32791	Abrasive product mfg ...	-	15	13	1 764	62 012	1 320	2 787	36 213	287 970	149 933	453 700	13 103
327910	Abrasive product mfg ..	-	15	13	1 764	62 012	1 320	2 787	36 213	287 970	149 933	453 700	13 103
32799	All other nonmetallic mineral product mfg ...	-	10	5	481	18 557	331	678	10 716	48 977	39 567	85 073	4 512
327992	Ground or treated mineral & earth mfg ..	-	3	2	e	D	D	D	D	D	D	D	D
331	Primary metal mfg .....	-	29	19	3 191	149 683	2 225	4 893	97 451	680 717	609 813	1 305 829	45 329
3311	Iron & steel mills & ferroalloy mfg .....	-	9	7	1 005	50 769	693	1 562	35 658	470 120	154 028	639 919	27 426
33111	Iron & steel mills & ferroalloy mfg .....	-	9	7	1 005	50 769	693	1 562	35 658	470 120	154 028	639 919	27 426
331111	Iron & steel mills .....	-	7	5	f	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel .....	-	3	3	f	D	D	D	D	D	D	D	D
33122	Rolling & drawing of purchased steel .....	-	3	3	f	D	D	D	D	D	D	D	D
331221	Cold-rolled steel shape mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing .....	-	5	4	1 015	51 376	725	1 595	35 396	110 433	251 049	363 853	10 938
33142	Copper rolling, drawing, extruding, & alloying ...	-	1	1	f	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, & extruding .	-	1	1	f	D	D	D	D	D	D	D	D
3315	Foundries .....	-	11	4	455	14 159	369	774	10 045	21 712	20 050	40 521	D
332	Fabricated metal product mfg .....	1	317	102	8 118	263 024	5 964	12 106	158 437	583 769	347 786	927 892	41 357
3321	Forging & stamping .....	1	16	7	481	15 954	339	664	9 233	28 516	26 957	55 285	1 798
33211	Forging & stamping .....	1	16	7	481	15 954	339	664	9 233	28 516	26 957	55 285	1 798
332116	Metal stamping .....	1	11	4	357	12 562	253	518	7 122	22 555	22 905	45 328	1 535
3322	Cutlery & handtool mfg ....	-	16	6	609	16 496	448	943	10 016	43 009	25 184	67 921	3 836
33221	Cutlery & handtool mfg ..	-	16	6	609	16 496	448	943	10 016	43 009	25 184	67 921	3 836
332213	Saw blade & handsaw mfg .....	-	3	2	270	6 854	225	438	4 830	24 211	17 118	41 311	D
3323	Architectural & structural metals mfg .....	1	50	19	1 132	38 734	766	1 621	22 152	88 071	67 183	155 130	4 185
33231	Plate work & fabricated structural product mfg ..	1	24	12	737	26 129	466	972	13 670	62 937	53 956	116 985	2 639
332312	Fabricated structural metal mfg .....	1	19	10	643	24 119	385	825	12 082	56 803	49 557	106 374	2 525
33232	Ornamental & architectural metal products mfg .....	1	26	7	395	12 605	300	649	8 482	25 134	13 227	38 145	1 546
332322	Sheet metal work mfg .	1	17	6	300	9 403	235	510	6 631	18 612	8 191	26 601	1 225
3324	Boiler, tank, & shipping container mfg .....	1	19	11	1 001	35 774	730	1 440	19 233	81 348	52 421	131 769	3 339
33241	Power boiler & heat exchanger mfg .....	-	10	7	784	29 263	562	1 128	15 491	69 447	43 042	110 346	3 123
332410	Power boiler & heat exchanger mfg .....	-	10	7	784	29 263	562	1 128	15 491	69 447	43 042	110 346	3 123
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	1	133	35	2 194	69 518	1 684	3 319	44 914	145 545	66 241	210 898	13 870
33271	Machine shops .....	2	108	24	1 241	38 461	951	1 792	25 771	71 234	26 363	96 901	7 086
332710	Machine shops .....	2	108	24	1 241	38 461	951	1 792	25 771	71 234	26 363	96 901	7 086
33272	Turned product & screw, nut, & bolt mfg .....	-	25	11	953	31 057	733	1 527	19 143	74 311	39 878	113 997	6 784
332721	Precision turned product mfg .....	-	20	9	864	28 290	678	1 414	17 968	66 045	35 771	101 550	6 446

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>BUFFALO-NIAGARA FALLS, NY MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg—Con.												
3328	Coating, engraving, heat treating, & allied activities.	—	40	10	1 098	38 264	785	1 569	21 769	90 689	37 969	128 550	5 961
33281	Coating, engraving, heat treating, & allied activities.....	—	40	10	1 098	38 264	785	1 569	21 769	90 689	37 969	128 550	5 961
332812	Metal coating/engraving (exc jewelry/silverware)/allied services.....	—	14	5	635	23 823	444	883	13 400	62 545	17 140	79 443	2 974
332813	Electroplating, plating, polishing, anodizing, & coloring.....	1	19	4	399	12 223	293	588	7 042	22 663	19 226	42 025	2 525
3329	Other fabricated metal product mfg.....	1	30	8	1 131	33 537	871	1 885	22 570	78 742	49 165	127 851	3 696
33291	Metal valve mfg.....	1	6	3	774	22 161	622	1 406	15 961	57 805	34 122	91 071	2 486
332911	Industrial valve mfg...	—	3	1	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg.....	3	24	5	357	11 376	249	479	6 609	20 937	15 043	36 780	1 210
333	Machinery mfg.....	1	169	66	9 376	397 863	5 357	10 929	194 270	923 824	507 802	1 440 821	48 648
3331	Agriculture, construction, & mining machinery mfg....	—	7	3	542	23 104	415	983	16 241	67 713	39 861	105 280	2 938
33313	Mining & oil & gas field machinery mfg.....	—	3	2	e	D	D	D	D	D	D	D	D
333131	Mining machinery & equipment mfg.....	—	3	2	e	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg..	—	22	4	694	26 392	432	890	13 842	55 344	46 074	99 646	2 718
33329	Other industrial machinery mfg.....	—	18	3	f	D	D	D	D	D	D	D	D
333298	All other industrial machinery mfg.....	—	6	2	270	9 658	167	326	4 955	19 057	22 851	41 920	907
3333	Commercial & service industry machinery mfg..	1	11	4	431	15 431	227	363	5 900	37 660	28 033	67 743	903
33331	Commercial & service industry machinery mfg.....	1	11	4	431	15 431	227	363	5 900	37 660	28 033	67 743	903
333314	Optical instrument & lens mfg.....	—	2	2	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	—	14	8	600	22 088	324	696	8 963	37 131	33 811	72 110	2 523
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg..	—	14	8	600	22 088	324	696	8 963	37 131	33 811	72 110	2 523
3335	Metalworking machinery mfg.....	3	52	13	1 948	81 331	1 189	2 459	47 642	170 436	107 663	271 981	10 522
33351	Metalworking machinery mfg.....	3	52	13	1 948	81 331	1 189	2 459	47 642	170 436	107 663	271 981	10 522
333513	Machine tool (metal forming types) mfg....	5	5	3	948	40 879	543	1 075	22 323	94 697	54 169	141 809	D
333514	Special die & tool, die set, jig, & fixture mfg..	3	23	7	584	19 375	367	745	10 702	35 967	13 625	50 499	2 948
3336	Engine, turbine, & power transmission equipment mfg.....	—	11	10	947	32 768	623	1 135	20 352	58 660	48 702	108 726	2 738
33361	Engine, turbine, & power transmission equipment mfg.....	—	11	10	947	32 768	623	1 135	20 352	58 660	48 702	108 726	2 738
333612	Speed changer, industrial high-speed drive, & gear mfg....	—	6	6	489	17 349	287	606	10 056	28 812	11 535	41 593	1 712
333618	Other engine equipment mfg.....	—	3	2	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg.....	—	52	24	4 214	196 749	2 147	4 403	81 330	496 880	203 658	715 335	26 306
33391	Pump & compressor mfg.....	—	7	4	773	37 880	397	842	15 931	121 062	97 374	221 185	13 297
333912	Air & gas compressor mfg.....	—	3	2	f	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg.....	1	13	5	287	8 283	198	411	5 044	19 270	17 687	37 249	408
33399	All other general-purpose machinery mfg.....	—	32	15	3 154	150 586	1 552	3 150	60 355	356 548	88 597	456 901	12 601
333994	Industrial process furnace & oven mfg..	4	4	3	258	12 877	151	342	5 870	27 641	24 119	51 243	1 045
333995	Fluid power cylinder & actuator mfg.....	—	6	4	2 232	115 495	1 052	2 134	45 351	293 183	25 993	331 124	8 208
333999	All other miscellaneous general-purpose machinery mfg.....	2	12	5	412	13 063	271	537	7 236	22 450	19 293	42 026	2 112



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<b>31-33</b>	<b>BUFFALO-NIAGARA FALLS, NY MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg.....	1	70	32	3 503	123 586	2 015	3 678	56 577	256 578	164 670	418 031	11 707
3342	Communications equipment mfg.....	2	14	6	367	13 317	150	274	3 417	27 772	24 525	52 900	1 019
3344	Semiconductor & other electronic component mfg.....	2	24	9	1 320	32 362	920	1 613	20 217	69 808	38 399	108 529	4 243
33441	Semiconductor & other electronic component mfg.....	2	24	9	1 320	32 362	920	1 613	20 217	69 808	38 399	108 529	4 243
334419	Other electronic component mfg.....	3	9	4	775	18 551	520	990	10 862	41 132	17 000	58 421	1 957
3345	Navigational, measuring, medical, & control instruments mfg.....	1	22	15	1 665	73 359	861	1 614	30 167	148 203	94 755	238 876	5 718
33451	Navigational, measuring, medical, & control instruments mfg.....	1	22	15	1 665	73 359	861	1 614	30 167	148 203	94 755	238 876	5 718
334510	Electromedical & electrotherapeutic apparatus mfg.....	—	4	4	380	15 138	174	335	4 889	29 763	29 288	58 997	1 702
334511	Search, detection, navigation, & guidance instrument mfg.....	—	3	2	f	D	D	D	D	D	D	D	D
334515	Electricity measuring & testing instrument mfg.....	3	3	2	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	1	38	19	2 063	82 654	1 377	2 971	43 184	202 481	174 081	374 306	29 102
3353	Electrical equipment mfg..	4	18	6	464	17 094	307	552	7 215	31 242	29 781	63 263	2 509
33531	Electrical equipment mfg.....	4	18	6	464	17 094	307	552	7 215	31 242	29 781	63 263	2 509
3359	Other electrical equipment & component mfg.....	—	14	9	1 382	60 105	887	2 062	31 963	158 120	137 667	291 204	25 895
33591	Battery mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
335912	Primary battery mfg...	—	1	1	f	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg.....	—	7	7	736	31 569	477	995	20 132	108 058	122 837	226 551	D
335991	Carbon & graphite product mfg.....	—	3	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	—	58	29	18 002	1 011 488	15 033	33 567	824 294	2 245 731	3 435 200	5 691 610	226 266
3363	Motor vehicle parts mfg...	—	34	21	16 885	973 293	14 367	32 292	804 396	2 183 239	3 361 397	5 554 133	221 914
33631	Motor vehicle gasoline engine & engine parts mfg.....	—	4	1	h	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg.....	—	2	1	h	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg.....	2	6	4	1 413	42 058	1 106	2 133	25 588	146 934	122 322	266 353	15 076
336322	Other motor vehicle electrical & electronic equipment mfg.....	2	5	4	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg.....	—	4	3	h	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg.....	—	4	3	h	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping.....	—	2	1	g	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping.....	—	2	1	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg.....	1	14	9	6 939	424 168	5 504	12 453	324 965	1 019 122	603 797	1 626 172	47 401
336391	Motor vehicle air-conditioning mfg.....	—	1	1	i	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg.....	9	13	8	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg.....	—	4	3	848	30 844	489	947	15 473	42 623	47 554	91 670	3 153
33641	Aerospace product & parts mfg.....	—	4	3	848	30 844	489	947	15 473	42 623	47 554	91 670	3 153
336413	Other aircraft part & auxiliary equipment mfg.....	—	3	2	f	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>BUFFALO-NIAGARA FALLS, NY MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
337	Furniture & related product mfg .....	2	54	12	1 034	25 944	788	1 490	16 258	66 652	44 454	111 467	3 747
3371	Household & institutional furniture & kitchen cabinet mfg .....	1	30	5	509	11 996	397	796	8 021	34 596	21 772	56 682	D
33712	Household & institutional furniture mfg .....	—	11	3	337	8 316	258	525	5 416	24 860	16 386	41 592	1 059
3372	Office furniture (including fixtures) mfg .....	2	19	6	448	12 167	335	596	7 235	26 889	16 980	43 871	2 068
33721	Office furniture (including fixtures) mfg .....	2	19	6	448	12 167	335	596	7 235	26 889	16 980	43 871	2 068
339	Miscellaneous mfg .....	1	140	29	3 820	107 351	2 574	5 052	53 438	304 728	206 532	506 884	12 124
3391	Medical equipment & supplies mfg .....	—	66	10	1 731	41 681	1 097	1 820	18 965	129 439	102 727	229 525	8 521
33911	Medical equipment & supplies mfg .....	—	66	10	1 731	41 681	1 097	1 820	18 965	129 439	102 727	229 525	8 521
339112	Surgical & medical instrument mfg .....	1	8	2	498	9 685	325	635	4 449	27 804	3 318	30 571	797
339113	Surgical appliance & supplies mfg .....	—	9	4	718	17 194	408	575	5 746	47 077	50 226	93 007	D
339116	Dental laboratories .....	4	37	3	e	D	D	D	D	D	D	D	288
3399	Other miscellaneous mfg ..	1	74	19	2 089	65 670	1 477	3 232	34 473	175 289	103 805	277 359	3 603
33994	Office supplies (except paper) mfg .....	—	4	1	f	D	D	D	D	D	D	D	D
339944	Carbon paper & inked ribbon mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
33995	Sign mfg .....	—	21	2	316	16 789	180	355	4 915	44 101	16 772	60 732	1 047
339950	Sign mfg .....	—	21	2	316	16 789	180	355	4 915	44 101	16 772	60 732	1 047
33999	All other miscellaneous mfg .....	4	23	8	672	16 111	513	929	8 869	42 731	28 172	70 549	1 892
339991	Gasket, packing, & sealing device mfg ...	1	10	2	301	7 163	220	343	3 677	17 884	13 492	31 872	471
	<b>ELMIRA, NY MSA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>94</b>	<b>44</b>	<b>9 098</b>	<b>278 083</b>	<b>6 214</b>	<b>12 888</b>	<b>170 432</b>	<b>765 645</b>	<b>576 380</b>	<b>1 357 316</b>	<b>64 924</b>
322	Paper mfg .....	—	3	3	421	14 159	294	551	7 857	26 389	21 296	47 350	D
3222	Converted paper product mfg .....	—	3	3	421	14 159	294	551	7 857	26 389	21 296	47 350	D
32221	Paperboard container mfg .....	—	3	3	421	14 159	294	551	7 857	26 389	21 296	47 350	D
322212	Folding paperboard box mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
323	Printing & related support activities .....	2	11	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities .....	2	11	2	f	D	D	D	D	D	D	D	D
32311	Printing .....	2	11	2	f	D	D	D	D	D	D	D	D
323116	Manifold business form printing .....	—	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	—	9	4	647	25 523	525	1 063	19 422	70 289	41 414	112 045	5 654
3272	Glass & glass product mfg .	—	5	3	585	23 670	481	965	18 394	67 794	39 134	107 287	5 296
32721	Glass & glass product mfg .....	—	5	3	585	23 670	481	965	18 394	67 794	39 134	107 287	5 296
327213	Glass container mfg ..	—	1	1	e	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass .....	—	3	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	—	21	12	1 210	39 765	982	2 085	26 555	112 141	50 559	162 677	5 727
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	—	10	4	391	13 367	322	713	8 860	26 398	15 945	41 225	1 591
3329	Other fabricated metal product mfg .....	—	4	2	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 .....	2	11	7	2 054	75 274	1 455	2 877	43 634	165 961	122 472	302 469	12 112
3335	Metalworking machinery mfg .....	—	3	2	g	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg .....	—	3	2	g	D	D	D	D	D	D	D	D
333512	Machine tool (metal cutting types) mfg ...	—	1	1	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	6	4	4	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg .....	6	4	4	f	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg .....	4	3	3	f	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>ELMIRA, NY MSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg.....	-	5	4	h	D	D	D	D	D	D	D	D
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
334411	Electron tube mfg.....	-	3	3	g	D	D	D	D	D	D	D	D
334417	Electronic connector mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	3	2	e	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
	<b>GLENS FALLS, NY MSA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>183</b>	<b>56</b>	<b>7 866</b>	<b>266 749</b>	<b>5 546</b>	<b>11 079</b>	<b>151 403</b>	<b>770 818</b>	<b>696 172</b>	<b>1 462 693</b>	<b>74 753</b>
313	Textile mills.....	-	3	1	e	D	D	D	D	D	D	D	D
3132	Fabric mills.....	-	1	1	e	D	D	D	D	D	D	D	D
31324	Knit fabric mills.....	-	1	1	e	D	D	D	D	D	D	D	D
313249	Other knit fabric & lace mills.....	-	1	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg.....	3	23	5	417	9 399	331	683	6 555	18 853	24 562	43 149	1 279
322	Paper mfg.....	-	13	10	1 897	81 933	1 342	2 960	48 058	246 192	220 148	458 899	49 273
3221	Pulp, paper, & paperboard mills.....	-	5	5	1 411	61 087	960	2 118	36 290	209 282	179 930	383 566	D
32212	Paper mills.....	-	5	5	1 411	61 087	960	2 118	36 290	209 282	179 930	383 566	D
322121	Paper (except newsprint) mills.....	-	5	5	1 411	61 087	960	2 118	36 290	209 282	179 930	383 566	D
3222	Converted paper product mfg.....	-	8	5	486	20 846	382	842	11 768	36 910	40 218	75 333	D
32229	Other converted paper product mfg.....	-	4	4	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	1	24	7	648	19 627	483	855	12 099	57 573	36 918	93 577	7 884
3273	Cement & concrete product mfg.....	-	10	2	414	13 015	291	470	7 739	43 717	27 784	71 779	D
332	Fabricated metal product mfg.....	2	31	6	329	10 120	247	494	6 566	21 690	14 911	36 552	2 225
333	Machinery mfg.....	-	13	5	483	21 574	305	598	11 086	39 981	37 031	77 763	1 946
3332	Industrial machinery mfg ..	-	7	3	386	18 793	232	447	9 259	35 669	32 362	68 422	D
33329	Other industrial machinery mfg.....	-	7	3	386	18 793	232	447	9 259	35 669	32 362	68 422	D
333291	Paper industry machinery mfg.....	-	5	3	e	D	D	D	D	D	D	D	1 657
335	Electrical equipment, appliance, & component mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment & component mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg.....	-	5	3	400	11 824	265	536	5 844	25 045	14 189	38 649	748
3371	Household & institutional furniture & kitchen cabinet mfg.....	-	5	3	400	11 824	265	536	5 844	25 045	14 189	38 649	748
33712	Household & institutional furniture mfg.....	-	3	3	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	22	7	2 152	65 310	1 427	2 753	30 084	117 582	103 408	221 610	5 476
3391	Medical equipment & supplies mfg.....	-	11	5	2 009	61 436	1 324	2 536	27 750	108 892	97 843	207 285	4 986
33911	Medical equipment & supplies mfg.....	-	11	5	2 009	61 436	1 324	2 536	27 750	108 892	97 843	207 285	4 986
339112	Surgical & medical instrument mfg.....	-	6	5	1 989	60 998	1 311	2 520	27 544	107 779	97 203	205 520	4 913

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>JAMESTOWN, NY MSA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>222</b>	<b>92</b>	<b>13 084</b>	<b>409 068</b>	<b>9 651</b>	<b>19 457</b>	<b>267 195</b>	<b>1 459 552</b>	<b>1 499 709</b>	<b>2 973 564</b>	<b>110 171</b>
311	Food mfg .....	-	22	12	2 444	69 485	1 814	3 766	43 440	420 483	578 897	999 303	19 871
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 .....	-	5	4	1 203	37 169	940	2 091	23 212	127 735	299 538	427 958	D
31142	Fruit & vegetable canning, pickling, & drying .....	-	4	3	g	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning .....	-	3	3	g	D	D	D	D	D	D	D	8 111
3115	Dairy product mfg .....	7	3	2	e	D	D	D	D	D	D	D	D
31152	Ice cream & frozen dessert mfg .....	9	1	1	e	D	D	D	D	D	D	D	D
311520	Ice cream & frozen dessert mfg .....	9	1	1	e	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	9	4	3	319	5 105	199	360	2 914	11 235	11 208	21 939	D
321	Wood product mfg .....	1	19	6	303	6 537	237	416	4 038	13 132	15 224	28 231	1 109
327	Nonmetallic mineral product mfg .....	-	14	3	492	18 891	365	751	12 992	42 521	34 886	76 704	3 881
3271	Clay product & refractory mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
327125	Nonclay refractory mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
331	Primary metal mfg .....	-	5	2	f	D	D	D	D	D	D	D	D
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
332	Fabricated metal product mfg .....	-	55	20	2 496	83 530	1 901	4 061	58 422	151 532	115 364	266 206	16 864
3321	Forging & stamping .....	-	11	6	404	9 298	340	721	6 871	17 692	26 901	44 471	666
33211	Forging & stamping .....	-	11	6	404	9 298	340	721	6 871	17 692	26 901	44 471	666
332116	Metal stamping .....	-	6	4	322	6 472	284	580	5 202	10 852	17 465	28 221	D
3323	Architectural & structural metals mfg .....	-	14	6	420	12 150	288	619	7 544	27 174	13 362	40 258	472
33232	Ornamental & architectural metal products mfg .....	-	9	5	352	10 203	232	473	6 126	24 492	9 175	33 226	D
332321	Metal window & door mfg .....	-	3	3	250	7 481	158	362	4 471	18 052	5 147	22 977	256
3325	Hardware mfg .....	-	3	1	e	D	D	D	D	D	D	D	D
33251	Hardware mfg .....	-	3	1	e	D	D	D	D	D	D	D	D
332510	Hardware mfg .....	-	3	1	e	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	2	16	3	289	8 735	242	459	6 448	17 176	7 885	24 727	1 814
3329	Other fabricated metal product mfg .....	-	7	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg .....	-	6	2	f	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	25	12	2 102	79 105	1 367	3 423	58 356	412 507	434 149	846 169	14 860
3335	Metalworking machinery mfg .....	2	15	5	510	19 235	384	793	14 207	32 571	16 948	50 100	5 773
33351	Metalworking machinery mfg .....	2	15	5	510	19 235	384	793	14 207	32 571	16 948	50 100	5 773
333514	Special die & tool, die set, jig, & fixture mfg ..	-	10	2	312	11 201	236	467	8 200	15 499	11 940	27 742	2 451
3336	Engine, turbine, & power transmission equipment mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	-	5	3	e	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg .....	-	1	1	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>JAMESTOWN, NY MSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
336	Transportation equipment mfg .....	2	6	5	625	15 313	386	727	7 824	8 578	20 391	38 112	2 396
3363	Motor vehicle parts mfg . . .	3	5	4	f	D	D	D	D	D	D	D	2 396
33632	Motor vehicle electrical & electronic equipment mfg .....	—	2	2	e	D	D	D	D	D	D	D	D
336321	Vehicular lighting equipment mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	—	23	15	2 632	66 346	2 121	3 319	38 309	233 494	135 301	362 781	D
3371	Household & institutional furniture & kitchen cabinet mfg .....	—	15	10	2 411	59 986	1 979	3 074	35 028	204 607	125 386	325 488	D
33712	Household & institutional furniture mfg .....	—	11	9	2 379	59 116	1 957	3 031	34 543	202 856	124 628	322 951	D
337122	Nonupholstered wood household furniture mfg .....	—	7	7	2 309	57 697	1 905	2 925	33 561	202 015	122 329	319 911	D
	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA</b>												
<b>31-33</b>	<b>Manufacturing . . . .</b>	<b>1</b>	<b>29 610</b>	<b>8 242</b>	<b>837 259</b>	<b>29 316 270</b>	<b>556 831</b>	<b>1 099 707</b>	<b>14 974 104</b>	<b>88 559 145</b>	<b>75 447 144</b>	<b>164 000 119</b>	<b>5 662 912</b>
	New York—Northern New Jersey—Long Island, NY—NJ—CT—PA CMSA (CT Part) .....	1	3 136	1 014	126 073	5 105 182	77 123	159 649	2 450 980	15 589 132	10 842 000	26 362 516	999 073
	New York—Northern New Jersey—Long Island, NY—NJ—CT—PA CMSA (NJ Part) .....	1	9 881	3 185	336 041	12 775 550	224 381	456 137	6 591 608	41 940 178	37 053 679	78 851 460	2 605 396
	New York—Northern New Jersey—Long Island, NY—NJ—CT—PA CMSA (NY Part) .....	2	16 565	4 039	374 810	11 425 439	255 150	483 656	5 928 336	31 004 045	27 448 245	58 649 812	2 055 055
	New York—Northern New Jersey—Long Island, NY—NJ—CT—PA CMSA (PA Part) .....	—	28	4	335	10 099	177	265	3 180	25 790	103 220	136 331	3 388
311	Food mfg .....	2	2 571	447	l	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg .....	2	100	32	i	D	D	D	D	D	D	D	D
313	Textile mills .....	3	922	248	j	D	D	D	D	D	D	D	D
314	Textile product mills .....	2	809	173	j	D	D	D	D	D	D	D	D
315	Apparel mfg .....	3	4 418	1 362	m	D	D	D	D	D	D	D	D
316	Leather & allied product mfg .	1	230	55	i	D	D	D	D	D	D	D	D
321	Wood product mfg .....	4	326	66	h	D	D	D	D	D	D	D	D
322	Paper mfg .....	1	490	276	k	D	D	D	D	D	D	D	D
323	Printing & related support activities .....	4	3 936	722	l	D	D	D	D	D	D	D	D
324	Petroleum & coal products mfg .....	1	118	27	h	D	D	D	D	D	D	D	D
325	Chemical mfg .....	1	1 205	587	l	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	2	1 052	540	l	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	2	617	176	j	D	D	D	D	D	D	D	D
331	Primary metal mfg .....	—	286	135	j	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	1	3 722	960	80 405	2 878 544	58 220	121 941	1 709 920	6 078 011	4 482 749	10 584 180	356 089
333	Machinery mfg .....	1	1 672	489	k	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	1	1 402	576	l	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
335	Electrical equipment, appliance, & component mfg .....	1	637	297	k	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	—	450	166	k	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	3	1 452	259	j	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	1	3 195	649	l	D	D	D	D	D	D	D	D
	<b>Dutchess County, NY PMSA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>210</b>	<b>59</b>	<b>11 848</b>	<b>521 317</b>	<b>5 675</b>	<b>11 405</b>	<b>153 806</b>	<b>937 456</b>	<b>1 932 127</b>	<b>3 032 927</b>	<b>54 681</b>
321	Wood product mfg .....	6	7	3	269	7 987	202	431	4 258	24 075	39 413	62 410	1 322
323	Printing & related support activities .....	5	28	6	492	16 654	392	705	9 884	40 973	17 714	58 614	2 270
3231	Printing & related support activities .....	5	28	6	492	16 654	392	705	9 884	40 973	17 714	58 614	2 270
323110	Commercial lithographic printing ..	5	26	5	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	5	17	5	438	15 567	352	649	9 138	37 686	15 982	53 590	2 204
326	Plastics & rubber products mfg .....	1	8	6	666	21 831	506	1 113	12 242	52 759	51 259	105 346	3 265
3262	Rubber product mfg .....	1	3	3	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg .....	2	2	2	e	D	D	D	D	D	D	D	D
326299	All other rubber product mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	1	14	4	323	9 880	165	288	4 034	28 388	36 615	64 840	1 814
332	Fabricated metal product mfg .....	1	36	12	749	26 342	583	1 176	15 611	59 764	28 556	87 734	2 669
333	Machinery mfg .....	—	13	5	314	12 596	209	377	6 020	29 758	10 661	40 181	657
334	Computer & electronic product mfg .....	—	15	8	i	D	D	D	D	D	D	D	35 102
3344	Semiconductor & other electronic component mfg .....	—	9	5	i	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	—	9	5	i	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	—	4	2	h	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
334419	Other electronic component mfg .....	9	3	1	519	12 452	453	1 032	11 498	700	2 739	3 488	D
	<b>Nassau—Suffolk, NY PMSA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>4 188</b>	<b>1 040</b>	<b>113 034</b>	<b>3 984 278</b>	<b>71 156</b>	<b>138 929</b>	<b>1 883 657</b>	<b>11 184 120</b>	<b>7 940 928</b>	<b>19 126 418</b>	<b>650 297</b>
311	Food mfg .....	2	341	46	5 574	153 943	3 340	5 800	79 456	508 854	357 166	868 559	30 471
3118	Bakeries & tortilla mfg .....	1	266	21	3 853	102 175	2 242	3 701	52 672	336 532	180 658	518 608	18 643
31181	Bread & bakery product mfg .....	1	254	18	3 520	93 029	2 016	3 267	47 039	308 777	159 559	469 523	16 581
311811	Retail bakeries .....	3	195	5	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	—	57	13	2 371	76 096	1 361	2 322	38 588	270 266	136 504	407 739	14 865
31182	Cookie, cracker, & pasta mfg .....	2	12	3	333	9 146	226	434	5 633	27 755	21 099	49 085	2 062
3119	Other food mfg .....	3	15	8	630	20 411	333	598	8 974	80 405	60 440	142 495	5 931
31199	All other food mfg .....	2	9	5	437	13 354	230	441	6 385	63 286	42 986	106 183	5 170
311991	Perishable prepared food mfg .....	—	3	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.</b> <b>Nassau—Suffolk, NY PMSA—Con.</b> <b>Manufacturing—Con.</b>												
313	Textile mills .....	2	49	11	1 029	28 729	870	1 897	20 222	71 536	82 010	153 579	3 129
3132	Fabric mills .....	5	21	5	f	D	D	D	D	D	D	D	D
31324	Knit fabric mills .....	4	10	5	498	12 870	450	978	10 971	25 539	10 857	35 920	835
313241	Weft knit fabric mills ..	9	6	3	e	D	D	D	D	D	D	D	D
3133	Textile & fabric finishing & fabric coating mills .....	1	27	5	445	13 625	342	740	7 758	42 569	64 994	108 381	1 856
31331	Textile & fabric finishing mills .....	1	25	4	e	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills .....	1	18	3	309	9 506	240	551	5 359	26 812	32 354	60 007	1 630
314	Textile product mills .....	2	85	13	950	24 824	722	1 351	14 811	53 244	46 673	99 616	2 455
3141	Textile furnishings mills .....	1	26	4	335	7 474	257	459	4 471	13 798	19 282	33 153	472
31412	Curtain & linen mills .....	2	24	3	e	D	D	D	D	D	D	D	D
3149	Other textile product mills ..	3	59	9	615	17 350	465	892	10 340	39 446	27 391	66 463	1 983
31491	Textile bag & canvas mills .....	3	32	3	302	10 178	219	415	5 557	16 961	10 687	27 456	968
31499	All other textile product mills .....	3	27	6	313	7 172	246	477	4 783	22 485	16 704	39 007	1 015
314999	All other miscellaneous textile product mills ..	3	27	6	313	7 172	246	477	4 783	22 485	16 704	39 007	1 015
315	Apparel mfg .....	3	150	48	3 193	64 468	2 460	4 550	42 041	198 509	186 617	391 234	5 451
3151	Apparel knitting mills .....	6	23	7	462	12 864	364	700	7 614	19 426	58 709	79 931	3 415
31519	Other apparel knitting mills .....	6	23	7	462	12 864	364	700	7 614	19 426	58 709	79 931	3 415
315191	Outerwear knitting mills .....	6	23	7	462	12 864	364	700	7 614	19 426	58 709	79 931	3 415
3152	Cut & sew apparel mfg .....	3	95	36	2 352	43 059	1 793	3 300	29 907	159 146	105 901	269 447	1 883
31521	Cut & sew apparel contractors .....	6	55	20	1 091	17 231	1 007	1 767	14 251	33 200	9 194	42 171	863
315212	Women's, girls' & infants' cut & sew apparel contractors ..	5	49	17	961	15 447	884	1 552	12 658	29 600	8 769	38 146	784
31523	Women's & girls' cut & sew apparel mfg .....	1	27	11	934	19 819	502	959	11 074	104 804	73 845	183 031	703
315234	Women's & girls' cut & sew suit, coat, skirt mfg .....	2	3	2	e	D	D	D	D	D	D	D	342
315239	Women's & girls' cut & sew other outerwear mfg .....	-	11	5	273	6 437	144	263	2 592	17 415	22 925	41 046	226
31529	Other cut & sew apparel mfg .....	8	7	3	259	4 786	224	466	3 650	18 343	20 351	38 892	D
315299	All other cut & sew apparel mfg .....	9	6	3	e	D	D	D	D	D	D	D	207
3159	Apparel accessories & other apparel mfg .....	-	32	5	379	8 545	303	550	4 520	19 937	22 007	41 856	153
31599	Apparel accessories & other apparel mfg .....	-	32	5	379	8 545	303	550	4 520	19 937	22 007	41 856	153
316	Leather & allied product mfg ..	1	18	3	280	6 122	188	396	3 800	23 177	15 384	41 972	342
321	Wood product mfg .....	5	68	9	718	16 138	581	1 113	12 387	28 935	27 046	56 116	1 515
3219	Other wood product mfg .....	4	65	9	f	D	D	D	D	D	D	D	D
32191	Millwork .....	4	32	3	271	7 442	208	419	5 542	12 707	11 890	24 551	797
32199	All other wood product mfg .....	5	21	5	370	7 108	315	579	5 842	12 673	11 766	24 634	557
321999	All other miscellaneous wood product mfg .....	5	19	5	e	D	D	D	D	D	D	D	D
322	Paper mfg .....	4	64	30	2 629	84 294	2 015	4 027	53 016	222 164	278 058	502 789	20 676
3222	Converted paper product mfg .....	4	63	29	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg .....	1	26	13	886	31 841	607	1 186	15 177	60 719	93 349	154 835	3 129
322211	Corrugated & solid fiber box mfg .....	1	15	8	458	15 833	302	559	6 894	26 820	54 328	81 570	D
322212	Folding paperboard box mfg .....	1	9	5	e	D	D	D	D	D	D	D	1 876
32222	Paper bag & coated & treated paper mfg .....	3	12	3	e	D	D	D	D	D	D	D	1 189
32223	Stationery product mfg ..	-	11	5	570	16 715	413	906	10 218	43 673	28 314	73 208	D
322232	Envelope mfg .....	-	3	2	e	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg .....	9	14	8	689	20 834	590	1 181	16 044	93 122	111 514	205 184	D
322291	Sanitary paper product mfg .....	9	7	5	552	17 467	469	1 008	13 562	86 860	106 507	193 149	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]

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.</b> <b>Nassau—Suffolk, NY PMSA—Con.</b> <b>Manufacturing—Con.</b>												
323	Printing & related support activities.....	2	659	110	9 257	306 125	6 730	12 848	191 475	660 661	398 566	1 060 459	49 047
3231	Printing & related support activities.....	2	659	110	9 257	306 125	6 730	12 848	191 475	660 661	398 566	1 060 459	49 047
32311	Printing.....	2	581	104	8 378	273 657	6 000	11 257	165 523	604 032	387 897	993 269	46 264
323110	Commercial lithographic printing ..	2	293	66	5 409	183 887	3 811	7 259	110 095	373 021	242 780	618 023	31 016
323112	Commercial flexographic printing .	1	17	6	472	16 350	292	557	9 331	41 215	36 572	76 775	5 213
323113	Commercial screen printing.....	3	51	6	446	10 361	363	643	6 283	20 034	12 648	32 768	2 425
323114	Quick printing.....	4	113	3	488	11 967	353	558	7 845	23 299	16 376	39 618	1 701
323116	Manifold business form printing.....	2	18	6	462	16 355	339	608	9 903	68 438	31 268	100 279	1 799
323117	Book printing.....	1	15	7	289	9 909	246	511	6 672	19 968	13 871	33 639	1 537
323118	Blankbook, looseleaf binder, & device mfg .	3	7	4	288	7 819	229	448	4 964	27 328	12 666	39 848	724
323119	Other commercial printing.....	5	56	6	486	15 734	338	621	9 588	27 630	19 004	46 510	1 509
32312	Support activities for printing.....	2	78	6	879	32 468	730	1 591	25 952	56 629	10 669	67 190	2 783
323122	Prepress services ....	2	63	4	744	28 677	618	1 347	23 360	49 572	9 548	59 043	1 898
325	Chemical mfg .....	1	140	60	10 917	382 870	5 809	11 736	138 945	2 161 593	1 631 509	3 812 409	147 569
3251	Basic chemical mfg .....	4	9	6	320	12 400	197	383	6 335	28 867	23 161	52 211	D
3254	Pharmaceutical & medicine mfg .....	1	57	31	5 789	208 693	2 879	5 395	71 062	603 556	514 601	1 121 331	82 646
32541	Pharmaceutical & medicine mfg .....	1	57	31	5 789	208 693	2 879	5 395	71 062	603 556	514 601	1 121 331	82 646
325411	Medicinal & botanical mfg .....	5	12	3	443	16 123	281	467	7 704	44 051	59 814	103 703	10 636
325412	Pharmaceutical preparation mfg .....	-	39	24	5 084	183 478	2 514	4 728	60 350	547 479	440 477	988 333	71 186
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	39	10	3 338	100 893	1 807	4 064	31 603	1 348 903	754 307	2 114 898	22 390
32562	Toilet preparation mfg ..	-	24	9	3 181	96 105	1 698	3 862	29 190	1 337 293	745 316	2 093 094	21 760
325620	Toilet preparation mfg .	-	24	9	3 181	96 105	1 698	3 862	29 190	1 337 293	745 316	2 093 094	21 760
3259	Other chemical product mfg .....	-	14	8	1 063	40 900	672	1 341	20 118	99 750	218 176	320 700	31 333
32599	All other chemical product & preparation mfg .....	-	14	8	1 063	40 900	672	1 341	20 118	99 750	218 176	320 700	31 333
325992	Photographic film, paper, plate, & chemical mfg .....	-	4	3	f	D	D	D	D	D	D	D	D
325998	All other miscellaneous chemical product & preparation mfg .....	1	10	5	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	4	152	70	6 061	166 580	4 619	8 514	92 391	369 020	359 422	729 239	26 044
3261	Plastics product mfg .....	4	136	62	5 702	157 792	4 328	7 888	87 242	351 348	345 844	698 097	24 884
32611	Unsupported plastics film, sheet, & bag mfg ..	2	18	6	998	29 941	753	1 566	18 425	73 344	84 373	156 500	3 931
326111	Unsupported plastics bag mfg .....	-	7	3	683	19 869	538	1 145	12 606	45 024	51 403	95 379	D
32619	Other plastics product mfg .....	4	92	47	4 247	113 104	3 256	5 707	60 583	243 594	227 250	473 060	18 774
326199	All other plastics product mfg .....	4	89	47	4 229	112 725	3 241	5 679	60 303	242 662	226 485	471 361	18 736
3262	Rubber product mfg .....	3	16	8	359	8 788	291	626	5 149	17 672	13 578	31 142	1 160
32629	Other rubber product mfg .....	2	8	6	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	2	117	21	1 314	45 141	996	1 890	31 417	129 484	138 225	262 742	7 808
3272	Glass & glass product mfg .	4	26	4	275	7 959	171	322	4 209	21 320	18 593	39 862	1 265
32721	Glass & glass product mfg .....	4	26	4	275	7 959	171	322	4 209	21 320	18 593	39 862	1 265
327215	Glass product mfg made of purchased glass.....	4	20	4	258	7 590	156	303	3 918	20 258	18 178	38 380	1 162
3273	Cement & concrete product mfg .....	2	64	12	743	27 436	595	1 121	19 901	69 902	73 047	143 469	5 389
32732	Ready-mix concrete mfg .	1	30	4	285	11 613	243	448	9 311	25 315	36 870	62 507	2 255
327320	Ready-mix concrete mfg .....	1	30	4	285	11 613	243	448	9 311	25 315	36 870	62 507	2 255



**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]

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	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.</b>												
	<b>Nassau—Suffolk, NY PMSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
331	Primary metal mfg . . . . .	3	33	10	738	20 586	496	961	11 508	41 848	37 785	79 541	1 786
3315	Foundries . . . . .	—	20	8	506	14 456	327	663	7 570	23 672	18 861	42 346	667
33152	Nonferrous metal foundries . . . . .	—	18	8	f	D	D	D	D	D	D	D	D
331522	Nonferrous (except aluminum) die-casting foundries . . . . .	—	9	5	257	7 347	175	343	4 390	11 221	10 594	21 511	211
332	Fabricated metal product mfg . . . . .	1	685	142	12 454	456 697	8 747	17 719	250 174	977 975	622 903	1 599 925	51 139
3321	Forging & stamping . . . . .	1	35	10	642	24 879	492	1 009	14 752	49 264	34 552	86 271	1 523
33211	Forging & stamping . . . . .	1	35	10	642	24 879	492	1 009	14 752	49 264	34 552	86 271	1 523
332116	Metal stamping . . . . .	1	29	8	503	19 584	385	794	11 166	37 755	17 278	54 556	969
3322	Cutlery & handtool mfg . . . . .	—	18	6	973	35 410	608	1 398	13 043	85 553	95 306	195 800	5 587
33221	Cutlery & handtool mfg . . . . .	—	18	6	973	35 410	608	1 398	13 043	85 553	95 306	195 800	5 587
332212	Hand & edge tool mfg . . . . .	—	11	3	384	20 722	160	281	4 225	42 170	41 928	85 138	2 534
332213	Saw blade & handsaw mfg . . . . .	—	4	1	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg . . . . .	1	151	41	3 116	111 048	2 160	4 395	62 853	217 055	149 598	364 405	6 365
33231	Plate work & fabricated structural product mfg . . . . .	1	30	5	582	20 578	360	714	11 345	37 124	30 370	67 703	790
332311	Prefabricated metal building & component mfg . . . . .	—	5	2	e	D	D	D	D	D	D	D	D
332312	Fabricated structural metal mfg . . . . .	1	19	3	265	8 571	138	254	4 250	19 066	13 883	33 090	477
33232	Ornamental & architectural metal products mfg . . . . .	1	121	36	2 534	90 470	1 800	3 681	51 508	179 931	119 228	296 702	5 575
332321	Metal window & door mfg . . . . .	2	28	8	565	13 807	416	827	8 186	34 267	32 747	67 444	621
332322	Sheet metal work mfg . . . . .	1	66	24	1 596	64 495	1 173	2 423	37 540	118 872	64 043	182 325	3 837
332323	Ornamental & architectural metal work mfg . . . . .	1	27	4	373	12 168	211	431	5 782	26 792	22 438	46 933	1 117
3324	Boiler, tank, & shipping container mfg . . . . .	1	14	4	330	11 538	247	505	6 659	23 364	10 388	33 946	745
3325	Hardware mfg . . . . .	2	12	4	269	8 505	168	294	3 593	19 275	16 685	35 889	499
33251	Hardware mfg . . . . .	2	12	4	269	8 505	168	294	3 593	19 275	16 685	35 889	499
332510	Hardware mfg . . . . .	2	12	4	269	8 505	168	294	3 593	19 275	16 685	35 889	499
3327	Machine shops, turned product, & screw, nut, & bolt mfg . . . . .	1	335	50	4 434	165 609	3 252	6 413	99 011	345 836	182 401	515 722	24 627
33271	Machine shops . . . . .	1	273	29	2 832	110 270	2 088	4 223	67 522	233 084	90 658	314 325	19 651
332710	Machine shops . . . . .	1	273	29	2 832	110 270	2 088	4 223	67 522	233 084	90 658	314 325	19 651
33272	Turned product & screw, nut, & bolt mfg . . . . .	1	62	21	1 602	55 339	1 164	2 190	31 489	112 752	91 743	201 397	4 976
332721	Precision turned product mfg . . . . .	—	40	10	870	26 729	680	1 232	16 883	48 111	46 071	91 766	1 371
332722	Bolt, nut, screw, rivet, & washer mfg . . . . .	2	22	11	732	28 610	484	958	14 606	64 641	45 672	109 631	3 605
3328	Coating, engraving, heat treating, & allied activities . . . . .	1	53	14	756	21 584	575	1 077	13 572	41 132	15 952	57 181	1 890
33281	Coating, engraving, heat treating, & allied activities . . . . .	1	53	14	756	21 584	575	1 077	13 572	41 132	15 952	57 181	1 890
332812	Metal coating/engraving (exc jewelry/silverware)/allied services . . . . .	1	22	7	355	8 430	272	485	5 471	18 837	8 092	26 910	771
332813	Electroplating, plating, polishing, anodizing, & coloring . . . . .	2	25	4	289	9 696	214	432	5 932	15 201	6 765	22 052	D
3329	Other fabricated metal product mfg . . . . .	—	53	11	1 703	70 113	1 060	2 279	31 728	178 428	102 357	276 916	8 411
33291	Metal valve mfg . . . . .	—	12	6	647	23 816	485	1 142	14 244	40 546	61 778	102 689	3 464
332913	Plumbing fixture fitting & trim mfg . . . . .	—	3	2	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg . . . . .	—	41	5	1 056	46 297	575	1 137	17 484	137 882	40 579	174 227	4 947
332991	Ball & roller bearing mfg . . . . .	—	2	1	f	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.</b>												
	<b>Nassau—Suffolk, NY PMSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
333	Machinery mfg .....	1	287	77	6 554	241 730	4 032	8 023	117 722	524 626	437 432	948 480	24 445
3332	Industrial machinery mfg ..	1	60	21	1 542	62 778	909	1 832	28 126	130 602	141 838	269 610	D
33329	Other industrial machinery mfg .....	—	51	18	1 377	57 616	784	1 565	24 874	122 557	133 108	252 853	3 527
333298	All other industrial machinery mfg .....	—	22	9	694	28 746	391	783	11 631	63 541	73 479	134 323	1 935
3333	Commercial & service industry machinery mfg ..	—	41	16	g	D	D	D	D	D	D	D	2 946
33331	Commercial & service industry machinery mfg .....	—	41	16	g	D	D	D	D	D	D	D	2 946
333314	Optical instrument & lens mfg .....	—	14	8	e	D	D	D	D	D	D	D	D
333315	Photographic & photocopying equipment mfg .....	—	13	3	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	1	16	7	799	24 719	524	998	11 088	59 184	53 535	110 578	3 926
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	1	16	7	799	24 719	524	998	11 088	59 184	53 535	110 578	3 926
333414	Heating equipment (except warm air furnaces) mfg .....	1	8	4	645	19 329	417	798	8 733	47 030	42 440	87 431	D
3335	Metalworking machinery mfg .....	1	88	11	929	35 491	642	1 170	19 805	71 345	46 511	112 231	3 558
33351	Metalworking machinery mfg .....	1	88	11	929	35 491	642	1 170	19 805	71 345	46 511	112 231	3 558
333515	Cutting tool & machine tool accessory mfg ..	1	25	4	283	15 236	178	360	6 243	33 265	22 948	51 625	855
3336	Engine, turbine, & power transmission equipment mfg .....	4	14	6	f	D	D	D	D	D	D	D	3 380
33361	Engine, turbine, & power transmission equipment mfg .....	4	14	6	f	D	D	D	D	D	D	D	3 380
333612	Speed changer, industrial high-speed drive, & gear mfg .....	7	5	2	526	11 774	331	718	6 918	26 806	17 396	44 150	D
3339	Other general-purpose machinery mfg .....	2	64	16	1 355	54 610	782	1 582	28 252	125 622	107 081	228 025	4 892
33391	Pump & compressor mfg .....	—	8	4	258	12 395	152	297	6 799	29 279	39 028	62 260	1 051
33399	All other general-purpose machinery mfg .....	2	45	8	926	35 013	511	1 047	17 463	79 639	52 005	132 680	3 396
333995	Fluid power cylinder & actuator mfg .....	—	3	3	469	18 551	207	432	8 761	42 309	22 421	65 901	D
334	Computer & electronic product mfg .....	—	305	143	26 698	1 164 098	13 830	27 853	455 765	2 842 470	1 697 491	4 473 144	195 144
3341	Computer & peripheral equipment mfg .....	—	24	6	3 790	160 056	1 588	1 780	31 120	615 878	241 883	791 172	D
33411	Computer & peripheral equipment mfg .....	—	24	6	3 790	160 056	1 588	1 780	31 120	615 878	241 883	791 172	D
334113	Computer terminal mfg .....	—	3	1	e	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg .....	—	15	4	h	D	D	D	D	D	D	D	D
3342	Communications equipment mfg .....	—	60	33	6 573	299 707	3 260	6 479	107 225	740 709	637 735	1 349 822	46 037
33421	Telephone apparatus mfg .....	1	11	9	g	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg .....	1	11	9	g	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	—	35	23	3 570	170 329	2 070	4 389	75 513	335 976	302 538	635 166	25 502
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	—	35	23	3 570	170 329	2 070	4 389	75 513	335 976	302 538	635 166	25 502
33429	Other communications equipment mfg .....	—	14	1	g	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg .....	—	14	1	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.</b> <b>Nassau—Suffolk, NY PMSA—Con.</b> <b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg . . . . .	1	102	52	6 706	233 864	4 175	8 402	107 486	527 002	333 367	889 753	36 387
33441	Semiconductor & other electronic component mfg . . . . .	1	102	52	6 706	233 864	4 175	8 402	107 486	527 002	333 367	889 753	36 387
334412	Bare printed circuit board mfg . . . . .	—	23	8	2 366	76 758	1 794	4 056	45 231	221 370	115 273	334 693	13 124
334413	Semiconductor & related device mfg . . . . .	1	16	8	1 663	71 609	651	850	20 228	110 342	129 337	271 501	17 003
334414	Electronic capacitor mfg . . . . .	2	4	3	432	13 983	231	474	6 202	44 870	7 226	52 031	1 551
334416	Electronic coil, transformer, & other inductor mfg . . . . .	—	12	8	609	14 616	532	1 051	9 037	29 758	15 110	43 563	D
334417	Electronic connector mfg . . . . .	1	6	2	e	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg . . . . .	2	13	10	553	22 443	342	669	9 367	36 738	33 234	71 307	1 673
334419	Other electronic component mfg . . . . .	2	27	12	761	19 796	412	805	8 742	40 009	19 910	59 261	1 069
3345	Navigational, measuring, medical, & control instruments mfg . . . . .	—	103	48	8 845	448 686	4 165	9 883	192 320	910 672	439 427	1 349 180	41 915
33451	Navigational, measuring, medical, & control instruments mfg . . . . .	—	103	48	8 845	448 686	4 165	9 883	192 320	910 672	439 427	1 349 180	41 915
334510	Electromedical & electrotherapeutic apparatus mfg . . . . .	6	12	3	661	32 801	227	538	8 568	36 755	23 708	62 168	5 923
334511	Search, detection, navigation, & guidance instrument mfg . . . . .	—	27	12	4 732	268 823	2 264	4 484	126 551	541 613	140 567	675 541	20 144
334513	Industrial process control instrument mfg . . . . .	3	15	6	401	15 568	179	315	5 078	30 804	20 230	51 570	886
334515	Electricity measuring & testing instrument mfg . . . . .	—	13	8	1 221	55 594	531	2 532	20 936	132 295	144 587	284 299	7 217
334516	Analytical laboratory instrument mfg . . . . .	—	7	5	464	19 696	159	332	6 272	66 573	28 950	97 024	3 622
334517	Irradiation apparatus mfg . . . . .	1	5	5	e	D	D	D	D	D	D	D	D
334519	Other measuring & controlling device mfg . . . . .	1	11	5	630	30 335	331	635	12 411	41 382	27 993	64 867	1 212
3346	Mfg & reproducing magnetic & optical media . . . . .	—	11	4	760	21 024	626	1 281	17 231	46 817	42 519	89 247	D
33461	Mfg & reproducing magnetic & optical media . . . . .	—	11	4	760	21 024	626	1 281	17 231	46 817	42 519	89 247	D
334612	Prerecorded CD (except software), tape, & record reproducing . . . . .	—	7	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg . . . . .	2	110	51	3 670	122 572	2 361	4 845	58 520	273 986	273 635	549 883	10 226
3351	Electric lighting equipment mfg . . . . .	2	29	10	733	22 669	424	797	9 789	52 352	41 290	94 186	1 065
33512	Lighting fixture mfg . . . . .	2	28	10	f	D	D	D	D	D	D	D	D
335129	Other lighting equipment mfg . . . . .	1	8	3	322	10 342	173	314	4 455	20 620	6 587	27 788	257
3353	Electrical equipment mfg . . . . .	3	39	15	1 448	49 672	942	2 025	25 238	97 908	63 743	162 280	5 184
33531	Electrical equipment mfg . . . . .	3	39	15	1 448	49 672	942	2 025	25 238	97 908	63 743	162 280	5 184
335312	Motor & generator mfg . . . . .	1	9	5	e	D	D	D	D	D	D	D	976
335314	Relay & industrial control mfg . . . . .	4	22	7	935	30 776	574	1 371	14 400	69 637	34 801	105 092	3 651
3359	Other electrical equipment & component mfg . . . . .	1	42	26	1 489	50 231	995	2 023	23 493	123 726	168 602	293 417	3 977
33593	Wiring device mfg . . . . .	2	11	5	318	11 680	213	455	6 894	23 259	17 684	41 936	596
335931	Current-carrying wiring device mfg . . . . .	2	9	5	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.</b>												
	<b>Nassau—Suffolk, NY PMSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
335	Electrical equipment, appliance, & component mfg—Con.												
3359	Other electrical equipment & component mfg—Con.												
33599	All other electrical equipment & component mfg . . . . .	1	22	15	874	28 060	559	1 073	11 768	63 628	61 629	124 088	2 376
335999	All other miscellaneous electrical equipment & component mfg . . . . .	1	22	15	874	28 060	559	1 073	11 768	63 628	61 629	124 088	2 376
336	Transportation equipment mfg . . . . .	1	136	48	7 045	305 940	3 556	7 121	97 819	1 152 443	644 976	1 847 282	27 862
3363	Motor vehicle parts mfg . . .	3	58	20	2 083	68 214	1 430	3 356	34 893	136 574	149 522	284 088	8 567
33632	Motor vehicle electrical & electronic equipment mfg . . . . .	6	21	11	g	D	D	D	D	D	D	D	4 273
336322	Other motor vehicle electrical & electronic equipment mfg . . . . .	7	19	10	f	D	D	D	D	D	D	D	D
33633	Motor vehicle steering & suspension component (except spring) mfg . . . .	—	2	1	e	D	D	D	D	D	D	D	D
336330	Motor vehicle steering & suspension component (except spring) mfg . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg . . . . .	—	42	22	4 557	225 990	1 794	3 161	54 632	976 672	461 318	1 491 504	18 282
33641	Aerospace product & parts mfg . . . . .	—	42	22	4 557	225 990	1 794	3 161	54 632	976 672	461 318	1 491 504	18 282
336411	Aircraft mfg . . . . .	8	4	3	f	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg . . . . .	—	6	4	e	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg . . . . .	—	32	15	h	D	D	D	D	D	D	D	14 614
337	Furniture & related product mfg . . . . .	3	280	45	4 332	107 325	3 157	5 423	65 045	207 675	152 863	360 504	7 030
3371	Household & institutional furniture & kitchen cabinet mfg . . . . .	4	197	16	1 433	32 973	1 146	2 137	23 360	62 987	53 436	116 759	2 086
33711	Wood kitchen cabinet & counter top mfg . . . . .	3	107	9	763	18 119	618	1 166	13 114	35 385	27 847	63 546	1 186
337110	Wood kitchen cabinet & counter top mfg . . .	3	107	9	763	18 119	618	1 166	13 114	35 385	27 847	63 546	1 186
33712	Household & institutional furniture mfg . . . . .	5	90	7	670	14 854	528	971	10 246	27 602	25 589	53 213	900
337122	Nonupholstered wood household furniture mfg . . . . .	6	52	2	345	7 338	306	548	5 790	12 763	12 047	24 640	484
3372	Office furniture (including fixtures) mfg . . . . .	2	71	28	2 693	69 437	1 863	2 914	38 471	134 539	89 158	222 935	4 322
33721	Office furniture (including fixtures) mfg . . . . .	2	71	28	2 693	69 437	1 863	2 914	38 471	134 539	89 158	222 935	4 322
337215	Showcase, partition, shelving, & locker mfg . . . . .	1	44	24	2 344	57 066	1 613	2 422	31 023	110 222	75 053	184 314	3 459
339	Miscellaneous mfg . . . . .	3	477	96	9 241	267 045	6 412	12 387	136 847	639 243	422 301	1 061 525	32 833
3391	Medical equipment & supplies mfg . . . . .	4	219	36	4 429	139 578	2 805	5 620	66 219	368 916	168 354	536 816	19 312
33911	Medical equipment & supplies mfg . . . . .	4	219	36	4 429	139 578	2 805	5 620	66 219	368 916	168 354	536 816	19 312
339111	Laboratory apparatus & furniture mfg . . . . .	6	12	6	335	12 163	201	343	4 661	33 967	16 670	48 272	1 366
339112	Surgical & medical instrument mfg . . . . .	5	25	12	2 133	67 115	1 249	2 623	28 691	153 579	88 417	244 115	11 267
339113	Surgical appliance & supplies mfg . . . . .	3	19	5	813	25 381	521	1 115	12 410	110 852	31 337	142 381	2 484
339115	Ophthalmic goods mfg . . . . .	7	14	5	309	8 481	217	419	4 677	22 198	11 421	32 053	2 504
339116	Dental laboratories . . .	5	135	4	628	20 032	471	852	12 337	39 369	16 010	56 294	1 432

