

Pennsylvania

1997

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EC97M31A-PA

1997 Economic Census

Manufacturing

Geographic Area Series



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Economics and Statistics Administration
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Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

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

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

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

ALL-NEW INDUSTRY CLASSIFICATIONS

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

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

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

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

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

RELATIONSHIP TO SIC

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

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

GEOGRAPHIC AREA CODING

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

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

BASIS OF REPORTING

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

DOLLAR VALUES

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

All dollar values are shown in thousands of dollars.

AVAILABILITY OF ADDITIONAL DATA

Reports in Print and Electronic Media

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

Special Tabulations

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

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

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

HISTORICAL INFORMATION

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

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

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

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

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

SOURCES FOR MORE INFORMATION

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

ABBREVIATIONS AND SYMBOLS

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

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

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

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Manufacturing

SCOPE

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

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

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

GENERAL

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

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

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

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

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

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

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

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

GEOGRAPHIC AREAS COVERED

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

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

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

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

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

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

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

COMPARABILITY OF THE 1992 AND 1997 CENSUSES

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

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

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

DISCLOSURE

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

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

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

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

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

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

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
PENNSYLVANIA—Con.													
31-33	Manufacturing—Con.												
314	Textile product mills	1	290	70	8 029	189 894	6 210	11 872	119 834	438 797	591 430	1 028 084	25 114
3141	Textile furnishings mills	1	123	25	4 610	118 459	3 626	7 407	78 079	290 719	445 747	740 783	17 949
31411	Carpet & rug mills	—	8	4	1 830	66 306	1 413	3 287	43 237	165 427	230 215	395 160	13 645
314110	Carpet & rug mills	—	8	4	1 830	66 306	1 413	3 287	43 237	165 427	230 215	395 160	13 645
31412	Curtain & linen mills	2	115	21	2 780	52 153	2 213	4 120	34 842	125 292	215 532	345 623	4 304
314121	Curtain & drapery mills	—	84	8	883	14 266	722	1 143	8 936	38 225	33 227	73 262	507
314129	Other household textile product mills	2	31	13	1 897	37 887	1 491	2 977	25 906	87 067	182 305	272 361	3 797
3149	Other textile product mills	2	167	45	3 419	71 435	2 584	4 465	41 755	148 078	145 683	287 301	7 165
31491	Textile bag & canvas mills	2	74	12	914	21 736	707	1 232	12 444	41 330	35 064	75 528	1 927
314911	Textile bag mills	—	12	4	339	7 057	272	458	3 839	13 884	8 594	22 496	245
314912	Canvas & related product mills	3	62	8	575	14 679	435	774	8 605	27 446	26 470	53 032	1 682
31499	All other textile product mills	2	93	33	2 505	49 699	1 877	3 233	29 311	106 748	110 619	211 773	5 238
314991	Rope, cordage, & twine mills	1	9	4	355	10 241	219	467	4 881	26 422	48 791	74 638	953
314999	All other miscellaneous textile product mills	2	84	29	2 150	39 458	1 658	2 766	24 430	80 326	61 828	137 135	4 285
315	Apparel mfg	2	751	371	40 776	755 724	33 595	61 310	545 047	2 010 332	1 759 057	3 717 401	43 344
3151	Apparel knitting mills	—	61	34	4 451	90 580	3 748	7 211	65 076	276 093	192 708	462 718	9 039
31511	Hosiery & sock mills	—	13	4	642	13 603	566	1 120	11 484	65 902	29 272	94 515	2 251
315119	Other hosiery & sock mills	—	7	3	567	12 556	508	999	10 599	64 272	27 498	91 064	2 146
31519	Other apparel knitting mills	—	48	30	3 809	76 977	3 182	6 091	53 592	210 191	163 436	368 203	6 788
315191	Outerwear knitting mills	1	35	21	1 694	34 759	1 443	2 551	22 762	78 615	100 404	170 311	1 505
315192	Underwear & nightwear knitting mills	—	13	9	2 115	42 218	1 739	3 540	30 830	131 576	63 032	197 892	5 283
3152	Cut & sew apparel mfg	2	589	307	32 663	588 159	26 930	48 469	426 599	1 583 268	1 403 290	2 934 669	28 408
31521	Cut & sew apparel contractors	5	337	164	12 296	190 305	11 276	20 411	162 374	326 073	75 313	400 497	11 109
315211	Men's & boys' cut & sew apparel contractors	5	44	33	2 376	35 789	2 182	3 686	29 401	79 972	18 209	98 212	1 910
315212	Women's, girls', & infants' cut & sew apparel contractors	5	293	131	9 920	154 516	9 094	16 725	132 973	246 101	57 104	302 285	9 199
31522	Men's & boys' cut & sew apparel mfg	4	94	59	8 101	151 380	6 991	13 046	113 421	434 745	393 479	821 807	8 665
315221	Men's & boys' cut & sew underwear & nightwear mfg	8	6	6	445	6 389	394	710	5 138	16 344	10 851	27 829	340
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	3	20	16	3 380	74 378	2 738	5 119	49 254	181 266	207 820	381 586	2 773
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	5	27	20	2 350	35 504	2 137	3 910	30 555	158 657	111 669	270 819	2 924
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	5	12	6	996	20 100	927	1 864	17 396	42 508	31 136	73 410	1 354
315225	Men's & boys' cut & sew work clothing mfg	9	6	2	145	2 785	130	234	2 254	8 523	6 631	15 187	183
315228	Men's & boys' cut & sew other outerwear mfg	3	23	9	785	12 224	665	1 209	8 824	27 447	25 372	52 976	1 091
31523	Women's & girls' cut & sew apparel mfg	1	126	69	11 348	232 025	7 988	13 912	142 235	781 750	906 107	1 644 331	6 352
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	—	18	14	3 031	48 480	1 927	3 271	32 412	223 851	251 334	490 916	498
315232	Women's & girls' cut & sew blouse & shirt mfg	3	30	19	1 748	29 645	1 499	2 717	22 426	98 452	76 920	172 078	1 080
315233	