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.</b>												
	<b>Nassau—Suffolk, NY PMSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
339	Miscellaneous mfg—Con.												
3399	Other miscellaneous mfg ..	3	258	60	4 812	127 467	3 607	6 767	70 628	270 327	253 947	524 709	13 521
33991	Jewelry & silverware mfg .....	2	63	12	731	22 813	575	1 015	13 306	44 901	73 797	117 925	923
339911	Jewelry (except costume) mfg .....	1	38	7	f	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg .....	—	15	3	315	7 180	217	395	2 900	15 941	13 365	29 329	2 059
339941	Pen & mechanical pencil mfg .....	—	5	3	255	6 144	174	319	2 206	13 357	11 459	24 860	D
33995	Sign mfg .....	3	98	23	1 575	46 659	1 092	2 126	25 675	88 369	67 258	156 231	3 960
339950	Sign mfg .....	3	98	23	1 575	46 659	1 092	2 126	25 675	88 369	67 258	156 231	3 960
33999	All other miscellaneous mfg .....	2	53	17	1 882	42 085	1 507	2 780	24 026	103 112	77 921	181 034	5 347
339992	Musical instrument mfg .....	—	6	2	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg .....	4	35	13	1 100	25 498	854	1 642	15 146	61 284	52 984	115 440	3 220
	<b>New York, NY PMSA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>3</b>	<b>11 821</b>	<b>2 833</b>	<b>239 106</b>	<b>6 604 084</b>	<b>170 241</b>	<b>317 566</b>	<b>3 687 171</b>	<b>18 113 174</b>	<b>16 511 634</b>	<b>34 656 597</b>	<b>1 288 694</b>
311	Food mfg .....	3	1 176	161	18 129	499 211	11 898	22 622	265 389	1 271 217	1 766 784	3 043 685	82 961
3113	Sugar & confectionery product mfg .....	—	41	15	2 020	73 807	1 578	3 458	50 124	187 004	560 616	750 398	11 087
31131	Sugar mfg .....	—	4	2	f	D	D	D	D	D	D	D	D
311312	Cane sugar refining ..	—	4	2	f	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate ..	—	17	7	f	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate .....	—	17	7	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg .....	—	14	6	563	14 247	389	815	8 458	53 590	35 040	88 806	2 639
311340	Nonchocolate confectionery mfg ...	—	14	6	563	14 247	389	815	8 458	53 590	35 040	88 806	2 639
3114	Fruit & vegetable preserving & specialty food mfg .....	6	38	16	1 458	32 038	1 085	2 041	20 394	100 031	92 629	192 623	5 854
31141	Frozen food mfg .....	6	18	9	950	22 453	755	1 502	14 636	65 997	59 712	125 930	4 226
311412	Frozen specialty food mfg .....	6	16	9	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying .....	5	20	7	508	9 585	330	539	5 758	34 034	32 917	66 693	1 628
311421	Fruit & vegetable canning .....	4	16	6	e	D	D	D	D	D	D	D	D
3115	Dairy product mfg .....	1	35	6	744	27 035	433	953	15 555	65 437	192 538	257 559	2 360
31151	Dairy product (except frozen) mfg .....	—	15	4	599	23 017	347	808	13 670	55 840	177 139	232 568	1 782
311511	Fluid milk mfg .....	—	3	2	e	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	6	71	22	1 420	41 429	1 076	2 293	28 022	157 984	270 563	427 726	7 586
31161	Animal slaughtering & processing .....	6	71	22	1 420	41 429	1 076	2 293	28 022	157 984	270 563	427 726	7 586
311612	Meat processed from carcasses .....	6	49	19	1 187	36 089	870	1 909	24 061	134 905	216 656	350 689	6 853
3117	Seafood product preparation & packaging ..	1	8	3	270	12 538	200	456	5 210	21 215	39 924	60 955	D
31171	Seafood product preparation & packaging .....	1	8	3	270	12 538	200	456	5 210	21 215	39 924	60 955	D
3118	Bakeries & tortilla mfg .....	4	875	71	9 477	238 240	5 738	10 058	106 627	497 898	287 737	786 234	36 164
31181	Bread & bakery product mfg .....	4	828	61	8 356	200 010	4 934	8 743	86 029	392 606	228 758	621 298	29 807
311811	Retail bakeries .....	5	603	14	2 751	41 185	1 744	2 366	20 447	91 915	59 384	151 658	4 714
311812	Commercial bakeries ..	4	215	43	5 402	154 627	3 053	6 169	63 084	289 769	160 365	449 729	24 565
31182	Cookie, cracker, & pasta mfg .....	3	46	10	g	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg ..	3	17	9	942	32 423	688	1 124	17 795	83 169	43 826	127 503	5 785

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.</b>												
	<b>New York, NY PMSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
311	Food mfg—Con.												
3119	Other food mfg . . . . .	2	95	28	2 682	72 698	1 744	3 282	38 489	229 181	297 098	530 085	11 580
31192	Coffee & tea mfg . . . . .	1	9	6	501	18 012	263	631	10 059	90 152	119 414	213 351	3 635
311920	Coffee & tea mfg . . . . .	1	9	6	501	18 012	263	631	10 059	90 152	119 414	213 351	3 635
31194	Seasoning & dressing mfg . . . . .	4	19	6	584	19 724	386	783	9 437	45 539	56 587	101 797	3 325
311942	Spice & extract mfg . . . . .	—	13	4	e	D	D	D	D	D	D	D	D
31199	All other food mfg . . . . .	1	52	13	1 369	28 961	940	1 531	16 053	74 678	93 866	168 251	3 771
311991	Perishable prepared food mfg . . . . .	—	20	6	833	20 214	529	962	10 525	49 514	65 063	114 283	D
311999	All other miscellaneous food mfg . . . . .	3	32	7	536	8 747	411	569	5 528	25 164	28 803	53 968	D
312	Beverage & tobacco product mfg . . . . .	7	36	15	2 330	73 867	1 676	5 764	47 325	357 961	457 137	815 365	24 251
3121	Beverage mfg . . . . .	7	35	15	g	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg . . . . .	7	26	11	2 045	65 361	1 493	5 507	44 034	327 893	425 243	754 186	22 122
312111	Soft drink mfg . . . . .	7	19	8	1 900	62 531	1 443	5 428	42 905	322 336	423 242	746 643	21 363
313	Textile mills . . . . .	3	485	114	9 419	345 589	6 766	14 194	165 238	925 706	1 266 880	2 221 933	55 408
3131	Fiber, yarn, & thread mills . . . . .	4	27	5	309	4 767	288	483	3 986	9 871	22 051	31 713	1 059
31311	Fiber, yarn, & thread mills . . . . .	4	27	5	309	4 767	288	483	3 986	9 871	22 051	31 713	1 059
3132	Fabric mills . . . . .	4	139	33	2 936	95 970	2 381	5 062	54 477	211 277	291 844	502 891	23 520
31321	Broadwoven fabric mills . . . . .	5	40	10	864	38 263	686	1 426	15 561	84 276	162 183	246 199	5 883
313210	Broadwoven fabric mills . . . . .	5	40	10	864	38 263	686	1 426	15 561	84 276	162 183	246 199	5 883
31323	Nonwoven fabric mills . . . . .	3	21	8	e	D	D	D	D	D	D	D	4 146
313230	Nonwoven fabric mills . . . . .	3	21	8	e	D	D	D	D	D	D	D	4 146
31324	Knit fabric mills . . . . .	2	58	14	1 474	45 210	1 217	2 737	31 019	98 502	94 724	193 030	13 160
313241	Weft knit fabric mills . . . . .	4	37	8	565	15 351	442	951	11 132	32 646	49 769	81 450	2 643
313249	Other knit fabric & lace mills . . . . .	—	21	6	909	29 859	775	1 786	19 887	65 856	44 955	111 580	10 517
3133	Textile & fabric finishing & fabric coating mills . . . . .	2	319	76	6 174	244 852	4 097	8 649	106 775	704 558	952 985	1 687 329	30 829
31331	Textile & fabric finishing mills . . . . .	2	310	72	5 877	234 364	3 901	8 280	102 371	689 050	929 248	1 648 600	30 098
313311	Broadwoven fabric finishing mills . . . . .	3	253	57	4 771	190 585	3 198	6 856	84 317	541 123	767 639	1 336 154	24 212
313312	Textile & fabric finishing mills . . . . .	1	57	15	1 106	43 779	703	1 424	18 054	147 927	161 609	312 446	5 886
31332	Fabric coating mills . . . . .	4	9	4	297	10 488	196	369	4 404	15 508	23 737	38 729	731
313320	Fabric coating mills . . . . .	4	9	4	297	10 488	196	369	4 404	15 508	23 737	38 729	731
314	Textile product mills . . . . .	3	377	81	6 197	127 734	4 697	8 000	68 954	261 131	342 659	605 848	11 455
3141	Textile furnishings mills . . . . .	1	147	32	2 764	62 105	2 090	3 636	30 816	145 747	241 590	386 364	3 509
31412	Curtain & linen mills . . . . .	1	141	30	h	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills . . . . .	2	74	11	g	D	D	D	D	D	D	D	D
314129	Other household textile product mills . . . . .	1	67	19	1 284	31 107	987	1 609	12 407	83 971	175 724	259 539	1 548
3149	Other textile product mills . . . . .	4	230	49	3 433	65 629	2 607	4 364	38 138	115 384	101 069	219 484	7 946
31491	Textile bag & canvas mills . . . . .	5	74	10	630	11 644	501	737	6 583	21 805	19 700	41 362	1 134
314912	Canvas & related product mills . . . . .	5	54	8	442	8 370	357	519	5 086	16 285	14 407	30 511	1 008
31499	All other textile product mills . . . . .	4	156	39	2 803	53 985	2 106	3 627	31 555	93 579	81 369	178 122	6 812
314999	All other miscellaneous textile product mills . . . . .	4	155	39	h	D	D	D	D	D	D	D	D
315	Apparel mfg . . . . .	4	3 646	1 080	80 931	1 596 538	60 055	101 930	919 617	3 838 754	4 708 022	8 552 627	91 356
3151	Apparel knitting mills . . . . .	5	255	104	7 473	143 306	6 369	11 990	108 244	286 937	297 942	593 681	13 286
31511	Hosiery & sock mills . . . . .	8	25	2	e	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills . . . . .	5	230	102	i	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills . . . . .	5	226	101	i	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.</b>												
	<b>New York, NY PMSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
315	Apparel mfg—Con.												
3152	Cut & sew apparel mfg . . . .	4	3 033	898	66 965	1 324 641	48 537	80 536	732 625	3 264 223	4 138 296	7 396 162	71 918
31521	Cut & sew apparel contractors . . . . .	7	1 980	522	35 062	459 258	29 779	48 194	359 538	723 853	227 633	942 570	30 267
315211	Men's & boys' cut & sew apparel contractors . . . . .	5	44	20	1 089	15 605	994	1 679	13 040	27 870	4 025	31 884	579
315212	Women's, girls', & infants' cut & sew apparel contractors . . . . .	7	1 936	502	33 973	443 653	28 785	46 515	346 498	695 983	223 608	910 686	29 688
31522	Men's & boys' cut & sew apparel mfg . . . . .	2	171	59	4 856	101 737	3 715	6 564	69 580	306 239	408 957	724 056	7 391
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg . . . . .	3	40	17	1 247	29 725	954	1 914	20 095	72 902	66 181	138 638	D
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg . . . . .	—	27	6	g	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg . . . . .	—	17	2	e	D	D	D	D	D	D	D	D
315225	Men's & boys' cut & sew work clothing mfg . . . . .	6	10	2	302	3 166	289	383	2 810	7 295	4 088	11 471	840
315228	Men's & boys' cut & sew other outerwear mfg . . . . .	4	73	29	1 819	27 596	1 625	2 831	21 907	64 680	69 704	136 105	3 572
31523	Women's & girls' cut & sew apparel mfg . . . . .	3	713	298	25 575	725 462	13 909	23 691	280 014	2 143 055	3 394 779	5 532 410	32 055
315231	Women's & girls' cut/ sew lingerie & nightwear mfg . . . . .	3	60	18	1 449	31 246	1 176	2 219	20 312	103 549	135 665	244 684	D
315232	Women's & girls' cut & sew blouse & shirt mfg . . . . .	4	148	53	3 921	85 764	2 618	4 379	40 875	323 971	548 309	866 812	D
315233	Women's & girls' cut & sew dress mfg . . . . .	3	246	112	10 008	279 808	5 192	8 540	116 368	837 872	1 335 135	2 151 601	13 330
315234	Women's & girls' cut & sew suit, coat, skirt mfg . . . . .	2	138	63	5 343	165 572	2 768	5 002	64 551	480 613	835 570	1 323 458	D
315239	Women's & girls' cut & sew other outerwear mfg . . . . .	5	121	52	4 854	163 072	2 155	3 551	37 908	397 050	540 100	945 855	7 395
31529	Other cut & sew apparel mfg . . . . .	4	169	19	1 472	38 184	1 134	2 087	23 493	91 076	106 927	197 126	2 205
315292	Fur & leather apparel mfg . . . . .	6	121	7	608	16 222	409	759	8 434	44 019	71 639	114 601	1 471
315299	All other cut & sew apparel mfg . . . . .	1	47	11	f	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg . . . . .	2	358	78	6 493	128 591	5 149	9 404	78 748	287 594	271 784	562 784	6 152
31599	Apparel accessories & other apparel mfg . . . . .	2	358	78	6 493	128 591	5 149	9 404	78 748	287 594	271 784	562 784	6 152
315991	Hat, cap, & millinery mfg . . . . .	1	75	15	1 212	20 686	1 013	1 769	14 490	44 514	34 632	80 643	D
315993	Men's & boys' neckwear mfg . . . . .	1	49	19	g	D	D	D	D	D	D	D	D
315999	Other apparel accessories & other apparel mfg . . . . .	2	229	41	3 556	68 226	2 734	5 082	41 837	135 065	149 891	284 778	D
316	Leather & allied product mfg . . . . .	2	146	31	2 723	59 131	1 817	3 390	32 302	160 085	144 026	305 801	3 610
3161	Leather & hide tanning & finishing . . . . .	5	32	6	319	8 150	213	436	5 505	16 890	26 275	43 292	614
31611	Leather & hide tanning & finishing . . . . .	5	32	6	319	8 150	213	436	5 505	16 890	26 275	43 292	614
316110	Leather & hide tanning & finishing . . . . .	5	32	6	319	8 150	213	436	5 505	16 890	26 275	43 292	614
3162	Footwear mfg . . . . .	—	14	4	337	6 040	168	289	2 231	17 711	23 587	40 949	402
31621	Footwear mfg . . . . .	—	14	4	337	6 040	168	289	2 231	17 711	23 587	40 949	402
3169	Other leather & allied product mfg . . . . .	1	100	21	2 067	44 941	1 436	2 665	24 566	125 484	94 164	221 560	2 594
31699	Other leather & allied product mfg . . . . .	1	100	21	2 067	44 941	1 436	2 665	24 566	125 484	94 164	221 560	2 594
316991	Luggage mfg . . . . .	1	24	7	778	15 512	443	844	6 824	66 047	46 589	111 900	825
316992	Women's handbag & purse mfg . . . . .	2	43	7	680	18 550	501	967	10 198	40 604	34 703	77 789	1 391
316993	Personal leather good (except women's handbag & purse) mfg . . . . .	1	19	5	389	6 496	295	479	4 742	10 421	6 531	17 119	279

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.</b>													
	<b>New York, NY PMSA—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>													
321	Wood product mfg . . . . .	3	76	18	g	D	D	D	D	D	D	D	D	
3219	Other wood product mfg . . .	3	72	18	f	D	D	D	D	D	D	D	1 983	
32191	Millwork . . . . .	3	39	9		547	16 395	417	793	11 159	29 050	25 888	54 840	1 102
321918	Other millwork (including flooring) . . .	2	18	4		279	8 035	207	381	5 144	14 430	16 742	31 045	450
32199	All other wood product mfg . . . . .	5	20	6		281	7 333	243	488	5 552	13 503	10 226	23 979	836
322	Paper mfg . . . . .	4	134	61		5 404	173 147	4 078	7 233	100 640	316 808	370 059	688 712	67 856
3222	Converted paper product mfg . . . . .	4	132	60	i		D	D	D	D	D	D	D	D
32221	Paperboard container mfg . . . . .	5	41	23		2 123	69 624	1 676	3 038	42 031	134 292	185 824	320 949	10 204
322211	Corrugated & solid fiber box mfg . . . . .	6	16	7		762	30 906	558	1 116	18 868	60 624	117 217	178 327	6 254
322212	Folding paperboard box mfg . . . . .	6	10	9		443	15 795	356	751	10 718	30 317	28 290	58 877	1 846
322213	Setup paperboard box mfg . . . . .	2	8	4		699	14 860	587	817	8 331	24 938	19 036	44 109	1 366
32222	Paper bag & coated & treated paper mfg . . . . .	1	25	5	f		D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg . . . . .	2	16	3		299	8 687	168	266	3 628	15 910	10 628	26 957	D
32223	Stationery product mfg . . .	2	45	22		1 953	59 072	1 603	2 800	39 494	101 878	87 470	189 464	D
322231	Die-cut paper & paperboard office supplies mfg . . . . .	4	25	12		921	20 509	769	1 362	14 067	40 931	21 868	62 965	D
322232	Envelope mfg . . . . .	1	13	9		964	37 187	784	1 339	24 586	58 735	63 194	121 912	5 791
32229	Other converted paper product mfg . . . . .	7	21	10		711	23 049	424	709	9 372	36 898	56 314	94 608	D
322299	All other converted paper product mfg . . .	7	21	10		711	23 049	424	709	9 372	36 898	56 314	94 608	D
323	Printing & related support activities . . . . .	5	1 459	258		20 786	779 487	15 075	29 877	490 956	2 009 639	928 205	2 931 135	430 755
3231	Printing & related support activities . . . . .	5	1 459	258		20 786	779 487	15 075	29 877	490 956	2 009 639	928 205	2 931 135	430 755
32311	Printing . . . . .	5	1 209	196		16 068	601 326	11 537	22 811	375 826	1 675 121	847 845	2 516 160	417 420
323110	Commercial lithographic printing . . . . .	5	645	116		9 937	427 524	6 995	13 955	271 672	1 305 585	591 632	1 895 132	394 214
323113	Commercial screen printing . . . . .	7	102	19		1 339	31 391	1 068	1 763	18 561	78 703	71 708	148 680	4 772
323114	Quick printing . . . . .	2	176	11		1 009	31 712	697	1 204	19 670	61 475	41 084	102 433	6 229
323115	Digital printing . . . . .	3	23	6		306	11 289	204	421	5 975	25 751	11 319	36 976	1 254
323117	Book printing . . . . .	6	33	9		488	19 882	379	836	11 409	42 823	21 446	61 881	1 623
323118	Blankbook, looseleaf binder, & device mfg . . . . .	6	20	12		1 067	23 065	892	2 119	16 076	39 490	27 827	66 410	1 700
323119	Other commercial printing . . . . .	5	154	11		1 317	36 129	883	1 662	20 548	74 800	51 585	126 963	3 374
32312	Support activities for printing . . . . .	3	250	62		4 718	178 161	3 538	7 066	115 130	334 518	80 360	414 975	13 335
323121	Tradebinding & related work . . . . .	3	66	27		1 721	45 353	1 454	2 753	31 449	79 860	15 032	94 930	3 059
323122	Prepress services . . . . .	3	184	35		2 997	132 808	2 084	4 313	83 681	254 658	65 328	320 045	10 276
325	Chemical mfg . . . . .	1	226	77		12 767	504 556	7 700	16 587	260 392	3 352 732	1 249 908	4 572 348	225 881
3251	Basic chemical mfg . . . . .	1	21	6		1 027	45 696	632	1 558	26 320	187 742	151 712	341 141	15 332
32513	Dye & pigment mfg . . . . .	—	5	3	f		D	D	D	D	D	D	D	11 173
325131	Inorganic dye & pigment mfg . . . . .	1	3	1	e		D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg . . . . .	1	12	3		506	23 578	356	949	11 607	94 793	92 237	185 545	3 802
325199	All other basic organic chemical mfg . . . . .	1	9	3	f		D	D	D	D	D	D	D	D
3253	Pesticide, fertilizer, & other agricultural chemical mfg . . . . .	4	6	4		263	11 799	207	436	8 890	88 368	41 718	134 901	4 063
32531	Fertilizer mfg . . . . .	4	4	4	e		D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg . . . . .	—	29	15		6 489	277 265	3 905	8 440	149 832	2 552 712	590 160	3 106 362	171 985
32541	Pharmaceutical & medicine mfg . . . . .	—	29	15		6 489	277 265	3 905	8 440	149 832	2 552 712	590 160	3 106 362	171 985
325412	Pharmaceutical preparation mfg . . . . .	—	22	14		6 393	273 375	3 853	8 341	148 220	2 528 009	578 787	3 070 514	170 889
3255	Paint, coating, & adhesive mfg . . . . .	5	45	13		1 028	39 913	581	1 157	16 146	101 294	136 385	240 806	6 903
32551	Paint & coating mfg . . . . .	5	31	8		696	27 111	399	766	10 878	60 101	73 138	133 291	3 791
325510	Paint & coating mfg . . . . .	5	31	8		696	27 111	399	766	10 878	60 101	73 138	133 291	3 791
32552	Adhesive mfg . . . . .	5	14	5		332	12 802	182	391	5 268	41 193	63 247	107 515	3 112
325520	Adhesive mfg . . . . .	5	14	5		332	12 802	182	391	5 268	41 193	63 247	107 515	3 112



**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
325	Chemical mfg—Con.												
3256	Soap, cleaning compound, & toilet preparation mfg . .	4	90	27	3 204	104 288	1 996	4 240	48 543	363 560	263 924	623 449	24 486
32561	Soap & cleaning compound mfg . . . . .	6	45	12	638	22 585	407	718	10 006	71 251	65 110	137 105	3 535
325612	Polish & other sanitation good mfg . .	7	25	7	330	10 327	233	409	4 886	29 642	24 389	54 203	661
32562	Toilet preparation mfg . . .	3	45	15	2 566	81 703	1 589	3 522	38 537	292 309	198 814	486 344	20 951
325620	Toilet preparation mfg .	3	45	15	2 566	81 703	1 589	3 522	38 537	292 309	198 814	486 344	20 951
3259	Other chemical product mfg . . . . .	2	31	12	730	24 817	364	731	10 309	56 461	62 841	119 910	D
32599	All other chemical product & preparation mfg . . . . .	2	26	10	568	18 457	285	553	7 114	39 328	51 020	91 199	2 668
325998	All other miscellaneous chemical product & preparation mfg . . . . .	1	16	6	354	11 531	135	260	3 300	25 906	22 356	48 039	1 967
326	Plastics & rubber products mfg . . . . .	2	232	102	8 535	225 459	6 573	12 362	135 870	528 157	522 639	1 048 447	38 189
3261	Plastics product mfg . . . . .	2	207	97	8 046	213 611	6 225	11 613	128 445	495 729	494 654	988 343	36 799
32611	Unsupported plastics film, sheet, & bag mfg . .	2	56	31	2 224	72 373	1 695	3 474	46 028	177 064	223 338	399 953	11 903
326111	Unsupported plastics bag mfg . . . . .	3	33	18	1 198	35 260	920	1 846	22 589	90 563	95 277	185 483	5 579
326113	Unsupported plastics film & sheet (except packaging) mfg . . . . .	2	19	11	843	30 763	622	1 268	18 123	78 672	117 998	197 026	5 992
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg . . . . .	—	8	4	356	10 403	243	401	5 410	21 265	24 448	45 216	1 031
326121	Unsupported plastics profile shape mfg . . . . .	—	8	4	356	10 403	243	401	5 410	21 265	24 448	45 216	1 031
32619	Other plastics product mfg . . . . .	3	131	58	5 112	122 559	4 037	7 194	72 753	276 122	222 772	497 928	22 032
326199	All other plastics product mfg . . . . .	2	130	58	i	D	D	D	D	D	D	D	D
3262	Rubber product mfg . . . . .	7	25	5	489	11 848	348	749	7 425	32 428	27 985	60 104	1 390
32629	Other rubber product mfg . . . . .	8	15	3	394	9 810	271	590	5 954	26 674	19 766	46 160	1 273
326299	All other rubber product mfg . . . . .	8	11	3	370	9 087	250	549	5 472	25 106	18 967	43 789	1 149
327	Nonmetallic mineral product mfg . . . . .	2	160	35	2 391	81 212	1 800	3 677	57 187	189 562	213 550	404 213	18 077
3272	Glass & glass product mfg .	3	50	7	651	16 038	491	955	10 033	35 340	26 778	62 207	2 158
32721	Glass & glass product mfg . . . . .	3	50	7	651	16 038	491	955	10 033	35 340	26 778	62 207	2 158
327215	Glass product mfg made of purchased glass . . . . .	3	42	7	604	15 006	448	885	9 113	33 479	25 604	59 177	2 036
3273	Cement & concrete product mfg . . . . .	1	57	18	776	33 486	564	1 154	23 394	91 604	106 695	199 169	11 893
32732	Ready-mix concrete mfg .	1	39	16	649	29 545	478	970	21 343	78 822	98 787	178 155	7 728
327320	Ready-mix concrete mfg . . . . .	1	39	16	649	29 545	478	970	21 343	78 822	98 787	178 155	7 728
3274	Lime & gypsum product mfg . . . . .	—	5	2	319	13 855	246	589	10 657	20 637	52 769	73 426	2 020
32742	Gypsum product mfg . . . . .	—	5	2	319	13 855	246	589	10 657	20 637	52 769	73 426	2 020
327420	Gypsum product mfg . .	—	5	2	319	13 855	246	589	10 657	20 637	52 769	73 426	2 020
3279	Other nonmetallic mineral product mfg . . . . .	4	38	7	531	15 335	406	817	11 159	37 319	23 627	61 060	1 772
32799	All other nonmetallic mineral product mfg . . .	5	33	5	376	10 689	292	574	8 104	26 459	18 091	44 757	1 343
331	Primary metal mfg . . . . .	1	66	19	1 467	52 115	992	2 205	30 590	113 622	218 167	331 474	9 776
3314	Nonferrous metal (except aluminum) production & processing . . . . .	1	29	7	560	21 986	283	574	10 188	56 786	166 315	223 054	D
3315	Foundries . . . . .	1	33	11	f	D	D	D	D	D	D	D	3 217
33152	Nonferrous metal foundries . . . . .	1	29	10	730	25 291	583	1 371	16 935	48 685	43 732	92 413	3 123
331522	Nonferrous (except aluminum) die-casting foundries . . . . .	—	7	3	401	16 884	323	862	11 621	33 236	21 377	54 811	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.</b>												
	<b>New York, NY PMSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg .....	2	700	172	12 071	357 553	8 906	17 446	219 599	735 107	498 148	1 240 999	46 204
3321	Forging & stamping .....	2	58	20	1 178	40 272	841	1 670	23 229	81 871	55 926	137 481	4 388
332116	Forging & stamping .....	2	58	20	1 178	40 272	841	1 670	23 229	81 871	55 926	137 481	4 388
	Metal stamping .....	3	49	16	1 008	34 770	726	1 450	20 573	71 786	44 148	106 038	3 783
3322	Cutlery & handtool mfg ...	4	27	10	670	15 797	509	1 080	10 028	28 997	23 465	53 125	1 522
33221	Cutlery & handtool mfg ..	4	27	10	670	15 797	509	1 080	10 028	28 997	23 465	53 125	1 522
332214	Kitchen utensil, pot, & pan mfg .....	4	6	6	343	7 829	246	514	4 850	12 432	10 660	23 242	597
3323	Architectural & structural metals mfg .....	2	226	57	3 821	121 406	2 704	5 430	73 224	244 475	186 724	430 513	7 843
33231	Plate work & fabricated structural product mfg ..	1	43	6	626	22 629	382	888	9 534	43 585	29 653	72 939	1 030
332311	Prefabricated metal building & component mfg .....	-	5	3	381	13 387	203	523	4 168	19 141	14 387	33 227	D
33232	Ornamental & architectural metal products mfg .....	2	183	51	3 195	98 777	2 322	4 542	63 690	200 890	157 071	357 574	6 813
332321	Metal window & door mfg .....	2	49	18	1 133	30 054	830	1 643	18 236	73 770	62 560	135 798	1 795
332322	Sheet metal work mfg ..	3	71	23	1 434	47 886	1 066	2 078	32 763	87 951	62 493	150 718	3 484
332323	Ornamental & architectural metal work mfg .....	1	63	10	628	20 837	426	821	12 691	39 169	32 018	71 058	1 534
3324	Boiler, tank, & shipping container mfg .....	1	18	6	372	13 454	267	562	8 350	29 468	24 509	54 415	876
3325	Hardware mfg .....	-	14	7	604	16 744	404	796	10 302	42 950	26 086	71 376	1 596
33251	Hardware mfg .....	-	14	7	604	16 744	404	796	10 302	42 950	26 086	71 376	1 596
332510	Hardware mfg .....	-	14	7	604	16 744	404	796	10 302	42 950	26 086	71 376	1 596
3326	Spring & wire product mfg ..	7	30	5	825	20 776	619	1 134	12 966	40 885	25 843	67 176	3 472
33261	Spring & wire product mfg ..	7	30	5	825	20 776	619	1 134	12 966	40 885	25 843	67 176	3 472
332618	Other fabricated wire product mfg .....	6	26	4	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	3	152	18	1 640	47 710	1 310	2 402	31 423	88 721	39 135	128 369	5 342
33271	Machine shops .....	4	130	11	1 127	32 704	891	1 599	21 217	63 302	26 738	90 458	3 519
332710	Machine shops .....	4	130	11	1 127	32 704	891	1 599	21 217	63 302	26 738	90 458	3 519
33272	Turned product & screw, nut, & bolt mfg .....	2	22	7	513	15 006	419	803	10 206	25 419	12 397	37 911	1 823
332721	Precision turned product mfg .....	-	15	5	388	11 184	324	651	7 942	20 772	7 563	28 396	1 195
3328	Coating, engraving, heat treating, & allied activities ..	1	88	21	1 301	32 691	1 040	2 007	21 285	72 768	30 128	105 447	17 398
33281	Coating, engraving, heat treating, & allied activities ..	1	88	21	1 301	32 691	1 040	2 007	21 285	72 768	30 128	105 447	17 398
332812	Metal coating/engraving (exc jewelry/silverware)/allied services .....	-	22	6	326	8 468	277	505	5 939	18 239	10 654	31 373	D
332813	Electroplating, plating, polishing, anodizing, & coloring .....	1	61	14	909	21 476	708	1 398	13 533	48 240	17 485	65 832	16 193
3329	Other fabricated metal product mfg .....	2	87	28	1 660	48 703	1 212	2 365	28 792	104 972	86 332	193 097	3 767
33299	All other fabricated metal product mfg .....	2	76	23	1 488	43 684	1 085	2 138	25 995	93 693	76 285	170 074	3 373
332999	All other miscellaneous fabricated metal product mfg .....	2	46	17	1 015	27 981	736	1 453	16 784	67 682	55 316	122 803	2 621
333	Machinery mfg .....	2	250	64	5 457	186 517	3 568	6 370	93 477	384 313	316 872	701 472	17 898
3332	Industrial machinery mfg ..	2	63	11	1 048	44 489	611	1 076	20 113	79 344	100 590	183 509	6 676
33329	Other industrial machinery mfg .....	2	61	10	f	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg .....	-	3	2	e	D	D	D	D	D	D	D	D
333298	All other industrial machinery mfg .....	7	25	4	285	9 691	177	308	4 646	19 889	19 010	39 503	1 218
3333	Commercial & service industry machinery mfg ..	2	27	8	844	28 721	530	634	12 278	66 827	42 121	108 494	D
33331	Commercial & service industry machinery mfg ..	2	27	8	844	28 721	530	634	12 278	66 827	42 121	108 494	D
333319	Other commercial & service industry machinery mfg .....	-	14	5	f	D	D	D	D	D	D	D	D

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<b>31-33</b>	<b>Manufacturing—Con.</b>												
333	Machinery mfg—Con.												
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	2	25	14	726	21 847	528	997	12 348	42 803	43 821	86 553	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	2	25	14	726	21 847	528	997	12 348	42 803	43 821	86 553	D
333415	AC & warm air heating & commercial/ industrial refig equip mfg .....	3	16	11	552	15 425	414	786	9 379	27 980	32 681	61 290	D
3335	Metalworking machinery mfg .....	1	73	9	691	20 657	538	936	14 160	44 159	16 812	60 974	2 630
33351	Metalworking machinery mfg .....	1	73	9	691	20 657	538	936	14 160	44 159	16 812	60 974	2 630
333514	Special die & tool, die set, jig, & fixture mfg .	2	34	6	361	10 537	289	445	7 455	19 787	6 262	25 989	935
3339	Other general-purpose machinery mfg .....	2	52	21	2 084	68 827	1 316	2 650	33 349	147 562	110 838	255 577	4 214
33391	Pump & compressor mfg .....	7	4	3	268	7 328	155	225	3 526	15 912	16 507	32 591	D
33392	Material handling equipment mfg .....	3	22	10	820	28 440	560	1 210	14 776	61 298	40 143	101 314	D
333921	Elevator & moving stairway mfg .....	3	13	8	618	23 048	426	949	12 050	47 368	29 629	76 700	989
33399	All other general-purpose machinery mfg .....	—	26	8	996	33 059	601	1 215	15 047	70 352	54 188	121 672	1 843
333993	Packaging machinery mfg .....	—	11	4	268	11 354	170	325	5 229	18 662	11 178	29 995	634
333999	All other miscellaneous general-purpose machinery mfg .....	—	11	3	618	19 948	407	856	9 382	47 809	39 550	84 621	1 070
334	Computer & electronic product mfg .....	3	263	76	7 714	284 807	4 438	9 118	117 175	676 516	483 218	1 160 967	50 699
3341	Computer & peripheral equipment mfg .....	7	24	4	465	16 450	283	520	8 615	33 992	24 503	57 496	1 916
33411	Computer & peripheral equipment mfg .....	7	24	4	465	16 450	283	520	8 615	33 992	24 503	57 496	1 916
334111	Electronic computer mfg .....	8	8	3	345	13 030	205	366	6 295	26 610	17 314	42 716	1 157
3342	Communications equipment mfg .....	2	36	15	1 510	55 555	708	1 758	18 047	127 012	140 456	268 703	7 315
33421	Telephone apparatus mfg .....	6	10	5	500	21 436	212	415	6 884	36 244	47 436	86 283	3 648
334210	Telephone apparatus mfg .....	6	10	5	500	21 436	212	415	6 884	36 244	47 436	86 283	3 648
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	—	20	8	942	31 932	461	1 280	10 338	84 111	90 375	173 419	3 334
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	—	20	8	942	31 932	461	1 280	10 338	84 111	90 375	173 419	3 334
3344	Semiconductor & other electronic component mfg .....	2	46	23	2 420	74 549	1 635	3 233	36 478	162 107	94 906	257 780	8 419
33441	Semiconductor & other electronic component mfg .....	2	46	23	2 420	74 549	1 635	3 233	36 478	162 107	94 906	257 780	8 419
334413	Semiconductor & related device mfg ...	—	8	3	512	14 506	384	768	8 475	34 305	24 489	58 785	1 235
334417	Electronic connector mfg .....	1	5	5	f	D	D	D	D	D	D	D	2 838
334419	Other electronic component mfg .....	2	18	10	849	22 682	470	874	8 640	50 596	30 663	81 939	3 083
3345	Navigational, measuring, medical, & control instruments mfg .....	3	77	20	2 174	94 599	1 047	2 029	30 788	249 156	159 559	407 829	17 756
33451	Navigational, measuring, medical, & control instruments mfg .....	3	77	20	2 174	94 599	1 047	2 029	30 788	249 156	159 559	407 829	17 756
334510	Electromedical & electrotherapeutic apparatus mfg .....	5	12	3	398	19 757	124	274	4 283	47 438	18 068	60 744	3 981
334515	Electricity measuring & testing instrument mfg .....	2	13	4	685	30 821	334	653	11 210	99 382	72 925	176 943	11 439

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334	Computer & electronic product mfg—Con.												
3346	Mfg & reproducing magnetic & optical media . . . . .	3	60	13	1 047	40 478	703	1 459	22 022	97 297	55 884	154 111	15 092
33461	Mfg & reproducing magnetic & optical media . . . . .	3	60	13	1 047	40 478	703	1 459	22 022	97 297	55 884	154 111	15 092
334612	Prerecorded CD (except software), tape, & record reproducing . . . . .	2	49	9	803	31 576	506	1 043	15 879	75 060	36 878	112 420	D
335	Electrical equipment, appliance, & component mfg . . . . .	1	135	53	5 273	163 620	3 673	6 510	82 835	439 799	275 271	708 496	18 100
3351	Electric lighting equipment mfg . . . . .	1	69	24	2 080	70 936	1 540	3 042	36 578	186 345	125 173	311 271	3 695
33512	Lighting fixture mfg . . . . .	1	69	24	2 080	70 936	1 540	3 042	36 578	186 345	125 173	311 271	3 695
335121	Residential electric lighting fixture mfg . . . . .	1	41	12	885	20 756	687	1 308	11 744	60 605	50 707	110 510	879
335122	Commercial/industrial/institutional electric lighting fixture mfg . . . . .	—	24	9	972	42 879	679	1 392	19 851	115 139	60 481	175 561	2 343
3353	Electrical equipment mfg . . . . .	4	29	12	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg . . . . .	4	29	12	f	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg . . . . .	3	8	5	260	10 754	153	296	4 783	23 967	16 626	40 891	511
335314	Relay & industrial control mfg . . . . .	4	11	6	e	D	D	D	D	D	D	D	1 140
3359	Other electrical equipment & component mfg . . . . .	1	31	17	2 518	68 040	1 731	2 720	35 257	200 727	114 758	308 097	12 552
33593	Wiring device mfg . . . . .	1	12	5	1 789	43 409	1 215	1 624	21 188	146 843	55 747	197 013	10 323
335931	Current-carrying wiring device mfg . . . . .	—	8	3	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg . . . . .	—	10	5	436	13 469	312	691	7 641	31 063	22 434	51 544	1 100
336	Transportation equipment mfg . . . . .	1	86	27	3 929	154 098	2 441	5 194	70 383	389 911	322 940	746 308	20 794
3363	Motor vehicle parts mfg . . . . .	—	43	9	1 673	62 773	692	1 388	18 573	189 916	214 158	433 115	12 285
33632	Motor vehicle electrical & electronic equipment mfg . . . . .	—	17	1	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg . . . . .	—	16	1	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg . . . . .	4	11	4	266	7 192	214	397	4 180	14 414	13 972	28 338	1 418
336399	All other motor vehicle parts mfg . . . . .	4	11	4	266	7 192	214	397	4 180	14 414	13 972	28 338	1 418
3364	Aerospace product & parts mfg . . . . .	1	14	7	1 453	60 880	1 119	2 363	31 134	135 124	57 221	195 393	6 910
33641	Aerospace product & parts mfg . . . . .	1	14	7	1 453	60 880	1 119	2 363	31 134	135 124	57 221	195 393	6 910
336412	Aircraft engine & engine parts mfg . . . . .	1	5	4	807	36 415	591	1 281	15 853	78 544	36 031	115 343	D
336413	Other aircraft part & auxiliary equipment mfg . . . . .	1	9	3	646	24 465	528	1 082	15 281	56 580	21 190	80 050	D
3366	Ship & boat building . . . . .	1	14	6	490	18 450	412	997	14 519	35 528	16 642	52 327	436
33661	Ship & boat building . . . . .	1	14	6	490	18 450	412	997	14 519	35 528	16 642	52 327	436
336611	Ship building & repairing . . . . .	1	12	5	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg . . . . .	4	554	91	6 347	169 109	4 921	9 005	111 086	316 597	246 248	561 159	11 455
3371	Household & institutional furniture & kitchen cabinet mfg . . . . .	5	393	45	3 568	87 659	2 922	5 431	63 523	167 107	134 080	301 214	6 908
33711	Wood kitchen cabinet & counter top mfg . . . . .	4	136	6	838	21 462	694	1 294	16 214	37 703	27 760	65 500	1 828
337110	Wood kitchen cabinet & counter top mfg . . . . .	4	136	6	838	21 462	694	1 294	16 214	37 703	27 760	65 500	1 828

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.</b>												
	<b>New York, NY PMSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
337	Furniture & related product mfg—Con.												
3371	Household & institutional furniture & kitchen cabinet mfg—Con.												
33712	Household & institutional furniture mfg . . . . .	5	257	39	2 730	66 197	2 228	4 137	47 309	129 404	106 320	235 714	5 080
337121	Upholstered household furniture mfg . . . . .	5	59	8	464	13 861	388	734	9 969	21 152	21 528	42 374	907
337122	Nonupholstered wood household furniture mfg . . . . .	6	131	14	1 157	27 008	986	1 843	20 689	47 778	40 000	87 646	1 947
337124	Metal household furniture mfg . . . . .	4	23	5	367	9 055	306	632	6 417	27 320	19 765	47 958	1 191
337127	Institutional furniture mfg . . . . .	4	34	11	641	14 751	486	818	9 091	30 170	21 470	51 224	835
3372	Office furniture (including fixtures) mfg . . . . .	2	124	38	2 331	72 395	1 680	3 055	42 239	132 700	87 030	217 821	3 291
33721	Office furniture (including fixtures) mfg . . . . .	2	124	38	2 331	72 395	1 680	3 055	42 239	132 700	87 030	217 821	3 291
337211	Wood office furniture mfg . . . . .	3	12	4	321	11 648	157	320	4 679	20 246	10 417	30 601	532
337212	Custom architectural woodwork & millwork mfg . . . . .	—	35	11	698	23 848	510	961	15 999	41 462	24 904	65 270	1 138
337215	Showcase, partition, shelving, & locker mfg . . . . .	3	69	22	1 223	34 228	940	1 643	19 765	66 002	47 860	113 184	1 455
3379	Other furniture related product mfg . . . . .	3	37	8	448	9 055	319	519	5 324	16 790	25 138	42 124	1 256
33792	Blind & shade mfg . . . . .	4	25	5	285	5 977	194	329	3 309	11 330	15 010	26 760	300
337920	Blind & shade mfg . . . . .	4	25	5	285	5 977	194	329	3 309	11 330	15 010	26 760	300
339	Miscellaneous mfg . . . . .	2	1 596	297	26 045	733 911	18 255	34 313	394 133	1 764 196	2 064 506	3 817 319	60 469
3391	Medical equipment & supplies mfg . . . . .	3	292	32	2 882	89 896	1 931	3 344	42 849	188 345	119 683	309 625	10 325
33911	Medical equipment & supplies mfg . . . . .	3	292	32	2 882	89 896	1 931	3 344	42 849	188 345	119 683	309 625	10 325
339111	Laboratory apparatus & furniture mfg . . . . .	—	5	5	557	20 100	227	396	4 263	31 930	19 787	51 646	D
339112	Surgical & medical instrument mfg . . . . .	2	15	3	407	15 099	340	666	8 587	30 143	12 612	42 504	2 185
339113	Surgical appliance & supplies mfg . . . . .	6	36	10	465	14 212	336	485	7 227	32 672	16 331	49 345	1 680
339114	Dental equipment & supplies mfg . . . . .	1	26	4	314	10 155	192	359	4 772	27 068	41 270	68 343	1 984
339116	Dental laboratories . . . . .	6	199	8	1 030	27 238	762	1 298	16 455	59 232	25 366	86 179	2 085
3399	Other miscellaneous mfg . . . . .	2	1 304	265	23 163	644 015	16 324	30 969	351 284	1 575 851	1 944 823	3 507 694	50 144
33991	Jewelry & silverware mfg . . . . .	2	778	130	11 217	319 039	7 514	13 790	160 223	904 405	1 488 208	2 380 256	19 695
339911	Jewelry (except costume) mfg . . . . .	1	548	90	8 716	257 685	5 765	10 847	129 535	762 415	1 161 667	1 914 825	17 468
339913	Jewelers' material & lapidary work mfg . . . . .	1	116	16	1 184	32 441	803	1 330	14 972	83 478	289 824	369 177	D
339914	Costume jewelry & novelty mfg . . . . .	4	102	20	g	D	D	D	D	D	D	D	D
33992	Sporting & athletic goods mfg . . . . .	1	19	4	396	9 320	312	536	6 008	21 055	12 971	33 450	973
339920	Sporting & athletic goods mfg . . . . .	1	19	4	396	9 320	312	536	6 008	21 055	12 971	33 450	973
33993	Doll, toy, & game mfg . . . . .	3	44	8	1 016	26 285	796	1 634	17 987	60 478	57 244	118 507	2 226
339931	Doll & stuffed toy mfg . . . . .	1	25	5	666	15 600	543	1 173	11 672	32 774	26 135	59 117	277
339932	Game, toy, & children's vehicle mfg . . . . .	6	19	3	350	10 665	253	461	6 315	27 704	31 109	59 390	1 949
33994	Office supplies (except paper) mfg . . . . .	1	42	11	1 431	30 251	1 077	2 418	18 637	95 169	64 761	163 657	5 606
339942	Lead pencil & art good mfg . . . . .	—	7	3	783	14 528	592	1 554	8 701	63 716	43 683	111 217	D
33995	Sign mfg . . . . .	4	161	40	3 155	98 050	2 173	4 134	51 796	175 095	121 769	295 592	6 130
339950	Sign mfg . . . . .	4	161	40	3 155	98 050	2 173	4 134	51 796	175 095	121 769	295 592	6 130
33999	All other miscellaneous mfg . . . . .	2	260	72	5 948	161 090	4 452	8 457	96 633	319 649	199 870	516 232	15 514
339992	Musical instrument mfg . . . . .	—	28	4	780	27 894	596	1 310	18 479	67 341	24 232	88 205	1 808
339993	Fastener, button, needle, & pin mfg . . . . .	1	47	13	f	D	D	D	D	D	D	D	D
339994	Broom, brush, & mop mfg . . . . .	2	19	10	1 260	30 517	1 046	2 116	18 992	45 243	44 516	88 292	916
339999	All other miscellaneous mfg . . . . .	3	156	43	2 756	72 504	1 970	3 424	42 682	150 410	86 304	236 665	7 044

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.</b>												
	<b>Newburgh, NY—PA PMSA</b>												
31-33	<b>Manufacturing ....</b>	1	374	111	11 157	325 859	8 255	16 021	206 882	795 085	1 166 776	1 970 201	64 771
	Newburgh, NY—PA PMSA (NY Part) .....	1	346	107	j	D	D	D	D	D	D	D	D
	Newburgh, NY—PA PMSA (PA Part) .....	—	28	4	e	D	D	D	D	D	D	D	D
311	Food mfg .....	1	23	6	296	6 321	232	306	4 338	30 581	49 176	79 646	1 757
313	Textile mills .....	5	13	5	406	9 687	339	567	6 450	23 330	20 533	43 592	2 791
3133	Textile & fabric finishing & fabric coating mills .....	7	8	4	e	D	D	D	D	D	D	D	1 754
31331	Textile & fabric finishing mills .....	9	5	3	e	D	D	D	D	D	D	D	1 193
313311	Broadwoven fabric finishing mills .....	9	3	3	e	D	D	D	D	D	D	D	D
315	Apparel mfg .....	4	18	8	e	D	D	D	D	D	D	D	190
3152	Cut & sew apparel mfg ....	4	15	8	e	D	D	D	D	D	D	D	D
321	Wood product mfg .....	5	20	4	388	10 425	303	564	6 337	23 837	29 763	54 148	1 989
3219	Other wood product mfg ...	7	16	2	302	7 877	240	438	4 795	18 646	22 935	42 071	D
322	Paper mfg .....	1	14	7	871	25 272	669	1 360	17 937	55 889	88 147	148 418	2 979
3222	Converted paper product mfg .....	1	13	6	f	D	D	D	D	D	D	D	2 979
32221	Paperboard container mfg .....	3	7	3	303	7 722	178	273	3 324	11 150	17 722	28 890	1 181
322211	Corrugated & solid fiber box mfg .....	3	6	3	e	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg .....	—	4	2	e	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg .....	—	3	1	e	D	D	D	D	D	D	D	D
323	Printing & related support activities .....	2	48	3	e	D	D	D	D	D	D	D	932
3231	Printing & related support activities .....	2	48	3	e	D	D	D	D	D	D	D	932
32311	Printing .....	2	44	3	e	D	D	D	D	D	D	D	D
325	Chemical mfg .....	1	18	10	1 392	42 831	926	2 000	22 774	132 353	116 853	247 362	7 952
3256	Soap, cleaning compound, & toilet preparation mfg ..	—	8	3	f	D	D	D	D	D	D	D	2 963
32562	Toilet preparation mfg ...	—	5	3	902	19 201	667	1 453	11 675	47 354	25 012	70 557	D
325620	Toilet preparation mfg ...	—	5	3	902	19 201	667	1 453	11 675	47 354	25 012	70 557	D
326	Plastics & rubber products mfg .....	—	17	11	1 496	39 646	1 188	2 233	28 287	108 188	107 678	213 818	6 767
3261	Plastics product mfg .....	—	15	9	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	—	9	6	1 053	27 386	866	1 589	20 838	68 329	75 624	142 209	D
326192	Resilient floor covering mfg .....	—	3	2	e	D	D	D	D	D	D	D	D
326199	All other plastics product mfg .....	—	6	4	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	4	19	9	391	12 540	299	651	8 732	31 494	25 485	57 110	3 550
331	Primary metal mfg .....	—	5	3	394	16 422	247	530	9 381	31 977	153 630	183 829	D
3314	Nonferrous metal (except aluminum) production & processing .....	—	2	2	e	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying ...	—	2	2	e	D	D	D	D	D	D	D	D
331492	Other nonferrous metal secondary smelting, refining, & alloying ...	—	2	2	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	1	49	11	1 077	44 002	837	1 787	32 736	105 090	232 355	341 164	10 232
3324	Boiler, tank, & shipping container mfg .....	—	4	2	e	D	D	D	D	D	D	D	D
33243	Metal can, box, & other metal container (light gauge) mfg .....	—	3	2	e	D	D	D	D	D	D	D	D
332431	Metal can mfg .....	—	2	2	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	—	10	3	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
335	Electrical equipment, appliance, & component mfg .....	2	19	7	1 121	34 794	910	1 883	24 198	76 031	115 721	190 208	6 585
3351	Electric lighting equipment mfg .....	—	9	3	483	16 053	386	758	9 707	33 498	31 266	64 479	D
33512	Lighting fixture mfg .....	—	9	3	483	16 053	386	758	9 707	33 498	31 266	64 479	D
3359	Other electrical equipment & component mfg .....	3	6	4	f	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg .....	5	3	3	363	9 606	305	629	7 350	27 461	46 356	72 796	4 145
335929	Other communication & energy wire mfg ...	5	3	3	363	9 606	305	629	7 350	27 461	46 356	72 796	4 145
337	Furniture & related product mfg .....	4	19	5	e	D	D	D	D	D	D	D	543
3372	Office furniture (including fixtures) mfg .....	3	7	3	e	D	D	D	D	D	D	D	294
33721	Office furniture (including fixtures) mfg .....	3	7	3	e	D	D	D	D	D	D	D	294
339	Miscellaneous mfg .....	4	33	9	1 082	26 635	813	1 592	16 062	58 011	36 767	94 625	3 636
3399	Other miscellaneous mfg ...	4	20	7	968	22 999	738	1 457	14 389	49 383	32 449	81 634	3 156
33999	All other miscellaneous mfg .....	4	11	6	914	22 040	697	1 393	13 837	46 474	29 551	75 876	2 908
339999	All other miscellaneous mfg .....	5	7	4	748	18 576	576	1 120	11 752	39 498	26 813	65 992	2 753
	<b>ROCHESTER, NY MSA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>1 516</b>	<b>580</b>	<b>106 140</b>	<b>4 227 807</b>	<b>69 158</b>	<b>142 896</b>	<b>2 280 514</b>	<b>14 562 581</b>	<b>11 314 082</b>	<b>25 983 570</b>	<b>1 079 116</b>
311	Food mfg .....	2	129	40	4 640	125 763	3 437	7 244	80 152	1 013 542	1 176 335	2 195 457	52 853
3114	Fruit & vegetable preserving & specialty food mfg .....	2	26	19	2 243	58 973	1 831	3 951	42 610	603 504	407 536	1 015 415	29 911
31141	Frozen food mfg .....	2	7	5	825	19 269	722	1 420	14 977	320 559	134 478	459 713	11 590
311411	Frozen fruit, juice, & vegetable mfg .....	5	5	4	e	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg .....	—	2	1	e	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying .....	2	19	14	1 418	39 704	1 109	2 531	27 633	282 945	273 058	555 702	18 321
311421	Fruit & vegetable canning .....	2	18	13	g	D	D	D	D	D	D	D	D
3115	Dairy product mfg .....	—	5	3	390	12 892	245	500	8 929	39 311	175 705	214 460	D
31151	Dairy product (except frozen) mfg .....	—	4	3	e	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	—	11	3	e	D	D	D	D	D	D	D	1 643
31161	Animal slaughtering & processing .....	—	11	3	e	D	D	D	D	D	D	D	1 643
311612	Meat processed from carcasses .....	—	6	2	e	D	D	D	D	D	D	D	1 092
3118	Bakeries & tortilla mfg .....	4	59	8	1 041	23 892	745	1 579	13 204	78 385	77 855	155 742	5 816
31181	Bread & bakery product mfg .....	1	57	7	f	D	D	D	D	D	D	D	D
311811	Retail bakeries .....	4	39	2	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	—	17	5	628	16 211	502	1 183	9 651	54 994	31 388	86 392	3 862
3119	Other food mfg .....	2	15	4	352	9 948	237	518	5 394	68 147	62 617	130 205	2 944
312	Beverage & tobacco product mfg .....	1	16	10	1 830	67 030	824	1 786	24 499	188 033	187 055	375 444	13 731
3121	Beverage mfg .....	1	16	10	1 830	67 030	824	1 786	24 499	188 033	187 055	375 444	13 731
31211	Soft drink & ice mfg .....	4	8	4	e	D	D	D	D	D	D	D	D
312111	Soft drink mfg .....	4	4	3	393	10 657	107	218	2 931	38 137	55 693	93 851	3 062
31212	Breweries .....	—	3	2	f	D	D	D	D	D	D	D	D
312120	Breweries .....	—	3	2	f	D	D	D	D	D	D	D	D
31213	Wineries .....	—	5	4	f	D	D	D	D	D	D	D	D
312130	Wineries .....	—	5	4	f	D	D	D	D	D	D	D	D
314	Textile product mills .....	1	19	2	262	4 171	219	364	2 988	7 598	5 271	12 810	364
315	Apparel mfg .....	2	11	3	1 045	25 011	794	1 568	15 022	76 459	56 492	130 677	1 885
3152	Cut & sew apparel mfg ....	2	7	3	g	D	D	D	D	D	D	D	1 879
31522	Men's & boys' cut & sew apparel mfg .....	2	3	2	f	D	D	D	D	D	D	D	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg .....	—	1	1	f	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>ROCHESTER, NY MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
316	Leather & allied product mfg .	—	5	2	e	D	D	D	D	D	D	D	273
3162	Footwear mfg . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
31621	Footwear mfg . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
321	Wood product mfg . . . . .	4	33	6	379	8 394	314	587	6 064	17 197	24 604	41 618	990
3219	Other wood product mfg . . .	2	22	4	252	5 493	204	389	3 762	10 795	16 340	27 049	505
322	Paper mfg . . . . .	1	35	25	2 218	73 358	1 673	3 593	43 303	192 624	196 589	385 516	20 946
3222	Converted paper product mfg . . . . .	2	33	23	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg . . . . .	—	17	16	1 535	49 253	1 184	2 496	28 162	122 366	123 912	246 154	13 737
322211	Corrugated & solid fiber box mfg . . . . .	1	12	12	970	29 494	689	1 432	15 993	75 076	83 515	158 510	10 664
322212	Folding paperboard box mfg . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg . . . . .	6	6	4	390	13 295	262	582	8 108	31 405	42 272	73 907	3 634
323	Printing & related support activities . . . . .	2	170	45	3 881	129 049	2 705	5 640	75 121	259 711	168 692	428 168	22 216
3231	Printing & related support activities . . . . .	2	170	45	3 881	129 049	2 705	5 640	75 121	259 711	168 692	428 168	22 216
32311	Printing . . . . .	2	148	38	3 413	113 330	2 363	4 944	65 962	232 056	159 698	391 621	18 865
323110	Commercial lithographic printing . . . . .	2	69	19	1 706	67 038	1 135	2 422	37 895	125 266	85 751	210 838	14 156
323113	Commercial screen printing . . . . .	4	25	4	374	10 265	243	473	5 552	20 750	12 805	33 579	1 276
323116	Manifold business form printing . . . . .	—	4	3	331	9 459	292	530	7 511	23 083	13 766	36 768	178
323118	Blankbook, looseleaf binder, & device mfg . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
323119	Other commercial printing . . . . .	—	16	5	299	7 389	188	373	3 983	21 966	14 816	36 622	1 311
32312	Support activities for printing . . . . .	—	22	7	468	15 719	342	696	9 159	27 655	8 994	36 547	3 351
323121	Tradebinding & related work . . . . .	—	7	3	283	8 471	235	494	6 117	15 242	4 410	19 591	2 625
325	Chemical mfg . . . . .	—	41	16	22 851	1 166 382	10 812	28 204	492 616	4 008 462	2 354 463	6 427 372	360 522
3251	Basic chemical mfg . . . . .	—	6	4	e	D	D	D	D	D	D	D	15 265
3254	Pharmaceutical & medicine mfg . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance mfg . . . . .	—	1	1	g	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg . . . . .	2	7	4	1 072	30 207	855	1 558	17 647	124 709	85 650	192 254	D
32561	Soap & cleaning compound mfg . . . . .	—	6	3	f	D	D	D	D	D	D	D	D
325611	Soap & other detergent mfg . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg . . . . .	9	1	1	e	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg . . . . .	9	1	1	e	D	D	D	D	D	D	D	D
3259	Other chemical product mfg . . . . .	—	17	6	j	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg . . . . .	—	13	5	j	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, & chemical mfg . . . . .	—	7	4	j	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	2	88	52	6 729	198 692	5 014	10 075	123 296	552 572	372 861	920 499	59 922
3261	Plastics product mfg . . . . .	2	82	48	6 476	193 268	4 857	9 813	119 586	541 535	363 840	900 397	59 507
32611	Unsupported plastics film, sheet, & bag mfg . . . . .	2	9	6	956	29 546	695	1 462	19 986	93 807	108 521	204 280	26 324
326111	Unsupported plastics bag mfg . . . . .	1	6	3	671	22 244	525	1 123	17 148	70 135	64 271	134 419	D
32614	Polystyrene foam product mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
326140	Polystyrene foam product mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
32615	Urethane & other foam product (except polystyrene) mfg . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
326150	Urethane & other foam product (except polystyrene) mfg . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg . . . . .	2	60	36	4 082	121 568	3 148	6 237	75 071	283 009	165 241	445 811	21 047
326199	All other plastics product mfg . . . . .	2	59	36	h	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>ROCHESTER, NY MSA</b> —Con.												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
326	Plastics & rubber products mfg—Con.												
3262	Rubber product mfg . . . . .	—	6	4	253	5 424	157	262	3 710	11 037	9 021	20 102	415
32629	Other rubber product mfg . . . . .	—	6	4	253	5 424	157	262	3 710	11 037	9 021	20 102	415
327	Nonmetallic mineral product mfg . . . . .	1	70	28	2 245	74 097	1 663	3 244	44 451	171 598	112 376	284 792	84 990
3271	Clay product & refractory mfg . . . . .	—	8	5	f	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, & plumbing fixture mfg . . . . .	—	6	4	f	D	D	D	D	D	D	D	4 587
327113	Porcelain electrical supply mfg . . . . .	—	4	4	901	31 537	671	1 359	18 706	63 493	34 481	97 927	D
3272	Glass & glass product mfg . . . . .	1	23	6	278	9 243	185	371	4 499	19 994	20 471	40 522	D
32721	Glass & glass product mfg . . . . .	1	23	6	278	9 243	185	371	4 499	19 994	20 471	40 522	D
327215	Glass product mfg made of purchased glass . . . . .	1	17	6	252	8 510	170	344	4 057	18 380	19 840	38 270	D
3273	Cement & concrete product mfg . . . . .	2	31	12	655	19 767	500	830	12 493	48 724	34 408	83 672	D
32732	Ready-mix concrete mfg . . . . .	5	16	4	286	7 377	267	412	6 685	21 926	14 612	36 616	453
327320	Ready-mix concrete mfg . . . . .	5	16	4	286	7 377	267	412	6 685	21 926	14 612	36 616	453
331	Primary metal mfg . . . . .	—	10	7	369	12 220	262	549	7 630	26 439	26 439	50 048	437
3315	Foundries . . . . .	—	8	5	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	1	333	117	11 147	353 189	8 308	16 662	228 685	773 206	513 430	1 302 816	69 600
3321	Forging & stamping . . . . .	—	18	13	993	31 219	755	1 675	20 692	63 394	69 037	130 930	6 518
33211	Forging & stamping . . . . .	—	18	13	993	31 219	755	1 675	20 692	63 394	69 037	130 930	6 518
332116	Metal stamping . . . . .	1	12	11	846	26 036	650	1 420	16 804	48 164	38 341	85 888	D
3322	Cutlery & handtool mfg . . . . .	—	12	2	302	8 049	226	445	5 190	32 594	32 594	69 411	1 332
33221	Cutlery & handtool mfg . . . . .	—	12	2	302	8 049	226	445	5 190	32 594	32 594	69 411	1 332
332212	Hand & edge tool mfg . . . . .	—	10	2	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg . . . . .	1	46	23	1 571	50 564	1 178	2 250	32 219	103 511	66 163	167 582	5 698
33232	Ornamental & architectural metal products mfg . . . . .	1	33	20	1 328	43 091	998	1 894	27 320	87 161	52 985	137 988	5 220
332322	Sheet metal work mfg . . . . .	1	26	18	1 216	39 507	939	1 770	25 744	79 449	47 343	124 573	4 869
3324	Boiler, tank, & shipping container mfg . . . . .	—	9	6	1 292	49 551	819	1 588	27 124	84 025	83 602	193 239	18 404
33241	Power boiler & heat exchanger mfg . . . . .	—	4	3	637	24 592	383	659	12 198	33 953	28 107	72 710	D
332410	Power boiler & heat exchanger mfg . . . . .	—	4	3	637	24 592	383	659	12 198	33 953	28 107	72 710	D
33242	Metal tank (heavy gauge) mfg . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
332420	Metal tank (heavy gauge) mfg . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
3325	Hardware mfg . . . . .	4	8	5	1 448	48 240	1 130	2 270	30 667	132 790	55 366	186 592	5 162
33251	Hardware mfg . . . . .	4	8	5	1 448	48 240	1 130	2 270	30 667	132 790	55 366	186 592	5 162
332510	Hardware mfg . . . . .	4	8	5	1 448	48 240	1 130	2 270	30 667	132 790	55 366	186 592	5 162
3327	Machine shops, turned product, & screw, nut, & bolt mfg . . . . .	—	181	47	4 030	122 874	3 074	6 277	86 128	250 417	138 059	382 939	24 674
33271	Machine shops . . . . .	1	125	20	2 257	63 525	1 669	3 095	43 942	126 124	64 852	188 268	12 471
332710	Machine shops . . . . .	1	125	20	2 257	63 525	1 669	3 095	43 942	126 124	64 852	188 268	12 471
33272	Turned product & screw, nut, & bolt mfg . . . . .	—	56	27	1 773	59 349	1 405	3 182	42 186	124 293	73 207	194 671	12 203
332721	Precision turned product mfg . . . . .	—	43	24	1 617	54 404	1 283	2 957	39 003	115 163	67 903	180 856	11 655
3328	Coating, engraving, heat treating, & allied activities . . . . .	—	33	15	827	18 378	653	1 218	12 501	35 978	12 207	48 312	2 002
33281	Coating, engraving, heat treating, & allied activities . . . . .	—	33	15	827	18 378	653	1 218	12 501	35 978	12 207	48 312	2 002
332812	Metal coating/engraving (exc jewelry/silverware)/allied services . . . . .	—	15	8	417	9 884	331	670	6 495	16 667	7 894	24 596	D
332813	Electroplating, plating, polishing, anodizing, & coloring . . . . .	—	14	5	307	5 689	240	400	3 933	9 710	3 100	12 929	287
3329	Other fabricated metal product mfg . . . . .	—	20	6	640	23 171	438	878	13 392	63 700	54 042	118 259	5 594
33299	All other fabricated metal product mfg . . . . .	—	15	3	419	14 692	317	622	8 681	40 185	31 891	71 563	4 505
332994	Small arms mfg . . . . .	—	1	1	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>ROCHESTER, NY MSA</b> —Con.												
<b>31-33</b>	<b>Manufacturing—</b> <b>Con.</b>												
333	Machinery mfg .....	—	229	106	22 624	1 013 008	14 420	26 078	514 011	4 436 301	3 541 655	8 011 699	237 487
3331	Agriculture, construction, & mining machinery mfg....	2	12	6	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg .....	2	7	4	e	D	D	D	D	D	D	D	2 945
333111	Farm machinery & equipment mfg .....	3	6	3	391	11 601	276	493	5 874	28 492	24 697	53 670	D
3332	Industrial machinery mfg ..	—	28	10	f	D	D	D	D	D	D	D	5 668
33329	Other industrial machinery mfg .....	—	25	9	819	37 922	476	1 051	17 974	71 958	67 679	138 909	5 593
333298	All other industrial machinery mfg .....	—	12	4	445	21 789	207	440	7 313	39 845	46 599	87 350	2 573
3333	Commercial & service industry machinery mfg ..	—	39	21	j	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg .....	—	39	21	j	D	D	D	D	D	D	D	D
333313	Office machinery mfg ..	—	8	6	f	D	D	D	D	D	D	D	D
333314	Optical instrument & lens mfg .....	—	16	8	e	D	D	D	D	D	D	D	D
333315	Photographic & photocopying equipment mfg .....	—	13	6	j	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	—	6	5	1 055	27 891	860	1 629	18 915	51 931	55 593	106 389	2 580
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	—	6	5	1 055	27 891	860	1 629	18 915	51 931	55 593	106 389	2 580
333415	AC & warm air heating & commercial/ industrial refrig equip mfg .....	—	3	3	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg .....	1	102	45	4 088	166 910	2 811	5 699	99 883	311 573	234 076	548 781	23 894
33351	Metalworking machinery mfg .....	1	102	45	4 088	166 910	2 811	5 699	99 883	311 573	234 076	548 781	23 894
333511	Industrial mold mfg ...	—	26	12	639	25 989	495	999	17 642	46 053	17 554	62 742	5 553
333512	Machine tool (metal cutting types) mfg ...	—	6	6	1 416	66 708	786	1 554	34 092	129 636	125 740	259 862	6 729
333514	Special die & tool, die set, jig, & fixture mfg ..	3	43	15	806	29 705	668	1 368	21 410	55 240	23 399	79 039	5 084
333515	Cutting tool & machine tool accessory mfg ..	1	18	7	f	D	D	D	D	D	D	D	4 820
333518	Other metalworking machinery mfg .....	2	8	5	624	24 599	415	859	14 022	45 640	43 731	89 314	D
3339	Other general-purpose machinery mfg .....	—	38	18	2 070	81 012	1 221	2 441	38 918	241 004	216 940	452 705	7 941
33391	Pump & compressor mfg .....	—	5	4	508	22 449	303	590	11 245	70 134	119 153	188 870	942
333911	Pump & pumping equipment mfg .....	—	4	3	e	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg .....	—	26	11	1 352	52 007	795	1 580	24 805	150 393	84 660	230 264	6 192
333999	All other miscellaneous general-purpose machinery mfg .....	—	17	6	1 030	39 191	640	1 270	19 965	126 948	61 363	182 009	4 964
334	Computer & electronic product mfg .....	—	100	60	8 696	309 425	4 959	9 711	132 512	653 470	482 228	1 139 011	37 188
3341	Computer & peripheral equipment mfg .....	—	15	8	g	D	D	D	D	D	D	D	5 870
33411	Computer & peripheral equipment mfg .....	—	15	8	g	D	D	D	D	D	D	D	5 870
334119	Other computer peripheral equipment mfg .....	—	12	7	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg .....	—	16	15	3 069	125 586	1 543	3 006	54 407	290 338	145 595	434 422	D
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	—	8	8	1 829	76 344	1 107	2 205	42 881	180 058	83 690	265 231	6 682
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	—	8	8	1 829	76 344	1 107	2 205	42 881	180 058	83 690	265 231	6 682
33429	Other communications equipment mfg .....	—	5	4	g	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg .....	—	5	4	g	D	D	D	D	D	D	D	D

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

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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>ROCHESTER, NY MSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg .....	1	32	14	2 447	64 140	1 651	3 219	31 105	145 980	137 733	282 016	11 535
33441	Semiconductor & other electronic component mfg .....	1	32	14	2 447	64 140	1 651	3 219	31 105	145 980	137 733	282 016	11 535
334418	Printed circuit assembly (electronic) mfg .....	—	6	6	1 619	42 211	1 061	2 280	21 192	99 504	115 200	214 113	7 647
334419	Other electronic component mfg .....	5	13	4	601	14 586	436	646	6 528	29 891	15 270	44 365	1 577
3345	Navigational, measuring, medical, & control instruments mfg .....	—	36	23	2 152	85 511	1 095	2 017	32 095	160 368	101 486	265 879	8 930
33451	Navigational, measuring, medical, & control instruments mfg .....	—	36	23	2 152	85 511	1 095	2 017	32 095	160 368	101 486	265 879	8 930
334513	Industrial process control instrument mfg .....	—	7	4	458	20 072	202	315	5 372	34 810	32 274	68 482	1 190
334515	Electricity measuring & testing instrument mfg .....	—	7	4	453	16 296	289	567	8 683	29 235	15 076	47 464	544
334516	Analytical laboratory instrument mfg .....	—	9	6	465	18 930	200	367	6 116	36 885	21 330	59 181	1 610
334519	Other measuring & controlling device mfg .....	1	5	5	416	16 917	232	424	7 684	42 605	23 044	63 862	3 024
335	Electrical equipment, appliance, & component mfg .....	—	25	12	h	D	D	D	D	D	D	D	32 975
3353	Electrical equipment mfg ..	—	13	6	h	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	—	13	6	h	D	D	D	D	D	D	D	D
335312	Motor & generator mfg .....	—	1	1	h	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	1	9	5	544	14 397	314	666	8 962	18 996	19 479	40 453	D
33591	Battery mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
335912	Primary battery mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	—	27	13	4 423	201 158	3 802	6 700	169 677	318 912	1 067 096	1 383 726	16 084
3363	Motor vehicle parts mfg ...	—	15	10	4 157	192 066	3 625	6 351	164 622	300 903	1 035 944	1 337 267	15 196
33631	Motor vehicle gasoline engine & engine parts mfg .....	—	5	3	h	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg .....	—	5	3	h	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg .....	9	6	4	608	16 868	455	942	11 371	37 051	15 033	50 683	2 486
336322	Other motor vehicle electrical & electronic equipment mfg .....	9	6	4	608	16 868	455	942	11 371	37 051	15 033	50 683	2 486
337	Furniture & related product mfg .....	7	50	7	1 003	25 465	791	1 489	16 800	43 885	41 378	84 980	1 931
3371	Household & institutional furniture & kitchen cabinet mfg .....	4	32	3	356	7 554	289	504	5 395	12 649	12 662	25 290	402
3372	Office furniture (including fixtures) mfg .....	8	15	4	635	17 725	493	972	11 282	30 823	28 209	58 746	1 512
33721	Office furniture (including fixtures) mfg .....	8	15	4	635	17 725	493	972	11 282	30 823	28 209	58 746	1 512
337215	Showcase, partition, shelving, & locker mfg .....	9	3	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	—	105	26	6 192	246 662	4 527	9 870	155 389	568 615	169 547	739 049	61 987
3391	Medical equipment & supplies mfg .....	—	46	13	4 226	180 650	3 202	7 350	116 758	408 659	87 470	497 703	57 950
33911	Medical equipment & supplies mfg .....	—	46	13	4 226	180 650	3 202	7 350	116 758	408 659	87 470	497 703	57 950
339113	Surgical appliance & supplies mfg .....	1	8	3	649	39 071	378	512	9 796	69 902	30 556	101 674	D
339115	Ophthalmic goods mfg .....	—	10	7	3 246	133 444	2 617	6 458	102 641	322 905	47 243	369 407	D

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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>ROCHESTER, NY MSA</b>													
<b>—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
339	Miscellaneous mfg—Con.												
3399	Other miscellaneous mfg ...	1	59	13	1 966	66 012	1 325	2 520	38 631	159 956	82 077	241 346	4 037
33993	Doll, toy, & game mfg ...	—	9	3	316	10 572	231	289	7 330	12 144	6 366	19 081	491
339932	Game, toy, & children's vehicle mfg .....	—	7	2	e	D	D	D	D	D	D	D	D
33995	Sign mfg .....	—	24	5	316	10 989	166	293	4 371	20 700	16 666	37 356	672
339950	Sign mfg .....	—	24	5	316	10 989	166	293	4 371	20 700	16 666	37 356	672
33999	All other miscellaneous mfg .....	1	12	3	1 115	39 219	779	1 615	23 746	115 526	50 930	165 536	2 609
339991	Gasket, packing, & sealing device mfg...	—	2	2	f	D	D	D	D	D	D	D	D
<b>SYRACUSE, NY MSA</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>787</b>	<b>277</b>	<b>44 756</b>	<b>1 680 971</b>	<b>29 931</b>	<b>60 850</b>	<b>939 268</b>	<b>4 623 547</b>	<b>5 303 962</b>	<b>9 950 408</b>	<b>367 551</b>
311	Food mfg .....	2	67	15	2 240	66 462	1 586	3 246	42 048	356 635	428 990	780 765	20 187
3113	Sugar & confectionery product mfg .....	—	6	1	f	D	D	D	D	D	D	D	D
31132	Chocolate & confectionery mfg from cacao beans .....	—	2	1	f	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans ...	—	2	1	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg .....	8	7	3	440	11 164	380	791	8 621	60 141	31 532	86 880	3 276
31141	Frozen food mfg .....	8	2	2	e	D	D	D	D	D	D	D	D
311411	Frozen fruit, juice, & vegetable mfg .....	8	2	2	e	D	D	D	D	D	D	D	D
3115	Dairy product mfg .....	2	7	3	417	13 911	230	551	7 265	50 744	185 956	236 921	7 477
31151	Dairy product (except frozen) mfg .....	2	5	3	e	D	D	D	D	D	D	D	D
311511	Fluid milk mfg .....	2	4	3	e	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg .....	9	33	3	450	10 253	303	566	6 546	22 993	30 052	53 638	1 378
31181	Bread & bakery product mfg .....	9	31	3	e	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	9	4	2	e	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg .....	—	9	3	g	D	D	D	D	D	D	D	D
3121	Beverage mfg .....	—	9	3	g	D	D	D	D	D	D	D	D
31212	Breweries .....	—	3	2	g	D	D	D	D	D	D	D	D
312120	Breweries .....	—	3	2	g	D	D	D	D	D	D	D	D
315	Apparel mfg .....	—	4	2	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ...	—	4	2	f	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
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg .....	2	35	11	631	13 995	544	947	10 466	27 630	45 995	72 920	2 499
3219	Other wood product mfg ...	2	20	6	413	9 050	357	586	6 851	16 972	22 184	38 732	1 062
32192	Wood container & pallet mfg .....	1	9	5	299	6 728	266	422	5 111	12 371	17 699	29 679	814
321920	Wood container & pallet mfg .....	1	9	5	299	6 728	266	422	5 111	12 371	17 699	29 679	814
322	Paper mfg .....	—	27	18	2 217	85 555	1 703	3 835	55 845	236 174	234 747	463 715	29 623
3221	Pulp, paper, & paperboard mills .....	—	5	5	634	33 469	433	990	21 019	100 842	90 047	188 387	15 547
32212	Paper mills .....	—	2	2	e	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	—	2	2	e	D	D	D	D	D	D	D	D
3222	Converted paper product mfg .....	1	22	13	1 583	52 086	1 270	2 845	34 826	135 332	144 700	275 328	14 076
32221	Paperboard container mfg .....	1	16	10	1 307	43 830	1 058	2 437	29 894	115 024	130 360	240 605	D
322211	Corrugated & solid fiber box mfg .....	—	7	5	450	16 671	336	732	8 856	31 224	69 779	101 683	2 978
322212	Folding paperboard box mfg .....	7	3	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
323	Printing & related support activities .....	—	91	21	1 758	50 598	1 256	2 250	32 810	108 806	73 788	183 750	4 713
3231	Printing & related support activities .....	—	91	21	1 758	50 598	1 256	2 250	32 810	108 806	73 788	183 750	4 713
32311	Printing .....	—	78	19	1 627	47 496	1 160	2 063	30 566	102 725	72 255	176 104	3 952
323110	Commercial lithographic printing ...	1	44	11	823	22 024	544	896	13 038	47 896	31 023	79 001	1 601
323116	Manifold business form printing .....	—	3	2	273	8 608	237	395	6 648	19 569	5 760	25 347	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>SYRACUSE, NY MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
325	Chemical mfg . . . . .	3	28	8	1 278	65 099	699	1 458	23 925	121 937	109 696	224 348	18 479
3254	Pharmaceutical & medicine mfg . . . . .	—	10	3	936	52 613	472	1 012	16 524	74 208	65 795	131 976	D
32541	Pharmaceutical & medicine mfg . . . . .	—	10	3	936	52 613	472	1 012	16 524	74 208	65 795	131 976	D
325412	Pharmaceutical preparation mfg . . . . .	—	8	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	2	38	24	2 414	60 742	1 881	3 633	39 526	142 483	149 662	294 796	17 134
3261	Plastics product mfg . . . . .	1	37	24	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg . . . . .	1	24	19	2 133	51 963	1 672	3 213	33 228	113 455	117 876	233 894	8 813
326199	All other plastics product mfg . . . . .	1	24	19	2 133	51 963	1 672	3 213	33 228	113 455	117 876	233 894	8 813
327	Nonmetallic mineral product mfg . . . . .	1	37	15	1 763	60 420	1 283	2 647	41 519	165 514	123 084	292 595	10 107
3271	Clay product & refractory mfg . . . . .	—	5	4	775	20 600	494	995	11 342	44 279	15 605	58 517	3 185
32711	Pottery, ceramics, & plumbing fixture mfg . . . . .	—	5	4	775	20 600	494	995	11 342	44 279	15 605	58 517	3 185
327112	Vitreous china, fine earthenware, & other pottery product mfg . . . . .	—	5	4	775	20 600	494	995	11 342	44 279	15 605	58 517	3 185
3272	Glass & glass product mfg . . . . .	—	6	3	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg . . . . .	—	6	3	f	D	D	D	D	D	D	D	D
327213	Glass container mfg . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg . . . . .	4	23	8	e	D	D	D	D	D	D	D	3 675
331	Primary metal mfg . . . . .	—	21	16	3 361	139 151	2 511	5 602	95 954	85 800	1 590 617	1 677 029	42 641
3311	Iron & steel mills & ferroalloy mfg . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
331111	Iron & steel mills . . . . .	—	2	2	g	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, & foil mfg . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing . . . . .	—	3	2	e	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, & alloying . . . . .	—	2	2	e	D	D	D	D	D	D	D	D
3315	Foundries . . . . .	—	13	10	1 022	30 079	814	1 698	21 209	56 955	36 360	91 986	7 635
33151	Ferrous metal foundries . . . . .	—	4	4	610	18 383	484	1 032	13 209	39 351	23 711	62 073	2 716
331512	Steel investment foundries . . . . .	—	1	1	e	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries . . . . .	1	9	6	412	11 696	330	666	8 000	17 604	12 649	29 913	4 919
331524	Aluminum foundries (except die-casting) . . . . .	—	4	3	307	9 379	240	504	6 386	13 740	9 949	23 388	D
332	Fabricated metal product mfg . . . . .	1	150	50	4 467	146 410	3 193	6 686	91 058	291 919	230 881	524 186	27 867
3323	Architectural & structural metals mfg . . . . .	—	29	10	775	25 860	456	964	13 922	24 159	48 210	71 805	2 419
33231	Plate work & fabricated structural product mfg . . . . .	—	11	5	365	14 069	262	569	9 162	20 232	22 647	42 285	1 044
332312	Fabricated structural metal mfg . . . . .	—	6	4	270	10 609	197	404	7 076	14 448	17 670	31 725	877
33232	Ornamental & architectural metal products mfg . . . . .	1	18	5	410	11 791	194	395	4 760	3 927	25 563	29 520	1 375
332322	Sheet metal work mfg . . . . .	1	10	4	312	9 704	123	264	3 476	S	S	19 725	1 197
3324	Boiler, tank, & shipping container mfg . . . . .	—	2	1	e	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg . . . . .	—	68	17	1 570	47 701	1 222	2 506	33 515	108 028	84 764	191 732	12 797
33271	Machine shops . . . . .	2	58	10	557	16 739	433	756	11 037	31 631	13 350	43 931	2 172
332710	Machine shops . . . . .	2	58	10	557	16 739	433	756	11 037	31 631	13 350	43 931	2 172
33272	Turned product & screw, nut, & bolt mfg . . . . .	—	10	7	1 013	30 962	789	1 750	22 478	76 397	71 414	147 801	10 625
332721	Precision turned product mfg . . . . .	—	9	6	f	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>SYRACUSE, NY MSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg—Con.												
3328	Coating, engraving, heat treating, & allied activities.	—	18	5	351	13 028	236	470	5 473	25 798	7 173	32 929	2 564
33281	Coating, engraving, heat treating, & allied activities.....	—	18	5	351	13 028	236	470	5 473	25 798	7 173	32 929	2 564
332813	Electroplating, plating, polishing, anodizing, & coloring .....	—	10	3	270	10 322	188	381	4 408	20 492	5 593	25 999	1 823
3329	Other fabricated metal product mfg.....	—	19	7	964	32 193	721	1 542	22 335	67 910	37 152	107 986	5 874
33291	Metal valve mfg.....	—	2	2	e	D	D	D	D	D	D	D	D
332912	Fluid power valve & hose fitting mfg.....	—	2	2	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg.....	—	17	5	f	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg.....	—	2	2	e	D	D	D	D	D	D	D	D
333	Machinery mfg.....	—	74	30	4 403	185 490	2 783	5 848	100 992	505 297	544 549	1 056 221	17 666
3332	Industrial machinery mfg ..	1	12	4	368	16 712	165	326	6 241	39 546	33 632	75 374	3 793
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	—	12	7	2 638	116 849	1 751	3 905	70 264	348 717	445 410	801 133	10 122
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	—	12	7	2 638	116 849	1 751	3 905	70 264	348 717	445 410	801 133	10 122
333412	Industrial & commercial fan & blower mfg .....	—	2	2	e	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg .....	—	7	3	g	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg .....	5	24	5	e	D	D	D	D	D	D	D	1 744
33351	Metalworking machinery mfg .....	5	24	5	e	D	D	D	D	D	D	D	1 744
3336	Engine, turbine, & power transmission equipment mfg .....	—	5	4	322	12 209	209	371	6 532	26 822	9 855	35 986	D
33361	Engine, turbine, & power transmission equipment mfg .....	—	5	4	322	12 209	209	371	6 532	26 822	9 855	35 986	D
3339	Other general-purpose machinery mfg .....	—	16	8	523	17 962	325	556	8 050	44 732	25 461	68 064	1 052
33399	All other general-purpose machinery mfg .....	—	9	4	e	D	D	D	D	D	D	D	847
334	Computer & electronic product mfg.....	—	53	24	5 771	232 008	2 548	4 382	55 423	643 622	361 818	1 022 931	30 924
3342	Communications equipment mfg .....	—	14	8	g	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	—	11	6	2 172	56 856	1 500	2 607	24 908	167 639	148 139	307 165	11 102
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	—	11	6	2 172	56 856	1 500	2 607	24 908	167 639	148 139	307 165	11 102
3344	Semiconductor & other electronic component mfg .....	1	24	8	767	19 059	565	948	8 818	51 021	32 076	82 525	D
33441	Semiconductor & other electronic component mfg .....	1	24	8	767	19 059	565	948	8 818	51 021	32 076	82 525	D
334419	Other electronic component mfg .....	—	9	3	311	6 652	266	442	3 382	22 653	21 593	43 797	971
3345	Navigational, measuring, medical, & control instruments mfg .....	—	10	7	2 580	148 060	417	699	19 951	409 790	168 393	605 286	14 856
33451	Navigational, measuring, medical, & control instruments mfg .....	—	10	7	2 580	148 060	417	699	19 951	409 790	168 393	605 286	14 856
334511	Search, detection, navigation, & guidance instrument mfg .....	—	4	3	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>SYRACUSE, NY MSA—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
335	Electrical equipment, appliance, & component mfg .....	-	26	13	3 030	92 844	2 057	3 867	49 891	295 097	152 172	454 784	12 821
3353	Electrical equipment mfg ..	1	17	10	g	D	D	D	D	D	D	D	7 638
33531	Electrical equipment mfg .....	1	17	10	g	D	D	D	D	D	D	D	7 638
335314	Relay & industrial control mfg .....	1	13	8	1 282	29 134	859	1 516	13 286	97 045	61 521	158 350	7 394
3359	Other electrical equipment & component mfg .....	-	5	2	g	D	D	D	D	D	D	D	D
33593	Wiring device mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	13	5	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	8	4	h	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	-	21	4	1 255	39 677	673	1 569	17 146	107 240	60 171	166 455	2 482
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	15	2	889	28 075	540	1 306	14 318	59 995	40 628	99 600	D
33712	Household & institutional furniture mfg .....	-	6	2	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg .....	-	4	2	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg .....	-	6	2	366	11 602	133	263	2 828	47 245	19 543	66 855	D
33721	Office furniture (including fixtures) mfg .....	-	6	2	366	11 602	133	263	2 828	47 245	19 543	66 855	D
337215	Showcase, partition, shelving, & locker mfg .....	-	2	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	-	67	16	3 931	134 753	2 247	3 936	52 757	312 837	171 296	484 165	19 340
3391	Medical equipment & supplies mfg .....	-	25	5	2 846	101 370	1 420	2 395	30 574	214 832	95 103	310 567	D
33911	Medical equipment & supplies mfg .....	-	25	5	2 846	101 370	1 420	2 395	30 574	214 832	95 103	310 567	D
339112	Surgical & medical instrument mfg .....	-	7	3	h	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	42	11	1 085	33 383	827	1 541	22 183	98 005	76 193	173 598	D
33999	All other miscellaneous mfg .....	-	18	7	881	29 141	670	1 275	19 343	87 454	64 891	152 392	D
339991	Gasket, packing, & sealing device mfg ...	-	4	3	363	15 319	270	551	10 850	54 569	49 222	103 256	2 740
339995	Burial casket mfg .....	-	1	1	e	D	D	D	D	D	D	D	D
	<b>UTICA—ROME, NY MSA</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>351</b>	<b>132</b>	<b>20 050</b>	<b>582 892</b>	<b>14 910</b>	<b>27 043</b>	<b>379 493</b>	<b>1 582 470</b>	<b>1 582 868</b>	<b>3 147 642</b>	<b>94 439</b>
311	Food mfg .....	1	38	14	773	17 273	511	922	10 798	64 977	102 793	166 865	6 612
3118	Bakeries & tortilla mfg .....	2	23	6	320	5 326	218	338	3 077	18 077	13 088	30 928	1 125
31181	Bread & bakery product mfg .....	2	21	5	e	D	D	D	D	D	D	D	D
314	Textile product mills .....	-	9	4	1 263	22 879	1 018	1 878	15 011	38 687	70 274	102 192	5 293
3141	Textile furnishings mills ...	-	4	1	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills .....	-	4	1	f	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills .....	-	4	1	f	D	D	D	D	D	D	D	D
3149	Other textile product mills ..	-	5	3	f	D	D	D	D	D	D	D	D
31499	All other textile product mills .....	-	4	3	f	D	D	D	D	D	D	D	D
314992	Tire cord & tire fabric mills .....	-	1	1	e	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills ..	-	3	2	e	D	D	D	D	D	D	D	D
315	Apparel mfg .....	9	6	1	e	D	D	D	D	D	D	D	D
3151	Apparel knitting mills .....	9	1	1	e	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills .....	9	1	1	e	D	D	D	D	D	D	D	D
315192	Underwear & nightwear knitting mills .....	9	1	1	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
<b>31-33</b>	<b>UTICA-ROME, NY MSA—Con.</b>													
	<b>Manufacturing—Con.</b>													
316	Leather & allied product mfg .	-	1	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	
321	Wood product mfg . . . . .	3	24	7		547	12 887	441	853	9 127	29 216	37 980	67 421	1 909
3219	Other wood product mfg . . .	1	16	5		414	9 199	346	657	6 409	19 988	27 615	47 886	809
322	Paper mfg . . . . .	-	11	8		1 034	38 464	811	1 607	25 910	82 023	103 859	186 643	8 133
3221	Pulp, paper, & paperboard mills . . . . .	-	4	4	e	D	D	D	D	D	D	D	D	D
32212	Paper mills . . . . .	-	3	3	e	D	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills . . . . .	-	3	3	e	D	D	D	D	D	D	D	D	D
3222	Converted paper product mfg . . . . .	1	7	4	f	D	D	D	D	D	D	D	D	D
32221	Paperboard container mfg . . . . .	-	5	4	f	D	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg . . . . .	-	4	3		322	10 007	243	476	6 573	20 120	23 288	43 325	903
322212	Folding paperboard box mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D	D
323	Printing & related support activities . . . . .	2	32	6		595	19 107	438	780	11 832	40 838	23 956	64 823	2 832
3231	Printing & related support activities . . . . .	2	32	6		595	19 107	438	780	11 832	40 838	23 956	64 823	2 832
32311	Printing . . . . .	2	30	6	f	D	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing . . . . .	2	16	3		356	11 693	259	448	6 788	24 420	11 575	35 744	1 956
325	Chemical mfg . . . . .	-	8	2		514	8 736	364	625	4 325	43 285	22 853	64 016	1 124
3256	Soap, cleaning compound, & toilet preparation mfg . . . . .	-	2	1	e	D	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	4	9	6		334	5 895	277	426	3 489	17 453	13 076	30 260	1 327
3261	Plastics product mfg . . . . .	4	9	6		334	5 895	277	426	3 489	17 453	13 076	30 260	1 327
327	Nonmetallic mineral product mfg . . . . .	3	15	4		275	7 120	197	350	4 499	13 759	12 569	25 491	554
331	Primary metal mfg . . . . .	-	9	8		2 474	89 218	1 737	3 675	61 864	220 628	430 809	646 027	17 803
3312	Steel product mfg from purchased steel . . . . .	-	2	2	e	D	D	D	D	D	D	D	D	D
33122	Rolling & drawing of purchased steel . . . . .	-	2	2	e	D	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing . . . . .	-	6	6	g	D	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, & alloying . . . . .	-	3	3	g	D	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, & extruding . . . . .	-	1	1	f	D	D	D	D	D	D	D	D	D
331422	Copper wire (except mechanical) drawing . . . . .	-	2	2	f	D	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying . . . . .	-	3	3	f	D	D	D	D	D	D	D	D	D
331491	Other nonferrous metal rolling, drawing, & extruding . . . . .	-	2	2	f	D	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	-	62	19		2 635	82 352	2 119	4 420	59 747	243 404	99 492	347 676	8 095
3322	Cutlery & handtool mfg . . . . .	-	3	2	e	D	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg . . . . .	-	3	2	e	D	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg . . . . .	-	1	1	e	D	D	D	D	D	D	D	D	D
3324	Boiler, tank, & shipping container mfg . . . . .	-	5	3		251	7 380	177	345	4 711	21 431	4 389	26 196	543
3327	Machine shops, turned product, & screw, nut, & bolt mfg . . . . .	1	31	2		325	9 031	279	499	6 634	16 900	5 880	22 689	2 107
3328	Coating, engraving, heat treating, & allied activities . . . . .	-	7	5		256	6 083	211	386	4 446	13 709	3 218	17 084	D
33281	Coating, engraving, heat treating, & allied activities . . . . .	-	7	5		256	6 083	211	386	4 446	13 709	3 218	17 084	D
3329	Other fabricated metal product mfg . . . . .	-	4	3	g	D	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg . . . . .	-	4	3	g	D	D	D	D	D	D	D	D	D
332994	Small arms mfg . . . . .	-	1	1	g	D	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>UTICA-ROME, NY MSA—Con.</b>												
	<b>Manufacturing—Con.</b>												
333	Machinery mfg .....	1	34	14	1 040	36 108	682	1 153	16 802	80 171	65 962	144 691	3 362
3332	Industrial machinery mfg ..	1	7	5	345	12 023	209	395	6 837	19 513	16 976	36 577	196
334	Computer & electronic product mfg .....	2	15	8	1 350	50 215	618	1 104	17 040	111 628	67 530	173 228	8 676
3341	Computer & peripheral equipment mfg .....	—	3	1	e	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg .....	—	3	1	e	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg .....	—	1	1	e	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg .....	2	9	5	890	34 307	461	845	13 874	58 956	51 803	111 232	6 989
33451	Navigational, measuring, medical, & control instruments mfg .....	2	9	5	890	34 307	461	845	13 874	58 956	51 803	111 232	6 989
334510	Electromedical & electrotherapeutic apparatus mfg .....	1	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	8	13	8	1 018	26 424	624	1 206	12 715	50 394	157 538	221 001	6 152
3359	Other electrical equipment & component mfg .....	8	8	7	976	25 263	600	1 166	12 062	47 816	155 110	215 985	6 011
33592	Communication & energy wire & cable mfg .....	8	4	4	f	D	D	D	D	D	D	D	5 256
335929	Other communication & energy wire mfg ...	9	2	2	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	8	6	4	1 374	44 919	1 062	1 824	32 394	117 155	158 949	278 188	6 791
3361	Motor vehicle mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	9	1	1	f	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	9	1	1	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	5	2	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	5	2	2	f	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg ....	9	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	—	10	5	907	23 602	768	1 579	18 746	38 093	25 923	63 627	1 917
3371	Household & institutional furniture & kitchen cabinet mfg .....	—	8	4	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	—	6	3	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg .....	—	5	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	—	32	9	2 855	77 779	2 414	2 885	62 551	319 425	139 036	443 513	12 089
3391	Medical equipment & supplies mfg .....	—	16	3	e	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg .....	—	16	3	e	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg .....	—	3	1	e	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	—	16	6	g	D	D	D	D	D	D	D	D
33991	Jewelry & silverware mfg .....	—	3	1	g	D	D	D	D	D	D	D	D
339912	Silverware & plated ware mfg .....	—	3	1	g	D	D	D	D	D	D	D	D

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

<sup>2</sup>Industries with 250 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 250 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: c–100 to 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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>ALBANY COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>272</b>	<b>84</b>	<b>9 065</b>	<b>335 918</b>	<b>6 082</b>	<b>12 067</b>	<b>189 530</b>	<b>1 086 466</b>	<b>1 086 288</b>	<b>2 182 390</b>	<b>99 613</b>
311	Food mfg . . . . .	-	31	9	651	21 626	474	1 016	12 413	40 913	195 986	237 275	6 195
323	Printing & related support activities . . . . .	4	50	11	658	20 341	483	928	12 621	50 143	29 962	80 061	4 017
3231	Printing & related support activities . . . . .	4	50	11	658	20 341	483	928	12 621	50 143	29 962	80 061	4 017
32311	Printing . . . . .	4	41	10	f	D	D	D	D	D	D	D	D
325	Chemical mfg . . . . .	1	8	5	846	41 266	561	1 124	24 567	291 287	209 749	492 622	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg . . . . .	-	2	1	f	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	-	16	6	596	19 124	434	798	10 959	36 008	43 755	80 109	2 120
3261	Plastics product mfg . . . . .	-	13	6	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg . . . . .	-	22	8	1 274	59 828	918	2 004	39 821	234 600	120 743	360 812	D
3279	Other nonmetallic mineral product mfg . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	1	31	11	1 136	41 081	755	1 459	21 860	97 080	59 738	158 909	4 875
337	Furniture & related product mfg . . . . .	-	10	5	508	13 168	419	896	8 686	45 240	37 234	82 241	D
<b>ALLEGANY COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	-	<b>57</b>	<b>16</b>	<b>2 919</b>	<b>102 423</b>	<b>1 899</b>	<b>3 791</b>	<b>54 027</b>	<b>242 605</b>	<b>302 576</b>	<b>542 837</b>	<b>13 596</b>
332	Fabricated metal product mfg . . . . .	-	10	4	760	29 856	482	1 127	15 889	71 198	53 942	122 212	1 066
3324	Boiler, tank, & shipping container mfg . . . . .	-	1	1	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
333	Machinery mfg . . . . .	-	5	3	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
<b>BRONX COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing . . . .</b>	<b>2</b>	<b>527</b>	<b>162</b>	<b>12 941</b>	<b>319 638</b>	<b>9 928</b>	<b>17 876</b>	<b>202 107</b>	<b>725 466</b>	<b>526 172</b>	<b>1 252 335</b>	<b>40 240</b>
311	Food mfg . . . . .	4	121	18	1 721	41 384	1 171	2 055	22 667	113 612	107 701	221 941	5 848
3118	Bakeries & tortilla mfg . . . . .	3	96	10	g	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg . . . . .	8	91	8	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg . . . . .	-	5	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg . . . . .	4	69	30	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg . . . . .	3	49	19	f	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors . . . . .	4	35	13	f	D	D	D	D	D	D	D	D
315212	Women's, girls', & infants' cut & sew apparel contractors . . . . .	4	34	13	f	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg . . . . .	2	14	8	614	9 743	522	966	6 857	17 030	13 451	30 056	D
31599	Apparel accessories & other apparel mfg . . . . .	2	14	8	614	9 743	522	966	6 857	17 030	13 451	30 056	D
322	Paper mfg . . . . .	-	6	4	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg . . . . .	-	6	4	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg . . . . .	-	4	3	570	13 893	513	709	6 840	25 731	18 928	44 545	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>BRONX COUNTY, NY—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
325	Chemical mfg .....	1	20	7	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 .....	—	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	2	25	13	1 287	19 085	1 049	1 563	14 519	49 097	31 547	77 357	1 645
3261	Plastics product mfg .....	1	22	12	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	1	17	9	1 108	15 874	923	1 371	12 327	41 971	24 908	63 552	1 243
326199	All other plastics product mfg .....	1	17	9	1 108	15 874	923	1 371	12 327	41 971	24 908	63 552	1 243
332	Fabricated metal product mfg .....	2	79	32	2 233	67 751	1 638	3 418	39 784	124 324	86 122	210 849	15 318
3323	Architectural & structural metals mfg .....	2	28	16	978	34 137	658	1 440	18 587	56 985	42 714	100 154	1 712
33232	Ornamental & architectural metal products mfg .....	3	23	15	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	2	23	7	729	22 704	552	1 074	12 747	40 069	28 638	68 929	D
337	Furniture & related product mfg .....	2	35	11	766	26 150	598	1 109	17 551	44 628	21 354	64 549	D
3372	Office furniture (including fixtures) mfg .....	2	15	8	548	21 194	428	819	14 367	36 417	16 254	51 169	D
33721	Office furniture (including fixtures) mfg .....	2	15	8	548	21 194	428	819	14 367	36 417	16 254	51 169	D
339	Miscellaneous mfg .....	3	39	16	1 012	29 383	730	1 379	17 032	57 552	29 431	86 612	3 028
3399	Other miscellaneous mfg ..	2	25	14	882	25 868	643	1 263	15 392	48 466	24 438	72 396	2 439
<b>BROOME COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>242</b>	<b>108</b>	<b>20 429</b>	<b>787 802</b>	<b>12 357</b>	<b>24 079</b>	<b>314 019</b>	<b>1 631 937</b>	<b>1 492 959</b>	<b>3 147 613</b>	<b>113 258</b>
311	Food mfg .....	—	18	9	g	D	D	D	D	D	D	D	D
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
323	Printing & related support activities .....	1	33	11	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities .....	1	33	11	g	D	D	D	D	D	D	D	D
32311	Printing .....	1	25	11	g	D	D	D	D	D	D	D	D
323117	Book printing .....	—	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	2	3	3	g	D	D	D	D	D	D	D	D
3259	Other chemical product mfg .....	3	2	2	g	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg .....	3	2	2	g	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, & chemical mfg .....	3	2	2	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	2	43	21	1 400	40 070	1 086	2 032	26 416	67 325	55 961	124 724	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	—	24	11	803	25 266	659	1 351	17 841	45 906	18 554	66 352	4 076
33271	Machine shops .....	—	21	8	629	20 192	514	1 051	13 796	34 875	14 568	51 368	3 233
332710	Machine shops .....	—	21	8	629	20 192	514	1 051	13 796	34 875	14 568	51 368	3 233
333	Machinery mfg .....	—	19	8	g	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	—	4	2	g	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg .....	—	4	2	g	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg ..	—	4	2	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg .....	—	4	2	f	D	D	D	D	D	D	D	D
333319	Other commercial & service industry machinery mfg .....	—	2	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>BROOME COUNTY, NY</b> —Con.												
<b>31-33</b>	<b>Manufacturing—</b> <b>Con.</b>												
334	Computer & electronic product mfg .....	2	31	22	j	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg .....	—	4	2	i	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg .....	—	4	2	i	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg .....	—	2	2	i	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	5	19	16	h	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	5	19	16	h	D	D	D	D	D	D	D	D
334412	Bare printed circuit board mfg .....	—	4	2	f	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	9	2	2	g	D	D	D	D	D	D	D	D
334419	Other electronic component mfg .....	—	6	5	f	D	D	D	D	D	D	D	1 728
3345	Navigational, measuring, medical, & control instruments mfg .....	—	7	3	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg .....	—	7	3	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
335	Electrical equipment, appliance, & component mfg .....	—	8	4	641	12 874	598	1 338	11 256	11 435	50 572	61 547	1 042
3353	Electrical equipment mfg ..	—	4	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	—	4	1	f	D	D	D	D	D	D	D	D
	<b>CATTARAUGUS COUNTY, NY</b>												
<b>31-33</b>	<b>Manufacturing .....</b>	<b>1</b>	<b>95</b>	<b>41</b>	<b>5 341</b>	<b>162 871</b>	<b>4 110</b>	<b>8 540</b>	<b>115 715</b>	<b>529 737</b>	<b>427 379</b>	<b>930 453</b>	<b>30 424</b>
321	Wood product mfg .....	—	19	11	725	16 851	609	1 215	11 896	37 123	48 250	85 515	3 583
3219	Other wood product mfg ...	—	13	7	517	11 723	443	923	8 130	25 514	34 123	59 587	2 891
325	Chemical mfg .....	2	5	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	1	16	6	788	24 295	638	1 270	17 423	47 260	22 978	67 071	4 241
3322	Cutlery & handtool mfg ...	—	4	2	f	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg ..	—	4	2	f	D	D	D	D	D	D	D	D
332211	Cutlery & flatware (except precious) mfg .....	—	4	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	—	10	6	1 282	47 525	1 080	2 325	40 553	201 342	202 845	379 769	8 177
3339	Other general-purpose machinery mfg .....	—	4	2	g	D	D	D	D	D	D	D	D
33391	Pump & compressor mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
	<b>CAYUGA COUNTY, NY</b>												
<b>31-33</b>	<b>Manufacturing .....</b>	<b>—</b>	<b>100</b>	<b>33</b>	<b>3 859</b>	<b>110 428</b>	<b>2 824</b>	<b>5 347</b>	<b>70 958</b>	<b>312 020</b>	<b>295 568</b>	<b>618 577</b>	<b>20 236</b>
327	Nonmetallic mineral product mfg .....	—	9	6	685	23 400	461	921	15 343	69 732	53 777	124 526	3 390
333	Machinery mfg .....	—	10	4	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	—	1	1	f	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg .....	—	1	1	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
<b>CAYUGA COUNTY, NY</b>														
<b>—Con.</b>														
<b>31-33</b>	<b>Manufacturing—</b>													
	<b>Con.</b>													
335	Electrical equipment, appliance, & component mfg .....	—	4	2	f	D	D	D	D	D	D	D	D	
3353	Electrical equipment mfg ..	—	2	2	f	D	D	D	D	D	D	D	D	
33531	Electrical equipment mfg .....	—	2	2	f	D	D	D	D	D	D	D	D	
335314	Relay & industrial control mfg .....	—	1	1	f	D	D	D	D	D	D	D	D	
<b>CHAUTAUQUA COUNTY, NY</b>														
<b>31-33</b>	<b>Manufacturing .....</b>	—	<b>222</b>	<b>92</b>		<b>13 084</b>	<b>409 068</b>	<b>9 651</b>	<b>19 457</b>	<b>267 195</b>	<b>1 459 552</b>	<b>1 499 709</b>	<b>2 973 564</b>	<b>110 171</b>
311	Food mfg .....	—	22	12		2 444	69 485	1 814	3 766	43 440	420 483	578 897	999 303	19 871
3114	Fruit & vegetable preserving & specialty food mfg .....	—	5	4		1 203	37 169	940	2 091	23 212	127 735	299 538	427 958	D
31142	Fruit & vegetable canning, pickling, & drying .....	—	4	3	g	D	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning .....	—	3	3	g	D	D	D	D	D	D	D	D	8 111
331	Primary metal mfg .....	—	5	2	f	D	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	—	55	20		2 496	83 530	1 901	4 061	58 422	151 532	115 364	266 206	16 864
3329	Other fabricated metal product mfg .....	—	7	2	f	D	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg .....	—	6	2	f	D	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg .....	—	2	2	f	D	D	D	D	D	D	D	D	D
333	Machinery mfg .....	—	25	12		2 102	79 105	1 367	3 423	58 356	412 507	434 149	846 169	14 860
3335	Metalworking machinery mfg .....	2	15	5		510	19 235	384	793	14 207	32 571	16 948	50 100	5 773
33351	Metalworking machinery mfg .....	2	15	5		510	19 235	384	793	14 207	32 571	16 948	50 100	5 773
3336	Engine, turbine, & power transmission equipment mfg .....	—	2	2	g	D	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg .....	—	2	2	g	D	D	D	D	D	D	D	D	D
333618	Other engine equipment mfg .....	—	1	1	g	D	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	2	6	5		625	15 313	386	727	7 824	8 578	20 391	38 112	2 396
3363	Motor vehicle parts mfg ...	3	5	4	f	D	D	D	D	D	D	D	D	2 396
337	Furniture & related product mfg .....	—	23	15		2 632	66 346	2 121	3 319	38 309	233 494	135 301	362 781	D
3371	Household & institutional furniture & kitchen cabinet mfg .....	—	15	10		2 411	59 986	1 979	3 074	35 028	204 607	125 386	325 488	D
33712	Household & institutional furniture mfg .....	—	11	9		2 379	59 116	1 957	3 031	34 543	202 856	124 628	322 951	D
337122	Nonupholstered wood household furniture mfg .....	—	7	7		2 309	57 697	1 905	2 925	33 561	202 015	122 329	319 911	D
<b>CHEMUNG COUNTY, NY</b>														
<b>31-33</b>	<b>Manufacturing .....</b>	—	<b>94</b>	<b>44</b>		<b>9 098</b>	<b>278 083</b>	<b>6 214</b>	<b>12 888</b>	<b>170 432</b>	<b>765 645</b>	<b>576 380</b>	<b>1 357 316</b>	<b>64 924</b>
323	Printing & related support activities .....	2	11	2	f	D	D	D	D	D	D	D	D	D
3231	Printing & related support activities .....	2	11	2	f	D	D	D	D	D	D	D	D	D
32311	Printing .....	2	11	2	f	D	D	D	D	D	D	D	D	D
323116	Manifold business form printing .....	—	1	1	f	D	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	—	9	4		647	25 523	525	1 063	19 422	70 289	41 414	112 045	5 654
3272	Glass & glass product mfg ..	—	5	3		585	23 670	481	965	18 394	67 794	39 134	107 287	5 296
32721	Glass & glass product mfg .....	—	5	3		585	23 670	481	965	18 394	67 794	39 134	107 287	5 296
332	Fabricated metal product mfg .....	—	21	12		1 210	39 765	982	2 085	26 555	112 141	50 559	162 677	5 727

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

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>CHEMUNG COUNTY, NY—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
333	Machinery mfg .....	2	11	7	2 054	75 274	1 455	2 877	43 634	165 961	122 472	302 469	12 112
3335	Metalworking machinery mfg .....	—	3	2	g	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg .....	—	3	2	g	D	D	D	D	D	D	D	D
333512	Machine tool (metal cutting types) mfg ...	—	1	1	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	6	4	4	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg .....	6	4	4	f	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg .....	4	3	3	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	—	5	4	h	D	D	D	D	D	D	D	D
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
334411	Electron tube mfg ....	—	3	3	g	D	D	D	D	D	D	D	D
334417	Electronic connector mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>CHENANGO COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>86</b>	<b>33</b>	<b>3 829</b>	<b>120 318</b>	<b>2 643</b>	<b>5 307</b>	<b>62 315</b>	<b>497 910</b>	<b>279 013</b>	<b>790 411</b>	<b>49 898</b>
325	Chemical mfg .....	—	5	4	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	—	10	2	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	—	3	1	g	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg .....	—	3	1	g	D	D	D	D	D	D	D	D
333924	Industrial truck, tractor, trailer, & stacker machinery mfg .....	—	2	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	—	2	2	f	D	D	D	D	D	D	D	D
<b>CLINTON COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>82</b>	<b>28</b>	<b>4 188</b>	<b>131 846</b>	<b>3 422</b>	<b>6 362</b>	<b>98 261</b>	<b>359 452</b>	<b>403 482</b>	<b>777 901</b>	<b>53 155</b>
322	Paper mfg .....	—	6	4	983	37 674	832	1 757	29 810	123 083	131 126	256 130	D
3221	Pulp, paper, & paperboard mills .....	—	2	2	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	—	2	2	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 .....	1	4	3	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	2	6	6	678	15 446	558	1 116	10 648	51 872	42 206	93 807	3 981
3261	Plastics product mfg .....	4	5	5	f	D	D	D	D	D	D	D	D
<b>COLUMBIA COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>86</b>	<b>26</b>	<b>2 531</b>	<b>62 199</b>	<b>1 882</b>	<b>3 582</b>	<b>38 554</b>	<b>156 209</b>	<b>176 129</b>	<b>331 071</b>	<b>12 342</b>
333	Machinery mfg .....	—	11	3	561	12 313	413	782	7 823	44 129	24 804	67 876	1 977

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>CORTLAND COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>70</b>	<b>29</b>	<b>4 521</b>	<b>123 525</b>	<b>3 190</b>	<b>6 825</b>	<b>76 671</b>	<b>400 640</b>	<b>350 112</b>	<b>736 100</b>	<b>73 984</b>
325	Chemical mfg .....	5	6	3	670	19 006	495	1 055	8 388	56 734	41 170	97 611	3 635
332	Fabricated metal product mfg .....	-	12	4	1 100	34 708	912	2 132	26 184	81 007	50 915	118 081	D
3328	Coating, engraving, heat treating, & allied activities ..	-	2	1	f	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, & allied activities .....	-	2	1	f	D	D	D	D	D	D	D	D
332812	Metal coating/engraving (exc jewelry/silverware)/allied services .....	-	2	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>DELAWARE COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>60</b>	<b>28</b>	<b>4 386</b>	<b>147 909</b>	<b>3 169</b>	<b>6 621</b>	<b>92 675</b>	<b>418 039</b>	<b>351 779</b>	<b>783 680</b>	<b>27 563</b>
323	Printing & related support activities .....	-	4	2	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities .....	-	4	2	g	D	D	D	D	D	D	D	D
32311	Printing .....	-	3	2	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	2	2	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	-	3	3	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
334417	Electronic connector mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>DUTCHESS COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>210</b>	<b>59</b>	<b>11 848</b>	<b>521 317</b>	<b>5 675</b>	<b>11 405</b>	<b>153 806</b>	<b>937 456</b>	<b>1 932 127</b>	<b>3 032 927</b>	<b>54 681</b>
326	Plastics & rubber products mfg .....	1	8	6	666	21 831	506	1 113	12 242	52 759	51 259	105 346	3 265
3262	Rubber product mfg .....	1	3	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	1	36	12	749	26 342	583	1 176	15 611	59 764	28 556	87 734	2 669
334	Computer & electronic product mfg .....	-	15	8	i	D	D	D	D	D	D	D	35 102
3344	Semiconductor & other electronic component mfg .....	-	9	5	i	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	-	9	5	i	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	-	4	2	h	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
334419	Other electronic component mfg .....	9	3	1	519	12 452	453	1 032	11 498	700	2 739	3 488	D

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>ERIE COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>1 251</b>	<b>460</b>	<b>63 234</b>	<b>2 422 097</b>	<b>45 098</b>	<b>92 096</b>	<b>1 541 846</b>	<b>7 064 567</b>	<b>6 970 387</b>	<b>14 054 477</b>	<b>539 148</b>
311	Food mfg .....	1	97	49	5 852	183 560	4 286	8 597	115 496	1 118 920	984 618	2 114 006	68 642
3112	Grain & oilseed milling ....	-	5	5	758	39 458	598	1 635	30 831	420 770	282 969	705 178	D
3113	Sugar & confectionery product mfg .....	1	15	7	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg .....	1	8	5	f	D	D	D	D	D	D	D	3 332
31141	Frozen food mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg .....	2	11	8	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg .....	-	8	6	f	D	D	D	D	D	D	D	D
3116	Meat product mfg .....	3	9	7	f	D	D	D	D	D	D	D	16 017
31161	Animal slaughtering & processing .....	3	9	7	f	D	D	D	D	D	D	D	16 017
311612	Meat processed from carcasses .....	3	9	7	f	D	D	D	D	D	D	D	16 017
3118	Bakeries & tortilla mfg .....	-	41	12	g	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg .....	-	37	11	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	14	6	g	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg .....	2	6	4	f	D	D	D	D	D	D	D	D
3121	Beverage mfg .....	2	6	4	f	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg .....	2	6	4	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg .....	2	6	4	f	D	D	D	D	D	D	D	D
315	Apparel mfg .....	-	20	6	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg ....	-	7	2	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg .....	-	11	4	g	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg .....	-	11	4	g	D	D	D	D	D	D	D	D
315991	Hat, cap, & millinery mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
321	Wood product mfg .....	2	31	15	g	D	D	D	D	D	D	D	4 047
3211	Sawmills & wood preservation .....	2	4	3	f	D	D	D	D	D	D	D	2 797
32111	Sawmills & wood preservation .....	2	4	3	f	D	D	D	D	D	D	D	2 797
321113	Sawmills .....	2	4	3	f	D	D	D	D	D	D	D	2 797
3219	Other wood product mfg ...	4	26	11	f	D	D	D	D	D	D	D	D
322	Paper mfg .....	-	25	15	g	D	D	D	D	D	D	D	D
3222	Converted paper product mfg .....	-	25	15	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg .....	-	13	9	f	D	D	D	D	D	D	D	D
32223	Stationery product mfg ..	-	8	4	506	13 357	415	828	9 535	37 461	48 394	86 232	D
323	Printing & related support activities .....	1	176	38	3 831	120 636	2 931	5 623	81 369	243 969	154 719	399 218	28 957
3231	Printing & related support activities .....	1	176	38	3 831	120 636	2 931	5 623	81 369	243 969	154 719	399 218	28 957
32311	Printing .....	1	155	33	3 504	111 179	2 684	5 121	74 937	221 086	150 159	371 735	28 160
323110	Commercial lithographic printing ..	1	84	18	1 402	44 061	1 068	2 099	27 901	83 026	55 627	136 726	6 624
323117	Book printing .....	-	3	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	-	42	19	2 671	109 142	1 433	2 865	44 483	568 089	322 236	880 955	23 756
3251	Basic chemical mfg .....	-	7	6	580	28 184	331	654	14 219	88 626	55 640	142 885	D
3254	Pharmaceutical & medicine mfg .....	-	7	4	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	-	7	4	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	-	5	3	f	D	D	D	D	D	D	D	D



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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>ERIE COUNTY, NY—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
326	Plastics & rubber products mfg .....	—	64	32	h	D	D	D	D	D	D	D	D
3261	Plastics product mfg .....	1	52	26	h	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg .....	—	7	5	935	43 177	628	1 380	23 187	199 333	85 773	287 589	D
326121	Unsupported plastics profile shape mfg ....	—	5	4	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	2	33	17	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg .....	2	31	17	g	D	D	D	D	D	D	D	D
3262	Rubber product mfg .....	—	12	6	g	D	D	D	D	D	D	D	D
32621	Tire mfg .....	—	5	3	g	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading) .....	—	3	2	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	1	43	20	2 148	76 343	1 552	3 226	47 182	221 794	134 523	358 838	19 693
3271	Clay product & refractory mfg .....	—	7	5	f	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, & plumbing fixture mfg ...	—	2	2	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product mfg .....	—	14	10	f	D	D	D	D	D	D	D	D
32791	Abrasive product mfg ...	—	8	8	847	30 187	649	1 457	19 864	109 954	64 711	175 284	D
327910	Abrasive product mfg .	—	8	8	847	30 187	649	1 457	19 864	109 954	64 711	175 284	D
331	Primary metal mfg .....	—	20	13	h	D	D	D	D	D	D	D	D
3311	Iron & steel mills & ferroalloy mfg .....	—	5	3	f	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg .....	—	5	3	f	D	D	D	D	D	D	D	D
331111	Iron & steel mills .....	—	5	3	f	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel .....	—	3	3	f	D	D	D	D	D	D	D	D
33122	Rolling & drawing of purchased steel .....	—	3	3	f	D	D	D	D	D	D	D	D
331221	Cold-rolled steel shape mfg .....	—	2	2	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing .....	—	5	4	1 015	51 376	725	1 595	35 396	110 433	251 049	363 853	10 938
33142	Copper rolling, drawing, extruding, & alloying ...	—	1	1	f	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, & extruding .	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	1	247	78	5 892	193 191	4 198	8 437	113 154	422 253	255 877	674 530	32 228
3323	Architectural & structural metals mfg .....	1	38	15	979	33 784	651	1 378	19 213	78 808	57 480	136 041	3 885
33231	Plate work & fabricated structural product mfg ..	1	17	8	605	21 726	367	759	11 089	54 446	44 636	99 082	2 403
332312	Fabricated structural metal mfg .....	1	13	7	f	D	D	D	D	D	D	D	D
3324	Boiler, tank, & shipping container mfg .....	—	12	7	f	D	D	D	D	D	D	D	D
33241	Power boiler & heat exchanger mfg .....	—	5	5	677	26 248	472	1 003	13 726	62 688	36 646	97 105	D
332410	Power boiler & heat exchanger mfg .....	—	5	5	677	26 248	472	1 003	13 726	62 688	36 646	97 105	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	—	103	27	1 788	56 583	1 357	2 662	36 564	122 163	55 011	176 282	11 659
33271	Machine shops .....	2	84	18	970	29 053	743	1 369	19 856	53 923	20 001	73 306	5 470
332710	Machine shops .....	2	84	18	970	29 053	743	1 369	19 856	53 923	20 001	73 306	5 470
33272	Turned product & screw, nut, & bolt mfg .....	—	19	9	818	27 530	614	1 293	16 708	68 240	35 010	102 976	6 189
332721	Precision turned product mfg .....	—	14	7	729	24 763	559	1 180	15 533	59 974	30 903	90 529	5 851
3329	Other fabricated metal product mfg .....	3	27	7	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>ERIE COUNTY, NY— Con. Manufacturing— Con.</b>												
333	Machinery mfg .....	1	129	50	8 026	349 469	4 439	8 975	164 686	826 022	424 877	1 260 134	41 693
3331	Agriculture, construction, & mining machinery mfg....	—	5	3	f	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	—	14	3	534	20 922	324	690	10 483	42 082	36 490	77 705	D
3335	Metalworking machinery mfg .....	3	46	11	g	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg .....	3	46	11	g	D	D	D	D	D	D	D	D
333513	Machine tool (metal forming types) mfg ...	5	5	3	948	40 879	543	1 075	22 323	94 697	54 169	141 809	D
3336	Engine, turbine, & power transmission equipment mfg .....	—	7	6	678	23 076	446	714	13 462	44 564	36 338	81 205	D
33361	Engine, turbine, & power transmission equipment mfg .....	—	7	6	678	23 076	446	714	13 462	44 564	36 338	81 205	D
3339	Other general-purpose machinery mfg .....	—	36	18	3 600	174 471	1 738	3 524	68 526	445 009	154 974	616 357	23 078
33391	Pump & compressor mfg .....	—	3	1	f	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg .....	—	2	1	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg .....	—	24	12	h	D	D	D	D	D	D	D	D
333995	Fluid power cylinder & actuator mfg .....	—	5	3	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	1	63	28	h	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	2	21	7	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	2	21	7	g	D	D	D	D	D	D	D	D
334419	Other electronic component mfg .....	3	9	4	775	18 551	520	990	10 862	41 132	17 000	58 421	1 957
3345	Navigational, measuring, medical, & control instruments mfg .....	1	20	13	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg .....	1	20	13	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg .....	—	3	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	2	31	16	1 497	57 644	951	2 043	24 686	106 825	59 118	169 619	D
3359	Other electrical equipment & component mfg .....	1	11	6	f	D	D	D	D	D	D	D	D
33591	Battery mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
335912	Primary battery mfg ...	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	—	51	27	j	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	—	28	19	j	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg .....	—	2	1	h	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg ....	—	2	1	h	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg .....	2	5	4	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg .....	2	4	4	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg .....	—	4	3	h	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg .....	—	4	3	h	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping .....	—	2	1	g	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	—	2	1	g	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg .....	9	11	7	f	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg .....	9	11	7	f	D	D	D	D	D	D	D	D

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<b>31-33</b>	<b>ERIE COUNTY, NY— Con. Manufacturing— Con.</b>												
336	Transportation equipment mfg—Con.												
3364	Aerospace product & parts mfg .....	—	4	3	848	30 844	489	947	15 473	42 623	47 554	91 670	3 153
33641	Aerospace product & parts mfg .....	—	4	3	848	30 844	489	947	15 473	42 623	47 554	91 670	3 153
336413	Other aircraft part & auxiliary equipment mfg .....	—	3	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	2	40	10	f	D	D	D	D	D	D	D	2 749
339	Miscellaneous mfg .....	1	126	28	3 709	105 102	2 497	4 939	52 252	295 948	199 077	490 364	11 957
3391	Medical equipment & supplies mfg .....	—	63	10	g	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg .....	—	63	10	g	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg .....	—	9	4	718	17 194	408	575	5 746	47 077	50 226	93 007	D
3399	Other miscellaneous mfg ..	1	63	18	g	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg .....	—	4	1	f	D	D	D	D	D	D	D	D
339944	Carbon paper & inked ribbon mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg .....	4	19	7	f	D	D	D	D	D	D	D	D
	<b>ESSEX COUNTY, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>40</b>	<b>5</b>	<b>1 474</b>	<b>50 361</b>	<b>1 132</b>	<b>2 435</b>	<b>35 323</b>	<b>130 048</b>	<b>157 819</b>	<b>285 163</b>	<b>10 244</b>
322	Paper mfg .....	—	2	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
	<b>FRANKLIN COUNTY, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>26</b>	<b>8</b>	<b>1 165</b>	<b>24 911</b>	<b>971</b>	<b>2 302</b>	<b>18 214</b>	<b>71 645</b>	<b>84 313</b>	<b>144 440</b>	<b>D</b>
316	Leather & allied product mfg .	—	1	1	f	D	D	D	D	D	D	D	D
3162	Footwear mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
31621	Footwear mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
316212	House slipper mfg ....	—	1	1	f	D	D	D	D	D	D	D	D
	<b>FULTON COUNTY, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>116</b>	<b>43</b>	<b>3 548</b>	<b>86 622</b>	<b>2 845</b>	<b>5 931</b>	<b>58 757</b>	<b>220 555</b>	<b>227 859</b>	<b>443 598</b>	<b>16 811</b>
315	Apparel mfg .....	1	10	3	515	9 179	456	931	6 935	14 495	11 696	26 956	D
316	Leather & allied product mfg .	3	34	14	f	D	D	D	D	D	D	D	D
3161	Leather & hide tanning & finishing .....	3	32	14	f	D	D	D	D	D	D	D	D
31611	Leather & hide tanning & finishing .....	3	32	14	f	D	D	D	D	D	D	D	D
316110	Leather & hide tanning & finishing .....	3	32	14	f	D	D	D	D	D	D	D	D
	<b>GENESEE COUNTY, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>107</b>	<b>40</b>	<b>3 979</b>	<b>127 047</b>	<b>2 834</b>	<b>5 973</b>	<b>75 499</b>	<b>335 245</b>	<b>443 367</b>	<b>778 051</b>	<b>32 387</b>
327	Nonmetallic mineral product mfg .....	1	11	6	747	28 130	573	1 273	18 924	71 489	44 071	115 321	4 935
332	Fabricated metal product mfg .....	—	21	5	656	23 193	385	790	11 588	44 852	26 876	69 774	1 460
333	Machinery mfg .....	2	14	6	f	D	D	D	D	D	D	D	5 222
	<b>GREENE COUNTY, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>37</b>	<b>6</b>	<b>740</b>	<b>22 410</b>	<b>472</b>	<b>910</b>	<b>11 917</b>	<b>57 802</b>	<b>60 528</b>	<b>118 422</b>	<b>5 295</b>

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<b>HERKIMER COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>71</b>	<b>30</b>	<b>4 971</b>	<b>135 762</b>	<b>3 982</b>	<b>8 249</b>	<b>96 514</b>	<b>411 914</b>	<b>254 100</b>	<b>662 359</b>	<b>22 707</b>
314	Textile product mills.....	-	4	1	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills....	-	2	1	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills.....	-	2	1	f	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills .....	-	2	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	20	7	1 921	62 191	1 623	3 514	48 484	196 668	48 601	249 883	4 243
3329	Other fabricated metal product mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
332994	Small arms mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>JEFFERSON COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>84</b>	<b>31</b>	<b>3 896</b>	<b>131 988</b>	<b>2 791</b>	<b>5 844</b>	<b>85 150</b>	<b>357 639</b>	<b>448 152</b>	<b>812 623</b>	<b>32 641</b>
322	Paper mfg .....	-	8	7	1 358	57 938	1 088	2 505	42 552	162 910	188 796	356 454	17 813
3221	Pulp, paper, & paperboard mills .....	-	6	6	g	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	5	5	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	4	4	f	D	D	D	D	D	D	D	D
322122	Newsprint mills.....	-	1	1	f	D	D	D	D	D	D	D	D
<b>KINGS COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>3</b>	<b>2 672</b>	<b>619</b>	<b>48 589</b>	<b>1 139 878</b>	<b>37 284</b>	<b>68 997</b>	<b>718 347</b>	<b>3 014 553</b>	<b>2 744 960</b>	<b>5 725 535</b>	<b>138 902</b>
311	Food mfg .....	2	379	66	6 424	178 136	4 326	8 471	103 790	535 093	854 791	1 392 762	25 164
3113	Sugar & confectionery product mfg.....	-	14	8	980	36 304	770	1 595	25 227	106 334	276 619	383 062	5 519
3116	Meat product mfg.....	5	30	12	684	23 170	495	1 205	15 715	102 100	145 806	247 470	4 148
31161	Animal slaughtering & processing.....	5	30	12	684	23 170	495	1 205	15 715	102 100	145 806	247 470	4 148
311612	Meat processed from carcasses .....	5	18	10	575	20 415	399	1 035	13 811	86 713	118 022	204 249	3 775
3118	Bakeries & tortilla mfg.....	5	257	20	1 991	39 398	1 272	2 184	19 525	96 960	63 065	160 243	4 627
31181	Bread & bakery product mfg .....	6	244	17	1 824	33 745	1 158	1 995	16 974	80 351	52 212	132 602	4 120
311811	Retail bakeries .....	5	171	4	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	6	72	12	1 076	21 837	698	1 349	11 306	53 104	33 107	86 116	2 719
3119	Other food mfg .....	-	45	16	1 766	48 965	1 165	2 232	25 983	154 549	197 316	355 577	7 232
31199	All other food mfg .....	1	27	9	1 120	24 845	739	1 210	13 345	63 339	80 715	143 852	2 862
311991	Perishable prepared food mfg .....	-	14	4	763	18 912	478	885	9 903	45 651	60 739	106 187	1 776
312	Beverage & tobacco product mfg .....	7	13	5	815	18 549	613	1 272	11 905	88 455	78 392	166 371	D
3121	Beverage mfg .....	7	13	5	815	18 549	613	1 272	11 905	88 455	78 392	166 371	D
31211	Soft drink & ice mfg.....	9	9	3	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg .....	9	6	2	f	D	D	D	D	D	D	D	D
313	Textile mills .....	6	92	11	1 130	27 326	953	1 902	18 496	53 279	62 505	115 483	5 147
3132	Fabric mills .....	5	53	6	657	15 172	549	1 124	10 616	28 408	34 123	62 351	3 362
314	Textile product mills.....	4	103	18	1 408	21 191	1 162	1 757	13 340	49 352	50 044	98 647	D
3141	Textile furnishings mills....	3	46	9	664	10 777	538	847	6 065	27 145	32 799	59 205	D
31412	Curtain & linen mills.....	3	44	9	f	D	D	D	D	D	D	D	D
3149	Other textile product mills..	5	57	9	744	10 414	624	910	7 275	22 207	17 245	39 442	D
31499	All other textile product mills .....	4	39	7	f	D	D	D	D	D	D	D	D
314999	All other miscellaneous textile product mills ..	4	39	7	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>KINGS COUNTY, NY—Con.</b>												
	<b>Manufacturing—Con.</b>												
315	Apparel mfg .....	6	802	224	14 889	227 223	12 798	21 836	173 572	464 307	389 146	853 527	16 253
3151	Apparel knitting mills .....	7	107	46	h	D	D	D	D	D	D	D	4 323
31519	Other apparel knitting mills .....	7	100	45	h	D	D	D	D	D	D	D	4 181
315191	Outerwear knitting mills .....	7	99	45	2 916	50 344	2 443	4 513	39 107	109 470	79 524	190 472	D
3152	Cut & sew apparel mfg ....	6	631	164	10 661	152 964	9 238	15 358	117 405	307 804	269 175	574 852	10 034
31521	Cut & sew apparel contractors .....	7	435	109	6 614	83 441	5 934	9 805	70 998	131 847	30 163	161 792	4 894
315212	Women's, girls', & infants' cut & sew apparel contractors ..	7	417	101	6 197	77 332	5 564	9 088	66 040	122 085	28 907	150 771	4 669
31522	Men's & boys' cut & sew apparel mfg .....	6	51	18	1 444	22 955	1 261	2 166	17 655	55 727	52 800	108 907	2 896
315228	Men's & boys' cut & sew other outerwear mfg .....	6	34	14	1 021	15 692	899	1 601	12 327	33 660	39 372	73 990	2 617
31523	Women's & girls' cut & sew apparel mfg .....	5	126	36	2 524	45 669	1 977	3 282	28 086	117 789	184 275	299 780	2 176
315232	Women's & girls' cut & sew blouse & shirt mfg .....	2	38	10	574	9 700	467	784	6 440	26 362	38 655	64 823	441
315234	Women's & girls' cut & sew suit, coat, skirt mfg .....	7	15	5	551	14 881	294	615	5 895	50 821	77 712	125 992	620
315239	Women's & girls' cut & sew other outerwear mfg .....	6	35	11	f	D	D	D	D	D	D	D	567
3159	Apparel accessories & other apparel mfg .....	3	64	14	g	D	D	D	D	D	D	D	1 896
31599	Apparel accessories & other apparel mfg .....	3	64	14	g	D	D	D	D	D	D	D	1 896
315999	Other apparel accessories & other apparel mfg .....	3	36	11	844	16 237	708	1 345	11 629	27 126	24 617	52 507	1 614
316	Leather & allied product mfg .	1	24	8	891	18 263	533	1 132	9 197	68 119	45 879	113 691	D
3169	Other leather & allied product mfg .....	-	18	7	791	15 298	462	953	6 868	63 619	43 589	106 886	D
31699	Other leather & allied product mfg .....	-	18	7	791	15 298	462	953	6 868	63 619	43 589	106 886	D
322	Paper mfg .....	5	40	17	963	27 275	736	1 332	17 658	57 331	64 232	121 433	4 176
3222	Converted paper product mfg .....	5	40	17	963	27 275	736	1 332	17 658	57 331	64 232	121 433	4 176
323	Printing & related support activities .....	5	189	28	2 787	68 829	2 149	4 265	47 105	131 286	76 756	207 344	D
3231	Printing & related support activities .....	5	189	28	2 787	68 829	2 149	4 265	47 105	131 286	76 756	207 344	D
32311	Printing .....	5	159	18	2 252	58 955	1 683	3 587	39 523	113 422	72 912	185 607	D
323110	Commercial lithographic printing ..	3	68	6	758	26 125	533	1 115	17 673	52 644	31 811	84 411	D
323118	Blankbook, looseleaf binder, & device mfg .	9	6	3	653	13 329	550	1 484	10 354	21 052	18 379	38 829	D
32312	Support activities for printing .....	4	30	10	535	9 874	466	678	7 582	17 864	3 844	21 737	D
323121	Tradebinding & related work .....	4	21	10	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	1	56	16	2 799	111 012	1 854	4 600	60 617	611 780	307 135	881 722	27 772
3254	Pharmaceutical & medicine mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg ..	1	19	5	f	D	D	D	D	D	D	D	3 412
326	Plastics & rubber products mfg .....	2	87	37	2 505	71 847	1 893	3 812	41 729	167 962	187 891	355 597	12 613
3261	Plastics product mfg .....	2	80	36	g	D	D	D	D	D	D	D	12 460
32611	Unsupported plastics film, sheet, & bag mfg ..	2	28	17	1 060	33 643	776	1 697	20 500	85 921	94 615	180 205	4 199
326111	Unsupported plastics bag mfg .....	2	19	12	717	21 321	542	1 185	14 028	57 230	54 674	111 310	2 710
32619	Other plastics product mfg .....	3	48	16	1 221	30 693	959	1 805	17 454	59 697	64 006	123 839	6 865
326199	All other plastics product mfg .....	3	47	16	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	4	42	8	598	14 902	447	870	9 130	32 921	26 540	59 760	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>KINGS COUNTY, NY—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg .....	3	209	49	3 623	104 867	2 783	5 202	68 233	211 475	141 757	356 000	9 847
3323	Architectural & structural metals mfg .....	3	74	14	1 094	36 557	828	1 695	24 036	68 324	49 461	117 761	2 754
33232	Ornamental & architectural metal products mfg .....	3	59	13	983	32 805	749	1 534	21 975	59 383	42 668	101 877	2 514
333	Machinery mfg .....	5	64	14	1 056	32 945	688	1 148	17 933	67 354	50 485	116 901	2 561
334	Computer & electronic product mfg .....	2	33	9	1 096	34 263	744	1 792	17 114	93 672	90 077	182 927	D
3342	Communications equipment mfg .....	—	7	3	573	18 842	343	1 028	7 309	59 027	63 332	121 314	D
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	—	3	2	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	—	3	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	4	39	11	706	24 458	538	953	12 536	66 032	41 067	109 173	D
337	Furniture & related product mfg .....	3	201	37	2 352	52 120	1 770	3 034	33 252	91 822	86 026	176 914	4 113
3371	Household & institutional furniture & kitchen cabinet mfg .....	4	134	20	1 326	26 685	1 062	1 799	18 908	50 379	40 219	89 698	1 959
33712	Household & institutional furniture mfg .....	4	86	17	1 036	20 443	820	1 419	14 026	40 282	33 804	73 245	1 631
337122	Nonupholstered wood household furniture mfg .....	3	48	6	527	10 101	438	768	7 681	18 877	14 869	33 279	548
3372	Office furniture (including fixtures) mfg .....	2	50	14	808	21 369	548	986	11 771	33 574	31 805	65 399	1 184
33721	Office furniture (including fixtures) mfg .....	2	50	14	808	21 369	548	986	11 771	33 574	31 805	65 399	1 184
339	Miscellaneous mfg .....	3	231	44	3 457	75 042	2 475	4 035	42 916	152 537	114 847	267 192	4 940
3399	Other miscellaneous mfg ..	3	158	40	3 004	65 723	2 150	3 593	37 468	135 104	105 367	239 611	4 301
33994	Office supplies (except paper) mfg .....	1	15	5	641	13 301	523	1 013	9 443	23 018	19 945	43 519	D
33995	Sign mfg .....	1	32	9	838	18 978	577	930	9 756	33 439	19 105	51 788	761
339950	Sign mfg .....	1	32	9	838	18 978	577	930	9 756	33 439	19 105	51 788	761
33999	All other miscellaneous mfg .....	4	55	19	1 101	23 038	741	1 168	12 540	53 780	39 235	92 896	2 030
339999	All other miscellaneous mfg .....	5	42	14	859	18 558	558	828	9 813	42 906	25 781	68 939	1 819
<b>LEWIS COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>24</b>	<b>10</b>	<b>1 560</b>	<b>53 105</b>	<b>1 207</b>	<b>2 616</b>	<b>35 388</b>	<b>130 304</b>	<b>381 373</b>	<b>505 297</b>	<b>16 169</b>
322	Paper mfg .....	—	4	4	647	25 343	491	1 061	15 899	52 218	77 433	128 643	3 919
<b>LIVINGSTON COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>48</b>	<b>18</b>	<b>2 196</b>	<b>59 493</b>	<b>1 725</b>	<b>3 055</b>	<b>39 069</b>	<b>327 003</b>	<b>158 566</b>	<b>500 465</b>	<b>19 769</b>
<b>MADISON COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>69</b>	<b>21</b>	<b>2 526</b>	<b>69 329</b>	<b>2 040</b>	<b>4 078</b>	<b>45 734</b>	<b>159 896</b>	<b>345 928</b>	<b>506 731</b>	<b>18 987</b>
326	Plastics & rubber products mfg .....	6	8	5	646	16 083	543	1 091	11 056	21 689	47 298	68 653	2 724
3261	Plastics product mfg .....	6	8	5	646	16 083	543	1 091	11 056	21 689	47 298	68 653	2 724
32619	Other plastics product mfg .....	6	6	4	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg .....	6	6	4	f	D	D	D	D	D	D	D	D
331	Primary metal mfg .....	—	4	4	f	D	D	D	D	D	D	D	D

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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>MONROE COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing</b> . . . . .	-	<b>1 007</b>	<b>378</b>	<b>82 459</b>	<b>3 521 824</b>	<b>52 189</b>	<b>108 568</b>	<b>1 861 646</b>	<b>12 354 950</b>	<b>9 314 071</b>	<b>21 774 715</b>	<b>846 690</b>
311	Food mfg . . . . .	2	79	16	2 111	61 704	1 443	3 100	34 606	346 914	633 509	982 057	20 882
3114	Fruit & vegetable preserving & specialty food mfg . . . . .	6	6	3	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg . . . . .	4	49	7	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg . . . . .	1	47	6	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg . . . . .	-	11	6	g	D	D	D	D	D	D	D	D
3121	Beverage mfg . . . . .	-	11	6	g	D	D	D	D	D	D	D	D
31212	Breweries . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
312120	Breweries . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg . . . . .	2	8	3	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg . . . . .	2	5	3	g	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
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg . . . . .	2	22	13	1 301	43 046	951	2 095	25 752	111 489	108 356	216 093	7 815
3222	Converted paper product mfg . . . . .	2	21	12	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg . . . . .	-	8	7	794	25 290	598	1 306	14 425	63 174	53 860	116 593	D
322211	Corrugated & solid fiber box mfg . . . . .	-	6	6	f	D	D	D	D	D	D	D	1 655
323	Printing & related support activities . . . . .	2	134	32	2 767	102 453	1 985	4 124	59 871	205 730	131 307	336 816	20 418
3231	Printing & related support activities . . . . .	2	134	32	2 767	102 453	1 985	4 124	59 871	205 730	131 307	336 816	20 418
32311	Printing . . . . .	2	114	25	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing . . . . .	2	57	14	1 439	60 738	997	2 101	34 635	114 075	79 720	193 860	13 755
325	Chemical mfg . . . . .	-	29	12	j	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg . . . . .	-	2	2	g	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance mfg . . . . .	-	1	1	g	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg . . . . .	-	6	3	f	D	D	D	D	D	D	D	D
32561	Soap & cleaning compound mfg . . . . .	-	6	3	f	D	D	D	D	D	D	D	D
3259	Other chemical product mfg . . . . .	-	13	5	j	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg . . . . .	-	9	4	j	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, & chemical mfg . . . . .	-	5	3	j	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	1	47	30	3 963	118 305	2 924	5 596	70 279	296 824	174 744	467 127	37 984
3261	Plastics product mfg . . . . .	1	44	28	h	D	D	D	D	D	D	D	D
32615	Urethane & other foam product (except polystyrene) mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
326150	Urethane & other foam product (except polystyrene) mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg . . . . .	2	34	23	2 983	91 248	2 272	4 446	54 929	219 593	119 833	337 803	D
326199	All other plastics product mfg . . . . .	2	33	23	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg . . . . .	1	31	13	650	21 862	433	734	10 585	51 015	39 575	91 112	D
332	Fabricated metal product mfg . . . . .	1	215	84	8 001	256 076	6 033	12 214	167 539	586 518	337 087	915 973	42 469
3321	Forging & stamping . . . . .	-	16	12	f	D	D	D	D	D	D	D	D
33211	Forging & stamping . . . . .	-	16	12	f	D	D	D	D	D	D	D	D
332116	Metal stamping . . . . .	1	11	10	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg . . . . .	1	29	14	1 106	35 965	837	1 561	23 215	74 843	41 131	115 528	4 466
33232	Ornamental & architectural metal products mfg . . . . .	1	23	14	1 065	35 032	809	1 524	22 627	72 985	39 976	112 507	4 418
332322	Sheet metal work mfg . . . . .	1	17	13	f	D	D	D	D	D	D	D	D
3325	Hardware mfg . . . . .	4	7	5	g	D	D	D	D	D	D	D	D
33251	Hardware mfg . . . . .	4	7	5	g	D	D	D	D	D	D	D	D
332510	Hardware mfg . . . . .	4	7	5	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>MONROE COUNTY, NY</b>												
	—Con.												
<b>31-33</b>	<b>Manufacturing—</b>												
	Con.												
332	Fabricated metal product mfg—Con.												
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	—	111	38	3 162	100 291	2 402	4 946	69 988	209 698	121 934	325 911	20 383
33271	Machine shops .....	1	71	14	1 624	47 633	1 189	2 182	33 092	97 760	54 285	149 355	9 334
332710	Machine shops .....	1	71	14	1 624	47 633	1 189	2 182	33 092	97 760	54 285	149 355	9 334
33272	Turned product & screw, nut, & bolt mfg .....	—	40	24	1 538	52 658	1 213	2 764	36 896	111 938	67 649	176 556	11 049
332721	Precision turned product mfg .....	—	32	22	1 438	49 224	1 139	2 634	34 937	105 476	64 233	167 321	10 733
3328	Coating, engraving, heat treating, & allied activities.	—	21	10	f	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, & allied activities .....	—	21	10	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	—	168	79	19 753	919 474	12 387	22 090	462 276	4 195 115	3 298 699	7 528 831	225 685
3332	Industrial machinery mfg ..	—	21	8	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg .....	—	20	8	f	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg ..	—	33	18	j	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg .....	—	33	18	j	D	D	D	D	D	D	D	D
333313	Office machinery mfg ..	—	7	5	f	D	D	D	D	D	D	D	D
333315	Photographic & photocopying equipment mfg .....	—	9	4	j	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg .....	1	84	39	3 791	156 164	2 572	5 221	93 079	288 441	224 002	516 276	20 772
33351	Metalworking machinery mfg .....	1	84	39	3 791	156 164	2 572	5 221	93 079	288 441	224 002	516 276	20 772
333511	Industrial mold mfg ...	1	23	10	f	D	D	D	D	D	D	D	D
333512	Machine tool (metal cutting types) mfg ...	—	6	6	1 416	66 708	786	1 554	34 092	129 636	125 740	259 862	6 729
333514	Special die & tool, die set, jig, & fixture mfg ...	3	31	12	615	22 991	517	1 053	16 913	40 847	17 530	58 496	D
333515	Cutting tool & machine tool accessory mfg ..	1	16	6	f	D	D	D	D	D	D	D	D
333518	Other metalworking machinery mfg .....	2	8	5	624	24 599	415	859	14 022	45 640	43 731	89 314	D
3339	Other general-purpose machinery mfg .....	1	21	10	g	D	D	D	D	D	D	D	6 135
33399	All other general-purpose machinery mfg .....	—	16	6	g	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg .....	—	11	4	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	—	73	43	5 755	230 797	3 061	5 741	93 637	510 549	292 152	808 035	25 482
3341	Computer & peripheral equipment mfg .....	1	11	4	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg .....	1	11	4	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg .....	—	12	11	2 750	115 990	1 364	2 715	50 405	271 324	128 606	401 220	D
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	—	6	6	g	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	—	6	6	g	D	D	D	D	D	D	D	D
33429	Other communications equipment mfg .....	—	4	3	f	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg .....	—	4	3	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	1	23	11	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	1	23	11	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg .....	—	26	17	1 616	65 846	829	1 483	24 716	128 329	78 570	210 457	7 290
33451	Navigational, measuring, medical, & control instruments mfg .....	—	26	17	1 616	65 846	829	1 483	24 716	128 329	78 570	210 457	7 290



**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
	<b>MONROE COUNTY, NY</b> —Con.													
<b>31-33</b>	<b>Manufacturing—</b> <b>Con.</b>													
335	Electrical equipment, appliance, & component mfg .....	—	17	8	h	D	D	D	D	D	D	D	D	
3353	Electrical equipment mfg ..	—	9	4	h	D	D	D	D	D	D	D	D	
33531	Electrical equipment mfg .....	—	9	4	h	D	D	D	D	D	D	D	D	
335312	Motor & generator mfg .....	—	1	1	h	D	D	D	D	D	D	D	D	
336	Transportation equipment mfg .....	—	15	7	h	D	D	D	D	D	D	D	D	
3363	Motor vehicle parts mfg ...	—	10	6	h	D	D	D	D	D	D	D	D	
33631	Motor vehicle gasoline engine & engine parts mfg .....	—	5	3	h	D	D	D	D	D	D	D	D	
336312	Gasoline engine & engine parts mfg ....	—	5	3	h	D	D	D	D	D	D	D	D	
337	Furniture & related product mfg .....	8	36	3	f	676	17 901	523	992	11 511	32 946	29 242	61 949	D
339	Miscellaneous mfg.....	1	82	22	f	5 020	203 052	3 736	8 377	128 949	455 856	117 656	575 260	59 602
3391	Medical equipment & supplies mfg .....	—	41	12	h	D	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg .....	—	41	12	h	D	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg .....	1	6	3	f	D	D	D	D	D	D	D	D	D
339115	Ophthalmic goods mfg .....	—	10	7	f	3 246	133 444	2 617	6 458	102 641	322 905	47 243	369 407	D
3399	Other miscellaneous mfg ..	2	41	10	f	D	D	D	D	D	D	D	D	D
	<b>MONTGOMERY COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>84</b>	<b>36</b>		<b>4 790</b>	<b>123 604</b>	<b>3 686</b>	<b>7 299</b>	<b>75 884</b>	<b>345 445</b>	<b>290 317</b>	<b>637 700</b>	<b>22 684</b>
311	Food mfg.....	—	9	5	f	728	26 105	564	1 073	15 083	118 913	75 773	194 621	D
326	Plastics & rubber products mfg .....	6	6	6	f	1 071	20 960	856	1 299	13 862	50 596	44 031	94 892	5 180
3261	Plastics product mfg .....	6	6	6	f	1 071	20 960	856	1 299	13 862	50 596	44 031	94 892	5 180
32619	Other plastics product mfg .....	9	3	3	f	547	8 165	437	511	5 276	15 519	16 267	31 842	D
326199	All other plastics product mfg.....	9	3	3	f	547	8 165	437	511	5 276	15 519	16 267	31 842	D
334	Computer & electronic product mfg.....	1	4	3	f	D	D	D	D	D	D	D	D	D
	<b>NASSAU COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>1 653</b>	<b>369</b>		<b>42 717</b>	<b>1 550 762</b>	<b>26 522</b>	<b>50 743</b>	<b>704 513</b>	<b>4 093 684</b>	<b>2 996 600</b>	<b>7 117 267</b>	<b>232 253</b>
311	Food mfg.....	4	169	21	f	1 891	44 834	1 224	2 156	23 852	152 163	120 948	273 205	8 469
3118	Bakeries & tortilla mfg .....	3	139	9	f	1 061	19 444	705	1 193	11 665	49 412	33 272	82 775	1 923
31181	Bread & bakery product mfg .....	4	134	7	f	919	15 685	582	974	8 614	34 093	22 234	56 444	1 550
311811	Retail bakeries .....	4	106	3	f	D	D	D	D	D	D	D	D	D
313	Textile mills .....	1	29	8	f	776	21 846	653	1 438	15 456	55 344	61 966	117 205	2 645
314	Textile product mills.....	1	42	8	f	523	12 866	404	733	7 556	32 732	32 249	64 644	1 137
315	Apparel mfg .....	5	87	22	f	1 357	31 132	1 130	2 076	20 456	69 852	106 792	178 975	1 928
3152	Cut & sew apparel mfg ....	4	52	16	f	D	D	D	D	D	D	D	D	736
31521	Cut & sew apparel contractors .....	5	31	9	f	D	D	D	D	D	D	D	D	370
322	Paper mfg .....	1	18	8	f	555	15 674	460	889	11 092	25 744	46 864	72 746	1 276
3222	Converted paper product mfg .....	1	18	8	f	555	15 674	460	889	11 092	25 744	46 864	72 746	1 276
323	Printing & related support activities.....	3	308	38	f	3 898	124 780	2 821	5 341	81 686	244 062	153 338	397 877	19 670
3231	Printing & related support activities.....	3	308	38	f	3 898	124 780	2 821	5 341	81 686	244 062	153 338	397 877	19 670
32311	Printing .....	3	271	36	f	3 366	104 508	2 374	4 265	64 795	217 477	150 203	368 164	18 462
323110	Commercial lithographic printing ..	3	127	22	f	1 982	63 984	1 398	2 516	38 880	127 469	84 332	213 148	10 664
32312	Support activities for printing.....	1	37	2	f	532	20 272	447	1 076	16 891	26 585	3 135	29 713	1 208

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NASSAU COUNTY, NY—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
325	Chemical mfg . . . . .	3	52	19	3 086	126 414	1 527	2 975	47 072	340 234	461 338	802 360	68 151
3254	Pharmaceutical & medicine mfg . . . . .	1	18	10	1 793	77 449	676	1 337	20 464	145 734	153 997	297 742	30 267
32541	Pharmaceutical & medicine mfg . . . . .	1	18	10	1 793	77 449	676	1 337	20 464	145 734	153 997	297 742	30 267
325412	Pharmaceutical preparation mfg . . . . .	1	13	8	g	D	D	D	D	D	D	D	29 705
3259	Other chemical product mfg . . . . .	—	7	4	f	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg . . . . .	—	7	4	f	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, & chemical mfg . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	3	59	27	2 254	62 449	1 757	3 206	32 599	134 816	126 135	261 659	8 316
3261	Plastics product mfg . . . . .	3	55	25	2 102	59 858	1 624	2 918	30 750	129 583	122 961	253 251	D
32611	Unsupported plastics film, sheet, & bag mfg . . . . .	3	12	4	607	18 174	523	1 076	12 496	44 788	39 862	84 147	2 137
32619	Other plastics product mfg . . . . .	3	32	17	1 317	36 844	963	1 609	15 652	75 029	73 196	149 203	5 266
326199	All other plastics product mfg . . . . .	3	31	17	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	1	183	51	4 092	152 462	2 867	5 985	80 061	350 397	193 973	554 396	17 811
3323	Architectural & structural metals mfg . . . . .	1	49	16	1 054	35 676	718	1 438	18 669	67 648	41 733	109 753	1 797
33232	Ornamental & architectural metal products mfg . . . . .	1	42	16	1 009	34 034	690	1 385	17 559	64 696	39 676	104 747	D
332322	Sheet metal work mfg . . . . .	1	20	9	551	22 269	376	742	10 723	36 608	20 261	56 773	1 296
3327	Machine shops, turned product, & screw, nut, & bolt mfg . . . . .	1	73	16	895	36 680	688	1 368	22 039	70 871	45 972	116 587	6 441
33271	Machine shops . . . . .	2	56	9	521	19 202	410	823	13 034	36 361	17 114	53 491	4 842
332710	Machine shops . . . . .	2	56	9	521	19 202	410	823	13 034	36 361	17 114	53 491	4 842
3329	Other fabricated metal product mfg . . . . .	—	17	5	833	37 819	480	966	14 661	116 177	24 190	136 024	3 732
33299	All other fabricated metal product mfg . . . . .	—	15	3	f	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg . . . . .	—	2	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg . . . . .	1	85	29	3 233	114 421	1 909	3 891	53 983	263 501	222 024	474 945	11 908
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg . . . . .	—	6	4	564	18 083	382	775	8 403	44 168	39 382	81 186	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg . . . . .	—	6	4	564	18 083	382	775	8 403	44 168	39 382	81 186	D
3336	Engine, turbine, & power transmission equipment mfg . . . . .	4	5	5	f	D	D	D	D	D	D	D	2 837
33361	Engine, turbine, & power transmission equipment mfg . . . . .	4	5	5	f	D	D	D	D	D	D	D	2 837
3339	Other general-purpose machinery mfg . . . . .	—	23	9	f	D	D	D	D	D	D	D	3 188
33399	All other general-purpose machinery mfg . . . . .	—	13	4	576	21 841	277	579	10 574	50 641	27 239	78 814	D
334	Computer & electronic product mfg . . . . .	—	95	38	9 137	419 375	4 805	10 006	169 842	1 012 090	600 151	1 589 301	52 519
3342	Communications equipment mfg . . . . .	1	17	8	g	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg . . . . .	—	6	2	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg . . . . .	—	6	2	f	D	D	D	D	D	D	D	D
33429	Other communications equipment mfg . . . . .	—	6	1	g	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg . . . . .	—	6	1	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>NASSAU COUNTY, NY—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg .....	—	23	12	2 449	82 426	1 866	4 320	49 686	263 638	121 319	383 957	13 530
33441	Semiconductor & other electronic component mfg .....	—	23	12	2 449	82 426	1 866	4 320	49 686	263 638	121 319	383 957	13 530
334412	Bare printed circuit board mfg .....	—	5	2	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg .....	—	40	18	4 172	223 791	1 826	3 867	93 870	493 439	147 264	626 968	23 095
33451	Navigational, measuring, medical, & control instruments mfg .....	—	40	18	4 172	223 791	1 826	3 867	93 870	493 439	147 264	626 968	23 095
334511	Search, detection, navigation, & guidance instrument mfg .....	—	12	6	2 793	170 680	1 177	2 492	75 589	343 737	73 116	408 220	D
334515	Electricity measuring & testing instrument mfg .....	—	6	4	665	22 841	355	730	7 822	65 475	36 746	97 198	3 088
335	Electrical equipment, appliance, & component mfg .....	3	27	10	714	26 810	492	956	14 738	49 610	29 092	79 494	1 036
336	Transportation equipment mfg .....	—	36	10	h	D	D	D	D	D	D	D	13 824
3364	Aerospace product & parts mfg .....	—	12	5	h	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	—	12	5	h	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg .....	—	9	3	h	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	3	122	18	2 238	49 834	1 589	2 421	29 596	89 819	63 829	152 681	2 440
3371	Household & institutional furniture & kitchen cabinet mfg .....	6	87	7	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg .....	2	26	11	1 543	33 904	1 033	1 389	18 360	63 542	42 715	105 065	1 203
33721	Office furniture (including fixtures) mfg .....	2	26	11	1 543	33 904	1 033	1 389	18 360	63 542	42 715	105 065	1 203
337215	Showcase, partition, shelving, & locker mfg .....	1	16	10	1 469	32 039	976	1 288	17 105	59 777	39 840	98 395	1 034
339	Miscellaneous mfg .....	2	249	44	4 086	120 920	2 861	5 186	59 373	260 715	201 285	462 320	15 336
3391	Medical equipment & supplies mfg .....	3	111	16	1 660	57 068	1 017	1 890	25 900	118 813	59 126	179 311	9 127
33911	Medical equipment & supplies mfg .....	3	111	16	1 660	57 068	1 017	1 890	25 900	118 813	59 126	179 311	9 127
339112	Surgical & medical instrument mfg .....	1	9	4	700	26 732	335	609	8 278	56 565	30 721	89 284	5 142
3399	Other miscellaneous mfg ..	2	138	28	2 426	63 852	1 844	3 296	33 473	141 902	142 159	283 009	6 209
33991	Jewelry & silverware mfg .....	1	42	8	522	17 138	416	696	9 969	32 526	59 380	91 372	D
33999	All other miscellaneous mfg .....	1	28	8	1 128	24 442	908	1 616	12 679	62 355	42 446	104 284	1 775
339992	Musical instrument mfg .....	—	4	1	f	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg .....	1	17	7	f	D	D	D	D	D	D	D	1 017
<b>NEW YORK COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>3</b>	<b>5 165</b>	<b>1 199</b>	<b>93 784</b>	<b>2 551 835</b>	<b>63 917</b>	<b>113 980</b>	<b>1 336 417</b>	<b>6 420 862</b>	<b>7 591 151</b>	<b>14 028 933</b>	<b>236 261</b>
311	Food mfg .....	6	224	30	2 471	56 451	1 716	3 007	31 412	137 876	148 922	287 044	7 973
3118	Bakeries & tortilla mfg .....	6	167	18	1 636	31 681	1 062	1 788	18 568	75 831	52 911	128 842	4 977
31181	Bread & bakery product mfg .....	6	153	15	1 349	22 653	832	1 378	11 905	49 831	32 393	82 022	D
311811	Retail bakeries .....	6	113	6	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	5	39	9	642	11 794	377	766	6 293	24 992	17 666	42 588	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	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>NEW YORK COUNTY, NY—Con.</b>												
	<b>Manufacturing—Con.</b>												
313	Textile mills .....	3	300	79	6 384	264 461	4 186	8 857	109 195	751 944	1 061 046	1 846 661	35 164
3132	Fabric mills .....	3	48	14	1 250	50 508	933	2 040	22 022	114 651	200 647	316 027	8 155
31321	Broadwoven fabric mills ..	4	16	5	533	29 442	387	774	8 157	64 880	135 316	199 910	3 602
313210	Broadwoven fabric mills .....	4	16	5	533	29 442	387	774	8 157	64 880	135 316	199 910	3 602
31324	Knit fabric mills .....	1	13	5	508	16 085	392	983	10 880	35 759	50 071	86 483	3 502
3133	Textile & fabric finishing & fabric coating mills .....	2	244	62	5 022	212 298	3 149	6 681	85 785	633 958	854 357	1 521 228	26 579
31331	Textile & fabric finishing mills .....	2	242	61	h	D	D	D	D	D	D	D	D
313311	Broadwoven fabric finishing mills .....	3	218	54	4 423	181 789	2 922	6 330	79 234	518 559	713 490	1 262 441	22 656
314	Textile product mills .....	2	142	35	2 581	56 962	1 901	3 147	26 772	121 837	189 693	311 198	D
3141	Textile furnishings mills ....	1	44	12	1 220	32 929	851	1 513	12 070	76 000	152 934	228 600	D
31412	Curtain & linen mills .....	1	41	11	g	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills .....	2	23	5	f	D	D	D	D	D	D	D	D
3149	Other textile product mills ..	6	98	23	1 361	24 033	1 050	1 634	14 702	45 837	36 759	82 598	D
31499	All other textile product mills .....	6	72	20	1 182	21 126	903	1 455	12 892	40 575	31 694	72 271	D
314999	All other miscellaneous textile product mills ..	6	72	20	1 182	21 126	903	1 455	12 892	40 575	31 694	72 271	D
315	Apparel mfg .....	4	2 191	648	50 717	1 102 304	34 475	57 590	559 275	2 828 187	3 820 909	6 654 316	57 666
3151	Apparel knitting mills .....	3	36	12	1 150	25 810	990	1 783	17 652	51 891	90 325	151 466	1 845
31519	Other apparel knitting mills .....	2	27	12	g	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills .....	2	25	12	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg .....	4	1 934	598	46 718	1 021 735	31 361	52 091	507 445	2 654 888	3 614 249	6 263 935	53 200
31521	Cut & sew apparel contractors .....	7	1 224	338	23 360	313 539	19 136	31 201	237 025	506 354	165 384	663 013	21 390
315211	Men's & boys' cut & sew apparel contractors .....	4	19	10	593	8 212	560	848	6 964	15 828	2 119	17 921	291
315212	Women's, girls', & infants' cut & sew apparel contractors ..	7	1 205	328	22 767	305 327	18 576	30 353	230 061	490 526	163 265	645 092	21 099
31522	Men's & boys' cut & sew apparel mfg .....	1	84	24	1 746	46 588	1 294	2 075	30 643	173 797	289 088	471 808	1 999
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg .....	2	23	10	566	12 370	369	659	6 584	23 835	29 802	53 621	393
31523	Women's & girls' cut & sew apparel mfg .....	3	496	224	20 638	635 767	10 216	17 487	225 198	1 915 065	3 083 487	4 994 233	28 220
315231	Women's & girls' cut/ sew lingerie & nightwear mfg .....	2	33	9	734	19 691	574	1 140	12 309	77 249	103 058	186 230	446
315232	Women's & girls' cut & sew blouse & shirt mfg .....	5	89	37	2 651	67 169	1 770	2 887	29 114	266 517	471 028	732 375	4 232
315233	Women's & girls' cut & sew dress mfg .....	3	199	97	9 236	268 315	4 589	7 580	107 930	815 145	1 288 135	2 082 658	12 645
315234	Women's & girls' cut & sew suit, coat, skirt mfg .....	1	115	54	4 531	144 451	2 262	4 085	55 137	414 079	742 528	1 165 800	4 567
315239	Women's & girls' cut & sew other outerwear mfg .....	5	60	27	3 486	136 141	1 021	1 795	20 708	342 075	478 738	827 170	6 330
31529	Other cut & sew apparel mfg .....	5	130	12	974	25 841	715	1 328	14 579	59 672	76 290	134 881	1 591
315292	Fur & leather apparel mfg .....	6	109	6	557	15 298	371	684	7 769	42 314	68 903	109 999	1 348
3159	Apparel accessories & other apparel mfg .....	3	221	38	2 849	54 759	2 124	3 716	34 178	121 408	116 335	238 915	2 621
31599	Apparel accessories & other apparel mfg .....	3	221	38	2 849	54 759	2 124	3 716	34 178	121 408	116 335	238 915	2 621
315991	Hat, cap, & millinery mfg .....	2	47	9	f	D	D	D	D	D	D	D	D
315993	Men's & boys' neckwear mfg .....	4	28	10	607	13 080	463	837	7 895	27 898	18 849	46 986	D
315999	Other apparel accessories & other apparel mfg .....	3	143	17	1 426	29 022	993	1 743	16 956	68 850	77 128	145 811	1 609
316	Leather & allied product mfg ..	2	90	17	1 311	30 758	895	1 640	16 459	72 429	74 892	148 957	2 393
3169	Other leather & allied product mfg .....	2	59	11	f	D	D	D	D	D	D	D	D
31699	Other leather & allied product mfg .....	2	59	11	f	D	D	D	D	D	D	D	D
316992	Women's handbag & purse mfg .....	1	33	5	507	14 598	380	699	7 915	32 972	24 212	59 072	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>NEW YORK COUNTY, NY—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
322	Paper mfg .....	3	35	16	1 175	36 867	967	1 708	26 083	63 991	59 965	124 576	D
3222	Converted paper product mfg .....	3	34	16	g	D	D	D	D	D	D	D	D
32223	Stationery product mfg ..	2	19	10	957	29 724	822	1 415	21 867	50 149	38 439	88 600	D
322231	Die-cut paper & paperboard office supplies mfg .....	3	12	6	641	14 653	552	1 031	10 094	27 451	15 030	42 433	D
323	Printing & related support activities .....	4	834	164	11 978	481 452	8 424	17 050	295 587	1 065 336	558 147	1 618 314	D
3231	Printing & related support activities .....	4	834	164	11 978	481 452	8 424	17 050	295 587	1 065 336	558 147	1 618 314	D
32311	Printing .....	4	664	121	8 764	347 816	6 079	12 136	207 406	808 943	496 893	1 300 771	D
323110	Commercial lithographic printing ..	3	384	79	6 164	259 260	4 227	8 547	155 605	609 841	353 978	962 714	D
323114	Quick printing .....	1	80	7	572	20 330	388	730	12 523	38 998	26 463	65 341	D
32312	Support activities for printing .....	2	170	43	3 214	133 636	2 345	4 914	88 181	256 393	61 254	317 543	D
323121	Tradebinding & related work .....	2	32	11	621	19 252	529	1 054	14 200	34 565	5 032	39 585	D
323122	Prepress services .....	3	138	32	2 593	114 384	1 816	3 860	73 981	221 828	56 222	277 958	D
325	Chemical mfg .....	6	46	11	g	D	D	D	D	D	D	D	8 263
3256	Soap, cleaning compound, & toilet preparation mfg ..	9	20	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	2	80	14	1 045	25 886	753	1 353	15 738	65 699	38 659	104 795	8 056
334	Computer & electronic product mfg .....	4	88	15	1 204	48 419	683	1 387	20 909	114 663	76 029	188 836	11 401
3346	Mfg & reproducing magnetic & optical media ..	3	45	10	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media .....	3	45	10	f	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing .....	2	41	8	684	27 048	407	843	12 767	61 633	29 664	91 694	D
337	Furniture & related product mfg .....	5	107	10	910	27 238	739	1 362	19 154	47 970	44 628	92 660	2 156
3371	Household & institutional furniture & kitchen cabinet mfg .....	5	85	8	714	22 392	588	1 117	16 101	36 113	34 904	71 086	D
33712	Household & institutional furniture mfg .....	5	71	8	629	20 219	519	992	14 532	32 253	31 509	63 797	D
339	Miscellaneous mfg .....	2	905	143	11 608	334 146	7 685	14 011	168 757	939 970	1 312 226	2 224 052	23 817
3399	Other miscellaneous mfg ..	2	851	137	11 257	322 179	7 440	13 514	162 168	916 092	1 299 157	2 186 458	22 061
33991	Jewelry & silverware mfg .....	2	663	101	8 134	233 814	5 215	9 200	111 897	743 491	1 163 989	1 875 742	11 703
339911	Jewelry (except costume) mfg .....	2	491	76	6 496	194 443	4 107	7 357	92 254	643 307	886 369	1 502 181	9 976
339913	Jewelers' material & lapidary work mfg ..	1	99	12	912	24 091	605	992	11 264	67 750	255 833	319 271	1 473
339914	Costume jewelry & novelty mfg .....	5	71	12	f	D	D	D	D	D	D	D	D
33993	Doll, toy, & game mfg ...	-	12	2	578	13 596	483	1 060	10 085	28 916	26 517	56 541	D
33995	Sign mfg .....	4	43	12	775	30 123	486	976	14 305	55 308	43 592	99 148	2 156
339950	Sign mfg .....	4	43	12	775	30 123	486	976	14 305	55 308	43 592	99 148	2 156
33999	All other miscellaneous mfg .....	4	113	19	1 535	38 152	1 085	1 928	21 800	74 535	52 916	129 140	6 712
339993	Fastener, button, needle, & pin mfg....	2	31	8	533	12 667	385	727	7 422	25 397	21 881	49 200	4 420
339999	All other miscellaneous mfg .....	5	64	10	877	22 945	611	1 044	12 849	43 134	28 228	71 082	2 111
<b>NIAGARA COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>310</b>	<b>122</b>	<b>18 164</b>	<b>836 488</b>	<b>13 605</b>	<b>29 197</b>	<b>578 579</b>	<b>2 530 608</b>	<b>1 855 289</b>	<b>4 403 455</b>	<b>225 142</b>
311	Food mfg .....	-	25	7	656	20 052	538	1 094	15 136	228 937	102 445	329 593	4 191
322	Paper mfg .....	1	9	7	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg .....	2	7	5	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg .....	2	6	4	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>NIAGARA COUNTY, NY</b>													
<b>—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
325	Chemical mfg .....	3	29	19	2 280	123 318	1 487	3 272	72 917	525 843	460 943	987 069	105 951
3251	Basic chemical mfg .....	1	17	11	1 811	104 836	1 193	2 704	62 134	329 609	317 622	643 086	D
32518	Other basic inorganic chemical mfg .....	—	7	4	f	D	D	D	D	D	D	D	D
325181	Alkalies & chlorine mfg .....	—	2	2	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg .....	1	6	6	f	D	D	D	D	D	D	D	D
325199	All other basic organic chemical mfg .....	1	6	6	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	2	12	6	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg .....	2	11	6	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	2	8	5	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg .....	2	8	5	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	—	19	12	1 647	58 447	1 184	2 339	32 301	247 319	141 262	398 535	10 438
3279	Other nonmetallic mineral product mfg .....	—	11	8	g	D	D	D	D	D	D	D	D
32791	Abrasive product mfg ...	—	7	5	917	31 825	671	1 330	16 349	178 016	85 222	278 416	D
327910	Abrasive product mfg .	—	7	5	917	31 825	671	1 330	16 349	178 016	85 222	278 416	D
331	Primary metal mfg .....	—	9	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	—	70	24	2 226	69 833	1 766	3 669	45 283	161 516	91 909	253 362	9 129
3328	Coating, engraving, heat treating, & allied activities.	—	11	4	616	22 373	481	1 006	14 201	47 022	17 810	64 679	4 292
33281	Coating, engraving, heat treating, & allied activities.....	—	11	4	616	22 373	481	1 006	14 201	47 022	17 810	64 679	4 292
3329	Other fabricated metal product mfg .....	—	3	1	f	D	D	D	D	D	D	D	D
33291	Metal valve mfg .....	—	2	1	f	D	D	D	D	D	D	D	D
332911	Industrial valve mfg ...	—	2	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	—	40	16	1 350	48 394	918	1 954	29 584	97 802	82 925	180 687	6 955
3339	Other general-purpose machinery mfg .....	1	16	6	614	22 278	409	879	12 804	51 871	48 684	98 978	3 228
335	Electrical equipment, appliance, & component mfg .....	—	7	3	566	25 010	426	928	18 498	95 656	114 963	204 687	D
3359	Other electrical equipment & component mfg .....	—	3	3	f	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg .....	—	3	3	f	D	D	D	D	D	D	D	D
335991	Carbon & graphite product mfg .....	—	3	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	—	7	2	i	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	—	6	2	i	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg .....	—	3	2	i	D	D	D	D	D	D	D	D
336391	Motor vehicle air-conditioning mfg .....	—	1	1	i	D	D	D	D	D	D	D	D
<b>ONEIDA COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>280</b>	<b>102</b>	<b>15 079</b>	<b>447 130</b>	<b>10 928</b>	<b>18 794</b>	<b>282 979</b>	<b>1 170 556</b>	<b>1 328 768</b>	<b>2 485 283</b>	<b>71 732</b>
314	Textile product mills .....	—	5	3	f	D	D	D	D	D	D	D	D
3149	Other textile product mills ..	—	3	3	f	D	D	D	D	D	D	D	D
31499	All other textile product mills .....	—	3	3	f	D	D	D	D	D	D	D	D
322	Paper mfg .....	1	7	4	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg .....	1	7	4	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg .....	—	5	4	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	2	29	5	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	2	29	5	f	D	D	D	D	D	D	D	D
32311	Printing .....	2	27	5	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>ONEIDA COUNTY, NY—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
331	Primary metal mfg . . . . .	—	9	8	2 474	89 218	1 737	3 675	61 864	220 628	430 809	646 027	17 803
3314	Nonferrous metal (except aluminum) production & processing . . . . .	—	6	6	g	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, & alloying . . . . .	—	3	3	g	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, & extruding . . . . .	—	1	1	f	D	D	D	D	D	D	D	D
331422	Copper wire (except mechanical) drawing . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying . . . . .	—	3	3	f	D	D	D	D	D	D	D	D
331491	Other nonferrous metal rolling, drawing, & extruding . . . . .	—	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	—	42	12	714	20 161	496	906	11 263	46 736	50 891	97 793	3 852
333	Machinery mfg . . . . .	1	28	14	994	34 893	646	1 097	15 929	78 009	64 870	141 433	3 140
334	Computer & electronic product mfg . . . . .	2	15	8	1 350	50 215	618	1 104	17 040	111 628	67 530	173 228	8 676
3345	Navigational, measuring, medical, & control instruments mfg . . . . .	2	9	5	890	34 307	461	845	13 874	58 956	51 803	111 232	6 989
33451	Navigational, measuring, medical, & control instruments mfg . . . . .	2	9	5	890	34 307	461	845	13 874	58 956	51 803	111 232	6 989
334510	Electromedical & electrotherapeutic apparatus mfg . . . . .	1	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg . . . . .	8	12	7	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg . . . . .	8	8	7	976	25 263	600	1 166	12 062	47 816	155 110	215 985	6 011
33592	Communication & energy wire & cable mfg . . . . .	8	4	4	f	D	D	D	D	D	D	D	5 256
336	Transportation equipment mfg . . . . .	8	6	4	1 374	44 919	1 062	1 824	32 394	117 155	158 949	278 188	6 791
3361	Motor vehicle mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg . . . . .	5	2	2	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg . . . . .	5	2	2	f	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg . . . . .	9	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg . . . . .	—	7	4	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg . . . . .	—	6	4	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg . . . . .	—	5	3	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg . . . . .	—	5	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg . . . . .	—	26	7	h	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg . . . . .	—	13	4	g	D	D	D	D	D	D	D	D
33991	Jewelry & silverware mfg . . . . .	—	3	1	g	D	D	D	D	D	D	D	D
339912	Silverware & plated ware mfg . . . . .	—	3	1	g	D	D	D	D	D	D	D	D
<b>ONONDAGA COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing . . . . .</b>	<b>—</b>	<b>510</b>	<b>191</b>	<b>33 289</b>	<b>1 296 321</b>	<b>21 138</b>	<b>43 122</b>	<b>682 338</b>	<b>3 617 140</b>	<b>2 969 571</b>	<b>6 614 405</b>	<b>266 765</b>
311	Food mfg . . . . .	6	42	11	1 121	29 633	642	1 221	13 726	64 968	124 537	190 470	3 575
312	Beverage & tobacco product mfg . . . . .	—	8	3	g	D	D	D	D	D	D	D	D
3121	Beverage mfg . . . . .	—	8	3	g	D	D	D	D	D	D	D	D
31212	Breweries . . . . .	—	3	2	g	D	D	D	D	D	D	D	D
312120	Breweries . . . . .	—	3	2	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>ONONDAGA COUNTY, NY—Con.</b>												
	<b>Manufacturing—Con.</b>												
322	Paper mfg . . . . .	1	18	13	992	34 053	747	1 669	20 338	76 102	94 631	170 965	D
3222	Converted paper product mfg . . . . .	2	15	10	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg . . . . .	2	12	8	f	D	D	D	D	D	D	D	D
323	Printing & related support activities . . . . .	—	71	19	1 497	42 472	1 044	1 867	26 777	86 311	50 287	136 736	3 717
3231	Printing & related support activities . . . . .	—	71	19	1 497	42 472	1 044	1 867	26 777	86 311	50 287	136 736	3 717
32311	Printing . . . . .	—	60	17	g	D	D	D	D	D	D	D	2 958
323110	Commercial lithographic printing . . . . .	1	35	11	772	20 702	506	837	12 194	45 433	29 583	75 109	1 494
325	Chemical mfg . . . . .	2	23	8	g	D	D	D	D	D	D	D	17 790
3254	Pharmaceutical & medicine mfg . . . . .	—	8	3	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg . . . . .	—	8	3	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg . . . . .	—	7	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg . . . . .	—	18	11	1 432	36 429	1 070	2 037	23 604	102 110	85 626	190 770	12 813
3261	Plastics product mfg . . . . .	—	18	11	1 432	36 429	1 070	2 037	23 604	102 110	85 626	190 770	12 813
32619	Other plastics product mfg . . . . .	—	10	9	1 276	30 968	960	1 796	19 326	81 866	62 274	147 116	D
326199	All other plastics product mfg . . . . .	—	10	9	1 276	30 968	960	1 796	19 326	81 866	62 274	147 116	D
327	Nonmetallic mineral product mfg . . . . .	3	15	7	f	D	D	D	D	D	D	D	5 006
331	Primary metal mfg . . . . .	—	13	8	g	D	D	D	D	D	D	D	11 843
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 . . . . .	—	9	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg . . . . .	1	87	33	3 136	103 444	2 166	4 546	62 582	204 951	164 660	371 361	18 291
3323	Architectural & structural metals mfg . . . . .	—	23	9	711	23 693	408	866	12 588	20 651	46 185	66 288	2 198
3327	Machine shops, turned product, & screw, nut, & bolt mfg . . . . .	—	29	8	928	27 075	694	1 457	18 653	68 518	51 745	119 459	5 800
33272	Turned product & screw, nut, & bolt mfg . . . . .	—	4	3	f	D	D	D	D	D	D	D	D
332721	Precision turned product mfg . . . . .	—	3	2	f	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg . . . . .	—	13	4	738	26 549	560	1 225	19 131	52 586	33 027	88 639	4 971
33299	All other fabricated metal product mfg . . . . .	—	12	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg . . . . .	—	51	22	h	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg . . . . .	—	11	6	g	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg . . . . .	—	11	6	g	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg . . . . .	—	6	2	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg . . . . .	—	42	20	i	D	D	D	D	D	D	D	29 845
3342	Communications equipment mfg . . . . .	—	12	8	g	D	D	D	D	D	D	D	11 130
33422	Radio & TV broadcasting & wireless communications equipment mfg . . . . .	—	9	6	g	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg . . . . .	—	9	6	g	D	D	D	D	D	D	D	D



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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>ONONDAGA COUNTY, NY—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg—Con.												
3345	Navigational, measuring, medical, & control instruments mfg .....	—	9	6	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg .....	—	9	6	h	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg .....	—	3	2	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	—	20	10	g	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	3	14	7	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	3	14	7	f	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg .....	3	11	6	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	—	3	2	g	D	D	D	D	D	D	D	D
33593	Wiring device mfg .....	—	2	2	g	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	—	4	2	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	—	3	1	h	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg .....	—	1	1	h	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg .....	—	1	1	h	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	—	17	4	g	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg .....	—	11	2	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	—	4	2	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg .....	—	3	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	—	52	12	3 560	118 813	1 954	3 330	40 958	259 673	126 898	387 659	D
3391	Medical equipment & supplies mfg .....	—	19	4	h	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg .....	—	19	4	h	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg .....	—	5	3	h	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	—	33	8	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg .....	—	15	6	f	D	D	D	D	D	D	D	D
<b>ONTARIO COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>161</b>	<b>66</b>	<b>7 196</b>	<b>226 447</b>	<b>4 896</b>	<b>10 009</b>	<b>119 891</b>	<b>561 922</b>	<b>458 017</b>	<b>999 112</b>	<b>107 151</b>
312	Beverage & tobacco product mfg .....	—	2	2	f	D	D	D	D	D	D	D	D
3121	Beverage mfg .....	—	2	2	f	D	D	D	D	D	D	D	D
31213	Wineries .....	—	2	2	f	D	D	D	D	D	D	D	D
312130	Wineries .....	—	2	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	2	15	11	1 606	44 502	1 178	2 590	26 510	157 343	112 647	270 149	12 477
3261	Plastics product mfg .....	2	15	11	1 606	44 502	1 178	2 590	26 510	157 343	112 647	270 149	12 477
32614	Polystyrene foam product mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
326140	Polystyrene foam product mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	3	11	7	f	D	D	D	D	D	D	D	3 299
326199	All other plastics product mfg .....	3	11	7	f	D	D	D	D	D	D	D	3 299
332	Fabricated metal product mfg .....	—	36	9	905	31 075	644	1 306	20 937	68 227	50 531	118 205	5 507
333	Machinery mfg .....	1	17	8	f	D	D	D	D	D	D	D	3 330

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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>ONTARIO COUNTY, NY—Con.</b>												
	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg.....	-	17	8	954	29 515	617	1 289	13 198	32 433	63 796	98 411	2 599
3341	Computer & peripheral equipment mfg.....	-	4	4	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg.....	-	4	4	f	D	D	D	D	D	D	D	D
	<b>ORANGE COUNTY, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>346</b>	<b>107</b>	<b>j</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
322	Paper mfg.....	1	13	7	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg.....	1	12	6	f	D	D	D	D	D	D	D	D
325	Chemical mfg.....	1	18	10	1 392	42 831	926	2 000	22 774	132 353	116 853	247 362	7 952
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	8	3	f	D	D	D	D	D	D	D	2 963
32562	Toilet preparation mfg...	-	5	3	902	19 201	667	1 453	11 675	47 354	25 012	70 557	D
325620	Toilet preparation mfg.	-	5	3	902	19 201	667	1 453	11 675	47 354	25 012	70 557	D
326	Plastics & rubber products mfg.....	-	16	11	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg.....	-	14	9	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg.....	-	9	6	1 053	27 386	866	1 589	20 838	68 329	75 624	142 209	D
326199	All other plastics product mfg.....	-	6	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	1	45	11	1 065	43 674	828	1 772	32 514	104 500	232 075	340 294	10 188
335	Electrical equipment, appliance, & component mfg.....	2	18	7	g	D	D	D	D	D	D	D	6 585
3359	Other electrical equipment & component mfg.....	3	6	4	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	4	32	9	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	4	20	7	968	22 999	738	1 457	14 389	49 383	32 449	81 634	3 156
33999	All other miscellaneous mfg.....	4	11	6	914	22 040	697	1 393	13 837	46 474	29 551	75 876	2 908
339999	All other miscellaneous mfg.....	5	7	4	748	18 576	576	1 120	11 752	39 498	26 813	65 992	2 753
	<b>ORLEANS COUNTY, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>48</b>	<b>24</b>	<b>2 269</b>	<b>71 236</b>	<b>1 631</b>	<b>3 118</b>	<b>42 941</b>	<b>230 558</b>	<b>265 254</b>	<b>496 047</b>	<b>11 198</b>
333	Machinery mfg.....	-	7	3	528	21 401	336	757	11 653	85 779	111 695	196 895	D
	<b>OSWEGO COUNTY, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>108</b>	<b>32</b>	<b>5 082</b>	<b>204 893</b>	<b>3 929</b>	<b>8 303</b>	<b>140 238</b>	<b>534 491</b>	<b>1 692 895</b>	<b>2 210 695</b>	<b>61 563</b>
311	Food mfg.....	1	10	2	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg.....	-	2	1	f	D	D	D	D	D	D	D	D
31132	Chocolate & confectionery mfg from cacao beans.....	-	1	1	f	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans...	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg.....	-	5	4	1 141	48 986	900	2 060	34 254	153 468	135 059	281 261	D
3222	Converted paper product mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg.....	-	2	2	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
331	Primary metal mfg.....	-	2	2	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
331315	Aluminum sheet, plate, & foil mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	-	34	9	647	22 184	495	996	14 377	45 451	25 685	71 205	5 683
	<b>OTSEGO COUNTY, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>3</b>	<b>68</b>	<b>17</b>	<b>1 481</b>	<b>38 035</b>	<b>1 151</b>	<b>2 252</b>	<b>24 708</b>	<b>131 047</b>	<b>94 639</b>	<b>225 039</b>	<b>10 113</b>

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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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>PUTNAM COUNTY, NY</b>													
31-33	<b>Manufacturing ....</b>	1	74	14	1 595	60 346	967	1 976	27 845	163 104	95 764	258 946	12 722
<b>QUEENS COUNTY, NY</b>													
31-33	<b>Manufacturing ....</b>	4	2 043	541	50 505	1 433 206	36 736	71 600	806 795	3 566 255	2 829 028	6 412 827	495 890
311	Food mfg .....	2	261	25	4 759	144 637	2 711	4 656	58 558	282 202	242 601	524 383	22 019
3118	Bakeries & tortilla mfg .....	2	212	11	3 248	101 704	1 611	2 468	31 064	175 569	72 910	248 695	15 443
31181	Bread & bakery product mfg .....	2	205	10	3 150	99 053	1 528	2 319	29 141	168 968	69 176	238 359	15 298
311811	Retail bakeries .....	6	155	1	645	9 124	426	527	4 365	20 473	13 196	33 880	1 039
311812	Commercial bakeries ..	1	47	8	2 473	89 399	1 076	1 757	24 394	146 990	54 420	201 415	14 141
312	Beverage & tobacco product mfg .....	9	7	4	g	D	D	D	D	D	D	D	D
3121	Beverage mfg .....	9	7	4	g	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg .....	9	7	4	g	D	D	D	D	D	D	D	D
312111	Soft drink mfg .....	9	7	4	g	D	D	D	D	D	D	D	D
313	Textile mills .....	4	66	15	1 001	25 037	851	1 831	17 928	61 234	47 366	108 511	5 030
3133	Textile & fabric finishing & fabric coating mills .....	3	29	6	520	14 307	439	943	9 695	34 368	23 898	58 348	1 200
314	Textile product mills .....	3	83	22	1 682	38 717	1 216	2 372	21 932	58 694	57 484	118 764	4 929
3141	Textile furnishings mills .....	4	32	8	577	13 097	441	851	8 590	23 130	23 091	45 617	D
3149	Other textile product mills ..	3	51	14	1 105	25 620	775	1 521	13 342	35 564	34 393	73 147	D
31499	All other textile product mills .....	3	37	12	1 000	23 289	689	1 351	11 924	32 214	30 681	66 119	3 826
314999	All other miscellaneous textile product mills ..	3	37	12	1 000	23 289	689	1 351	11 924	32 214	30 681	66 119	3 826
315	Apparel mfg .....	3	528	169	12 699	230 247	10 697	19 128	159 312	459 565	423 876	886 361	15 183
3151	Apparel knitting mills .....	4	103	42	3 075	60 788	2 637	5 199	46 581	113 506	118 476	230 060	6 726
31519	Other apparel knitting mills .....	4	96	42	h	D	D	D	D	D	D	D	6 626
315191	Outerwear knitting mills .....	4	95	41	3 000	59 380	2 576	5 093	45 650	110 288	113 292	220 846	D
3152	Cut & sew apparel mfg ....	3	386	109	7 870	128 838	6 637	11 104	91 583	244 207	203 324	450 420	7 304
31521	Cut & sew apparel contractors .....	6	273	60	h	D	D	D	D	D	D	D	D
315212	Women's, girls', & infants' cut & sew apparel contractors ..	5	267	58	h	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg .....	4	25	14	1 500	28 250	1 048	2 092	19 044	67 051	53 471	120 146	D
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg .....	3	74	30	1 747	37 914	1 359	2 452	22 176	81 373	96 848	181 412	1 306
315239	Women's & girls' cut & sew other outerwear mfg .....	3	21	12	597	16 093	419	724	8 441	35 817	43 545	80 744	D
3159	Apparel accessories & other apparel mfg .....	-	39	18	1 754	40 621	1 423	2 825	21 148	101 852	102 076	205 881	1 153
31599	Apparel accessories & other apparel mfg .....	-	39	18	1 754	40 621	1 423	2 825	21 148	101 852	102 076	205 881	1 153
315993	Men's & boys' neckwear mfg .....	-	8	7	683	18 865	557	1 094	8 899	64 753	56 668	123 106	D
315999	Other apparel accessories & other apparel mfg .....	-	23	7	827	16 743	648	1 278	8 959	27 017	35 965	62 399	D
322	Paper mfg .....	6	36	19	2 188	78 342	1 493	2 751	40 459	138 996	184 054	324 583	10 815
3222	Converted paper product mfg .....	6	36	19	2 188	78 342	1 493	2 751	40 459	138 996	184 054	324 583	10 815
32221	Paperboard container mfg .....	7	11	8	844	33 887	599	1 278	20 059	67 848	103 713	172 295	D
32223	Stationery product mfg ..	2	8	7	732	23 560	576	1 023	13 523	42 535	40 283	82 718	D
322232	Envelope mfg .....	1	5	5	629	21 565	499	923	12 411	34 995	38 049	72 982	D
323	Printing & related support activities .....	8	179	38	3 757	163 348	2 900	5 643	110 553	682 335	210 043	893 617	D
3231	Printing & related support activities .....	8	179	38	3 757	163 348	2 900	5 643	110 553	682 335	210 043	893 617	D
32311	Printing .....	8	160	31	2 962	133 197	2 322	4 382	94 412	630 197	196 405	827 633	D
323110	Commercial lithographic printing ..	8	86	17	2 019	108 153	1 570	3 030	79 097	577 772	163 304	742 264	D
32312	Support activities for printing .....	7	19	7	795	30 151	578	1 261	16 141	52 138	13 638	65 984	D
323121	Tradebinding & related work .....	5	8	5	529	15 830	424	975	9 331	27 020	6 150	33 196	D
325	Chemical mfg .....	5	31	11	1 356	48 577	793	1 596	18 746	139 187	115 497	250 540	11 157
3256	Soap, cleaning compound, & toilet preparation mfg ..	6	16	6	814	30 085	525	1 052	11 374	80 261	73 024	150 169	D
32562	Toilet preparation mfg ..	6	10	3	692	24 356	448	942	9 322	60 065	52 052	108 746	6 628
325620	Toilet preparation mfg ..	6	10	3	692	24 356	448	942	9 322	60 065	52 052	108 746	6 628

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>QUEENS COUNTY, NY—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
326	Plastics & rubber products mfg .....	3	51	25	2 052	49 465	1 578	3 117	28 248	127 246	122 646	250 539	5 310
3261	Plastics product mfg .....	2	43	23	1 736	42 098	1 364	2 639	23 783	110 238	106 172	216 919	4 274
32619	Other plastics product mfg .....	2	27	17	1 256	29 310	984	2 067	17 235	82 088	66 778	149 723	3 469
326199	All other plastics product mfg .....	2	27	17	1 256	29 310	984	2 067	17 235	82 088	66 778	149 723	3 469
327	Nonmetallic mineral product mfg .....	1	47	13	757	25 269	569	1 158	17 604	62 681	68 991	131 553	D
332	Fabricated metal product mfg .....	2	179	43	2 814	84 227	1 958	3 830	48 909	164 241	130 214	295 836	D
3323	Architectural & structural metals mfg .....	2	79	21	1 371	40 493	959	1 822	24 081	87 762	76 784	163 279	2 645
33232	Ornamental & architectural metal products mfg .....	2	68	19	1 295	37 600	903	1 712	22 553	83 164	71 228	153 146	2 475
332322	Sheet metal work mfg .....	4	26	6	584	15 799	418	793	10 428	27 725	26 059	53 839	1 070
333	Machinery mfg .....	2	75	22	1 864	61 915	1 232	1 953	31 136	128 017	97 118	224 151	4 667
3339	Other general-purpose machinery mfg .....	4	21	9	593	18 983	353	653	8 912	39 866	27 644	67 034	D
334	Computer & electronic product mfg .....	3	45	15	1 489	53 609	706	1 381	17 920	126 517	73 050	197 457	D
3344	Semiconductor & other electronic component mfg .....	2	10	6	589	15 178	306	576	5 681	36 528	23 536	61 011	D
33441	Semiconductor & other electronic component mfg .....	2	10	6	589	15 178	306	576	5 681	36 528	23 536	61 011	D
334419	Other electronic component mfg .....	2	6	5	530	13 936	271	526	5 058	33 522	21 832	56 266	D
3345	Navigational, measuring, medical, & control instruments mfg .....	4	19	6	702	31 359	301	591	9 292	69 935	34 053	100 803	D
33451	Navigational, measuring, medical, & control instruments mfg .....	4	19	6	702	31 359	301	591	9 292	69 935	34 053	100 803	D
335	Electrical equipment, appliance, & component mfg .....	—	30	18	2 428	66 719	1 636	2 593	31 795	193 274	94 470	280 205	D
3351	Electric lighting equipment mfg .....	—	20	10	906	31 315	656	1 340	16 744	90 593	52 156	143 214	D
33512	Lighting fixture mfg .....	—	20	10	906	31 315	656	1 340	16 744	90 593	52 156	143 214	D
3359	Other electrical equipment & component mfg .....	—	5	5	1 437	32 181	919	1 133	13 113	97 203	37 789	126 891	D
33593	Wiring device mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	—	33	13	2 225	85 724	1 137	2 430	33 633	244 004	237 435	509 115	D
3363	Motor vehicle parts mfg .....	—	19	7	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 .....	2	9	4	644	24 372	515	1 087	15 502	55 922	27 761	82 518	D
33641	Aerospace product & parts mfg .....	2	9	4	644	24 372	515	1 087	15 502	55 922	27 761	82 518	D
337	Furniture & related product mfg .....	3	115	27	1 648	46 259	1 261	2 413	28 528	100 957	68 790	170 276	2 885
3371	Household & institutional furniture & kitchen cabinet mfg .....	5	80	12	811	20 585	676	1 370	15 438	48 509	33 980	83 320	2 028
33712	Household & institutional furniture mfg .....	5	54	10	634	16 227	527	1 089	12 085	40 579	27 807	69 168	D
3372	Office furniture (including fixtures) mfg .....	2	26	12	698	22 736	490	885	11 572	47 140	27 067	73 772	D
33721	Office furniture (including fixtures) mfg .....	2	26	12	698	22 736	490	885	11 572	47 140	27 067	73 772	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>QUEENS COUNTY, NY</b>													
<b>—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
339	Miscellaneous mfg.....	1	226	53	6 127	173 615	4 768	9 954	104 538	391 377	373 224	758 279	14 173
3391	Medical equipment & supplies mfg.....	6	80	6	502	14 489	352	579	6 912	31 428	15 119	46 852	1 600
33911	Medical equipment & supplies mfg.....	6	80	6	502	14 489	352	579	6 912	31 428	15 119	46 852	1 600
3399	Other miscellaneous mfg ..	1	146	47	5 625	159 126	4 416	9 375	97 626	359 949	358 105	711 427	12 573
33991	Jewelry & silverware mfg.....	—	47	17	1 889	50 992	1 481	3 011	29 845	115 213	214 329	324 818	3 557
339911	Jewelry (except costume) mfg.....	—	23	10	1 425	37 934	1 129	2 336	23 229	89 028	180 282	263 355	3 237
33994	Office supplies (except paper) mfg.....	—	7	1	f	D	D	D	D	D	D	D	D
33995	Sign mfg.....	4	42	7	641	19 887	487	987	12 201	33 948	24 633	57 996	D
339950	Sign mfg.....	4	42	7	641	19 887	487	987	12 201	33 948	24 633	57 996	D
33999	All other miscellaneous mfg.....	1	45	19	2 337	71 483	1 924	4 032	45 966	134 485	74 390	204 662	2 867
339992	Musical instrument mfg.....	—	2	1	f	D	D	D	D	D	D	D	D
339994	Broom, brush, & mop mfg.....	2	6	6	1 089	27 140	911	1 876	17 056	37 157	36 899	73 080	533
339999	All other miscellaneous mfg.....	1	28	10	f	D	D	D	D	D	D	D	D
<b>RENSELAER COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>110</b>	<b>43</b>	<b>5 023</b>	<b>169 053</b>	<b>3 030</b>	<b>6 016</b>	<b>84 809</b>	<b>301 710</b>	<b>448 971</b>	<b>767 221</b>	<b>39 718</b>
313	Textile mills.....	—	2	2	f	D	D	D	D	D	D	D	D
322	Paper mfg.....	4	6	6	526	19 068	375	826	11 830	25 348	45 433	71 868	8 552
325	Chemical mfg.....	4	3	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	—	18	8	541	19 473	422	854	13 869	41 843	31 478	73 666	6 115
333	Machinery mfg.....	—	8	3	995	29 346	252	462	7 133	23 204	57 439	91 575	D
3331	Agriculture, construction, & mining machinery mfg....	—	1	1	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
<b>RICHMOND COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>162</b>	<b>20</b>	<b>2 156</b>	<b>59 551</b>	<b>1 404</b>	<b>2 748</b>	<b>37 816</b>	<b>148 814</b>	<b>170 688</b>	<b>316 185</b>	<b>57 187</b>
<b>ROCKLAND COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>309</b>	<b>72</b>	<b>10 739</b>	<b>413 332</b>	<b>6 958</b>	<b>14 387</b>	<b>215 551</b>	<b>2 642 449</b>	<b>1 005 826</b>	<b>3 649 805</b>	<b>201 365</b>
311	Food mfg.....	7	40	6	704	18 624	481	1 110	11 247	51 803	64 627	116 510	9 973
325	Chemical mfg.....	—	22	15	4 689	198 951	2 887	6 165	103 976	2 134 729	467 270	2 598 594	155 362
3254	Pharmaceutical & medicine mfg.....	—	8	7	3 710	168 900	2 185	4 568	87 514	1 967 201	367 952	2 335 494	145 663
32541	Pharmaceutical & medicine mfg.....	—	8	7	3 710	168 900	2 185	4 568	87 514	1 967 201	367 952	2 335 494	145 663
325412	Pharmaceutical preparation mfg.....	—	7	6	h	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg ..	1	9	6	906	28 122	636	1 470	14 881	158 881	96 125	251 771	9 208
32562	Toilet preparation mfg....	—	4	3	f	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg....	—	4	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	4	15	9	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg.....	4	12	9	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	—	17	6	773	30 717	371	686	9 611	103 265	87 878	193 630	7 603

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
	<b>ROCKLAND COUNTY, NY—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>													
336	Transportation equipment mfg .....	-	4	2	f	D	D	D	D	D	D	D	D	
3364	Aerospace product & parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D	
33641	Aerospace product & parts mfg .....	-	1	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	
339	Miscellaneous mfg .....	1	42	9		655	20 527	481	917	13 141	35 541	26 628	62 211	2 138
	<b>ST. LAWRENCE COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>85</b>	<b>31</b>		<b>5 311</b>	<b>201 398</b>	<b>3 994</b>	<b>8 150</b>	<b>137 701</b>	<b>606 331</b>	<b>999 241</b>	<b>1 602 232</b>	<b>113 299</b>
311	Food mfg .....	-	17	7		629	13 992	507	819	9 349	50 759	154 966	205 510	6 651
3115	Dairy product mfg .....	-	7	6		524	11 834	438	724	8 351	40 584	139 847	180 461	D
31151	Dairy product (except frozen) mfg .....	-	7	6		524	11 834	438	724	8 351	40 584	139 847	180 461	D
322	Paper mfg .....	2	6	5	f	D	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills .....	2	5	5	f	D	D	D	D	D	D	D	D	D
32212	Paper mills .....	2	5	5	f	D	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	2	5	5	f	D	D	D	D	D	D	D	D	D
331	Primary metal mfg .....	-	5	5	g	D	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing ..	-	3	3	g	D	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing .....	-	3	3	g	D	D	D	D	D	D	D	D	D
331312	Primary aluminum production .....	-	2	2	g	D	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D	D
	<b>SARATOGA COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>139</b>	<b>40</b>		<b>6 400</b>	<b>263 210</b>	<b>4 662</b>	<b>9 640</b>	<b>166 283</b>	<b>720 515</b>	<b>788 132</b>	<b>1 513 873</b>	<b>100 484</b>
322	Paper mfg .....	-	8	6		1 366	55 949	1 107	2 215	42 130	151 896	188 948	342 184	D
3221	Pulp, paper, & paperboard mills .....	-	4	4	g	D	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	4	4	g	D	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	4	4	g	D	D	D	D	D	D	D	D	D
323	Printing & related support activities .....	-	16	4		1 055	29 501	965	2 011	26 987	77 795	39 812	116 515	1 211
3231	Printing & related support activities .....	-	16	4		1 055	29 501	965	2 011	26 987	77 795	39 812	116 515	1 211
32311	Printing .....	-	14	4	g	D	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	8	3		963	26 935	895	1 912	25 947	74 325	37 611	110 835	1 017
325	Chemical mfg .....	-	8	3	g	D	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	D
32521	Resin & synthetic rubber mfg .....	-	2	2	g	D	D	D	D	D	D	D	D	D
325212	Synthetic rubber mfg ..	-	2	2	g	D	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	13	4		564	24 578	439	908	18 471	100 803	138 586	241 472	6 372

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>SCHENECTADY COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>119</b>	<b>40</b>	<b>5 134</b>	<b>212 182</b>	<b>3 759</b>	<b>7 878</b>	<b>142 850</b>	<b>756 449</b>	<b>872 449</b>	<b>1 687 751</b>	<b>46 857</b>
325	Chemical mfg .....	-	3	1	f	D	D	D	D	D	D	D	D
3251	Basic chemical mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
325192	Cyclic crude & intermediate mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	9	5	g	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
<b>SCHOHARIE COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>28</b>	<b>6</b>	<b>1 024</b>	<b>24 009</b>	<b>817</b>	<b>1 525</b>	<b>17 261</b>	<b>128 905</b>	<b>53 412</b>	<b>180 838</b>	<b>15 109</b>
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
31324	Knit fabric mills .....	-	1	1	f	D	D	D	D	D	D	D	D
313249	Other knit fabric & lace mills .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>SCHUYLER COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>17</b>	<b>6</b>	<b>574</b>	<b>18 345</b>	<b>395</b>	<b>843</b>	<b>12 683</b>	<b>49 887</b>	<b>34 668</b>	<b>88 837</b>	<b>D</b>
<b>SENECA COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>3</b>	<b>31</b>	<b>8</b>	<b>2 037</b>	<b>71 178</b>	<b>1 362</b>	<b>2 699</b>	<b>43 403</b>	<b>220 990</b>	<b>246 032</b>	<b>457 235</b>	<b>25 369</b>
333	Machinery mfg .....	-	7	3	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
33391	Pump & compressor mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>STEBEN COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>74</b>	<b>28</b>	<b>8 070</b>	<b>264 177</b>	<b>6 029</b>	<b>11 381</b>	<b>168 994</b>	<b>803 826</b>	<b>523 956</b>	<b>1 338 535</b>	<b>53 170</b>
311	Food mfg .....	-	8	3	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg .....	-	11	5	g	D	D	D	D	D	D	D	D
3271	Clay product & refractory mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
32711	Pottery, ceramics, & plumbing fixture mfg ...	-	2	1	f	D	D	D	D	D	D	D	D
327113	Porcelain electrical supply mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .....	-	7	3	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg .....	-	7	3	f	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg .....	-	6	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	5	1	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg .....	-	3	1	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg .....	-	3	1	f	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg .....	-	3	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	6	3	g	D	D	D	D	D	D	D	4 091
3339	Other general-purpose machinery mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
33391	Pump & compressor mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg .....	-	1	1	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>STEUBEN COUNTY, NY —Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg.....	-	3	3	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
3351	Electric lighting equipment mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
33511	Electric lamp bulb & part mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
335110	Electric lamp bulb & part mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	-	4	2	f	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg..	-	4	2	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg.....	-	4	2	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg.....	-	4	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg.....	-	4	3	871	24 949	732	1 645	14 678	52 412	31 156	83 029	D
3372	Office furniture (including fixtures) mfg.....	-	4	3	871	24 949	732	1 645	14 678	52 412	31 156	83 029	D
33721	Office furniture (including fixtures) mfg.....	-	4	3	871	24 949	732	1 645	14 678	52 412	31 156	83 029	D
337211	Wood office furniture mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
<b>SUFFOLK COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>2 535</b>	<b>671</b>	<b>70 317</b>	<b>2 433 516</b>	<b>44 634</b>	<b>88 186</b>	<b>1 179 144</b>	<b>7 090 436</b>	<b>4 944 328</b>	<b>12 009 151</b>	<b>418 044</b>
311	Food mfg.....	1	172	25	3 683	109 109	2 116	3 644	55 604	356 691	236 218	595 354	22 002
3118	Bakeries & tortilla mfg.....	-	127	12	2 792	82 731	1 537	2 508	41 007	287 120	147 386	435 833	16 720
31181	Bread & bakery product mfg.....	-	120	11	2 601	77 344	1 434	2 293	38 425	274 684	137 325	413 079	15 031
311811	Retail bakeries.....	3	89	2	555	8 471	300	442	4 024	18 562	10 642	29 289	861
311812	Commercial bakeries ..	-	31	9	2 046	68 873	1 134	1 851	34 401	256 122	126 683	383 790	14 170
315	Apparel mfg.....	2	63	26	1 836	33 336	1 330	2 474	21 585	128 657	79 825	212 259	3 523
3152	Cut & sew apparel mfg....	2	43	20	g	D	D	D	D	D	D	D	1 147
31521	Cut & sew apparel contractors ..	7	24	11	f	D	D	D	D	D	D	D	493
31523	Women's & girls' cut & sew apparel mfg.....	1	12	8	746	13 907	378	723	8 205	87 203	49 938	141 440	454
322	Paper mfg.....	4	46	22	2 074	68 620	1 555	3 138	41 924	196 420	231 194	430 043	19 400
3222	Converted paper product mfg.....	5	45	21	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg.....	1	17	9	666	25 441	440	885	11 497	46 423	73 220	120 395	D
32223	Stationery product mfg ..	-	9	4	f	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg.....	9	10	7	644	19 532	553	1 108	15 131	90 126	108 106	198 706	D
322291	Sanitary paper product mfg.....	9	7	5	552	17 467	469	1 008	13 562	86 860	106 507	193 149	D
323	Printing & related support activities.....	2	351	72	5 359	181 345	3 909	7 507	109 789	416 599	245 228	662 582	29 377
3231	Printing & related support activities.....	2	351	72	5 359	181 345	3 909	7 507	109 789	416 599	245 228	662 582	29 377
32311	Printing.....	2	310	68	5 012	169 149	3 626	6 992	100 728	386 555	237 694	625 105	27 802
323110	Commercial lithographic printing ..	1	166	44	3 427	119 903	2 413	4 743	71 215	245 552	158 448	404 875	20 352
325	Chemical mfg.....	-	88	41	7 831	256 456	4 282	8 761	91 873	1 821 359	1 170 171	3 010 049	79 418
3254	Pharmaceutical & medicine mfg.....	1	39	21	3 996	131 244	2 203	4 058	50 598	457 822	360 604	823 589	52 379
32541	Pharmaceutical & medicine mfg.....	1	39	21	3 996	131 244	2 203	4 058	50 598	457 822	360 604	823 589	52 379
325412	Pharmaceutical preparation mfg.....	-	26	16	h	D	D	D	D	D	D	D	41 481
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	25	8	h	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg...	-	15	7	h	D	D	D	D	D	D	D	20 464
325620	Toilet preparation mfg.	-	15	7	h	D	D	D	D	D	D	D	20 464
326	Plastics & rubber products mfg.....	4	93	43	3 807	104 131	2 862	5 308	59 792	234 204	233 287	467 580	17 728
3261	Plastics product mfg.....	4	81	37	3 600	97 934	2 704	4 970	56 492	221 765	222 883	444 846	D
32619	Other plastics product mfg.....	5	60	30	2 930	76 260	2 293	4 098	44 931	168 565	154 054	323 857	13 508
326199	All other plastics product mfg.....	5	58	30	h	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>SUFFOLK COUNTY, NY—Con.</b>												
	<b>Manufacturing—Con.</b>												
327	Nonmetallic mineral product mfg .....	3	79	13	878	29 407	686	1 316	20 397	73 480	61 589	135 633	5 168
3273	Cement & concrete product mfg .....	2	48	9	581	20 641	457	875	14 270	54 793	48 754	103 935	3 692
332	Fabricated metal product mfg .....	1	502	91	8 362	304 235	5 880	11 734	170 113	627 578	428 930	1 045 529	33 328
3321	Forging & stamping .....	—	26	7	516	19 135	397	806	11 676	36 827	27 480	66 788	811
33211	Forging & stamping .....	—	26	7	516	19 135	397	806	11 676	36 827	27 480	66 788	811
3323	Architectural & structural metals mfg .....	1	102	25	2 062	75 372	1 442	2 957	44 184	149 407	107 865	254 652	4 568
33231	Plate work & fabricated structural product mfg ..	1	23	5	537	18 936	332	661	10 235	34 172	28 313	62 697	D
33232	Ornamental & architectural metal products mfg .....	1	79	20	1 525	56 436	1 110	2 296	33 949	115 235	79 552	191 955	D
332322	Sheet metal work mfg .	1	46	15	1 045	42 226	797	1 681	26 817	82 264	43 782	125 552	2 541
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	1	262	34	3 539	128 929	2 564	5 045	76 972	274 965	136 429	399 135	18 186
33271	Machine shops .....	1	217	20	2 311	91 068	1 678	3 400	54 488	196 723	73 544	260 834	14 809
332710	Machine shops .....	1	217	20	2 311	91 068	1 678	3 400	54 488	196 723	73 544	260 834	14 809
33272	Turned product & screw, nut, & bolt mfg .....	1	45	14	1 228	37 861	886	1 645	22 484	78 242	62 885	138 301	3 377
332721	Precision turned product mfg .....	—	31	7	716	21 293	564	1 028	14 190	37 472	37 061	72 425	1 070
332722	Boil, nut, screw, rivet, & washer mfg .....	3	14	7	512	16 568	322	617	8 294	40 770	25 824	65 876	2 307
3329	Other fabricated metal product mfg .....	—	36	6	870	32 294	580	1 313	17 067	62 251	78 167	140 892	4 679
33291	Metal valve mfg .....	—	10	4	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	2	202	48	3 321	127 309	2 123	4 132	63 739	261 125	215 408	473 535	12 537
3332	Industrial machinery mfg ..	1	46	17	g	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg .....	—	37	14	g	D	D	D	D	D	D	D	D
333298	All other industrial machinery mfg .....	—	18	8	645	26 791	363	726	10 727	60 012	70 681	128 015	D
3333	Commercial & service industry machinery mfg ..	1	29	13	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg .....	1	29	13	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg .....	1	64	7	568	24 605	392	689	13 394	48 604	32 354	79 602	2 821
33351	Metalworking machinery mfg .....	1	64	7	568	24 605	392	689	13 394	48 604	32 354	79 602	2 821
334	Computer & electronic product mfg .....	—	210	105	17 561	744 723	9 025	17 847	285 923	1 830 380	1 097 340	2 883 843	142 625
3341	Computer & peripheral equipment mfg .....	—	16	6	h	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg .....	—	16	6	h	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg .....	—	9	4	h	D	D	D	D	D	D	D	D
3342	Communications equipment mfg .....	—	43	25	h	D	D	D	D	D	D	D	D
33421	Telephone apparatus mfg .....	—	6	4	g	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg .....	—	6	4	g	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	—	29	21	h	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	—	29	21	h	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	1	79	40	4 257	151 438	2 309	4 082	57 800	263 364	212 048	505 796	22 857
33441	Semiconductor & other electronic component mfg .....	1	79	40	4 257	151 438	2 309	4 082	57 800	263 364	212 048	505 796	22 857
334412	Bare printed circuit board mfg .....	1	18	6	f	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	—	13	7	g	D	D	D	D	D	D	D	D
334416	Electronic coil, transformer, & other inductor mfg .....	—	9	6	f	D	D	D	D	D	D	D	D
334419	Other electronic component mfg .....	2	20	8	522	13 501	260	485	5 310	28 678	12 443	40 914	857

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>SUFFOLK COUNTY, NY—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
334	Computer & electronic product mfg—Con.												
3345	Navigational, measuring, medical, & control instruments mfg .....	1	63	30	4 673	224 895	2 339	6 016	98 450	417 233	292 163	722 212	18 820
33451	Navigational, measuring, medical, & control instruments mfg .....	1	63	30	4 673	224 895	2 339	6 016	98 450	417 233	292 163	722 212	18 820
334510	Electromedical & electrotherapeutic apparatus mfg .....	6	7	3	608	30 127	207	496	7 834	31 759	20 742	54 107	5 605
334511	Search, detection, navigation, & guidance instrument mfg .....	—	15	6	1 939	98 143	1 087	1 992	50 962	197 876	67 451	267 321	D
334515	Electricity measuring & testing instrument mfg .....	—	7	4	556	32 753	176	1 802	13 114	66 820	107 841	187 101	4 129
334519	Other measuring & controlling device mfg .....	1	7	4	578	26 976	300	569	11 334	35 220	25 779	56 484	1 065
3346	Mfg & reproducing magnetic & optical media .	—	7	4	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media .....	—	7	4	f	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing .....	—	4	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	1	83	41	2 956	95 762	1 869	3 889	43 782	224 376	244 543	470 389	9 190
3353	Electrical equipment mfg ..	3	32	12	1 327	44 551	841	1 840	22 517	89 288	56 201	146 070	D
33531	Electrical equipment mfg .....	3	32	12	1 327	44 551	841	1 840	22 517	89 288	56 201	146 070	D
335314	Relay & industrial control mfg .....	4	21	6	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	—	32	21	1 200	38 664	780	1 549	15 980	102 913	154 412	258 462	3 382
33599	All other electrical equipment & component mfg .....	—	19	14	f	D	D	D	D	D	D	D	D
335999	All other miscellaneous electrical equipment & component mfg .....	—	19	14	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	3	100	38	h	D	D	D	D	D	D	D	14 038
3363	Motor vehicle parts mfg ...	3	42	15	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg .....	6	15	10	f	D	D	D	D	D	D	D	4 005
336322	Other motor vehicle electrical & electronic equipment mfg .....	7	13	9	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	2	30	17	g	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	2	30	17	g	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg .....	2	23	12	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	3	158	27	2 094	57 491	1 568	3 002	35 449	117 856	89 034	207 823	4 590
3371	Household & institutional furniture & kitchen cabinet mfg .....	3	110	9	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg .....	2	45	17	1 150	35 533	830	1 525	20 111	70 997	46 443	117 870	3 119
33721	Office furniture (including fixtures) mfg .....	2	45	17	1 150	35 533	830	1 525	20 111	70 997	46 443	117 870	3 119
337215	Showcase, partition, shelving, & locker mfg .....	—	28	14	875	25 027	637	1 134	13 918	50 445	35 213	85 919	2 425
339	Miscellaneous mfg .....	4	228	52	5 155	146 125	3 551	7 201	77 474	378 528	221 016	599 205	17 497
3391	Medical equipment & supplies mfg .....	5	108	20	2 769	82 510	1 788	3 730	40 319	250 103	109 228	357 505	10 185
33911	Medical equipment & supplies mfg .....	5	108	20	2 769	82 510	1 788	3 730	40 319	250 103	109 228	357 505	10 185
339112	Surgical & medical instrument mfg .....	7	16	8	1 433	40 383	914	2 014	20 413	97 014	57 696	154 831	6 125
339113	Surgical appliance & supplies mfg .....	2	10	4	709	21 657	452	990	10 480	102 393	27 073	129 555	1 866

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>SUFFOLK COUNTY, NY</b>													
<b>—Con.</b>													
<b>31-33</b>	<b>Manufacturing—</b>												
	<b>Con.</b>												
339	Miscellaneous mfg—Con.												
3399	Other miscellaneous mfg ..	3	120	32	2 386	63 615	1 763	3 471	37 155	128 425	111 788	241 700	7 312
33995	Sign mfg .....	2	56	15	1 153	32 815	815	1 581	18 348	60 115	42 886	103 709	2 356
339950	Sign mfg .....	2	56	15	1 153	32 815	815	1 581	18 348	60 115	42 886	103 709	2 356
33999	All other miscellaneous mfg .....	5	25	9	754	17 643	599	1 164	11 347	40 757	35 475	76 750	3 572
339999	All other miscellaneous mfg .....	6	18	6	f	D	D	D	D	D	D	D	2 203
<b>SULLIVAN COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>6</b>	<b>54</b>	<b>7</b>	<b>f</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>2 830</b>
<b>TIOGA COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>48</b>	<b>14</b>	<b>5 055</b>	<b>239 792</b>	<b>1 694</b>	<b>3 477</b>	<b>42 424</b>	<b>1 200 337</b>	<b>376 157</b>	<b>1 569 591</b>	<b>42 770</b>
334	Computer & electronic product mfg .....	—	4	3	h	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	—	2	2	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	—	2	2	f	D	D	D	D	D	D	D	D
334412	Bare printed circuit board mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg .....	—	2	1	h	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg .....	—	2	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
<b>TOMPKINS COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>94</b>	<b>25</b>	<b>3 613</b>	<b>123 582</b>	<b>2 619</b>	<b>5 298</b>	<b>76 171</b>	<b>303 091</b>	<b>357 202</b>	<b>667 080</b>	<b>32 829</b>
333	Machinery mfg .....	—	5	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	1	18	6	646	24 118	422	804	11 898	63 128	101 216	164 224	5 622
336	Transportation equipment mfg .....	—	5	3	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	—	4	2	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
<b>ULSTER COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>215</b>	<b>56</b>	<b>6 449</b>	<b>183 698</b>	<b>4 355</b>	<b>8 367</b>	<b>105 145</b>	<b>450 548</b>	<b>325 788</b>	<b>785 020</b>	<b>26 190</b>
323	Printing & related support activities .....	—	22	6	726	20 749	567	1 140	13 874	50 692	55 115	104 618	4 596
3231	Printing & related support activities .....	—	22	6	726	20 749	567	1 140	13 874	50 692	55 115	104 618	4 596
32311	Printing .....	—	21	6	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	—	8	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	1	39	9	1 174	32 219	866	1 613	20 717	71 593	37 403	110 064	4 926
3322	Cutlery & handtool mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg ..	—	1	1	f	D	D	D	D	D	D	D	D
332211	Cutlery & flatware (except precious) mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	—	15	8	913	30 668	447	898	13 610	93 421	31 788	126 344	7 923
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	—	3	3	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	—	3	3	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>ULSTER COUNTY, NY</b> —Con.												
<b>31-33</b>	<b>Manufacturing—</b> <b>Con.</b>												
334	Computer & electronic product mfg.....	2	12	6	665	20 459	375	587	9 089	48 586	41 265	89 790	1 535
	<b>WARREN COUNTY, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>84</b>	<b>19</b>	<b>4 014</b>	<b>144 029</b>	<b>2 634</b>	<b>5 437</b>	<b>72 807</b>	<b>423 592</b>	<b>405 074</b>	<b>820 663</b>	<b>35 063</b>
322	Paper mfg.....	—	4	2	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
322121	Paper (except newsprint) mills.....	—	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	—	13	3	1 304	42 869	757	1 467	14 894	66 549	73 007	130 790	3 298
3391	Medical equipment & supplies mfg.....	—	8	2	g	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg.....	—	8	2	g	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg.....	—	3	2	g	D	D	D	D	D	D	D	D
	<b>WASHINGTON COUNTY, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>99</b>	<b>37</b>	<b>3 852</b>	<b>122 720</b>	<b>2 912</b>	<b>5 642</b>	<b>78 596</b>	<b>347 226</b>	<b>291 098</b>	<b>642 030</b>	<b>39 690</b>
322	Paper mfg.....	—	9	8	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	—	9	4	848	22 441	670	1 286	15 190	51 033	30 401	90 820	2 178
3391	Medical equipment & supplies mfg.....	—	3	3	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg.....	—	3	3	f	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg.....	—	3	3	f	D	D	D	D	D	D	D	D
	<b>WAYNE COUNTY, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>145</b>	<b>54</b>	<b>8 041</b>	<b>221 760</b>	<b>5 883</b>	<b>12 173</b>	<b>141 468</b>	<b>752 903</b>	<b>674 807</b>	<b>1 435 180</b>	<b>61 921</b>
311	Food mfg.....	1	17	9	1 316	32 385	1 005	2 261	21 360	327 367	244 377	571 304	11 974
3114	Fruit & vegetable preserving & specialty food mfg.....	1	11	7	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying.....	1	8	5	791	18 859	591	1 373	12 718	206 214	171 043	376 990	D
311421	Fruit & vegetable canning.....	1	8	5	791	18 859	591	1 373	12 718	206 214	171 043	376 990	D
326	Plastics & rubber products mfg.....	1	14	7	931	30 423	718	1 557	22 372	86 999	75 503	162 600	8 776
3261	Plastics product mfg.....	1	12	6	f	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
326111	Unsupported plastics bag mfg.....	—	3	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	—	42	10	817	21 667	633	1 209	14 584	29 417	57 842	100 925	16 726
333	Machinery mfg.....	—	15	7	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	—	3	3	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg.	—	3	3	f	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refig equip mfg.....	—	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	—	3	3	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg.....	—	1	1	g	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>WAYNE COUNTY, NY—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
339	Miscellaneous mfg.....	—	3	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	—	3	1	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
339991	Gasket, packing, & sealing device mfg...	—	1	1	f	D	D	D	D	D	D	D	D
<b>WESTCHESTER COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>869</b>	<b>206</b>	<b>18 797</b>	<b>626 298</b>	<b>13 047</b>	<b>26 002</b>	<b>342 293</b>	<b>1 431 671</b>	<b>1 548 045</b>	<b>3 012 031</b>	<b>106 127</b>
311	Food mfg.....	2	112	13	1 677	52 072	1 213	2 722	32 492	139 121	335 841	477 266	11 081
3118	Bakeries & tortilla mfg.....	3	83	7	879	21 583	618	1 417	13 209	49 681	35 142	84 761	D
31181	Bread & bakery product mfg .....	2	78	7	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	2	21	6	559	15 937	432	1 139	10 421	34 431	25 049	59 419	D
323	Printing & related support activities.....	3	138	18	1 369	43 509	939	1 775	23 942	87 597	55 075	142 522	9 232
3231	Printing & related support activities.....	3	138	18	1 369	43 509	939	1 775	23 942	87 597	55 075	142 522	9 232
32311	Printing .....	3	119	17	1 280	40 657	867	1 656	21 966	82 230	53 900	136 018	8 848
323110	Commercial lithographic printing ..	2	59	9	643	22 827	433	843	12 912	42 752	27 716	70 288	D
325	Chemical mfg .....	3	44	15	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	2	28	13	1 541	48 498	1 231	2 189	28 585	94 957	97 064	192 455	11 481
3261	Plastics product mfg .....	2	27	12	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	1	17	8	968	31 056	790	1 187	16 951	54 973	38 302	94 620	7 436
326199	All other plastics product mfg .....	1	17	8	968	31 056	790	1 187	16 951	54 973	38 302	94 620	7 436
332	Fabricated metal product mfg .....	1	104	28	1 929	60 807	1 473	3 057	38 832	141 783	82 952	225 463	5 823
3329	Other fabricated metal product mfg.....	1	17	7	f	D	D	D	D	D	D	D	1 348
333	Machinery mfg .....	1	35	12	1 037	36 669	666	1 347	17 059	81 063	57 673	136 991	D
334	Computer & electronic product mfg.....	3	65	29	2 927	105 993	1 830	3 656	47 284	215 538	144 150	364 293	18 663
3344	Semiconductor & other electronic component mfg .....	1	18	11	1 404	44 497	1 009	2 009	22 466	89 884	51 355	141 552	4 781
33441	Semiconductor & other electronic component mfg .....	1	18	11	1 404	44 497	1 009	2 009	22 466	89 884	51 355	141 552	4 781
3345	Navigational, measuring, medical, & control instruments mfg .....	4	28	10	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg .....	4	28	10	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	2	28	14	1 336	47 306	944	1 892	27 203	108 572	84 399	192 831	6 006
3359	Other electrical equipment & component mfg .....	3	9	5	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	1	113	28	2 698	87 864	1 729	3 304	40 426	156 031	191 659	371 404	10 098
3391	Medical equipment & supplies mfg .....	1	42	11	1 008	36 246	550	951	12 392	78 463	65 223	143 512	3 691
33911	Medical equipment & supplies mfg .....	1	42	11	1 008	36 246	550	951	12 392	78 463	65 223	143 512	3 691
3399	Other miscellaneous mfg ..	2	71	17	1 690	51 618	1 179	2 353	28 034	77 568	126 436	227 892	6 407
33991	Jewelry & silverware mfg .....	—	12	3	f	D	D	D	D	D	D	D	D
339911	Jewelry (except costume) mfg .....	—	7	3	f	D	D	D	D	D	D	D	D
<b>WYOMING COUNTY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>55</b>	<b>28</b>	<b>3 011</b>	<b>79 149</b>	<b>2 400</b>	<b>4 809</b>	<b>54 736</b>	<b>195 719</b>	<b>186 335</b>	<b>371 919</b>	<b>17 196</b>
323	Printing & related support activities.....	8	5	3	f	D	D	D	D	D	D	D	323
3231	Printing & related support activities.....	8	5	3	f	D	D	D	D	D	D	D	323
32311	Printing .....	8	5	3	f	D	D	D	D	D	D	D	323
323113	Commercial screen printing.....	8	3	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>YATES COUNTY, NY</b>												
	<b>Manufacturing . . . .</b>	-	27	6	522	15 646	351	639	9 500	91 224	132 781	225 212	5 444

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

<sup>2</sup>Industries with 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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>AKRON, NY</b>												
	<b>Manufacturing . . . .</b>	5	11	8	1 255	41 938	789	1 635	21 295	107 163	117 795	227 377	9 110
<b>31-33</b>	<b>ALBANY, NY</b>												
	<b>Manufacturing . . . .</b>	2	86	21	1 933	62 560	1 412	2 932	36 417	157 323	261 260	420 461	14 750
<b>31-33</b>	<b>ALBION, NY</b>												
	<b>Manufacturing . . . .</b>	2	8	7	740	27 224	523	1 046	16 902	109 146	141 251	250 537	3 595
<b>31-33</b>	<b>AMHERST TOWN BALANCE, NY *</b>												
	<b>Manufacturing . . . .</b>	1	92	27	3 524	109 852	2 332	4 756	65 005	247 985	214 642	456 149	16 330
339	Miscellaneous mfg . . . . .	-	19	6	1 153	31 821	737	1 660	17 542	95 003	73 001	163 626	D
3399	Other miscellaneous mfg . .	-	7	2	f	D	D	D	D	D	D	D	169
33994	Office supplies (except paper) mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
339944	Carbon paper & inked ribbon mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
<b>31-33</b>	<b>AMITYVILLE, NY *</b>												
	<b>Manufacturing . . . .</b>	1	48	18	1 513	53 910	1 038	1 894	25 192	147 436	66 201	205 496	10 470
332	Fabricated metal product mfg . . . . .	1	7	3	562	24 163	392	692	11 404	68 325	8 208	71 053	3 365
<b>31-33</b>	<b>AMSTERDAM, NY</b>												
	<b>Manufacturing . . . .</b>	1	50	16	2 089	54 154	1 598	3 374	33 180	128 831	112 158	244 070	7 299
<b>31-33</b>	<b>AUBURN, NY</b>												
	<b>Manufacturing . . . .</b>	-	64	27	3 087	92 613	2 344	4 584	61 626	275 943	269 122	556 297	17 681
333	Machinery mfg . . . . .	-	7	2	f	D	D	D	D	D	D	D	1 337
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refig equip mfg . . . . .	-	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg . . . . .	-	3	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg . . . . .	-	2	2	f	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg . . . . .	-	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	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>BABYLON TOWN BALANCE, NY *</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>747</b>	<b>193</b>	<b>15 725</b>	<b>532 592</b>	<b>11 134</b>	<b>21 897</b>	<b>305 861</b>	<b>1 166 916</b>	<b>851 594</b>	<b>2 004 036</b>	<b>68 062</b>
311	Food mfg.....	3	33	6	506	11 487	352	602	7 127	30 940	27 609	58 786	1 427
315	Apparel mfg.....	-	21	10	526	11 050	379	623	5 590	26 407	32 890	59 655	2 524
322	Paper mfg.....	-	14	6	702	23 452	491	1 056	11 844	50 880	61 583	114 077	5 460
3222	Converted paper product mfg.....	-	14	6	702	23 452	491	1 056	11 844	50 880	61 583	114 077	5 460
323	Printing & related support activities.....	2	97	20	1 389	47 090	1 024	2 062	29 488	105 361	65 439	170 770	6 575
3231	Printing & related support activities.....	2	97	20	1 389	47 090	1 024	2 062	29 488	105 361	65 439	170 770	6 575
32311	Printing.....	2	84	17	1 228	41 795	890	1 835	25 588	93 681	61 126	154 855	5 703
323110	Commercial lithographic printing ..	2	45	10	811	28 599	568	1 222	17 318	64 262	44 099	108 470	4 408
325	Chemical mfg.....	1	13	5	549	20 259	334	542	6 528	140 265	60 975	196 593	10 417
326	Plastics & rubber products mfg.....	4	38	14	998	31 242	755	1 521	17 987	60 554	63 603	129 445	5 589
3261	Plastics product mfg.....	4	35	12	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg.....	4	23	9	759	22 979	583	1 164	13 928	41 076	45 304	92 015	4 124
326199	All other plastics product mfg.....	4	23	9	759	22 979	583	1 164	13 928	41 076	45 304	92 015	4 124
332	Fabricated metal product mfg.....	1	207	41	3 311	122 131	2 448	5 120	74 550	241 120	178 874	419 841	14 120
3323	Architectural & structural metals mfg.....	1	35	8	680	26 023	529	1 103	17 484	58 896	34 520	93 032	1 223
33232	Ornamental & architectural metal products mfg.....	1	29	7	613	24 285	478	986	16 463	54 174	30 174	83 967	1 173
332322	Sheet metal work mfg.....	-	20	6	532	21 710	425	881	15 043	47 483	23 469	70 696	1 049
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	1	117	16	1 209	45 828	919	1 973	30 026	84 810	49 041	130 742	7 440
33271	Machine shops.....	1	99	10	918	37 390	682	1 502	23 953	69 255	40 016	106 177	6 260
332710	Machine shops.....	1	99	10	918	37 390	682	1 502	23 953	69 255	40 016	106 177	6 260
3329	Other fabricated metal product mfg.....	-	13	4	667	26 028	431	1 017	12 786	47 469	66 074	113 964	3 668
33291	Metal valve mfg.....	-	6	3	f	D	D	D	D	D	D	D	3 188
333	Machinery mfg.....	1	72	19	1 220	49 874	751	1 440	22 771	87 900	71 624	157 754	3 451
3332	Industrial machinery mfg ..	-	19	7	502	21 837	306	642	10 689	35 147	29 776	63 964	993
334	Computer & electronic product mfg.....	1	54	25	3 149	120 598	2 130	4 041	73 809	205 240	128 321	316 874	9 745
3344	Semiconductor & other electronic component mfg.....	3	22	7	732	19 520	583	1 158	10 674	44 746	27 037	70 563	4 831
33441	Semiconductor & other electronic component mfg.....	3	22	7	732	19 520	583	1 158	10 674	44 746	27 037	70 563	4 831
3345	Navigational, measuring, medical, & control instruments mfg.....	1	17	10	1 847	81 960	1 283	2 328	55 238	125 984	84 671	194 653	2 982
33451	Navigational, measuring, medical, & control instruments mfg.....	1	17	10	1 847	81 960	1 283	2 328	55 238	125 984	84 671	194 653	2 982
334511	Search, detection, navigation, & guidance instrument mfg.....	-	4	2	f	D	D	D	D	D	D	D	32
335	Electrical equipment, appliance, & component mfg.....	2	23	9	564	18 744	347	685	8 487	41 752	29 436	72 950	1 067
337	Furniture & related product mfg.....	2	42	10	774	18 821	627	1 273	12 526	42 145	35 765	77 477	1 228
339	Miscellaneous mfg.....	1	46	10	878	25 108	575	1 113	12 762	49 825	39 040	88 599	1 724
	<b>BATAVIA, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>50</b>	<b>18</b>	<b>1 986</b>	<b>59 224</b>	<b>1 394</b>	<b>2 814</b>	<b>33 279</b>	<b>155 700</b>	<b>267 663</b>	<b>418 058</b>	<b>12 789</b>
332	Fabricated metal product mfg.....	-	12	3	545	20 307	310	635	9 690	40 364	23 920	62 431	1 202

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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>BATH, NY</b>													
31-33	Manufacturing ....	-	7	2	820	26 926	717	1 130	22 022	71 454	51 267	123 822	D
335	Electrical equipment, appliance, & component mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3351	Electric lighting equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33511	Electric lamp bulb & part mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
335110	Electric lamp bulb & part mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BEACON, NY</b>													
31-33	Manufacturing ....	-	16	5	519	12 143	456	664	6 890	37 554	25 406	62 628	520
<b>BETHLEHEM TOWN, NY</b>													
31-33	Manufacturing ....	-	11	3	1 092	53 360	852	1 760	38 507	377 096	202 718	579 216	D
325	Chemical mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>BINGHAMTON, NY</b>													
31-33	Manufacturing ....	-	79	36	5 994	199 593	4 173	7 410	99 132	718 099	524 403	1 266 449	16 724
311	Food mfg .....	-	8	6	f	D	D	D	D	D	D	D	D
3119	Other food mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
31191	Snack food mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
311919	Other snack food mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities .....	-	13	2	678	17 854	523	1 072	11 748	30 749	20 930	52 349	1 053
3231	Printing & related support activities .....	-	13	2	678	17 854	523	1 072	11 748	30 749	20 930	52 349	1 053
32311	Printing .....	-	8	2	f	D	D	D	D	D	D	D	D
323117	Book printing .....	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
3259	Other chemical product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, & chemical mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	9	4	g	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	-	9	8	866	16 941	556	827	6 511	36 602	21 957	58 028	797
<b>BRIGHTON TOWN, NY</b>													
31-33	Manufacturing ....	5	31	9	681	24 135	489	1 020	15 349	64 018	37 350	98 089	3 223
<b>BROOKHAVEN TOWN BALANCE, NY *</b>													
31-33	Manufacturing ....	2	267	38	3 896	115 692	2 559	4 949	57 981	279 526	253 334	531 035	20 756
325	Chemical mfg .....	-	7	3	546	21 196	381	723	10 993	66 364	29 861	95 618	D
334	Computer & electronic product mfg .....	2	24	8	575	17 054	280	520	6 044	37 103	26 531	65 529	3 461
336	Transportation equipment mfg .....	-	9	4	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	5	2	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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>BUFFALO, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>466</b>	<b>169</b>	<b>20 307</b>	<b>748 399</b>	<b>14 499</b>	<b>29 005</b>	<b>462 933</b>	<b>2 491 343</b>	<b>2 047 310</b>	<b>4 527 213</b>	<b>174 239</b>
311	Food mfg.....	-	49	30	3 644	130 244	2 673	5 337	81 908	790 358	729 693	1 527 158	59 401
3112	Grain & oilseed milling ....	-	5	5	758	39 458	598	1 635	30 831	420 770	282 969	705 178	D
3114	Fruit & vegetable preserving & specialty food mfg.....	-	4	2	f	D	D	D	D	D	D	D	D
31141	Frozen food mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg.....	-	18	6	f	D	D	D	D	D	D	D	2 022
31181	Bread & bakery product mfg.....	-	17	6	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries .	-	12	5	f	D	D	D	D	D	D	D	D
315	Apparel mfg.....	-	11	4	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg....	-	4	2	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg.....	1	13	6	527	16 464	373	785	11 210	46 547	40 068	89 410	5 024
3222	Converted paper product mfg.....	1	13	6	527	16 464	373	785	11 210	46 547	40 068	89 410	5 024
323	Printing & related support activities.....	2	72	13	1 100	33 333	817	1 565	20 955	72 132	39 782	112 775	4 000
3231	Printing & related support activities.....	2	72	13	1 100	33 333	817	1 565	20 955	72 132	39 782	112 775	4 000
32311	Printing.....	2	59	11	976	29 941	717	1 385	18 462	65 124	38 651	104 638	3 502
323110	Commercial lithographic printing..	2	36	7	543	16 896	397	772	10 264	34 095	24 395	58 489	2 032
325	Chemical mfg.....	-	22	9	1 191	58 245	616	1 210	21 376	305 883	130 163	433 599	11 621
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.....	1	26	14	1 016	27 402	671	1 192	14 151	53 627	44 548	97 887	2 404
3261	Plastics product mfg.....	-	20	10	f	D	D	D	D	D	D	D	1 552
32619	Other plastics product mfg.....	-	14	7	537	15 847	293	542	6 546	37 572	25 847	63 377	1 060
326199	All other plastics product mfg.....	-	13	7	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg.....	2	9	5	735	22 145	540	1 001	14 011	57 220	20 834	79 925	5 309
3271	Clay product & refractory mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
331	Primary metal mfg.....	-	6	5	1 208	59 965	898	1 955	40 815	119 698	256 766	381 087	D
3314	Nonferrous metal (except aluminum) production & processing.....	-	3	2	f	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, & alloying ...	-	1	1	f	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, & extruding .	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	2	91	26	1 889	64 966	1 385	2 731	39 040	129 821	80 940	210 224	10 189
3327	Machine shops, turned product, & screw, nut, & bolt mfg.....	-	35	8	763	27 382	592	1 196	17 383	60 643	27 272	87 598	5 882
333	Machinery mfg.....	2	48	18	2 442	99 998	1 412	2 822	48 425	241 203	173 782	412 546	20 157
3335	Metalworking machinery mfg.....	7	14	5	f	D	D	D	D	D	D	D	4 127
33351	Metalworking machinery mfg.....	7	14	5	f	D	D	D	D	D	D	D	4 127
333513	Machine tool (metal forming types) mfg...	9	4	2	f	D	D	D	D	D	D	D	2 742
3339	Other general-purpose machinery mfg.....	-	14	5	715	34 641	369	719	13 910	108 363	75 704	187 982	D
33391	Pump & compressor mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg.....	-	1	1	f	D	D	D	D	D	D	D	D

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<b>31-33</b>	<b>BUFFALO, NY—Con.</b>													
	<b>Manufacturing—Con.</b>													
336	Transportation equipment mfg .....	1	13	8	h	D	D	D	D	D	D	D	D	
3363	Motor vehicle parts mfg ...	1	7	5	g	D	D	D	D	D	D	D	D	
33635	Motor vehicle transmission & power train parts mfg .....	—	2	1	g	D	D	D	D	D	D	D	D	
336350	Motor vehicle transmission & power train parts mfg .....	—	2	1	g	D	D	D	D	D	D	D	D	
339	Miscellaneous mfg .....	1	44	12		1 634	50 225	1 128	2 136	23 539	143 350	86 719	230 035	4 089
3391	Medical equipment & supplies mfg .....	—	18	3		853	21 421	561	1 057	10 572	74 738	50 784	127 120	2 243
33911	Medical equipment & supplies mfg .....	—	18	3		853	21 421	561	1 057	10 572	74 738	50 784	127 120	2 243
3399	Other miscellaneous mfg ..	1	26	9		781	28 804	567	1 079	12 967	68 612	35 935	102 915	1 846
	<b>CAMDEN, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	—	7	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	
3314	Nonferrous metal (except aluminum) production & processing .....	—	1	1	f	D	D	D	D	D	D	D	D	
33142	Copper rolling, drawing, extruding, & alloying ...	—	1	1	f	D	D	D	D	D	D	D	D	
331422	Copper wire (except mechanical) drawing ..	—	1	1	f	D	D	D	D	D	D	D	D	
	<b>CANANDAIGUA, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	—	25	8		1 397	44 667	860	1 680	15 999	68 857	98 669	164 842	3 901
312	Beverage & tobacco product mfg .....	—	1	1	f	D	D	D	D	D	D	D	D	
3121	Beverage mfg .....	—	1	1	f	D	D	D	D	D	D	D	D	
31213	Wineries .....	—	1	1	f	D	D	D	D	D	D	D	D	
312130	Wineries .....	—	1	1	f	D	D	D	D	D	D	D	D	
	<b>CANASTOTA, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	3	14	6		595	17 503	478	986	11 914	30 521	101 912	134 189	6 003
	<b>CARMEL TOWN, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	1	21	2		552	22 937	242	439	7 771	67 685	41 660	109 845	D
	<b>CHEEKTOWAGA TOWN BALANCE, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	1	103	45		5 147	172 194	3 430	6 719	92 573	433 728	368 893	800 409	20 594
311	Food mfg .....	3	10	6		796	18 794	586	1 042	10 785	56 080	105 270	163 415	2 742
332	Fabricated metal product mfg .....	—	14	6		1 013	36 628	686	1 410	19 614	86 725	50 949	136 222	4 566
3324	Boiler, tank, & shipping container mfg .....	—	3	2	f	D	D	D	D	D	D	D	D	
33241	Power boiler & heat exchanger mfg .....	—	2	2	f	D	D	D	D	D	D	D	D	
332410	Power boiler & heat exchanger mfg .....	—	2	2	f	D	D	D	D	D	D	D	D	
333	Machinery mfg .....	—	10	5		624	24 612	457	1 069	16 812	74 328	43 521	115 669	D
334	Computer & electronic product mfg .....	3	10	7		803	33 251	431	719	13 160	65 015	32 538	96 349	3 495
3345	Navigational, measuring, medical, & control instruments mfg .....	3	4	3		535	26 422	216	419	8 329	49 917	19 352	68 817	D
33451	Navigational, measuring, medical, & control instruments mfg .....	3	4	3		535	26 422	216	419	8 329	49 917	19 352	68 817	D
	<b>CHESTNUT RIDGE, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	1	11	5		1 009	39 795	626	1 578	19 203	134 042	98 181	234 201	13 191
	<b>CHILI TOWN, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	—	28	15		1 653	65 996	1 158	2 316	41 843	286 274	465 273	752 498	7 445

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<b>CICERO TOWN BALANCE, NY *</b>													
31-33	Manufacturing ....	-	14	8	950	27 938	475	869	10 551	57 243	141 070	198 714	5 881
<b>CLARENCE TOWN, NY</b>													
31-33	Manufacturing ....	2	37	7	1 196	46 666	724	1 687	19 644	85 468	57 905	143 908	7 929
335	Electrical equipment, appliance, & component mfg .....	1	4	2	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	1	3	2	f	D	D	D	D	D	D	D	D
33591	Battery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
335912	Primary battery mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
<b>CLARKSTOWN TOWN BALANCE, NY *</b>													
31-33	Manufacturing ....	1	87	18	1 807	60 804	952	1 906	24 868	377 465	154 692	533 052	13 630
325	Chemical mfg .....	-	4	3	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>CLAY TOWN BALANCE, NY *</b>													
31-33	Manufacturing ....	-	29	14	2 066	53 645	1 681	3 183	34 861	113 254	89 357	205 784	8 513
334	Computer & electronic product mfg .....	-	4	3	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	-	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
<b>CLIFTON PARK TOWN, NY</b>													
31-33	Manufacturing ....	2	25	9	606	18 728	434	918	11 370	40 758	44 936	86 057	D
<b>COBLESKILL, NY</b>													
31-33	Manufacturing ....	-	6	2	f	D	D	D	D	D	D	D	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
31324	Knit fabric mills .....	-	1	1	f	D	D	D	D	D	D	D	D
313249	Other knit fabric & lace mills .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>COHOES, NY</b>													
31-33	Manufacturing ....	-	25	9	816	31 476	537	1 087	16 271	54 732	61 975	115 933	D
<b>COLONIE TOWN BALANCE, NY *</b>													
31-33	Manufacturing ....	-	70	26	2 311	69 229	1 283	2 525	33 302	198 300	279 939	485 964	20 956
<b>CORINTH, NY</b>													
31-33	Manufacturing ....	-	3	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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>CORNING, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>16</b>	<b>8</b>	<b>1 176</b>	<b>42 068</b>	<b>919</b>	<b>1 919</b>	<b>28 880</b>	<b>131 021</b>	<b>43 366</b>	<b>174 917</b>	<b>D</b>
327	Nonmetallic mineral product mfg .....	-	7	4	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .	-	6	3	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg .....	-	6	3	f	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg .....	-	6	3	f	D	D	D	D	D	D	D	D
<b>CORTLAND, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>38</b>	<b>15</b>	<b>3 557</b>	<b>96 888</b>	<b>2 539</b>	<b>5 634</b>	<b>61 597</b>	<b>287 213</b>	<b>233 369</b>	<b>503 375</b>	<b>70 788</b>
325	Chemical mfg .....	9	4	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	4	2	g	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, & allied activities .	-	1	1	f	D	D	D	D	D	D	D	D
33281	Coating, engraving, heat treating, & allied activities .....	-	1	1	f	D	D	D	D	D	D	D	D
332812	Metal coating/ engraving (exc jewelry/silverware)/ allied services .....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333999	All other miscellaneous general-purpose machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>DEPEW, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>34</b>	<b>10</b>	<b>1 647</b>	<b>55 767</b>	<b>1 235</b>	<b>2 340</b>	<b>37 854</b>	<b>109 254</b>	<b>87 891</b>	<b>201 773</b>	<b>13 470</b>
323	Printing & related support activities .....	-	5	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities .....	-	5	2	f	D	D	D	D	D	D	D	D
32311	Printing .....	-	5	2	f	D	D	D	D	D	D	D	D
323117	Book printing .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>DE WITT TOWN BALANCE, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>111</b>	<b>44</b>	<b>7 226</b>	<b>342 141</b>	<b>5 317</b>	<b>12 806</b>	<b>236 453</b>	<b>888 190</b>	<b>886 751</b>	<b>1 772 706</b>	<b>83 185</b>
332	Fabricated metal product mfg .....	-	25	10	1 097	33 298	793	1 654	21 709	81 445	54 975	135 548	6 637
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	-	10	4	717	20 857	540	1 103	14 591	55 543	40 528	95 384	D
33272	Turned product & screw, nut, & bolt mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
332721	Precision turned product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	-	15	7	961	40 427	333	552	10 815	95 875	49 323	143 269	7 014
336	Transportation equipment mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	1	1	h	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
<b>DUNKIRK, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>17</b>	<b>7</b>	<b>1 657</b>	<b>57 266</b>	<b>1 279</b>	<b>2 552</b>	<b>37 212</b>	<b>138 438</b>	<b>250 328</b>	<b>404 193</b>	<b>15 298</b>
311	Food mfg .....	2	4	3	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying .....	-	1	1	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning .....	-	1	1	f	D	D	D	D	D	D	D	D

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<b>EAST AURORA, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>10</b>	<b>4</b>	<b>g</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
333	Machinery mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
333995	Fluid power cylinder & actuator mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>EAST FISHKILL TOWN, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>14</b>	<b>5</b>	<b>h</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
334	Computer & electronic product mfg .....	-	2	2	h	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	-	1	1	h	D	D	D	D	D	D	D	D
<b>EAST HILLS, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>5</b>	<b>2</b>	<b>f</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
339	Miscellaneous mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>EAST SYRACUSE, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>25</b>	<b>10</b>	<b>1 248</b>	<b>61 420</b>	<b>714</b>	<b>1 505</b>	<b>23 033</b>	<b>97 492</b>	<b>78 265</b>	<b>166 376</b>	<b>D</b>
325	Chemical mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>ELLENVILLE, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>8</b>	<b>4</b>	<b>847</b>	<b>23 658</b>	<b>640</b>	<b>1 210</b>	<b>14 059</b>	<b>42 008</b>	<b>20 126</b>	<b>63 123</b>	<b>D</b>
332	Fabricated metal product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3322	Cutlery & handtool mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
332211	Cutlery & flatware (except precious) mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>ELMA TOWN, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>15</b>	<b>4</b>	<b>1 267</b>	<b>36 788</b>	<b>1 018</b>	<b>2 022</b>	<b>24 710</b>	<b>143 520</b>	<b>105 770</b>	<b>244 522</b>	<b>12 859</b>
336	Transportation equipment mfg .....	-	3	1	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>ELMIRA, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>30</b>	<b>16</b>	<b>2 531</b>	<b>70 257</b>	<b>1 488</b>	<b>3 091</b>	<b>37 626</b>	<b>221 899</b>	<b>106 888</b>	<b>334 531</b>	<b>17 698</b>
323	Printing & related support activities .....	-	5	1	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities .....	-	5	1	f	D	D	D	D	D	D	D	D
32311	Printing .....	-	5	1	f	D	D	D	D	D	D	D	D
323116	Manifold business form printing .....	-	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

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>ELMIRA HEIGHTS, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>13</b>	<b>7</b>	<b>2 124</b>	<b>81 435</b>	<b>1 620</b>	<b>3 167</b>	<b>52 005</b>	<b>188 275</b>	<b>159 298</b>	<b>355 610</b>	<b>12 807</b>
333	Machinery mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
333512	Machine tool (metal cutting types) mfg ...	-	1	1	g	D	D	D	D	D	D	D	D
<b>ENDICOTT, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>26</b>	<b>9</b>	<b>i</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
334	Computer & electronic product mfg .....	2	4	3	i	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg .....	-	1	1	i	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg .....	-	1	1	i	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg .....	-	1	1	i	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	9	3	2	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	9	3	2	g	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	9	1	1	f	D	D	D	D	D	D	D	D
<b>EVANS TOWN, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>12</b>	<b>6</b>	<b>1 681</b>	<b>45 835</b>	<b>1 410</b>	<b>2 551</b>	<b>33 168</b>	<b>89 142</b>	<b>46 638</b>	<b>141 397</b>	<b>7 439</b>
315	Apparel mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
315991	Hat, cap, & millinery mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>FAIRPORT, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>18</b>	<b>5</b>	<b>754</b>	<b>30 432</b>	<b>549</b>	<b>1 224</b>	<b>14 791</b>	<b>78 391</b>	<b>49 661</b>	<b>125 350</b>	<b>10 579</b>
<b>FALCONER, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>17</b>	<b>10</b>	<b>1 287</b>	<b>42 844</b>	<b>926</b>	<b>2 007</b>	<b>28 882</b>	<b>74 255</b>	<b>67 564</b>	<b>151 693</b>	<b>7 887</b>
332	Fabricated metal product mfg .....	-	5	4	551	22 197	447	999	16 884	54 643	38 777	94 019	D
<b>FARMINGDALE, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>74</b>	<b>21</b>	<b>2 227</b>	<b>82 182</b>	<b>1 636</b>	<b>3 005</b>	<b>39 276</b>	<b>176 451</b>	<b>160 512</b>	<b>340 186</b>	<b>9 158</b>
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
339	Miscellaneous mfg .....	2	10	5	710	17 054	564	1 068	8 870	43 021	25 818	67 918	1 738
3399	Other miscellaneous mfg ..	2	7	3	603	13 433	487	900	6 319	35 511	22 715	57 253	D
<b>FORT EDWARD, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>9</b>	<b>4</b>	<b>611</b>	<b>25 880</b>	<b>451</b>	<b>813</b>	<b>15 997</b>	<b>99 161</b>	<b>73 952</b>	<b>169 376</b>	<b>D</b>

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>FREDONIA, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>6</b>	<b>1</b>	<b>f</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
311	Food mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying .....	-	1	1	f	D	D	D	D	D	D	D	D
311421	Fruit & vegetable canning .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>FREEPORT, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>122</b>	<b>41</b>	<b>3 330</b>	<b>92 650</b>	<b>2 354</b>	<b>4 307</b>	<b>50 983</b>	<b>175 742</b>	<b>216 765</b>	<b>392 362</b>	<b>12 792</b>
323	Printing & related support activities.....	6	14	5	606	15 641	453	701	8 880	30 315	16 335	46 662	3 883
3231	Printing & related support activities.....	6	14	5	606	15 641	453	701	8 880	30 315	16 335	46 662	3 883
32311	Printing .....	7	12	4	f	D	D	D	D	D	D	D	D
<b>FULTON, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>21</b>	<b>10</b>	<b>2 168</b>	<b>82 836</b>	<b>1 676</b>	<b>3 634</b>	<b>57 342</b>	<b>422 128</b>	<b>278 655</b>	<b>692 654</b>	<b>22 510</b>
311	Food mfg .....	1	2	2	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
31132	Chocolate & confectionery mfg from cacao beans .....	-	1	1	f	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans ...	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg .....	-	1	1	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
<b>GARDEN CITY, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>3</b>	<b>29</b>	<b>10</b>	<b>952</b>	<b>33 177</b>	<b>632</b>	<b>1 086</b>	<b>12 991</b>	<b>76 856</b>	<b>77 105</b>	<b>155 259</b>	<b>4 118</b>
<b>GATES TOWN, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>82</b>	<b>36</b>	<b>10 752</b>	<b>443 315</b>	<b>7 048</b>	<b>11 185</b>	<b>189 364</b>	<b>612 841</b>	<b>1 530 402</b>	<b>2 185 942</b>	<b>184 764</b>
326	Plastics & rubber products mfg .....	3	10	5	752	14 377	601	1 098	9 228	36 508	26 320	62 861	D
3261	Plastics product mfg .....	3	9	5	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	4	6	4	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg.....	4	6	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	17	7	552	17 529	427	989	12 447	33 408	16 810	50 106	6 517
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	-	16	6	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	21	13	8 571	389 879	5 319	7 752	155 029	491 419	1 453 380	1 987 462	D
3333	Commercial & service industry machinery mfg ..	-	3	3	i	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg .....	-	3	3	i	D	D	D	D	D	D	D	D
333315	Photographic & photocopying equipment mfg .....	-	2	2	i	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg .....	1	12	8	f	D	D	D	D	D	D	D	2 387
33351	Metalworking machinery mfg .....	1	12	8	f	D	D	D	D	D	D	D	2 387
<b>GEDDES TOWN BALANCE, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>7</b>	<b>1</b>	<b>f</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
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

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<b>GENEVA, NY *</b>													
31-33	Manufacturing ....	5	16	4	682	20 376	538	933	11 022	76 547	29 995	88 919	D
<b>GLEN COVE, NY</b>													
31-33	Manufacturing ....	-	32	6	2 597	82 254	1 975	4 427	49 000	245 265	201 725	448 390	D
325	Chemical mfg .....	-	3	1	f	D	D	D	D	D	D	D	D
3259	Other chemical product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, & chemical mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
334412	Bare printed circuit board mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>GLENS FALLS, NY</b>													
31-33	Manufacturing ....	-	30	10	2 817	109 317	1 829	3 933	54 189	350 068	345 195	687 186	30 749
322	Paper mfg .....	-	3	2	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
322121	Paper (except newsprint) mills .....	-	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	1	3	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
339112	Surgical & medical instrument mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
<b>GLENVILLE TOWN BALANCE, NY *</b>													
31-33	Manufacturing ....	-	20	10	797	25 511	592	1 159	15 401	73 507	82 991	156 154	5 999
<b>GLOVERSVILLE, NY</b>													
31-33	Manufacturing ....	1	60	19	1 818	43 222	1 490	3 234	30 647	121 622	127 079	243 279	12 030
<b>GRAND ISLAND TOWN, NY</b>													
31-33	Manufacturing ....	-	20	6	999	33 004	517	847	14 633	170 163	63 580	231 664	5 191
325	Chemical mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>GRANVILLE, NY</b>													
31-33	Manufacturing ....	-	7	4	571	19 274	376	796	10 037	53 144	34 714	86 610	1 807
<b>GREECE TOWN, NY</b>													
31-33	Manufacturing ....	-	30	5	930	32 952	657	1 368	18 097	65 108	44 987	109 787	2 003
<b>GREENBURGH TOWN BALANCE, NY *</b>													
31-33	Manufacturing ....	1	40	7	948	33 205	515	1 089	15 187	124 255	169 398	297 634	D



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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>HAMBURG TOWN BALANCE, NY *</b>													
31-33	<b>Manufacturing ....</b>	-	<b>28</b>	<b>10</b>	<b>3 490</b>	<b>185 916</b>	<b>2 885</b>	<b>6 448</b>	<b>147 606</b>	<b>415 458</b>	<b>518 035</b>	<b>936 505</b>	<b>D</b>
336	Transportation equipment mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	2	2	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping .....	-	1	1	g	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>HAYERSTRAW, NY *</b>													
31-33	<b>Manufacturing ....</b>	-	<b>13</b>	<b>4</b>	<b>550</b>	<b>15 554</b>	<b>484</b>	<b>885</b>	<b>10 051</b>	<b>36 075</b>	<b>26 608</b>	<b>62 142</b>	<b>D</b>
<b>HEMPSTEAD, NY *</b>													
31-33	<b>Manufacturing ....</b>	5	<b>38</b>	<b>12</b>	<b>674</b>	<b>20 307</b>	<b>482</b>	<b>829</b>	<b>11 164</b>	<b>44 926</b>	<b>39 292</b>	<b>84 070</b>	<b>2 395</b>
<b>HEMPSTEAD TOWN BALANCE, NY *</b>													
31-33	<b>Manufacturing ....</b>	2	<b>376</b>	<b>53</b>	<b>4 752</b>	<b>165 052</b>	<b>3 111</b>	<b>5 873</b>	<b>79 154</b>	<b>314 307</b>	<b>330 406</b>	<b>643 867</b>	<b>29 795</b>
325	Chemical mfg .....	-	7	3	642	39 284	216	358	7 154	54 955	95 865	148 412	18 871
3254	Pharmaceutical & medicine mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
<b>HENRIETTA TOWN, NY</b>													
31-33	<b>Manufacturing ....</b>	1	<b>55</b>	<b>36</b>	<b>3 882</b>	<b>172 018</b>	<b>2 337</b>	<b>4 650</b>	<b>71 139</b>	<b>361 255</b>	<b>268 934</b>	<b>624 238</b>	<b>66 677</b>
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
333	Machinery mfg .....	-	15	10	f	D	D	D	D	D	D	D	D
<b>HERKIMER, NY</b>													
31-33	<b>Manufacturing ....</b>	-	<b>12</b>	<b>3</b>	<b>827</b>	<b>18 346</b>	<b>686</b>	<b>1 501</b>	<b>13 306</b>	<b>36 413</b>	<b>62 730</b>	<b>92 704</b>	<b>4 598</b>
314	Textile product mills .....	-	2	1	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills .....	-	2	1	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills .....	-	2	1	f	D	D	D	D	D	D	D	D
314121	Curtain & drapery mills .....	-	2	1	f	D	D	D	D	D	D	D	D
<b>HOOSICK FALLS, NY</b>													
31-33	<b>Manufacturing ....</b>	-	<b>9</b>	<b>6</b>	<b>615</b>	<b>21 267</b>	<b>493</b>	<b>1 037</b>	<b>15 541</b>	<b>63 458</b>	<b>71 216</b>	<b>135 806</b>	<b>8 352</b>
<b>HORNELL, NY</b>													
31-33	<b>Manufacturing ....</b>	4	<b>9</b>	<b>6</b>	<b>g</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
336	Transportation equipment mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	-	3	2	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
<b>HORSEHEADS, NY</b>													
31-33	<b>Manufacturing ....</b>	-	<b>16</b>	<b>9</b>	<b>3 315</b>	<b>89 655</b>	<b>2 283</b>	<b>5 130</b>	<b>60 369</b>	<b>267 468</b>	<b>261 511</b>	<b>529 806</b>	<b>D</b>
334	Computer & electronic product mfg .....	-	5	4	h	D	D	D	D	D	D	D	D
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
334411	Electron tube mfg .....	-	3	3	g	D	D	D	D	D	D	D	D
334417	Electronic connector mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>HUDSON, NY</b>													
31-33	<b>Manufacturing ....</b>	1	<b>31</b>	<b>10</b>	<b>1 290</b>	<b>28 937</b>	<b>983</b>	<b>1 934</b>	<b>19 155</b>	<b>76 885</b>	<b>112 581</b>	<b>188 275</b>	<b>4 223</b>
333	Machinery mfg .....	-	6	3	f	D	D	D	D	D	D	D	1 882

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>HUNTINGTON TOWN BALANCE, NY *</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	—	<b>182</b>	<b>41</b>	<b>7 956</b>	<b>275 939</b>	<b>4 153</b>	<b>9 131</b>	<b>102 491</b>	<b>1 680 966</b>	<b>1 043 799</b>	<b>2 752 439</b>	<b>42 484</b>
323	Printing & related support activities.....	2	29	6	779	23 215	410	877	13 737	48 269	26 282	75 211	5 625
3231	Printing & related support activities.....	2	29	6	779	23 215	410	877	13 737	48 269	26 282	75 211	5 625
32311	Printing .....	2	24	5	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	2	14	5	680	19 434	329	712	10 645	38 477	23 946	63 075	5 059
325	Chemical mfg .....	—	10	8	3 133	101 763	1 407	3 436	26 865	1 254 745	745 004	2 018 006	21 559
3254	Pharmaceutical & medicine mfg .....	—	5	3	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	—	5	3	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	—	4	2	f	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg ..	—	4	4	g	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg ..	—	4	4	g	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg ..	—	4	4	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	4	6	2	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg .....	4	4	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	—	17	8	1 745	85 757	673	1 502	22 147	208 242	78 791	299 815	8 534
3345	Navigational, measuring, medical, & control instruments mfg .....	—	5	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg .....	—	5	2	f	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg .....	—	2	1	f	D	D	D	D	D	D	D	D
	<b>ILION, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>4</b>	<b>3</b>	<b>g</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>2 588</b>
332	Fabricated metal product mfg .....	—	2	2	g	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
332994	Small arms mfg .....	—	1	1	g	D	D	D	D	D	D	D	D
	<b>ISLIP TOWN BALANCE, NY *</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>809</b>	<b>261</b>	<b>30 278</b>	<b>1 059 957</b>	<b>18 585</b>	<b>36 538</b>	<b>500 885</b>	<b>2 893 322</b>	<b>1 845 239</b>	<b>4 682 473</b>	<b>208 612</b>
311	Food mfg .....	—	35	8	2 224	77 491	1 197	2 101	38 359	269 646	145 741	415 828	17 787
3118	Bakeries & tortilla mfg .....	—	26	4	g	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg .....	—	24	3	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	—	8	3	g	D	D	D	D	D	D	D	D
315	Apparel mfg .....	2	15	9	800	14 172	516	1 045	10 057	84 942	34 952	123 268	536
3152	Cut & sew apparel mfg ....	2	13	7	f	D	D	D	D	D	D	D	536
322	Paper mfg .....	8	17	7	513	16 497	425	818	12 132	61 402	75 922	137 743	7 489
3222	Converted paper product mfg .....	8	17	7	513	16 497	425	818	12 132	61 402	75 922	137 743	7 489
323	Printing & related support activities.....	1	120	28	2 136	76 960	1 654	3 057	44 347	192 249	102 253	294 139	9 258
3231	Printing & related support activities.....	1	120	28	2 136	76 960	1 654	3 057	44 347	192 249	102 253	294 139	9 258
32311	Printing .....	1	108	28	2 074	74 648	1 608	2 969	42 877	185 557	100 787	285 997	9 008
323110	Commercial lithographic printing ..	1	56	14	1 210	47 390	944	1 719	26 914	93 113	52 517	145 938	4 542
325	Chemical mfg .....	1	34	11	2 015	64 094	1 047	1 930	22 905	228 501	205 871	442 671	21 199
3254	Pharmaceutical & medicine mfg .....	—	18	8	1 848	56 671	947	1 725	19 520	197 625	191 824	397 372	D
32541	Pharmaceutical & medicine mfg .....	—	18	8	1 848	56 671	947	1 725	19 520	197 625	191 824	397 372	D
325412	Pharmaceutical preparation mfg .....	—	12	7	1 725	51 457	848	1 539	17 463	184 543	168 963	361 484	16 701

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>ISLIP TOWN BALANCE, NY *—Con.</b>												
	<b>Manufacturing—Con.</b>												
326	Plastics & rubber products mfg .....	6	28	18	1 465	36 756	1 187	2 065	21 515	81 687	71 883	153 865	D
3261	Plastics product mfg .....	6	25	15	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg .....	5	21	13	1 249	29 974	1 027	1 709	16 880	66 538	56 874	123 679	4 085
326199	All other plastics product mfg .....	5	21	13	1 249	29 974	1 027	1 709	16 880	66 538	56 874	123 679	4 085
332	Fabricated metal product mfg .....	1	165	33	2 943	108 103	1 842	3 653	54 033	210 840	159 338	367 803	12 811
3323	Architectural & structural metals mfg .....	1	35	13	1 035	36 967	658	1 349	20 464	65 116	51 807	114 744	2 644
33232	Ornamental & architectural metal products mfg .....	1	30	10	661	23 575	452	952	13 685	43 771	34 675	75 837	2 073
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	2	85	10	1 102	37 810	732	1 454	21 983	74 742	43 493	117 019	6 574
33271	Machine shops .....	1	68	6	642	22 420	463	923	14 628	43 672	22 362	65 330	4 634
332710	Machine shops .....	1	68	6	642	22 420	463	923	14 628	43 672	22 362	65 330	4 634
333	Machinery mfg .....	3	73	16	1 233	44 471	795	1 518	22 474	77 813	77 453	154 679	6 492
3332	Industrial machinery mfg ..	1	16	7	504	18 431	300	595	7 706	26 986	34 981	60 210	1 479
334	Computer & electronic product mfg .....	—	75	44	9 282	379 177	4 655	9 401	144 611	1 072 289	503 301	1 505 847	97 839
3341	Computer & peripheral equipment mfg .....	—	6	2	h	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg .....	—	6	2	h	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg .....	—	4	2	h	D	D	D	D	D	D	D	D
3342	Communications equipment mfg .....	—	12	10	g	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 .....	—	10	9	1 383	59 737	926	2 342	39 381	151 257	86 856	228 733	9 773
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	—	10	9	1 383	59 737	926	2 342	39 381	151 257	86 856	228 733	9 773
3344	Semiconductor & other electronic component mfg .....	2	30	20	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	2	30	20	g	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	—	3	3	840	26 477	511	557	15 683	45 153	21 376	67 377	D
3345	Navigational, measuring, medical, & control instruments mfg .....	1	24	11	1 402	69 892	581	2 629	28 105	123 508	146 329	282 926	7 770
33451	Navigational, measuring, medical, & control instruments mfg .....	1	24	11	1 402	69 892	581	2 629	28 105	123 508	146 329	282 926	7 770
334515	Electricity measuring & testing instrument mfg .....	—	4	3	f	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media ..	—	2	1	f	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media .....	—	2	1	f	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing .....	—	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	—	29	19	1 133	37 922	699	1 408	15 993	93 788	134 014	225 934	3 775
3359	Other electrical equipment & component mfg .....	—	13	11	f	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg .....	—	10	9	630	19 332	404	783	7 486	42 453	47 025	87 694	1 672
335999	All other miscellaneous electrical equipment & component mfg .....	—	10	9	630	19 332	404	783	7 486	42 453	47 025	87 694	1 672

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<b>31-33</b>	<b>ISLIP TOWN BALANCE, NY *—Con.</b>												
	<b>Manufacturing—Con.</b>												
336	Transportation equipment mfg .....	4	39	23	2 101	76 136	1 500	3 265	43 051	171 952	114 003	285 754	9 227
3363	Motor vehicle parts mfg ...	5	16	10	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg .....	7	10	8	f	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg .....	8	9	7	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	2	17	11	f	D	D	D	D	D	D	D	4 415
33641	Aerospace product & parts mfg .....	2	17	11	f	D	D	D	D	D	D	D	4 415
336413	Other aircraft part & auxiliary equipment mfg .....	1	12	7	f	D	D	D	D	D	D	D	2 328
337	Furniture & related product mfg .....	5	52	7	654	20 500	417	792	11 401	37 984	30 695	69 109	1 437
339	Miscellaneous mfg .....	5	74	27	3 164	88 919	2 219	4 588	48 197	253 792	138 038	393 742	12 675
3391	Medical equipment & supplies mfg .....	6	39	12	2 010	59 428	1 361	2 908	31 066	197 074	81 595	278 798	8 430
33911	Medical equipment & supplies mfg .....	6	39	12	2 010	59 428	1 361	2 908	31 066	197 074	81 595	278 798	8 430
339112	Surgical & medical instrument mfg .....	9	5	4	1 098	31 025	735	1 661	16 775	76 583	40 339	116 811	5 567
339113	Surgical appliance & supplies mfg .....	3	6	3	584	17 473	408	891	9 386	95 227	24 761	119 944	1 793
3399	Other miscellaneous mfg ..	3	35	15	1 154	29 491	858	1 680	17 131	56 718	56 443	114 944	4 245
33999	All other miscellaneous mfg .....	5	11	7	626	14 927	502	990	9 608	34 916	30 629	66 048	3 276
	<b>ITHACA, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>61</b>	<b>17</b>	<b>2 775</b>	<b>96 994</b>	<b>2 007</b>	<b>4 118</b>	<b>60 639</b>	<b>246 969</b>	<b>263 716</b>	<b>515 309</b>	<b>27 339</b>
333	Machinery mfg .....	—	4	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	—	4	3	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	—	3	2	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg .....	—	1	1	f	D	D	D	D	D	D	D	D
	<b>JAMESTOWN, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>83</b>	<b>36</b>	<b>5 056</b>	<b>150 247</b>	<b>3 776</b>	<b>6 831</b>	<b>90 190</b>	<b>405 316</b>	<b>267 596</b>	<b>666 922</b>	<b>54 409</b>
332	Fabricated metal product mfg .....	—	25	12	1 627	52 718	1 202	2 577	35 090	80 464	58 553	137 697	11 549
337	Furniture & related product mfg .....	—	13	8	g	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg .....	—	9	6	g	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	—	6	5	g	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg .....	—	4	4	g	D	D	D	D	D	D	D	D
	<b>JOHNSON CITY, NY *</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>7</b>	<b>24</b>	<b>6</b>	<b>595</b>	<b>16 755</b>	<b>412</b>	<b>807</b>	<b>10 076</b>	<b>22 369</b>	<b>47 302</b>	<b>70 008</b>	<b>D</b>
	<b>JOHNSTOWN, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>3</b>	<b>40</b>	<b>21</b>	<b>1 629</b>	<b>41 073</b>	<b>1 265</b>	<b>2 558</b>	<b>26 498</b>	<b>93 377</b>	<b>97 397</b>	<b>191 361</b>	<b>D</b>
	<b>KINGSTON, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>51</b>	<b>15</b>	<b>1 027</b>	<b>28 277</b>	<b>690</b>	<b>1 226</b>	<b>15 511</b>	<b>60 921</b>	<b>40 083</b>	<b>103 155</b>	<b>6 502</b>

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>LACKAWANNA, NY</b>													
31-33	Manufacturing ....	-	21	7	861	39 041	656	1 346	28 982	427 497	96 091	523 050	D
331	Primary metal mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
3311	Iron & steel mills & ferroalloy mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
331111	Iron & steel mills .....	-	2	1	f	D	D	D	D	D	D	D	D
<b>LANCASTER, NY *</b>													
31-33	Manufacturing ....	2	36	16	1 840	67 942	1 099	2 467	31 961	144 041	115 693	260 840	7 085
336	Transportation equipment mfg .....	3	2	2	f	D	D	D	D	D	D	D	D
<b>LANCASTER TOWN BALANCE, NY *</b>													
31-33	Manufacturing ....	-	23	11	886	22 402	670	1 353	14 155	61 943	115 413	176 526	2 773
<b>LINDENHURST, NY *</b>													
31-33	Manufacturing ....	3	68	9	802	20 496	624	1 147	13 465	49 093	33 193	81 991	1 846
<b>LITTLE FALLS, NY</b>													
31-33	Manufacturing ....	-	14	10	1 195	39 681	876	1 621	25 020	119 154	95 971	213 216	11 805
<b>LOCKPORT, NY</b>													
31-33	Manufacturing ....	-	60	24	8 183	454 901	6 489	14 622	348 498	1 104 815	769 633	1 889 365	50 714
332	Fabricated metal product mfg .....	-	12	6	872	24 655	714	1 581	17 380	59 340	39 023	98 111	2 066
3329	Other fabricated metal product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33291	Metal valve mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
332911	Industrial valve mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	2	1	i	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	2	1	i	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg .....	-	1	1	i	D	D	D	D	D	D	D	D
336391	Motor vehicle air-conditioning mfg .....	-	1	1	i	D	D	D	D	D	D	D	D
<b>LOWVILLE, NY</b>													
31-33	Manufacturing ....	1	6	4	864	30 306	694	1 533	20 181	72 189	309 469	375 847	12 958
<b>LYONS, NY</b>													
31-33	Manufacturing ....	2	10	4	809	22 362	677	1 268	15 603	43 542	53 763	97 810	2 502
333	Machinery mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	1	1	f	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>LYSANDER TOWN BALANCE, NY *</b>													
31-33	Manufacturing ....	-	13	7	2 137	76 290	1 617	2 317	49 020	565 325	335 506	901 780	D
312	Beverage & tobacco product mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
3121	Beverage mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
31212	Breweries .....	-	1	1	g	D	D	D	D	D	D	D	D
312120	Breweries .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>MALONE, NY</b>													
31-33	Manufacturing ....	1	7	3	730	14 501	608	1 555	10 861	42 850	21 225	54 311	481
316	Leather & allied product mfg .	-	1	1	f	D	D	D	D	D	D	D	D
3162	Footwear mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
31621	Footwear mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
316212	House slipper mfg ....	-	1	1	f	D	D	D	D	D	D	D	D

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		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
<b>31-33</b>	<b>MAMARONECK, NY *</b>												
	Manufacturing ....	1	41	9	600	19 421	434	761	10 654	40 430	80 696	117 148	3 142
<b>31-33</b>	<b>MANLIUS, NY *</b>												
	Manufacturing ....	-	8	4	1 716	58 209	923	2 054	20 827	160 932	160 473	314 970	D
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
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
337	Furniture & related product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>31-33</b>	<b>MASSENA, NY</b>												
	Manufacturing ....	-	14	7	g	D	D	D	D	D	D	D	D
331	Primary metal mfg .....	-	3	3	g	D	D	D	D	D	D	D	D
3313	Alumina & aluminum production & processing ..	-	3	3	g	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing .....	-	3	3	g	D	D	D	D	D	D	D	D
331312	Primary aluminum production .....	-	2	2	g	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>31-33</b>	<b>MEDINA, NY</b>												
	Manufacturing ....	-	14	7	862	22 998	632	1 084	14 714	53 373	65 006	118 861	2 920
<b>31-33</b>	<b>MIDDLETOWN, NY</b>												
	Manufacturing ....	-	46	15	1 581	44 300	1 172	2 279	30 480	110 409	141 237	256 590	17 775
<b>31-33</b>	<b>MINEOLA, NY *</b>												
	Manufacturing ....	1	59	20	1 525	41 753	1 095	2 399	25 413	85 962	81 707	182 273	4 363
332	Fabricated metal product mfg .....	-	11	4	615	16 047	455	1 180	9 667	40 130	50 765	104 685	2 949
<b>31-33</b>	<b>MOUNT KISCO, NY</b>												
	Manufacturing ....	5	22	7	533	22 989	312	702	9 848	49 380	26 807	76 705	D
<b>31-33</b>	<b>MOUNT VERNON, NY</b>												
	Manufacturing ....	2	147	53	4 405	142 257	3 015	6 234	74 141	287 052	292 851	602 127	20 666
332	Fabricated metal product mfg .....	1	32	10	658	21 202	517	1 054	12 990	47 803	25 845	74 022	1 881
333	Machinery mfg .....	-	6	4	561	17 739	373	779	8 394	41 874	37 242	77 613	843
334	Computer & electronic product mfg .....	1	8	5	570	15 910	380	735	8 365	30 504	22 982	53 410	3 961
339	Miscellaneous mfg .....	1	21	7	1 094	36 347	747	1 755	20 546	45 194	99 188	168 961	5 041
3399	Other miscellaneous mfg ..	1	13	4	985	32 072	666	1 601	17 798	37 295	97 734	159 530	D
33991	Jewelry & silverware mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
339911	Jewelry (except costume) mfg .....	-	1	1	f	D	D	D	D	D	D	D	D

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<b>NEWARK, NY</b>													
31-33	Manufacturing .....	-	18	11	2 451	57 904	1 748	3 532	34 899	111 547	147 300	259 863	17 639
334	Computer & electronic product mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
<b>NEWBURGH, NY</b>													
31-33	Manufacturing .....	4	48	14	1 467	28 528	1 179	1 976	18 639	59 176	58 499	116 873	3 684
339	Miscellaneous mfg.....	9	5	3	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	9	5	3	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg.....	9	5	3	f	D	D	D	D	D	D	D	D
<b>NEW HARTFORD TOWN BALANCE, NY *</b>													
31-33	Manufacturing .....	-	20	11	1 479	52 948	784	1 501	24 349	159 313	128 220	276 591	5 752
<b>NEW HYDE PARK, NY *</b>													
31-33	Manufacturing .....	2	42	12	1 202	35 670	783	1 681	20 794	101 954	74 908	176 204	6 311
<b>NEW ROCHELLE, NY</b>													
31-33	Manufacturing .....	1	61	14	1 167	36 815	866	1 882	21 202	84 171	55 630	138 906	3 816
<b>NEW WINDSOR TOWN BALANCE, NY *</b>													
31-33	Manufacturing .....	-	36	17	2 006	65 201	1 453	2 868	43 882	149 783	271 139	420 745	8 779
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
32619	Other plastics product mfg.....	-	2	2	f	D	D	D	D	D	D	D	D
<b>NEW YORK, NY *</b>													
31-33	Manufacturing .....	3	10 569	2 541	207 975	5 504 108	149 269	275 201	3 101 482	13 875 950	13 861 999	27 735 815	968 480
311	Food mfg.....	3	1 019	142	15 735	428 336	10 195	18 779	221 553	1 079 797	1 365 920	2 449 017	61 876
3113	Sugar & confectionery product mfg.....	-	32	12	g	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate...	-	14	6	f	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate.....	-	14	6	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg.....	6	31	13	1 110	22 977	812	1 381	14 890	71 480	72 821	144 097	D
31141	Frozen food mfg.....	7	14	6	f	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg.....	7	12	6	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg.....	-	30	6	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg.....	-	14	4	f	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	6	65	22	1 396	40 990	1 056	2 268	27 703	156 786	267 321	423 282	7 495
31161	Animal slaughtering & processing.....	6	65	22	1 396	40 990	1 056	2 268	27 703	156 786	267 321	423 282	7 495
311612	Meat processed from carcasses.....	6	44	19	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg.....	4	760	61	8 281	208 903	4 886	8 097	87 767	431 351	235 830	667 838	D
31181	Bread & bakery product mfg.....	4	720	52	7 214	173 110	4 126	6 876	68 980	334 199	183 786	518 052	23 965
311811	Retail bakeries.....	5	530	14	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	4	183	35	4 644	134 395	2 464	4 629	49 339	246 570	125 131	371 459	19 271
31182	Cookie, cracker, & pasta mfg.....	2	39	9	g	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg ..	2	16	8	f	D	D	D	D	D	D	D	D
3119	Other food mfg.....	1	85	25	g	D	D	D	D	D	D	D	D
31199	All other food mfg.....	1	47	13	1 347	28 723	922	1 518	15 907	73 152	92 406	165 287	3 684
311991	Perishable prepared food mfg.....	-	17	6	f	D	D	D	D	D	D	D	D
311999	All other miscellaneous food mfg.....	3	30	7	f	D	D	D	D	D	D	D	D

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	<b>NEW YORK, NY *—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
312	Beverage & tobacco product mfg .....	9	29	12	g	D	D	D	D	D	D	D	
3121	Beverage mfg .....	9	28	12	g	D	D	D	D	D	D	D	
31211	Soft drink & ice mfg .....	9	21	9	g	D	D	D	D	D	D	D	
312111	Soft drink mfg .....	9	15	7	g	D	D	D	D	D	D	D	
313	Textile mills .....	3	469	110	8 764	322 633	6 213	13 058	150 232	878 046	1 185 454	2 096 514	46 812
3132	Fabric mills .....	4	135	31	g	D	D	D	D	D	D	D	
31321	Broadwoven fabric mills ..	5	38	9	f	D	D	D	D	D	D	D	
313210	Broadwoven fabric mills .....	5	38	9	f	D	D	D	D	D	D	D	
31324	Knit fabric mills .....	3	56	13	g	D	D	D	D	D	D	D	
313241	Weft knit fabric mills ..	4	37	8	565	15 351	442	951	11 132	32 646	49 769	81 450	2 643
313249	Other knit fabric & lace mills .....	1	19	5	f	D	D	D	D	D	D	D	
3133	Textile & fabric finishing & fabric coating mills .....	2	309	74	i	D	D	D	D	D	D	D	
31331	Textile & fabric finishing mills .....	2	302	72	5 841	232 782	3 886	8 246	101 997	685 824	890 285	1 609 508	29 740
313311	Broadwoven fabric finishing mills .....	3	245	57	4 735	189 003	3 183	6 822	83 943	537 897	728 676	1 297 062	23 854
313312	Textile & fabric finishing mills .....	1	57	15	1 106	43 779	703	1 424	18 054	147 927	161 609	312 446	5 886
314	Textile product mills .....	3	344	77	5 876	119 994	4 460	7 584	64 325	241 955	313 219	558 168	10 913
3141	Textile furnishings mills .....	2	130	30	h	D	D	D	D	D	D	D	
31412	Curtain & linen mills .....	1	124	28	g	D	D	D	D	D	D	D	
314121	Curtain & drapery mills .....	2	63	11	g	D	D	D	D	D	D	D	
314129	Other household textile product mills .....	1	61	17	g	D	D	D	D	D	D	1 315	
3149	Other textile product mills ..	5	214	47	h	D	D	D	D	D	D	D	
31491	Textile bag & canvas mills .....	6	65	8	f	D	D	D	D	D	D	D	
31499	All other textile product mills .....	4	149	39	2 761	52 839	2 076	3 569	30 843	91 313	75 856	170 385	6 720
314999	All other miscellaneous textile product mills ..	4	149	39	2 761	52 839	2 076	3 569	30 843	91 313	75 856	170 385	6 720
315	Apparel mfg .....	4	3 598	1 072	80 364	1 586 247	59 567	101 116	912 266	3 812 680	4 683 253	8 501 957	90 573
3151	Apparel knitting mills .....	5	252	103	i	D	D	D	D	D	D	D	
31519	Other apparel knitting mills .....	5	229	102	i	D	D	D	D	D	D	D	
315191	Outerwear knitting mills .....	5	225	101	i	D	D	D	D	D	D	D	
3152	Cut & sew apparel mfg .....	4	3 005	891	66 552	1 316 670	48 184	79 924	726 934	3 242 954	4 119 072	7 355 824	71 368
31521	Cut & sew apparel contractors .....	7	1 969	520	k	D	D	D	D	D	D	D	
315211	Men's & boys' cut & sew apparel contractors .....	5	44	20	1 089	15 605	994	1 679	13 040	27 870	4 025	31 884	579
315212	Women's, girls', & infants' cut & sew apparel contractors ..	7	1 925	500	k	D	D	D	D	D	D	D	
31522	Men's & boys' cut & sew apparel mfg .....	2	164	57	h	D	D	D	D	D	D	D	
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg .....	4	39	16	g	D	D	D	D	D	D	D	
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg .....	—	26	6	1 008	29 696	592	896	18 846	134 789	171 684	317 601	D
315228	Men's & boys' cut & sew other outerwear mfg .....	5	69	28	g	D	D	D	D	D	D	D	
31523	Women's & girls' cut & sew apparel mfg .....	3	706	296	25 443	723 942	13 799	23 592	278 702	2 139 000	3 392 809	5 526 473	D
315231	Women's & girls' cut/ sew lingerie & nightwear mfg .....	3	58	18	g	D	D	D	D	D	D	D	
315232	Women's & girls' cut & sew blouse & shirt mfg .....	4	148	53	3 921	85 764	2 618	4 379	40 875	323 971	548 309	866 812	D
315233	Women's & girls' cut & sew dress mfg .....	3	245	111	i	D	D	D	D	D	D	D	
315234	Women's & girls' cut & sew suit, coat, skirt mfg .....	2	137	62	i	D	D	D	D	D	D	D	
315239	Women's & girls' cut & sew other outerwear mfg .....	5	118	52	4 835	162 829	2 138	3 526	37 715	394 973	538 869	942 672	D
31529	Other cut & sew apparel mfg .....	4	166	18	g	D	D	D	D	D	D	D	
315292	Fur & leather apparel mfg .....	6	121	7	608	16 222	409	759	8 434	44 019	71 639	114 601	1 471
315299	All other cut & sew apparel mfg .....	1	45	11	f	D	D	D	D	D	D	D	



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<b>31-33</b>	<b>NEW YORK, NY *—Con.</b>													
	<b>Manufacturing—Con.</b>													
315	Apparel mfg—Con.													
3159	Apparel accessories & other apparel mfg . . . . .	2	341	78	i	D	D	D	D	D	D	D	D	
31599	Apparel accessories & other apparel mfg . . . . .	2	341	78	i	D	D	D	D	D	D	D	D	
315991	Hat, cap, & millinery mfg . . . . .	1	73	15	g	D	D	D	D	D	D	D	D	
315993	Men's & boys' neckwear mfg . . . . .	1	48	19	g	D	D	D	D	D	D	D	D	
315999	Other apparel accessories & other apparel mfg . . . . .	2	215	41	h	D	D	D	D	D	D	D	D	
316	Leather & allied product mfg . . . . .	2	138	30		2 633	57 474	1 754	3 288	31 284	156 485	138 899	297 254	3 535
3169	Other leather & allied product mfg . . . . .	1	96	21		2 051	44 774	1 427	2 649	24 462	125 054	93 814	220 784	2 581
31699	Other leather & allied product mfg . . . . .	1	96	21		2 051	44 774	1 427	2 649	24 462	125 054	93 814	220 784	2 581
316991	Luggage mfg . . . . .	1	23	7	f	D	D	D	D	D	D	D	D	D
316992	Women's handbag & purse mfg . . . . .	2	42	7	f	D	D	D	D	D	D	D	D	D
321	Wood product mfg . . . . .	3	59	14		845	23 178	678	1 313	16 488	40 558	34 471	75 442	D
3219	Other wood product mfg . . . . .	3	56	14	f	D	D	D	D	D	D	D	D	D
322	Paper mfg . . . . .	4	121	58		5 111	164 896	3 842	6 754	95 074	301 922	347 036	650 205	D
3222	Converted paper product mfg . . . . .	4	119	57	h	D	D	D	D	D	D	D	D	D
32221	Paperboard container mfg . . . . .	6	35	21		1 940	63 878	1 532	2 753	38 173	126 076	168 124	294 889	D
322211	Corrugated & solid fiber box mfg . . . . .	7	12	6	f	D	D	D	D	D	D	D	D	D
322213	Setup paperboard box mfg . . . . .	2	7	4	f	D	D	D	D	D	D	D	D	D
32223	Stationery product mfg . . . . .	2	43	22	g	D	D	D	D	D	D	D	D	D
322231	Die-cut paper & paperboard office supplies mfg . . . . .	4	25	12		921	20 509	769	1 362	14 067	40 931	21 868	62 965	D
322232	Envelope mfg . . . . .	1	12	9	f	D	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg . . . . .	7	17	9		630	21 127	354	566	8 077	32 021	54 267	87 559	D
322299	All other converted paper product mfg . . . . .	7	17	9		630	21 127	354	566	8 077	32 021	54 267	87 559	D
323	Printing & related support activities . . . . .	5	1 265	238		19 148	726 989	13 970	27 818	462 199	1 903 597	862 192	2 761 169	420 282
3231	Printing & related support activities . . . . .	5	1 265	238		19 148	726 989	13 970	27 818	462 199	1 903 597	862 192	2 761 169	420 282
32311	Printing . . . . .	5	1 041	177		14 553	552 682	10 532	20 914	349 709	1 576 305	783 252	2 354 803	407 409
323110	Commercial lithographic printing . . . . .	5	561	105		9 144	398 951	6 475	12 957	255 802	1 251 049	556 267	1 807 353	388 102
323113	Commercial screen printing . . . . .	7	92	19		1 282	30 273	1 026	1 689	17 923	75 881	69 841	143 974	D
323114	Quick printing . . . . .	2	142	9		827	27 089	575	994	16 834	51 988	34 900	86 751	D
323118	Blankbook, looseleaf binder, & device mfg . . . . .	7	16	9		901	19 329	757	1 901	14 430	33 596	23 636	56 557	D
323119	Other commercial printing . . . . .	6	128	10		1 158	31 996	800	1 518	18 757	63 777	42 317	106 637	D
32312	Support activities for printing . . . . .	3	224	61		4 595	174 307	3 438	6 904	112 490	327 292	78 940	406 366	12 873
323121	Tradebinding & related work . . . . .	3	62	27		1 692	44 843	1 432	2 721	31 136	78 843	14 881	93 768	2 986
323122	Prepress services . . . . .	3	162	34		2 903	129 464	2 006	4 183	81 354	248 449	64 059	312 598	9 887
325	Chemical mfg . . . . .	2	157	46		6 332	237 460	3 923	8 762	126 617	1 009 573	627 680	1 605 624	54 055
3251	Basic chemical mfg . . . . .	—	16	5	f	D	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg . . . . .	—	13	5		2 085	83 161	1 397	3 367	53 701	502 544	175 747	641 034	D
32541	Pharmaceutical & medicine mfg . . . . .	—	13	5		2 085	83 161	1 397	3 367	53 701	502 544	175 747	641 034	D
325412	Pharmaceutical preparation mfg . . . . .	—	7	5	g	D	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg . . . . .	5	36	9		693	24 574	413	826	11 012	69 334	105 478	178 866	D
3256	Soap, cleaning compound, & toilet preparation mfg . . . . .	5	66	19		2 125	71 125	1 251	2 583	31 455	189 838	156 734	345 774	14 443
32562	Toilet preparation mfg . . . . .	5	35	10		1 715	54 519	993	2 129	24 605	140 837	110 165	249 700	11 973
325620	Toilet preparation mfg . . . . .	5	35	10		1 715	54 519	993	2 129	24 605	140 837	110 165	249 700	11 973

**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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK, NY *—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
326	Plastics & rubber products mfg . . . . .	2	187	78	6 128	148 119	4 686	8 786	88 370	362 675	358 501	718 292	20 732
3261	Plastics product mfg . . . . .	2	166	74	i	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg . . . . .	2	44	23	g	D	D	D	D	D	D	5 245	D
326111	Unsupported plastics bag mfg . . . . .	2	29	16	920	26 887	691	1 383	16 437	69 693	69 543	138 695	D
32619	Other plastics product mfg . . . . .	2	108	45	3 830	82 614	3 002	5 483	50 188	199 503	169 103	366 268	12 467
326199	All other plastics product mfg . . . . .	2	107	45	h	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg . . . . .	2	129	26	1 757	55 811	1 342	2 633	38 587	137 293	132 738	270 399	D
3272	Glass & glass product mfg . . . . .	3	44	7	604	14 564	452	874	9 011	32 493	23 858	56 203	D
32721	Glass & glass product mfg . . . . .	3	44	7	604	14 564	452	874	9 011	32 493	23 858	56 203	D
327215	Glass product mfg made of purchased glass . . . . .	3	37	7	f	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg . . . . .	1	42	12	553	24 536	422	848	17 177	65 669	83 319	149 427	D
331	Primary metal mfg . . . . .	2	56	12	773	23 309	525	993	12 559	52 371	119 242	171 591	D
332	Fabricated metal product mfg . . . . .	3	557	139	9 778	284 745	7 169	13 876	173 537	569 895	399 012	973 855	39 051
3321	Forging & stamping . . . . .	4	39	13	670	20 290	461	815	11 549	40 609	33 883	74 648	1 714
33211	Forging & stamping . . . . .	4	39	13	670	20 290	461	815	11 549	40 609	33 883	74 648	1 714
332116	Metal stamping . . . . .	5	33	10	f	D	D	D	D	D	D	D	D
3322	Cutlery & handtool mfg . . . . .	3	23	10	f	D	D	D	D	D	D	D	1 441
33221	Cutlery & handtool mfg . . . . .	3	23	10	f	D	D	D	D	D	D	D	1 441
3323	Architectural & structural metals mfg . . . . .	2	193	51	3 490	112 315	2 477	5 005	67 395	220 445	171 211	390 826	7 216
33231	Plate work & fabricated structural product mfg . . . . .	1	34	4	550	19 598	326	774	7 693	36 192	25 603	61 649	962
33232	Ornamental & architectural metal products mfg . . . . .	2	159	47	2 940	92 717	2 151	4 231	59 702	184 253	145 608	329 177	6 254
332321	Metal window & door mfg . . . . .	3	45	17	g	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg . . . . .	3	61	21	1 332	45 709	1 012	1 985	31 322	84 155	59 535	143 623	3 330
332323	Ornamental & architectural metal work mfg . . . . .	2	53	9	f	D	D	D	D	D	D	D	D
3325	Hardware mfg . . . . .	—	14	7	604	16 744	404	796	10 302	42 950	26 086	71 376	1 596
33251	Hardware mfg . . . . .	—	14	7	604	16 744	404	796	10 302	42 950	26 086	71 376	1 596
332510	Hardware mfg . . . . .	—	14	7	604	16 744	404	796	10 302	42 950	26 086	71 376	1 596
3326	Spring & wire product mfg . . . . .	8	25	3	f	D	D	D	D	D	D	D	3 126
33261	Spring & wire product mfg . . . . .	8	25	3	f	D	D	D	D	D	D	D	3 126
332618	Other fabricated wire product mfg . . . . .	8	21	2	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg . . . . .	3	99	10	g	D	D	D	D	D	D	D	3 518
33271	Machine shops . . . . .	5	86	8	768	21 656	605	1 050	14 049	41 041	19 033	60 421	2 447
332710	Machine shops . . . . .	5	86	8	768	21 656	605	1 050	14 049	41 041	19 033	60 421	2 447
3328	Coating, engraving, heat treating, & allied activities . . . . .	1	80	19	1 143	28 570	910	1 753	18 343	60 995	23 798	84 950	D
33281	Coating, engraving, heat treating, & allied activities . . . . .	1	80	19	1 143	28 570	910	1 753	18 343	60 995	23 798	84 950	D
332813	Electroplating, plating, polishing, anodizing, & coloring . . . . .	1	57	14	861	20 146	672	1 321	12 679	45 962	16 693	62 754	D
3329	Other fabricated metal product mfg . . . . .	3	67	21	1 102	32 468	789	1 478	18 468	60 069	53 917	115 580	D
33299	All other fabricated metal product mfg . . . . .	3	60	18	f	D	D	D	D	D	D	D	2 200
332999	All other miscellaneous fabricated metal product mfg . . . . .	3	33	13	605	17 046	429	817	10 030	31 516	28 040	59 211	1 488

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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK, NY *—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
333	Machinery mfg .....	3	197	46	3 872	125 983	2 623	4 451	66 686	255 891	190 788	445 144	10 625
3332	Industrial machinery mfg ..	5	55	9	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg .....	5	53	8	f	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg ..	2	21	4	579	19 816	378	315	8 757	46 097	32 546	78 331	D
33331	Commercial & service industry machinery mfg .....	2	21	4	579	19 816	378	315	8 757	46 097	32 546	78 331	D
333319	Other commercial & service industry machinery mfg .....	1	11	3	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	2	19	10	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	2	19	10	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	3	44	18	1 471	50 736	921	1 780	24 925	99 572	68 477	166 424	2 977
33392	Material handling equipment mfg .....	3	18	8	f	D	D	D	D	D	D	D	D
333921	Elevator & moving stairway mfg .....	3	12	7	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg .....	1	22	7	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	3	174	39	3 816	137 039	2 149	4 586	56 305	336 366	241 093	572 725	23 386
3342	Communications equipment mfg .....	1	24	9	833	28 436	469	1 286	10 499	85 290	83 170	167 673	2 912
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	-	13	5	620	19 938	358	1 056	7 430	61 063	61 825	122 338	D
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	-	13	5	620	19 938	358	1 056	7 430	61 063	61 825	122 338	D
3344	Semiconductor & other electronic component mfg .....	3	23	10	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	3	23	10	f	D	D	D	D	D	D	D	D
334419	Other electronic component mfg .....	2	10	6	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg .....	4	40	8	960	42 927	419	826	12 945	100 089	57 601	151 788	D
33451	Navigational, measuring, medical, & control instruments mfg .....	4	40	8	960	42 927	419	826	12 945	100 089	57 601	151 788	D
3346	Mfg & reproducing magnetic & optical media ..	4	52	11	851	32 454	542	1 124	16 507	75 971	44 402	121 195	D
33461	Mfg & reproducing magnetic & optical media .....	4	52	11	851	32 454	542	1 124	16 507	75 971	44 402	121 195	D
334612	Prerecorded CD (except software), tape, & record reproducing .....	2	45	8	f	D	D	D	D	D	D	D	7 961
335	Electrical equipment, appliance, & component mfg .....	1	92	36	3 732	109 415	2 610	4 385	52 663	306 746	176 908	477 662	11 674
3351	Electric lighting equipment mfg .....	1	57	19	1 704	59 807	1 263	2 465	29 848	158 107	99 633	258 002	D
33512	Lighting fixture mfg .....	1	57	19	1 704	59 807	1 263	2 465	29 848	158 107	99 633	258 002	D
335121	Residential electric lighting fixture mfg ...	1	37	10	f	D	D	D	D	D	D	D	D
335122	Commercial/industrial/institutional electric lighting fixture mfg ...	-	17	7	814	37 324	577	1 150	17 390	94 759	47 942	143 139	1 997
3359	Other electrical equipment & component mfg .....	1	18	11	1 806	41 545	1 188	1 600	18 133	132 749	65 603	191 753	8 209
33593	Wiring device mfg .....	2	9	3	g	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg .....	-	6	2	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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>NEW YORK, NY *—Con.</b>												
<b>31-33</b>	<b>Manufacturing—Con.</b>												
336	Transportation equipment mfg . . . . .	1	70	21	3 082	115 328	1 817	3 901	54 092	298 577	268 591	599 258	D
3363	Motor vehicle parts mfg . . .	—	33	7	g	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg . . . . .	—	14	1	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg . . . . .	—	13	1	g	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg . . . . .	2	12	6	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg . . . . .	2	12	6	f	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg . . . . .	1	9	3	646	24 465	528	1 082	15 281	56 580	21 190	80 050	D
337	Furniture & related product mfg . . . . .	3	470	86	5 779	154 255	4 454	8 091	100 328	289 506	224 834	512 599	10 234
3371	Household & institutional furniture & kitchen cabinet mfg . . . . .	4	324	42	3 099	75 328	2 532	4 654	54 421	144 550	115 840	260 401	5 805
33711	Wood kitchen cabinet & counter top mfg . . . . .	5	99	5	586	13 416	488	829	10 269	22 997	16 775	39 796	1 146
337110	Wood kitchen cabinet & counter top mfg . . .	5	99	5	586	13 416	488	829	10 269	22 997	16 775	39 796	1 146
33712	Household & institutional furniture mfg . . . . .	4	225	37	2 513	61 912	2 044	3 825	44 152	121 553	99 065	220 605	4 659
337122	Nonupholstered wood household furniture mfg . . . . .	6	114	14	1 076	25 376	910	1 706	19 381	44 903	37 190	81 958	1 780
337127	Institutional furniture mfg . . . . .	3	27	10	f	D	D	D	D	D	D	D	665
3372	Office furniture (including fixtures) mfg . . . . .	2	112	36	2 242	70 018	1 610	2 927	40 679	128 493	84 254	210 815	3 186
33721	Office furniture (including fixtures) mfg . . . . .	2	112	36	2 242	70 018	1 610	2 927	40 679	128 493	84 254	210 815	3 186
337212	Custom architectural woodwork & millwork mfg . . . . .	—	29	9	f	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, & locker mfg . . . . .	3	66	22	1 212	33 884	932	1 631	19 552	65 055	47 658	112 041	D
339	Miscellaneous mfg . . . . .	2	1 429	258	22 386	616 949	15 788	29 602	335 918	1 551 807	1 836 588	3 353 421	46 429
3391	Medical equipment & supplies mfg . . . . .	7	235	18	1 484	40 612	1 044	1 694	21 335	85 307	44 253	131 376	4 713
33911	Medical equipment & supplies mfg . . . . .	7	235	18	1 484	40 612	1 044	1 694	21 335	85 307	44 253	131 376	4 713
339116	Dental laboratories . . .	7	168	5	788	19 990	582	970	11 799	42 616	20 113	64 083	D
3399	Other miscellaneous mfg . .	2	1 194	240	20 902	576 337	14 744	27 908	314 583	1 466 500	1 792 335	3 222 045	41 716
33991	Jewelry & silverware mfg . . . . .	2	755	126	10 444	294 136	6 987	12 610	146 175	878 251	1 396 762	2 238 479	D
339911	Jewelry (except costume) mfg . . . . .	2	535	87	8 014	234 026	5 303	9 773	116 348	738 795	1 071 513	1 776 855	D
339913	Jewelers' material & lapidary work mfg . . .	1	114	16	g	D	D	D	D	D	D	D	D
339914	Costume jewelry & novelty mfg . . . . .	4	96	19	g	D	D	D	D	D	D	D	D
33993	Doll, toy, & game mfg . . .	3	36	7	949	25 046	742	1 557	17 204	57 224	54 948	112 962	2 086
339931	Doll & stuffed toy mfg .	1	23	5	f	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg . . . . .	1	37	9	1 345	27 038	1 021	2 328	17 471	90 566	57 163	150 939	5 414
339942	Lead pencil & art good mfg . . . . .	—	6	2	f	D	D	D	D	D	D	D	D
33995	Sign mfg . . . . .	3	126	32	2 614	81 024	1 801	3 383	42 484	144 024	100 065	242 883	4 745
339950	Sign mfg . . . . .	3	126	32	2 614	81 024	1 801	3 383	42 484	144 024	100 065	242 883	4 745
33999	All other miscellaneous mfg . . . . .	2	228	64	5 318	143 534	4 012	7 637	87 613	285 055	178 250	460 266	13 721
339992	Musical instrument mfg . . . . .	—	20	4	733	26 864	564	1 249	17 878	65 088	22 379	84 069	1 769
339993	Fastener, button, needle, & pin mfg . . . .	2	45	12	819	19 810	611	1 185	11 367	39 970	34 409	76 292	D
339994	Broom, brush, & mop mfg . . . . .	2	17	10	g	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg . . . . .	4	140	37	2 462	65 167	1 756	3 020	38 563	132 540	74 962	207 430	D

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

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>NIAGARA FALLS, NY</b>													
31-33	Manufacturing ....	-	69	30	3 942	183 667	2 722	5 722	113 963	683 992	559 753	1 233 970	140 710
325	Chemical mfg .....	-	12	11	1 813	103 365	1 189	2 679	61 564	299 728	270 647	567 658	96 414
3251	Basic chemical mfg .....	-	8	8	1 637	95 624	1 087	2 467	57 136	277 185	248 045	521 923	D
32518	Other basic inorganic chemical mfg .....	-	4	4	f	D	D	D	D	D	D	D	D
325181	Alkalies & chlorine mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
32519	Other basic organic chemical mfg .....	-	3	3	629	39 063	429	996	23 321	109 035	113 288	229 415	D
325199	All other basic organic chemical mfg .....	-	3	3	629	39 063	429	996	23 321	109 035	113 288	229 415	D
<b>NORTH CASTLE TOWN, NY</b>													
31-33	Manufacturing ....	-	18	8	566	24 681	363	789	12 485	58 659	60 732	119 227	5 465
<b>NORTH HEMPSTEAD TOWN BALANCE, NY *</b>													
31-33	Manufacturing ....	2	200	50	6 793	287 003	3 758	7 551	129 343	539 300	335 751	866 066	38 928
325	Chemical mfg .....	2	7	3	757	25 879	270	501	6 608	56 241	41 809	95 912	D
3254	Pharmaceutical & medicine mfg .....	2	3	2	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	2	3	2	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	2	3	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	-	24	7	977	44 359	585	1 268	19 461	125 019	30 814	152 070	6 443
3329	Other fabricated metal product mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	1	15	5	602	21 871	394	802	10 623	50 910	51 620	100 379	4 021
334	Computer & electronic product mfg .....	-	13	3	1 981	120 021	790	1 733	51 057	129 650	54 310	183 638	D
3345	Navigational, measuring, medical, & control instruments mfg .....	-	7	2	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg .....	-	7	2	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
<b>NORTH TONAWANDA, NY</b>													
31-33	Manufacturing ....	5	61	26	2 131	72 569	1 531	3 105	42 675	300 857	219 214	522 227	14 193
332	Fabricated metal product mfg .....	-	17	5	557	21 215	397	817	12 580	45 773	10 576	56 283	3 784
333	Machinery mfg .....	-	11	8	551	20 937	376	863	12 759	47 272	49 385	96 482	4 231
<b>NORWICH, NY</b>													
31-33	Manufacturing ....	1	15	5	891	29 016	632	1 396	17 333	48 485	44 236	97 216	2 413
<b>NYACK, NY *</b>													
31-33	Manufacturing ....	-	8	2	671	19 542	467	1 084	8 937	51 448	48 072	95 870	D
<b>OGDENSBURG, NY</b>													
31-33	Manufacturing ....	2	18	7	757	16 559	446	908	8 045	103 013	87 726	191 089	1 800

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		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>OLEAN, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>20</b>	<b>11</b>	<b>2 994</b>	<b>105 075</b>	<b>2 318</b>	<b>4 979</b>	<b>79 196</b>	<b>394 390</b>	<b>296 284</b>	<b>666 391</b>	<b>20 626</b>
325	Chemical mfg .....	2	3	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	1	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
333912	Air & gas compressor mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>ONEIDA, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>12</b>	<b>6</b>	<b>516</b>	<b>15 113</b>	<b>438</b>	<b>922</b>	<b>9 917</b>	<b>49 918</b>	<b>159 767</b>	<b>209 400</b>	<b>6 611</b>
<b>ONEONTA, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>22</b>	<b>8</b>	<b>818</b>	<b>22 993</b>	<b>652</b>	<b>1 304</b>	<b>14 348</b>	<b>86 341</b>	<b>41 762</b>	<b>127 624</b>	<b>6 826</b>
<b>ORANGETOWN TOWN BALANCE, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>76</b>	<b>26</b>	<b>4 702</b>	<b>205 737</b>	<b>2 840</b>	<b>5 964</b>	<b>106 529</b>	<b>711 652</b>	<b>450 196</b>	<b>1 233 690</b>	<b>123 550</b>
325	Chemical mfg .....	-	6	4	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	-	3	3	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	-	3	3	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	5	6	5	619	20 549	488	1 028	13 981	49 629	46 375	95 916	D
3261	Plastics product mfg .....	5	5	5	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	-	1	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
<b>ORCHARD PARK TOWN BALANCE, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>43</b>	<b>23</b>	<b>2 035</b>	<b>75 964</b>	<b>1 349</b>	<b>2 577</b>	<b>37 680</b>	<b>157 685</b>	<b>112 320</b>	<b>265 919</b>	<b>9 614</b>
<b>OSWEGO, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>22</b>	<b>5</b>	<b>g</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
331	Primary metal mfg .....	-	2	2	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
331315	Aluminum sheet, plate, & foil mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>OWEGO, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>15</b>	<b>5</b>	<b>h</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
334	Computer & electronic product mfg .....	-	2	2	h	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
334412	Bare printed circuit board mfg .....	-	1	1	f	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

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>OYSTER BAY TOWN BALANCE, NY *</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>377</b>	<b>100</b>	<b>14 195</b>	<b>572 193</b>	<b>7 822</b>	<b>14 250</b>	<b>217 219</b>	<b>2 026 739</b>	<b>1 257 905</b>	<b>3 294 598</b>	<b>68 866</b>
311	Food mfg .....	1	28	7	581	13 389	337	626	7 499	62 573	36 459	98 770	3 763
323	Printing & related support activities .....	1	87	13	1 402	55 280	1 062	2 316	39 059	99 343	56 758	156 237	6 680
3231	Printing & related support activities .....	1	87	13	1 402	55 280	1 062	2 316	39 059	99 343	56 758	156 237	6 680
32311	Printing .....	1	73	12	1 000	39 371	720	1 442	24 957	81 489	55 616	137 234	6 512
323110	Commercial lithographic printing ..	-	34	10	719	31 168	539	1 090	20 166	65 772	44 945	110 778	5 087
326	Plastics & rubber products mfg .....	1	21	8	763	22 443	615	1 140	13 085	48 198	35 504	83 115	1 573
3261	Plastics product mfg .....	1	20	8	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg .....	1	43	13	751	25 434	556	1 107	14 341	61 668	35 623	97 747	2 952
333	Machinery mfg .....	-	19	8	779	35 345	439	908	14 086	80 089	99 026	169 020	1 969
334	Computer & electronic product mfg .....	-	32	20	3 886	172 813	1 825	3 444	59 794	573 978	320 148	866 962	23 738
3342	Communications equipment mfg .....	1	8	6	g	D	D	D	D	D	D	D	D
33429	Other communications equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg .....	-	13	9	g	D	D	D	D	D	D	D	12 106
33451	Navigational, measuring, medical, & control instruments mfg .....	-	13	9	g	D	D	D	D	D	D	D	12 106
334511	Search, detection, navigation, & guidance instrument mfg .....	-	3	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	7	2	h	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	-	3	2	h	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	-	3	2	h	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg .....	-	2	1	h	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	4	20	2	898	11 704	654	638	7 594	25 896	15 435	42 485	677
3372	Office furniture (including fixtures) mfg .....	4	9	2	868	11 176	627	602	7 197	24 862	14 495	40 508	625
33721	Office furniture (including fixtures) mfg .....	4	9	2	868	11 176	627	602	7 197	24 862	14 495	40 508	625
337215	Showcase, partition, shelving, & locker mfg .....	4	5	2	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	2	48	6	593	17 084	431	801	8 821	32 818	38 188	70 637	1 488
	<b>PALMYRA, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>-</b>	<b>9</b>	<b>7</b>	<b>1 590</b>	<b>57 195</b>	<b>1 153</b>	<b>2 476</b>	<b>37 907</b>	<b>174 375</b>	<b>100 515</b>	<b>274 083</b>	<b>D</b>
326	Plastics & rubber products mfg .....	-	3	3	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 ..	-	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
339	Miscellaneous mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
339991	Gasket, packing, & sealing device mfg ...	-	1	1	f	D	D	D	D	D	D	D	D

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		E <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>PENFIELD TOWN, NY</b>													
31-33	Manufacturing ....	1	21	2	839	33 551	554	1 060	16 736	99 688	43 246	141 639	6 904
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
32619	Other plastics product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>PERINTON TOWN BALANCE, NY *</b>													
31-33	Manufacturing ....	1	37	18	1 545	49 165	995	1 942	25 636	121 601	78 489	195 479	14 330
334	Computer & electronic product mfg .....	-	8	5	580	19 073	277	558	6 682	47 068	31 182	75 811	2 732
<b>PERRY, NY</b>													
31-33	Manufacturing ....	4	6	4	843	21 683	738	1 501	15 909	41 296	22 122	54 621	D
323	Printing & related support activities .....	8	3	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities .....	8	3	2	f	D	D	D	D	D	D	D	D
32311	Printing .....	8	3	2	f	D	D	D	D	D	D	D	D
323113	Commercial screen printing .....	8	3	2	f	D	D	D	D	D	D	D	D
<b>PITTSFORD TOWN, NY</b>													
31-33	Manufacturing ....	5	28	8	1 383	46 975	867	1 821	20 505	111 523	63 691	178 712	4 772
332	Fabricated metal product mfg .....	9	3	1	f	D	D	D	D	D	D	D	D
3325	Hardware mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
33251	Hardware mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
332510	Hardware mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
<b>PLATTSBURGH, NY</b>													
31-33	Manufacturing ....	1	54	19	2 459	73 087	1 914	3 797	50 600	220 743	213 880	435 758	D
322	Paper mfg .....	-	5	3	f	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills .....	-	2	2	f	D	D	D	D	D	D	D	D
32212	Paper mills .....	-	2	2	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills .....	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg .....	2	5	5	f	D	D	D	D	D	D	D	D
<b>PORT CHESTER, NY</b>													
31-33	Manufacturing ....	1	42	13	1 054	30 753	813	1 989	18 927	70 946	66 517	137 145	6 421
<b>PORT JERVIS, NY</b>													
31-33	Manufacturing ....	3	17	10	1 424	31 358	1 076	2 089	18 480	63 484	37 841	101 275	4 413
325	Chemical mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
32562	Toilet preparation mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
325620	Toilet preparation mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>POUGHKEEPSIE, NY</b>													
31-33	Manufacturing ....	-	38	15	h	D	D	D	D	D	D	D	18 962
334	Computer & electronic product mfg .....	-	3	3	h	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	-	3	3	h	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	-	3	3	h	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
334419	Other electronic component mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
<b>POUGHKEEPSIE TOWN BALANCE, NY *</b>													
31-33	Manufacturing ....	1	34	12	878	24 754	649	1 166	13 107	78 430	50 469	127 756	4 789



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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>QUEENSBURY TOWN, NY</b>													
31-33	Manufacturing ....	1	27	6	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	7	1	f	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg.....	-	4	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg.....	-	4	1	f	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
<b>RENSELAER, NY</b>													
31-33	Manufacturing ....	2	15	4	1 146	44 845	641	1 044	15 999	58 919	168 252	233 305	12 424
325	Chemical mfg.....	3	2	2	f	D	D	D	D	D	D	D	D
<b>RIVERHEAD TOWN, NY</b>													
31-33	Manufacturing ....	2	36	7	793	31 370	515	984	15 118	57 507	55 890	113 000	1 479
<b>ROCHESTER, NY</b>													
31-33	Manufacturing ....	-	533	201	51 405	2 218 800	31 693	70 150	1 198 572	7 098 433	5 086 305	12 269 688	492 044
311	Food mfg.....	6	37	8	914	24 487	538	1 031	12 376	73 956	146 489	219 877	6 020
312	Beverage & tobacco product mfg.....	-	8	4	f	D	D	D	D	D	D	D	D
3121	Beverage mfg.....	-	8	4	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
315	Apparel mfg.....	-	2	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
31522	Men's & boys' cut & sew apparel mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg.....	4	16	9	870	28 970	624	1 367	17 841	64 521	80 486	144 416	5 235
3222	Converted paper product mfg.....	4	15	8	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	1	80	19	1 458	51 053	1 048	2 049	30 909	89 548	57 392	147 582	12 566
3231	Printing & related support activities.....	1	80	19	1 458	51 053	1 048	2 049	30 909	89 548	57 392	147 582	12 566
32311	Printing.....	1	67	12	1 030	36 216	737	1 402	22 389	63 146	49 025	112 881	D
323110	Commercial lithographic printing..	-	41	8	783	29 086	561	1 093	18 249	49 462	38 293	88 433	8 315
325	Chemical mfg.....	-	20	10	j	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
325413	In-vitro diagnostic substance mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
3256	Soap, cleaning compound, & toilet preparation mfg..	-	4	3	f	D	D	D	D	D	D	D	D
32561	Soap & cleaning compound mfg.....	-	4	3	f	D	D	D	D	D	D	D	D
3259	Other chemical product mfg.....	-	10	4	j	D	D	D	D	D	D	D	D
32599	All other chemical product & preparation mfg.....	-	7	3	j	D	D	D	D	D	D	D	D
325992	Photographic film, paper, plate, & chemical mfg.....	-	4	2	j	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	3	15	8	706	19 006	555	1 041	12 922	36 180	29 559	65 777	1 893
3261	Plastics product mfg.....	3	15	8	706	19 006	555	1 041	12 922	36 180	29 559	65 777	1 893
32619	Other plastics product mfg.....	4	11	5	500	14 947	389	848	10 103	27 108	20 075	47 184	1 521

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			Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>31-33</b>	<b>ROCHESTER, NY—Con.</b>												
	<b>Manufacturing—Con.</b>												
332	Fabricated metal product mfg .....	1	128	47	4 155	130 944	3 120	6 122	87 612	282 692	176 483	458 398	21 305
3321	Forging & stamping .....	—	12	8	719	22 624	536	1 195	15 311	47 535	59 784	106 059	5 600
33211	Forging & stamping .....	—	12	8	719	22 624	536	1 195	15 311	47 535	59 784	106 059	5 600
332116	Metal stamping .....	—	7	6	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg .....	2	19	7	560	19 064	448	831	12 633	44 339	21 829	65 805	1 851
33232	Ornamental & architectural metal products mfg .....	1	15	7	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg .....	1	67	24	2 002	60 421	1 528	3 000	42 976	117 962	70 773	187 940	10 886
33271	Machine shops .....	1	44	11	1 238	34 397	934	1 676	25 211	67 783	43 081	110 438	5 595
332710	Machine shops .....	1	44	11	1 238	34 397	934	1 676	25 211	67 783	43 081	110 438	5 595
33272	Turned product & screw, nut, & bolt mfg .....	1	23	13	764	26 024	594	1 324	17 765	50 179	27 692	77 502	5 291
332721	Precision turned product mfg .....	1	18	13	742	25 415	576	1 296	17 345	49 065	26 745	75 435	D
333	Machinery mfg .....	—	86	37	h	D	D	D	D	D	D	D	19 742
3333	Commercial & service industry machinery mfg ..	1	18	7	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg .....	1	18	7	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg .....	1	50	22	2 598	105 701	1 633	3 224	58 370	209 827	158 317	370 152	11 945
33351	Metalworking machinery mfg .....	1	50	22	2 598	105 701	1 633	3 224	58 370	209 827	158 317	370 152	11 945
333512	Machine tool (metal cutting types) mfg ...	—	4	4	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	—	31	23	3 796	158 235	2 099	4 062	69 835	356 429	163 648	525 172	15 542
3342	Communications equipment mfg .....	—	7	6	2 246	99 643	1 152	2 332	45 628	230 370	98 567	332 535	6 879
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	—	4	4	g	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	—	4	4	g	D	D	D	D	D	D	D	D
33429	Other communications equipment mfg .....	—	3	2	f	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg .....	—	3	2	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	1	8	7	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	1	8	7	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg .....	—	14	10	907	35 829	523	1 028	15 961	73 481	38 900	114 032	5 598
33451	Navigational, measuring, medical, & control instruments mfg .....	—	14	10	907	35 829	523	1 028	15 961	73 481	38 900	114 032	5 598
335	Electrical equipment, appliance, & component mfg .....	—	6	3	h	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	—	3	2	h	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	—	3	2	h	D	D	D	D	D	D	D	D
335312	Motor & generator mfg .....	—	1	1	h	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	—	7	4	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	—	5	4	h	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg .....	—	3	2	h	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg .....	—	3	2	h	D	D	D	D	D	D	D	D
337	Furniture & related product mfg .....	9	18	2	507	14 056	390	750	8 808	25 910	23 264	48 992	1 157

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<b>ROCHESTER, NY—Con.</b>													
<b>31-33</b>	<b>Manufacturing—Con.</b>												
339	Miscellaneous mfg.....	1	43	16	3 428	119 046	2 620	6 218	89 206	299 850	61 170	363 170	D
3391	Medical equipment & supplies mfg.....	1	21	9	2 889	102 552	2 301	5 614	81 795	266 374	33 577	302 165	D
33911	Medical equipment & supplies mfg.....	1	21	9	2 889	102 552	2 301	5 614	81 795	266 374	33 577	302 165	D
339115	Ophthalmic goods mfg.....	—	8	5	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg..	3	22	7	539	16 494	319	604	7 411	33 476	27 593	61 005	1 531
<b>ROME, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>3</b>	<b>49</b>	<b>21</b>	<b>2 278</b>	<b>72 865</b>	<b>1 579</b>	<b>3 135</b>	<b>44 257</b>	<b>148 075</b>	<b>390 177</b>	<b>547 484</b>	<b>15 520</b>
331	Primary metal mfg.....	—	3	3	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing.....	—	2	2	f	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, & alloying ...	—	2	2	f	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, & extruding ..	—	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	9	3	3	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg.....	9	3	3	f	D	D	D	D	D	D	D	D
<b>SALAMANCA, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>3</b>	<b>10</b>	<b>7</b>	<b>589</b>	<b>11 811</b>	<b>454</b>	<b>895</b>	<b>7 385</b>	<b>24 412</b>	<b>26 080</b>	<b>50 835</b>	<b>1 256</b>
<b>SALINA TOWN BALANCE, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>49</b>	<b>16</b>	<b>1 651</b>	<b>54 962</b>	<b>1 128</b>	<b>2 365</b>	<b>30 397</b>	<b>112 281</b>	<b>84 823</b>	<b>198 247</b>	<b>9 974</b>
<b>SARATOGA SPRINGS, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>28</b>	<b>9</b>	<b>1 782</b>	<b>59 533</b>	<b>1 443</b>	<b>3 048</b>	<b>46 328</b>	<b>174 855</b>	<b>196 401</b>	<b>373 977</b>	<b>4 777</b>
323	Printing & related support activities.....	—	4	1	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	—	4	1	f	D	D	D	D	D	D	D	D
32311	Printing .....	—	4	1	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	—	2	1	f	D	D	D	D	D	D	D	D
<b>SAUGERTIES, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>17</b>	<b>6</b>	<b>892</b>	<b>28 593</b>	<b>637</b>	<b>1 367</b>	<b>16 532</b>	<b>73 741</b>	<b>83 393</b>	<b>155 211</b>	<b>5 265</b>
323	Printing & related support activities.....	—	3	3	551	16 711	449	952	11 753	44 321	51 104	93 834	D
3231	Printing & related support activities.....	—	3	3	551	16 711	449	952	11 753	44 321	51 104	93 834	D
32311	Printing .....	—	3	3	551	16 711	449	952	11 753	44 321	51 104	93 834	D
<b>SCHENECTADY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>—</b>	<b>66</b>	<b>18</b>	<b>3 401</b>	<b>154 864</b>	<b>2 592</b>	<b>5 573</b>	<b>109 167</b>	<b>568 643</b>	<b>680 537</b>	<b>1 302 892</b>	<b>38 273</b>
325	Chemical mfg.....	—	2	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
325192	Cyclic crude & intermediate mfg.....	—	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg.....	—	3	2	g	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg.....	—	2	2	g	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg.....	—	2	2	g	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg.....	—	2	2	g	D	D	D	D	D	D	D	D
<b>SCHODACK TOWN, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>7</b>	<b>8</b>	<b>6</b>	<b>600</b>	<b>20 398</b>	<b>423</b>	<b>883</b>	<b>12 944</b>	<b>27 014</b>	<b>40 370</b>	<b>68 435</b>	<b>7 055</b>

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NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>SENECA FALLS, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>10</b>	<b>4</b>	<b>g</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
333	Machinery mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
33391	Pump & compressor mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>SHERRILL, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>4</b>	<b>2</b>	<b>g</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
339	Miscellaneous mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	2	1	g	D	D	D	D	D	D	D	D
33991	Jewelry & silverware mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
339912	Silverware & plated ware mfg .....	-	2	1	g	D	D	D	D	D	D	D	D
<b>SIDNEY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>6</b>	<b>6</b>	<b>h</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>
323	Printing & related support activities .....	-	1	1	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities .....	-	1	1	g	D	D	D	D	D	D	D	D
32311	Printing .....	-	1	1	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	1	1	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg .....	-	2	2	g	D	D	D	D	D	D	D	D
334417	Electronic connector mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>SMITHTOWN TOWN, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>203</b>	<b>86</b>	<b>7 686</b>	<b>297 208</b>	<b>4 797</b>	<b>9 337</b>	<b>130 239</b>	<b>701 960</b>	<b>688 557</b>	<b>1 418 745</b>	<b>59 591</b>
322	Paper mfg .....	4	7	6	606	21 394	425	814	12 742	57 128	63 260	120 256	4 302
323	Printing & related support activities .....	4	32	10	542	18 999	426	825	12 653	40 737	29 828	71 153	5 896
3231	Printing & related support activities .....	4	32	10	542	18 999	426	825	12 653	40 737	29 828	71 153	5 896
32311	Printing .....	4	28	10	535	18 660	420	813	12 419	40 066	29 664	70 320	5 855
325	Chemical mfg .....	3	11	9	1 084	31 712	748	1 362	16 101	77 165	72 578	150 991	13 948
3254	Pharmaceutical & medicine mfg .....	4	6	4	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	4	6	4	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	-	24	13	2 177	115 824	936	1 732	29 913	275 057	336 528	640 690	22 138
3342	Communications equipment mfg .....	-	7	5	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg .....	-	5	3	688	37 130	416	670	12 991	91 512	83 565	176 475	8 581
334220	Radio & TV broadcasting & wireless communications equipment mfg .....	-	5	3	688	37 130	416	670	12 991	91 512	83 565	176 475	8 581
3344	Semiconductor & other electronic component mfg .....	-	7	3	759	42 726	124	270	4 330	43 175	103 663	178 191	9 384
33441	Semiconductor & other electronic component mfg .....	-	7	3	759	42 726	124	270	4 330	43 175	103 663	178 191	9 384
334413	Semiconductor & related device mfg ...	-	3	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	7	8	4	593	21 575	365	912	10 949	39 222	23 387	62 890	2 831
3353	Electrical equipment mfg ..	7	6	3	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg .....	7	6	3	f	D	D	D	D	D	D	D	D

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	<b>SOLVAY, NY *</b>												
31-33	Manufacturing ....	-	10	7	633	21 920	514	1 092	16 465	62 716	43 305	104 630	6 744
	<b>SOUTHEAST TOWN, NY</b>												
31-33	Manufacturing ....	2	27	8	789	28 405	561	1 176	15 638	72 095	38 571	110 482	7 855
	<b>SUFFERN, NY *</b>												
31-33	Manufacturing ....	-	15	4	f	D	D	D	D	D	D	D	D
325	Chemical mfg .....	-	2	2	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
	<b>SYRACUSE, NY</b>												
31-33	Manufacturing ....	-	163	55	10 193	409 522	5 800	11 417	183 090	1 111 876	806 731	1 958 056	41 811
323	Printing & related support activities .....	1	29	8	556	16 207	357	694	9 923	30 774	24 642	55 467	1 759
3231	Printing & related support activities .....	1	29	8	556	16 207	357	694	9 923	30 774	24 642	55 467	1 759
332	Fabricated metal product mfg .....	-	18	9	816	28 336	618	1 244	17 979	56 729	37 617	93 587	4 700
333	Machinery mfg .....	-	18	10	2 177	103 995	1 286	2 922	56 849	299 071	391 888	695 353	9 903
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	-	5	4	g	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .....	-	5	4	g	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refrig equip mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	-	11	2	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
335	Electrical equipment, appliance, & component mfg .....	-	3	1	g	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
33593	Wiring device mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg .....	-	20	4	1 057	33 550	891	1 713	24 558	65 851	16 534	83 609	2 872
3391	Medical equipment & supplies mfg .....	-	10	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg .....	-	10	1	f	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg .....	-	3	1	f	D	D	D	D	D	D	D	D
	<b>TONAWANDA, NY</b>												
31-33	Manufacturing ....	-	54	19	3 108	121 808	2 327	4 856	86 110	345 749	310 788	658 410	35 672
326	Plastics & rubber products mfg .....	-	3	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

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

NAICS code	Geographic area and industry	E <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>TONAWANDA TOWN BALANCE, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>75</b>	<b>39</b>	<b>7 677</b>	<b>383 561</b>	<b>6 220</b>	<b>13 902</b>	<b>305 617</b>	<b>907 013</b>	<b>2 300 931</b>	<b>3 232 242</b>	<b>72 737</b>
326	Plastics & rubber products mfg .....	-	5	3	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg .....	-	5	3	f	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
326121	Unsupported plastics profile shape mfg ....	-	3	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	-	5	3	h	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	5	3	h	D	D	D	D	D	D	D	D
33631	Motor vehicle gasoline engine & engine parts mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
336312	Gasoline engine & engine parts mfg ....	-	1	1	h	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>TROY, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>41</b>	<b>14</b>	<b>1 727</b>	<b>53 208</b>	<b>749</b>	<b>1 475</b>	<b>20 694</b>	<b>77 144</b>	<b>110 201</b>	<b>196 881</b>	<b>6 741</b>
333	Machinery mfg .....	-	4	3	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
33311	Agricultural implement mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333112	Lawn & garden tractor & home lawn & garden equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>UNION TOWN BALANCE, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>26</b>	<b>14</b>	<b>2 692</b>	<b>92 446</b>	<b>1 518</b>	<b>3 085</b>	<b>34 954</b>	<b>171 412</b>	<b>125 931</b>	<b>293 530</b>	<b>D</b>
334	Computer & electronic product mfg .....	-	7	5	2 003	75 974	954	2 009	23 576	140 519	97 354	234 520	D
3344	Semiconductor & other electronic component mfg .....	1	3	3	f	D	D	D	D	D	D	D	2 099
33441	Semiconductor & other electronic component mfg .....	1	3	3	f	D	D	D	D	D	D	D	2 099
3345	Navigational, measuring, medical, & control instruments mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg .....	-	3	2	g	D	D	D	D	D	D	D	D
334511	Search, detection, navigation, & guidance instrument mfg .....	-	1	1	g	D	D	D	D	D	D	D	D
<b>UTICA, NY</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	<b>2</b>	<b>102</b>	<b>32</b>	<b>4 095</b>	<b>118 687</b>	<b>2 732</b>	<b>4 955</b>	<b>60 487</b>	<b>251 483</b>	<b>256 992</b>	<b>509 177</b>	<b>18 137</b>
314	Textile product mills .....	-	3	3	f	D	D	D	D	D	D	D	D
3149	Other textile product mills ..	-	3	3	f	D	D	D	D	D	D	D	D
31499	All other textile product mills .....	-	3	3	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg .....	3	6	4	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg .....	2	4	3	742	27 700	385	737	11 003	41 051	41 318	82 537	D
33451	Navigational, measuring, medical, & control instruments mfg .....	2	4	3	742	27 700	385	737	11 003	41 051	41 318	82 537	D
334510	Electromedical & electrotherapeutic apparatus mfg .....	1	2	2	f	D	D	D	D	D	D	D	D
<b>VAN BUREN TOWN BALANCE, NY *</b>													
<b>31-33</b>	<b>Manufacturing ....</b>	-	<b>10</b>	<b>5</b>	<b>610</b>	<b>18 474</b>	<b>437</b>	<b>831</b>	<b>9 127</b>	<b>32 310</b>	<b>44 083</b>	<b>79 484</b>	<b>2 157</b>

**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	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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
<b>VESTAL TOWN, NY</b>													
31-33	Manufacturing ....	2	23	14	982	25 664	753	1 465	17 259	64 250	67 818	129 182	5 205
<b>WATERTOWN, NY</b>													
31-33	Manufacturing ....	1	41	15	1 855	56 049	1 198	2 307	30 249	138 761	137 269	279 929	8 141
<b>WATERVLIET, NY</b>													
31-33	Manufacturing ....	3	19	6	844	37 675	554	1 015	21 069	43 293	94 473	136 258	D
<b>WEBSTER, NY *</b>													
31-33	Manufacturing ....	-	10	4	h	D	D	D	D	D	D	D	D
333	Machinery mfg .....	-	3	2	h	D	D	D	D	D	D	D	D
3333	Commercial & service industry machinery mfg ..	-	1	1	h	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
333315	Photographic & photocopying equipment mfg .....	-	1	1	h	D	D	D	D	D	D	D	D
<b>WEBSTER TOWN BALANCE, NY *</b>													
31-33	Manufacturing ....	-	21	7	946	31 126	690	1 426	17 784	76 243	70 331	145 640	8 845
<b>WELLSVILLE, NY</b>													
31-33	Manufacturing ....	-	17	5	1 806	69 473	1 081	2 169	34 855	162 026	94 275	253 552	8 279
332	Fabricated metal product mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
3324	Boiler, tank, & shipping container mfg .....	-	1	1	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
333	Machinery mfg .....	-	2	1	f	D	D	D	D	D	D	D	D
3336	Engine, turbine, & power transmission equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
33361	Engine, turbine, & power transmission equipment mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
333611	Turbine & turbine generator set unit mfg .....	-	1	1	f	D	D	D	D	D	D	D	D
<b>WESTBURY, NY *</b>													
31-33	Manufacturing ....	3	47	13	989	39 575	643	1 239	19 703	85 586	46 840	135 886	4 739
<b>WEST SENECA TOWN, NY</b>													
31-33	Manufacturing ....	1	38	6	606	17 060	479	935	12 165	222 121	46 562	267 169	2 332
<b>WHEATFIELD TOWN, NY</b>													
31-33	Manufacturing ....	-	31	15	1 708	56 566	1 268	2 620	32 449	222 193	94 714	331 304	8 193
327	Nonmetallic mineral product mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product mfg .....	-	3	2	f	D	D	D	D	D	D	D	D
32791	Abrasive product mfg ...	-	2	1	f	D	D	D	D	D	D	D	D
327910	Abrasive product mfg .	-	2	1	f	D	D	D	D	D	D	D	D
<b>WHITESBORO, NY *</b>													
31-33	Manufacturing ....	9	3	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg ....	9	1	1	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>2</sup>	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	<b>WHITESTOWN TOWN BALANCE, NY *</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>8</b>	<b>12</b>	<b>7</b>	<b>944</b>	<b>24 878</b>	<b>780</b>	<b>1 121</b>	<b>20 306</b>	<b>83 854</b>	<b>160 082</b>	<b>244 104</b>	<b>5 775</b>
336	Transportation equipment mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg .....	9	1	1	f	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	9	1	1	f	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	9	1	1	f	D	D	D	D	D	D	D	D
	<b>YONKERS, NY</b>												
<b>31-33</b>	<b>Manufacturing ....</b>	<b>1</b>	<b>131</b>	<b>34</b>	<b>4 074</b>	<b>132 632</b>	<b>3 114</b>	<b>5 730</b>	<b>79 299</b>	<b>274 591</b>	<b>463 478</b>	<b>742 559</b>	<b>23 977</b>
326	Plastics & rubber products mfg .....	-	5	4	883	29 826	719	1 259	18 990	50 815	56 427	107 646	8 725
3261	Plastics product mfg .....	-	5	4	883	29 826	719	1 259	18 990	50 815	56 427	107 646	8 725
32619	Other plastics product mfg .....	1	3	2	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg .....	1	3	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg .....	-	6	3	531	18 986	418	830	12 683	36 384	35 779	72 529	2 971

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

<sup>2</sup>Industries with 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
<b>NEW YORK</b>		<b>NEW YORK—Con.</b>	
Companies <sup>1</sup> .....	number.. 23 148	Quantity of electricity purchased for heat and power .....	1,000 kWh.. 25 245 271
		Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 1 570 999
All establishments .....	number.. 23 908	Total value of shipments .....	\$1,000.. 146 720 195
Establishments with 1 to 19 employees .....	number.. 17 219	Value of resales .....	\$1,000.. 6 397 964
Establishments with 20 to 99 employees .....	number.. 5 230	Value added .....	\$1,000.. 76 999 763
Establishments with 100 employees or more .....	number.. 1 459	Total inventories, beginning of year .....	\$1,000.. 17 651 639
All employees .....	number.. 785 891	Finished goods inventories, beginning of year .....	\$1,000.. 6 036 585
Total compensation <sup>2</sup> .....	\$1,000.. 33 159 866	Work-in-process inventories, beginning of year .....	\$1,000.. 5 815 001
Annual payroll .....	\$1,000.. 26 515 818	Materials and supplies inventories, beginning of year .....	\$1,000.. 5 800 053
Total fringe benefits .....	\$1,000.. 6 644 048	Total inventories, end of year .....	\$1,000.. 17 550 655
Production workers, average for year .....	number.. 538 186	Finished goods inventories, end of year .....	\$1,000.. 6 015 212
Production workers on March 12 .....	number.. 533 685	Work-in-process inventories, end of year .....	\$1,000.. 5 450 720
Production workers on May 12 .....	number.. 537 074	Materials and supplies inventories, end of year .....	\$1,000.. 6 084 723
Production workers on August 12 .....	number.. 539 494	Gross book value of total assets at beginning of year .....	\$1,000.. 54 283 278
Production workers on November 12 .....	number.. 542 491	Total capital expenditures (new and used) .....	\$1,000.. 5 724 553
Production-worker hours .....	\$1,000.. 1 057 483	Capital expenditures for buildings and other structures (new and used) .....	\$1,000.. 980 934
Production-worker wages .....	\$1,000.. 14 695 767	Capital expenditures for machinery and equipment (new and used) .....	\$1,000.. 4 743 619
Total cost of materials .....	\$1,000.. 69 255 045	Total retirements <sup>2</sup> .....	\$1,000.. 1 849 171
Cost of materials, parts, containers, etc., consumed .....	\$1,000.. 58 749 348	Gross book value of total assets at end of year .....	\$1,000.. 58 158 660
Cost of resales .....	\$1,000.. 5 032 767	Total depreciation during year <sup>2</sup> .....	\$1,000.. 3 816 314
Cost of fuels .....	\$1,000.. 825 558	Total rental payments <sup>2</sup> .....	\$1,000.. 1 303 824
Cost of purchased electricity .....	\$1,000.. 1 548 495	Buildings and other structures rental payments <sup>2</sup> .....	\$1,000.. 665 446
Cost of contract work .....	\$1,000.. 3 098 877	Machinery and equipment rental payments <sup>2</sup> .....	\$1,000.. 638 378

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

<sup>2</sup>These items are collected in the ASM and estimated for the remaining establishments.

# Appendix A.

## Explanation of Terms

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### **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

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

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

### **DEPRECIATION CHARGES FOR FIXED ASSETS**

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

### **EMPLOYEES**

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

#### **Production Workers**

This item includes workers (up through the 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

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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

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

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

### **VALUE ADDED**

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

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### SECTOR 31-33 MANUFACTURING

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

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

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

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

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

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

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

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

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

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

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

### **311 Food Manufacturing**

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

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

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

#### **3111 Animal Food Manufacturing**

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

##### **31111 Animal Food Manufacturing**

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

##### **311111 Dog and Cat Food Manufacturing**

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

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

2047 Dog and cat food

#### **311119 Other Animal Food Manufacturing**

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

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

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

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

#### **3112 Grain and Oilseed Milling**

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

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

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

##### **311211 Flour Milling**

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

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

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

2041 Flour and other grain mill products

##### **311212 Rice Milling**

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

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

2044 Rice milling

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

### **311213 Malt Manufacturing**

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

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

2083 Malt

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

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

#### **311221 Wet Corn Milling**

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

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

2046 Wet corn milling

#### **311222 Soybean Processing**

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

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

2075 Soybean oil mills (pt)

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

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

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

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

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

2074 Cottonseed oil mills (pt)

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

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

#### **311225 Fats and Oils Refining and Blending**

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

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

2074 Cottonseed oil mills (pt)

2075 Soybean oil mills (pt)

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

2077 Animal and marine fats and oil (pt)

2079 Shortening and cooking oils

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

#### **31123 Breakfast Cereal Manufacturing**

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



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### **311230 Breakfast Cereal Manufacturing**

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

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

2043 Cereal breakfast foods (pt)

### **3113 Sugar and Confectionery Product Manufacturing**

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

#### **31131 Sugar Manufacturing**

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

##### **311311 Sugarcane Mills**

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

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

2061 Raw cane sugar

##### **311312 Cane Sugar Refining**

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

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

2062 Cane sugar refining

##### **311313 Beet Sugar Manufacturing**

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

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

2063 Beet sugar

### **31132 Chocolate and Confectionery Manufacturing From Cacao Beans**

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

### **311320 Chocolate and Confectionery Manufacturing From Cacao Beans**

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

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

2066 Chocolate and cocoa products

#### **31133 Confectionery Manufacturing From Purchased Chocolate**

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

##### **311330 Confectionery Manufacturing From Purchased Chocolate**

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

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

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

5441 Candy, nut, and confectionery stores (pt)

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

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

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

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### **3113302 Chocolate and Chocolate-type Confectionery – Manufacturer**

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

### **31134 Nonchocolate Confectionery Manufacturing**

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

### **311340 Nonchocolate Confectionery Manufacturing**

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

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

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

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

5441 Candy, nut, and confectionery stores (pt)

### **3113401 Nonchocolate-Type Confectionery Products Retail – Manufacturer**

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

### **3113402 Nonchocolate-Type Confectionery Products – Manufacturer**

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

### **3114 Fruit and Vegetable Preserving and Specialty Food Manufacturing**

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

### **31141 Frozen Food Manufacturing**

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

### **311411 Frozen Fruit, Juice, and Vegetable Manufacturing**

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

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

2037 Frozen fruits and vegetables

### **311412 Frozen Specialty Food Manufacturing**

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

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

2038 Frozen specialties, n.e.c.

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

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

### **311421 Fruit and Vegetable Canning**

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

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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

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## **3116 Meat Product Manufacturing**

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

### **31161 Animal Slaughtering and Processing**

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

#### **311611 Animal (Except Poultry) Slaughtering**

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

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

2011 Meat packing plants

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

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

#### **311612 Meat Processed From Carcasses**

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

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

2013 Sausages and other prepared meats

5147 Meat and meat products (pt)

#### **311613 Rendering and Meat Byproduct Processing**

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

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

2077 Animal and marine fats and oil (pt)

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

### **311615 Poultry Processing**

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

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

2015 Poultry and egg processing (pt)

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

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

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

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

##### **311711 Seafood Canning**

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

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

2077 Animal and marine fats and oil (pt)

2091 Canned and cured seafood

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

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

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

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

2077 Animal and marine fats and oil (pt)

2092 Prepared fresh or frozen fish and seafood

### **3118 Bakeries and Tortilla Manufacturing**

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

#### **31181 Bread and Bakery Product Manufacturing**

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

##### **311811 Retail Bakeries**

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

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

5461 Retail bakeries (pt)

##### **311812 Commercial Bakeries**

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

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

2051 Bread, cake, and related products

2052 Cookies and crackers (pt)

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

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

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

2053 Frozen bakery products, except bread

#### **31182 Cookie, Cracker, and Pasta Manufacturing**

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

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

#### **311821 Cookie and Cracker Manufacturing**

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

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

2052 Cookies and crackers (pt)

#### **311822 Flour Mixes and Dough Manufacturing From Purchased Flour**

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

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

2045 Blended and prepared flour

#### **311823 Dry Pasta Manufacturing**

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

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

2098 Macaroni and spaghetti

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

#### **31183 Tortilla Manufacturing**

This industry comprises establishments primarily engaged in manufacturing tortillas.

#### **311830 Tortilla Manufacturing**

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

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

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



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### **3119 Other Food Manufacturing**

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

#### **31191 Snack Food Manufacturing**

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

##### **311911 Roasted Nuts and Peanut Butter Manufacturing**

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

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

2068 Salted and roasted nuts and seeds

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

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

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

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

2052 Cookies and crackers (pt)

2096 Potato chips and similar snacks

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

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

#### **311920 Coffee and Tea Manufacturing**

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

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

2043 Cereal breakfast foods (pt)

2095 Roasted coffee (pt)

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

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

#### **31193 Flavoring Syrup and Concentrate Manufacturing**

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

##### **311930 Flavoring Syrup and Concentrate Manufacturing**

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

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

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

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

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

### **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

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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)

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### **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.

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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.

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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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

arranging for apparel to be made from their materials, and marketing finished apparel, are included. Unisex 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.

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### **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)

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### **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



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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

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### **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)



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### **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.

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### **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.



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### **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).

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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.

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The data published with NAICS code 3231 10 include the following SIC industries:

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

### **323111 Commercial Gravure Printing**

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

The data published with NAICS code 3231 11 include the following SIC industries:

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

### **323112 Commercial Flexographic Printing**

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

The data published with NAICS code 3231 12 include the following SIC industries:

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

### **323113 Commercial Screen Printing**

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

The data published with NAICS code 3231 13 include the following SIC industries:

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

### **323114 Quick Printing**

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

The data published with NAICS code 3231 14 include the following SIC industries:

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

### **323115 Digital Printing**

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

The data published with NAICS code 3231 15 include the following SIC industry:

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

### **323116 Manifold Business Form Printing**

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

The data published with NAICS code 3231 16 include the following SIC industries:

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

### **323117 Book Printing**

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

The data published with NAICS code 3231 17 include the following SIC industry:

- 2732 Book printing

### **323118 Blankbook, Looseleaf Binders, and Devices Manufacturing**

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

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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.



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### **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)

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### **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.

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### **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



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noncellulosic fibers and filaments; pesticides, fertilizers, and other agricultural chemicals; pharmaceuticals and medicines; paints, coatings, and adhesives; soaps and cleaning compounds; and toilet preparations).

### **32591 Printing Ink Manufacturing**

This industry comprises establishments primarily engaged in manufacturing printing and inkjet inks and inkjet cartridges.

### **325910 Printing Ink Manufacturing**

This U.S. industry comprises establishments primarily engaged in manufacturing printing and inkjet inks and inkjet cartridges.

The data published with NAICS code 325910 include the following SIC industry:

2893 Printing ink

### **32592 Explosives Manufacturing**

This industry comprises establishments primarily engaged in manufacturing explosives.

### **325920 Explosives Manufacturing**

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

The data published with NAICS code 325920 include the following SIC industry:

2892 Explosives

### **32599 All Other Chemical Product and Preparation Manufacturing**

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

### **325991 Custom Compounding of Purchased Resins**

This U.S. industry comprises establishments primarily engaged in (1) custom mixing and blending plastics resins made elsewhere or (2) reformulating plastics resins from recycled plastics products.

The data published with NAICS code 325991 include the following SIC industries:

3087 Custom compound purchased resins

### **325992 Photographic Film, Paper, Plate, and Chemical Manufacturing**

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

The data published with NAICS code 325992 include the following SIC industry:

3861 Photographic equipment and supplies (pt)

### **325998 All Other Miscellaneous Chemical Product and Preparation Manufacturing**

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

The data published with NAICS code 325998 include the following SIC industries:

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

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

3952 Lead pencils and art goods (pt)

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

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 325998 do not include establishments primarily engaged in aerosol packaging. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### **326 Plastics and Rubber Products Manufacturing**

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

Many manufacturing activities use plastics or rubber, for example the manufacture of footwear, or furniture. Typically, the production process of these products

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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.

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### **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.



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### **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.

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### **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.



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### **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



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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

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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 skillet) 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)

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



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### **332439 Other Metal Container Manufacturing**

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

The data published with NAICS code 332439 include the following SIC industries:

- 3412 Metal barrels, drums, and pails
- 3429 Hardware, n.e.c. (pt)
- 3444 Sheet metal work (pt)
- 3499 Fabricated metal products, n.e.c. (pt)
- 3537 Industrial trucks and tractors (pt)

### **3325 Hardware Manufacturing**

This NAICS industry group includes establishments classified in NAICS Industry 33251, Hardware Manufacturing.

#### **33251 Hardware Manufacturing**

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

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### **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.

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### **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.



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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.

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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)

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### **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

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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).

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### **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.

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### **333921 Elevator and Moving Stairway Manufacturing**

This U.S. industry comprises establishments primarily engaged in manufacturing elevators and moving stairways.

The data published with NAICS code 333912 include the following SIC industry:

3534 Elevators and moving stairways

### **333922 Conveyor and Conveying Equipment Manufacturing**

This U.S. industry comprises establishments primarily engaged in manufacturing conveyors and conveying equipment, such as gravity conveyors, trolley conveyors, tow conveyors, pneumatic tube conveyors, carousel conveyors, farm conveyors, and belt conveyors.

The data published with NAICS code 333922 include the following SIC industries:

3523 Farm machinery and equipment (pt)

3535 Conveyors and conveying equipment

### **333923 Overhead Traveling Crane, Hoist, and Monorail System Manufacturing**

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

The data published with NAICS code 333923 include the following SIC industries:

3531 Construction machinery (pt)

3536 Hoists, cranes, and monorails

### **333924 Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing**

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

The data published with NAICS code 333924 include the following SIC industry:

3537 Industrial trucks and tractors (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332994 do not include establishments primarily engaged in the manufacture of tranquilizer guns. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### **33399 All Other General-Purpose Machinery Manufacturing**

This industry comprises establishments primarily engaged in manufacturing general-purpose machinery (except ventilation, heating, air-conditioning, and commercial refrigeration equipment; metal working machinery; engines, turbines, and power transmission equipment; pumps and compressors; and material handling equipment).

#### **333991 Power-Driven Handtool Manufacturing**

This U.S. industry comprises establishments primarily engaged in manufacturing power-driven (e.g., battery, corded, pneumatic) handtools, such as drills, screwguns, circular saws, chain saws, staplers, and nailers.

The data published with NAICS code 333991 include the following SIC industry:

3546 Power-driven handtools

#### **333992 Welding and Soldering Equipment Manufacturing**

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

The data published with NAICS code 333992 include the following SIC industries:

3548 Welding apparatus (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

#### **333993 Packaging Machinery Manufacturing**

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

The data published with NAICS code 333993 include the following SIC industry:

3565 Packaging machinery

#### **333994 Industrial Process Furnace and Oven Manufacturing**

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

The data published with NAICS code 333994 include the following SIC industry:

3567 Industrial furnaces and ovens



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### **333995 Fluid Power Cylinder and Actuator Manufacturing**

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

The data published with NAICS code 333995 include the following SIC industries:

3593 Fluid power cylinders and actuators

3728 Aircraft parts and equipment, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333995 include establishments primarily engaged in the manufacture of aerospace-type fluid power actuators. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### **333996 Fluid Power Pump and Motor Manufacturing**

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

The data published with NAICS code 333996 include the following SIC industries:

3594 Fluid power pumps and motors

3728 Aircraft parts and equipment, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333995 include establishments primarily engaged in the manufacture of aerospace-type fluid power actuators. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### **333997 Scale and Balance (Except Laboratory) Manufacturing**

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

The data published with NAICS code 333997 include the following SIC industry:

3596 Scales and balances, except laboratory

### **333999 All Other Miscellaneous General-Purpose Machinery Manufacturing**

This U.S. industry comprises establishments primarily engaged in manufacturing general-purpose machinery (except ventilating, heating, air-conditioning, and commercial refrigeration equipment; metal working machinery;

engines, turbines, and power transmission equipment; pumps and compressors; material handling equipment; power-driven handtools; welding and soldering equipment; packaging machinery; industrial process furnaces and ovens; fluid power cylinders and actuators; fluid power pumps and motors; and scales and balances).

The data published with NAICS code 333999 include the following SIC industries:

3569 General industrial machinery, n.e.c.

3599 Industrial machinery, n.e.c. (pt)

### **334 Computer and Electronic Product Manufacturing**

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

### **3341 Computer and Peripheral Equipment Manufacturing**

This NAICS industry group includes establishments classified in NAICS Industry 33411, Computer and Peripheral Equipment Manufacturing.

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### **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

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made by these establishments are capacitors, resistors, microprocessors, bare and loaded printed circuit boards, electron tubes, electronic connectors, and computer modems.

### **334411 Electron Tube Manufacturing**

This U.S. industry comprises establishments primarily engaged in manufacturing electron tubes and parts (except glass blanks). Examples of products made by these establishments are cathode ray tubes (i.e., picture tubes), klystron tubes, magnetron tubes, and traveling wave tubes.

The data published with NAICS code 334411 include the following SIC industries:

3671 Electron tubes

### **334412 Bare Printed Circuit Board Manufacturing**

This U.S. industry comprises establishments primarily engaged in manufacturing bare (i.e., rigid or flexible) printed circuit boards without mounted electronic components. These establishments print, perforate, plate, screen, etch, or photoprint interconnecting pathways for electric current on laminates.

The data published with NAICS code 334412 include the following SIC industry:

3672 Printed circuit boards

### **334413 Semiconductor and Related Device Manufacturing**

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

The data published with NAICS code 334413 include the following SIC industry:

3674 Semiconductors and related devices

### **334414 Electronic Capacitor Manufacturing**

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

The data published with NAICS code 334414 include the following SIC industry:

3675 Electronic capacitors

### **334415 Electronic Resistor Manufacturing**

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

The data published with NAICS code 334415 include the following SIC industry:

3676 Electronic resistors

### **334416 Electronic Coil, Transformer, and Other Inductor Manufacturing**

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

The data published with NAICS code 334416 include the following SIC industries:

3661 Telephone and telegraph apparatus (pt)

3677 Electronic coils and transformers

3825 Instruments to measure electricity (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334416 include establishments primarily engaged in the manufacture of telephone transformers or portable instrument transformers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### **334417 Electronic Connector Manufacturing**

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

The data published with NAICS code 334417 include the following SIC industry:

3678 Electronic connectors

### **334418 Printed Circuit Assembly (Electronic Assembly) Manufacturing**

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

The data published with NAICS code 334418 include the following SIC industries:

3661 Telephone and telegraph apparatus (pt)

3679 Electronic components, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334418 do not include



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establishments primarily engaged in the manufacture of plotter controllers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

### **334419 Other Electronic Component Manufacturing**

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

The data published with NAICS code 334419 include the following SIC industry:

3679 Electronic components, n.e.c. (pt)

### **3345 Navigational, Measuring, Medical, and Control Instruments Manufacturing**

This NAICS industry group includes establishments classified in NAICS Industry 33451, Navigational, Measuring, Medical, and Control Instruments Manufacturing.

#### **33451 Navigational, Measuring, Medical, and Control Instruments Manufacturing**

This industry comprises establishments primarily engaged in manufacturing navigational, measuring, electromedical, and control instruments. Examples of products made by these establishments are aeronautical instruments, appliance regulators and controls (except switches), laboratory analytical instruments, navigation and guidance systems, and physical properties testing equipment.

#### **334510 Electromedical and Electrotherapeutic Apparatus Manufacturing**

This U.S. industry comprises establishments primarily engaged in manufacturing electromedical and electrotherapeutic apparatus, such as magnetic resonance imaging equipment, medical ultrasound equipment, pacemakers, hearing aids, electrocardiographs, and electromedical endoscopic equipment.

The data published with NAICS code 334510 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3842 Surgical appliances and supplies (pt)

3845 Electromedical equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334510 include establishments primarily engaged in the manufacture of 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

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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.

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### **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).

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### **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.



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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

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### **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.

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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.



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### **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)

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### **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.

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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.

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### **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.



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### **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,

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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)

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

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

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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

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### **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

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### 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.

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In 1992, there were approximately 370,000 individual manufacturing establishments. For sample efficiency and cost considerations, the 1992 manufacturing population was partitioned into two components for developing estimates within the ASM; a mail stratum and a nonmail stratum.

**Mail stratum.** The mail stratum of the survey is comprised of larger single-location manufacturing companies and all manufacturing establishments of multiunit companies (companies that operate at more than one physical location). Approximately 230,000 of the 370,000 establishments in the 1992 census were assigned to the mail stratum. On an annual basis, the mail stratum is supplemented with larger, newly active single-location companies identified from a list provided by the Internal Revenue Service (IRS) and new manufacturing locations of multiunit companies identified from the Census Bureau's Company Organization Survey (COS).

For the 1994 survey, a new sample of approximately 58,000 individual establishments was selected from the mail stratum assembled from the 1992 census. Supplemental samples representing both 1993 and 1994 births (newly active establishments that were not included in the 1992 census) were also selected. Establishments selected for the sample are mailed an ASM survey questionnaire for each year through 1998.

The 1994-98 ASM sample design is similar to the one used since 1984. Companies in the 1992 Census of Manufactures with manufacturing shipments of at least \$500 million were defined as company certainties. For these large companies, each manufacturing establishment is included in the mail sample. For the 1994-98 sample, there are approximately 650 certainty companies collectively accounting for over 18,000 establishments.

For the remaining portion of the mail component of the survey, the establishment was defined as the sample unit. All establishments with 250 employees or more were defined as employment certainties. In addition, all establishments producing products in SIC 3571 (Electronic Computers) were defined as certainties. Across these three arbitrary certainty classes, there were approximately 25,000 establishments included in the sample with certainty. Collectively, these certainty establishments accounted for approximately 80 percent of the total value of shipments in the 1992 Census of Manufactures.

Smaller establishments in the remaining portion of the mail stratum were sampled with probabilities ranging from .02 to 1.00. The initial probabilities of selection assigned to these establishments were proportionate to a measure-of-size determined for each establishment. The measure-of-size was a function of the establishment's 1992 industry classification, its 1992 product class data, and the historical variability of the year-to-year estimates of the product class estimates. For each product class (1,755) and four-digit industry (459), a desired reliability

constraint was specified. Using a technique developed by Dr. James R. Chromy of the Research Triangle Institute, the initial establishment probabilities were optimized such that the expected sample satisfied all industry and product class reliability constraints while the sample size was minimized. This technique reduces the likelihood of selecting nonrepresentative samples for individual product classes or industries.

This method of assigning probabilities based on product class shipments is motivated by our primary desire to produce reliable estimates of both product class and industry shipments. The high correlation between shipments and employment, value-added, and other general statistics assures that these variables will also be well represented by the sample. The actual sample selection procedure uses an independent chance of selection method (Poisson sampling) which permits us to prevent small establishments from being selected in consecutive samples without introducing a bias into the survey estimates.

**Nonmail component.** The initial nonmail component of the survey was comprised of approximately 140,000 small, single-establishment companies that were tabulated as administrative records in the 1992 Census of Manufactures. The nonmail stratum is also supplemented annually using the list of newly active single-location companies provided by the Internal Revenue Service (IRS) and payroll cutoffs. Companies with payroll below the payroll cutoff are added to the nonmail stratum. For this portion of the population, sampling is not used. The data for this group are estimated based on selected information obtained annually from the administrative records of the IRS and Social Security Administration (SSA). This administrative information, which includes payroll, total employment, industry classification, and physical location, is obtained under conditions which safeguard the confidentiality of both tax and census records.

## DESCRIPTION OF THE ASM ESTIMATING PROCEDURE

Most of the ASM estimates derived for the mail stratum are computed using a difference estimator. At the establishment level, there is a strong correlation between the current-year data values and the corresponding 1992 (base) data values. Therefore, within the mailed stratum, for each item at each level of aggregation, an estimate of the "difference" between the current year and the base year is computed from sample cases and added to the corresponding base-year values. For the 1993-1997 ASM estimates, the 1992 Census of Manufactures values serve as the base year. For the 1998 ASM, the base will be updated to be the 1997 Economic Census – Manufacturing.

Due to the positive year-to-year correlation, estimates derived using this methodology are generally more reliable than comparable estimates developed from the current sample data alone. Estimates for the capital expenditures variables are not generated using the difference

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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

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census – manufacturing. The economic census – manufacturing provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. While the CIR program includes both mandatory and voluntary surveys, the annual data are mandatory.

#### **DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS**

Data for cost of materials and value of shipments include varying amounts of duplication, especially at higher levels of aggregation. This is because the products of one establishment may be the materials of another. The value added statistics avoid this duplication and are, for most purposes, the best measure for comparing the relative economic importance of industries and geographic areas.

#### **VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS**

The 1997 Economic Census – Manufacturing shows value of shipments data for industries and products. In the industry statistics tables and files, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in the products statistics tables and files represent the total value of all products shipped that are classified as primary to an industry regardless of the classification of the producing establishment.



# Appendix D.

## Geographic Notes

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### NEW YORK

**Airmont.** See “Ramapo town balance.”

**Amherst town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Amherst town balance contains all of Amherst town except the incorporated place of Williamsville.

**Amityville.** See “Babylon town balance.”

**Ardasley.** See “Greenburgh town balance.”

**Attica** is in Genesee and Wyoming Counties.

**Babylon.** See “Babylon town balance.”

**Babylon town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Babylon town balance contains all of Babylon town except the incorporated places of Amityville, Babylon, and Lindenhurst.

**Balance of Essex County** includes the former Ticonderoga village, which disincorporated in January 1994.

**Baldwinsville.** See “Lysander town balance” and “Van Buren town balance.”

**Ballston Spa.** See “Milton town balance.”

**Bayville.** See “Oyster Bay town balance.”

**Bellport.** See “Brookhaven town balance.”

**Blasdell.** See “Hamburg town balance.”

**Blooming Grove town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Blooming Grove town balance contains all of Blooming Grove town except the incorporated place of Washingtonville.

**Briarcliff Manor.** See “Mount Pleasant town balance.”

**Brightwaters.** See “Islip town balance.”

**Bronxville.** See “Eastchester town balance.”

**Brookhaven town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census.

Brookhaven town balance contains all of Brookhaven town except the incorporated places of Bellport, Lake Grove, Patchogue, and Port Jefferson.

**Brookville.** See “Oyster Bay town balance.”

**Cayuga Heights.** See “Ithaca town balance.”

**Cedarhurst.** See “Hempstead town balance.”

**Cheektowaga town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Cheektowaga town balance contains all of Cheektowaga town except the incorporated places of Depew, Sloan, and Williamsville.

**Chestnut Ridge.** See “Ramapo town balance.”

**Chittenango.** See “Sullivan town balance.”

**Cicero town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Cicero town balance contains all of Cicero town except the incorporated place of North Syracuse.

**Clarkstown town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Clarkstown town balance contains all of Clarkstown town except the incorporated places of Nyack and Spring Valley.

**Clay town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Clay town balance contains all of Clay town except the incorporated place of North Syracuse.

**Colonie.** See “Colonie town balance.”

**Colonie town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Colonie town balance contains all of Colonie town except the incorporated places of Colonie and Menands.

**Cortlandt town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Cortlandt town balance contains all of Cortlandt town except the incorporated place of Croton-on-Hudson.

**Croton-on-Hudson.** See “Cortlandt town balance.”

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**Depew.** See “Cheektowaga town balance” and “Lancaster town balance.”

**De Witt town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. De Witt town balance contains all of De Witt town except the incorporated place of East Syracuse.

**Dobbs Ferry.** See “Greenburgh town balance.”

**Eastchester town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Eastchester town balance contains all of Eastchester town except the incorporated places of Bronxville and Tuckahoe.

**East Hills.** See “North Hempstead town balance” and “Oyster Bay town balance.”

**East Rockaway.** See “Hempstead town balance.”

**East Syracuse.** See “De Witt town balance.”

**East Williston.** See “North Hempstead town balance.”

**Ellenville.** See “Shawangunk town balance.”

**Elmsford.** See “Greenburgh town balance.”

**Endicott.** See “Union town balance.”

**Fairport.** See “Perinton town balance.”

**Farmingdale.** See “Oyster Bay town balance.”

**Fayetteville.** See “Manlius town balance.”

**Floral Park.** See “Hempstead town balance” and “North Hempstead town balance.”

**Florida.** See “Warwick town balance.”

**Flower Hill.** See “North Hempstead town balance.”

**Freeport.** See “Hempstead town balance.”

**Garden City.** See “Hempstead town balance” and “North Hempstead town balance.”

**Geddes town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Geddes town balance contains all of Geddes town except the incorporated place of Solvay.

**Geneva** is in Ontario and Seneca Counties.

**Glenville town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Glenville town balance contains all of Glenville town except the incorporated place of Scotia.

**Gowanda** is in Cattaraugus and Erie Counties.

**Great Neck.** See “North Hempstead town balance.”

**Great Neck Estates.** See “North Hempstead town balance.”

**Great Neck Plaza.** See “North Hempstead town balance.”

**Greenburgh town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Greenburgh town balance contains all of Greenburgh town except the incorporated places of Ardsley, Dobbs Ferry, Elmsford, Hastings-on-Hudson, Irvington, and Tarrytown.

**Greenwood Lake.** See “Warwick town balance.”

**Hamburg.** See “Hamburg town balance.”

**Hamburg town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Hamburg town balance contains all of Hamburg town except the incorporated places of Blasdell and Hamburg.

**Hastings-on-Hudson.** See “Greenburgh town balance.”

**Haverstraw.** See “Haverstraw town balance.”

**Haverstraw town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Haverstraw town balance contains all of Haverstraw town except the incorporated places of Haverstraw, Pomona, and West Haverstraw.

**Hempstead.** See “Hempstead town balance.”

**Hempstead town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Hempstead town balance contains all of Hempstead town except the incorporated places of Cedarhurst, East Rockaway, Floral Park, Freeport, Garden City, Hempstead, Island Park, Lawrence, Lynbrook, Malverne, Mineola, New Hyde Park, Rockville Centre, and Valley Stream.

**Huntington town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Huntington town balance contains all of Huntington town except the incorporated places of Lloyd Harbor and Northport.

**Irvington.** See “Greenburgh town balance.”

**Islandia.** See “Islip town balance.”

**Island Park.** See “Hempstead town balance.”

**Islip town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Islip town balance contains all of Islip town except the incorporated places of Brightwaters and Islandia.

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**Ithaca town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Ithaca town balance contains all of Ithaca town except the incorporated place of Cayuga Heights.

**Johnson City.** See “Union town balance.”

**Kenmore.** See “Tonawanda town balance.”

**Kings Point.** See “North Hempstead town balance.”

**Lake Grove.** See “Brookhaven town balance.”

**Lancaster.** See “Lancaster town balance.”

**Lancaster town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Lancaster town balance contains all of Lancaster town except the incorporated places of Depew and Lancaster.

**Larchmont.** See “Mamaroneck town balance.”

**Lawrence.** See “Hempstead town balance.”

**Lewiston.** See “Lewiston town balance.”

**Lewiston town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Lewiston town balance contains all of Lewiston town except the incorporated place of Lewiston.

**Lindenhurst.** See “Babylon town balance.”

**Liverpool.** See “Salina town balance.”

**Lloyd Harbor.** See “Huntington town balance.”

**Lynbrook.** See “Hempstead town balance.”

**Lysander town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Lysander town balance contains all of Lysander town except the incorporated place of Baldwinsville.

**Malverne.** See “Hempstead town balance.”

**Mamaroneck.** See “Mamaroneck town balance.”

**Mamaroneck town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Mamaroneck town balance contains all of Mamaroneck town except the incorporated places of Larchmont and Mamaroneck.

**Manlius.** See “Manlius town balance.”

**Manlius town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Manlius town balance contains all of Manlius town except the incorporated places of Fayetteville, Manlius, and Minoa.

**Manorhaven.** See “North Hempstead town balance.”

**Massapequa Park.** See “Oyster Bay town balance.”

**Menands.** See “Colonie town balance.”

**Milton town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Milton town balance contains all of Milton town except the incorporated place of Ballston Spa.

**Mineola.** See “Hempstead town balance” and “North Hempstead town balance.”

**Minoa.** See “Manlius town balance.”

**Montebello.** See “Ramapo town balance.”

**Moreau town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Moreau town balance contains all of Moreau town except the incorporated place of South Glens Falls.

**Mount Pleasant town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Mount Pleasant town balance contains all of Mount Pleasant town except the incorporated places of Briarcliff Manor, Pleasantville, and Sleepy Hollow.

**Munsey Park.** See “North Hempstead town balance.”

**Muttontown.** See “Oyster Bay town balance.”

**New Hartford town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. New Hartford town balance contains all of New Hartford town except the incorporated place of New York Mills.

**New Hempstead.** See “Ramapo town balance.”

**New Hyde Park.** See “Hempstead town balance” and “North Hempstead town balance.”

**New Square.** See “Ramapo town balance.”

**New Windsor town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. New Windsor town balance contains all of New Windsor town except the incorporated place of Washingtonville.

**New York** is in Bronx, Kings, New York, Queens, and Richmond Counties.



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**New York Mills.** See “New Hartford town balance” and “Whitestown town balance.”

**North Hempstead town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. North Hempstead town balance contains all of North Hempstead town except the incorporated places of East Hills, East Williston, Floral Park, Flower Hill, Garden City, Great Neck, Great Neck Estates, Great Neck Plaza, Kings Point, Manorhaven, Mineola, Munsey Park, New Hyde Park, North Hills, Old Westbury, Port Washington North, Sands Point, Thomaston, Westbury, and Williston Park.

**North Hills.** See “North Hempstead town balance.”

**Northport.** See “Huntington town balance.”

**North Syracuse.** See “Cicero town balance” and “Clay town balance.”

**Nyack.** See “Clarkstown town balance” and “Orangetown town balance.”

**Ogden town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Ogden town balance contains all of Ogden town except the incorporated place of Spencerport.

**Old Westbury.** See “North Hempstead town balance” and “Oyster Bay town balance.”

**Orangetown town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Orangetown town balance contains all of Orangetown town except the incorporated places of Nyack and South Nyack.

**Orchard Park.** See “Orchard Park town balance.”

**Orchard Park town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Orchard Park town balance contains all of Orchard Park town except the incorporated place of Orchard Park.

**Owego.** See “Owego town balance.”

**Owego town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Owego town balance contains all of Owego town except the incorporated place of Owego.

**Oyster Bay town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census.

Oyster Bay town balance contains all of Oyster Bay town except the incorporated places of Bayville, Brookville, East Hills, Farmingdale, Massapequa Park, Muttontown, Old Westbury, and Sea Cliff.

**Patchogue.** See “Brookhaven town balance.”

**Perinton town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Perinton town balance contains all of Perinton town except the incorporated place of Fairport.

**Pleasantville.** See “Mount Pleasant town balance.”

**Pomona.** See “Haverstraw town balance” and “Ramapo town balance.”

**Port Jefferson.** See “Brookhaven town balance.”

**Port Washington North.** See “North Hempstead town balance.”

**Poughkeepsie town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Poughkeepsie town balance contains all of Poughkeepsie town except the incorporated place of Wappingers Falls.

**Ramapo town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Ramapo town balance contains all of Ramapo town except the incorporated places of Airmont, Chestnut Ridge, Montebello, New Hempstead, New Square, Pomona, Sloatsburg, Spring Valley, Suffern, and Wesley Hills.

**Rockville Centre.** See “Hempstead town balance.”

**Salina town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Salina town balance contains all of Salina town except the incorporated place of Liverpool.

**Sands Point.** See “North Hempstead town balance.”

**Saranac Lake** is in Essex and Franklin Counties.

**Saugerties.** See “Saugerties town balance.”

**Saugerties town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Saugerties town balance contains all of Saugerties town except the incorporated place of Saugerties.

**Scotia.** See “Glenville town balance.”

**Sea Cliff.** See “Oyster Bay town balance.”

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**Shawangunk town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Shawangunk town balance contains all of Shawangunk town except the incorporated place of Ellenville.

**Sleepy Hollow** name was changed from North Tarrytown in December 1996; see “Mount Pleasant town balance.”

**Sloan.** See “Cheektowaga town balance.”

**Sloatsburg.** See “Ramapo town balance.”

**Solvay.** See “Geddes town balance.”

**Southampton.** See “Southampton town balance.”

**Southampton town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Southampton town balance contains all of Southampton town except the incorporated place of Southampton.

**South Glens Falls.** See “Moreau town balance.”

**South Nyack.** See “Orangetown town balance.”

**Spencerport.** See “Ogden town balance.”

**Spring Valley.** See “Clarkstown town balance” and “Ramapo town balance.”

**Suffern.** See “Ramapo town balance.”

**Sullivan town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Sullivan town balance contains all of Sullivan town except the incorporated place of Chittenango.

**Tarrytown.** See “Greenburgh town balance.”

**Thomaston.** See “North Hempstead town balance.”

**Tonawanda town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Tonawanda town balance contains all of Tonawanda town except the incorporated place of Kenmore.

**Tuckahoe.** See “Eastchester town balance.”

**Union town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Union town balance contains all of Union town except the incorporated places of Endicott and Johnson City.

**Valley Stream.** See “Hempstead town balance.”

**Van Buren town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Van Buren town balance contains all of Van Buren town except the incorporated place of Baldwinsville.

**Wappingers Falls.** See “Poughkeepsie town balance” and “Wappinger town balance.”

**Wappinger town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Wappinger town balance contains all of Wappinger town except the incorporated place of Wappingers Falls.

**Warwick.** See “Warwick town balance.”

**Warwick town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Censuses. Warwick town balance contains all of Warwick town except the incorporated places of Florida, Greenwood Lake, and Warwick.

**Washingtonville.** See “Blooming Grove town balance” and “New Windsor town balance.”

**Webster.** See “Webster town balance.”

**Webster town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Webster town balance contains all of Webster town except the incorporated place of Webster.

**Wesley Hills.** See “Ramapo town balance.”

**Westbury.** See “North Hempstead town balance.”

**West Haverstraw.** See “Haverstraw town balance.”

**Whitesboro.** See “Whitestown town balance.”

**Whitestown town balance.** The term “balance” after the town refers to the portion of a town excluding an incorporated place recognized for the 1997 Economic Census. Whitestown town balance contains all of Whitestown town except the incorporated places of New York Mills, Whitesboro, and Yorkville.

**Williamsville.** See “Amherst town balance” and “Cheektowaga town balance.”

**Williston Park.** See “North Hempstead town balance.”

**Yorkville.** See “Whitestown town balance.”

# Appendix E. Metropolitan Areas

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## NEW YORK

### **Albany—Schenectady—Troy, NY MSA**

Albany County, NY  
Montgomery County, NY  
Rensselaer County, NY  
Saratoga County, NY  
Schenectady County, NY  
Schoharie County, NY

### **Binghamton, NY MSA**

Broome County, NY  
Tioga County, NY

### **Buffalo—Niagara Falls, NY MSA**

Erie County, NY  
Niagara County, NY

### **Dutchess County, NY PMSA**

Dutchess County, NY

### **Elmira, NY MSA**

Chemung County, NY

### **Glens Falls, NY MSA**

Warren County, NY  
Washington County, NY

### **Jamestown, NY MSA**

Chautauqua County, NY

### **Nassau—Suffolk, NY PMSA**

Nassau County, NY  
Suffolk County, NY

### **New York, NY PMSA**

Bronx County, NY  
Kings County, NY  
New York County, NY  
Putnam County, NY  
Queens County, NY

### **New York, NY PMSA—Con.**

Richmond County, NY  
Rockland County, NY  
Westchester County, NY

### **New York—Northern New Jersey—Long Island, NY—NJ—CT—PA CMSA**

Bergen—Passaic, NJ PMSA  
Bergen County, NJ  
Passaic County, NJ  
Bridgeport, CT PMSA  
Fairfield County, CT (Part)  
Bridgeport city, CT  
Fairfield town, CT  
Monroe town, CT  
Shelton city, CT  
Stratford town, CT  
Trumbull town, CT  
New Haven County, CT (Part)  
Ansonia city, CT  
Derby city, CT  
Milford city, CT  
Seymour town, CT  
Danbury, CT PMSA  
Fairfield County, CT (Part)  
Bethel town, CT  
Brookfield town, CT  
Danbury city, CT  
New Fairfield town, CT  
Newtown town, CT  
Ridgefield town, CT  
Litchfield County, CT (Part)  
New Milford town, CT

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**New York—Northern New Jersey—Long Island,  
NY—NJ—CT—PA CMSA—Con.**

Dutchess County, NY PMSA  
Dutchess County, NY  
Jersey City, NJ PMSA  
Hudson County, NJ  
Middlesex—Somerset—Hunterdon, NJ PMSA  
Hunterdon County, NJ  
Middlesex County, NJ  
Somerset County, NJ  
Monmouth—Ocean, NJ PMSA  
Monmouth County, NJ  
Ocean County, NJ  
Nassau—Suffolk, NY PMSA  
Nassau County, NY  
Suffolk County, NY  
New Haven—Meriden, CT PMSA  
Middlesex County, CT (Part)  
Clinton town, CT  
New Haven County, CT (Part)  
Branford town, CT  
Cheshire town, CT  
East Haven town, CT  
Guilford town, CT  
Hamden town, CT  
Madison town, CT  
Meriden city, CT  
New Haven city, CT  
North Branford town, CT  
North Haven town, CT  
Orange town, CT  
Wallingford town, CT  
West Haven city, CT  
New York, NY PMSA  
Bronx County, NY  
Kings County, NY  
New York County, NY  
Putnam County, NY

**New York—Northern New Jersey—Long Island,  
NY—NJ—CT—PA CMSA—Con.**

New York, NY PMSA—Con.  
Queens County, NY  
Richmond County, NY  
Rockland County, NY  
Westchester County, NY  
Newark, NJ PMSA  
Essex County, NJ  
Morris County, NJ  
Sussex County, NJ  
Union County, NJ  
Warren County, NJ  
Newburgh, NY—PA PMSA  
Orange County, NY  
Pike County, PA  
Stamford—Norwalk, CT PMSA  
Fairfield County, CT (Part)  
Darien town, CT  
Greenwich town, CT  
New Canaan town, CT  
Norwalk city, CT  
Stamford city, CT  
Westport town, CT  
Wilton town, CT  
Trenton, NJ PMSA  
Mercer County, NJ  
Waterbury, CT PMSA  
Litchfield County, CT (Part)  
Watertown town, CT  
New Haven County, CT (Part)  
Naugatuck, CT  
Southbury town, CT  
Waterbury city, CT  
Wolcott town, CT  
**Newburgh, NY—PA PMSA**  
Orange County, NY  
Pike County, PA

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**Rochester, NY MSA**

Genesee County, NY  
Livingston County, NY  
Monroe County, NY  
Ontario County, NY  
Orleans County, NY  
Wayne County, NY

**Syracuse, NY MSA**

Cayuga County, NY  
Madison County, NY  
Onondaga County, NY  
Oswego County, NY

**Utica—Rome, NY MSA**

Herkimer County, NY  
Oneida County, NY

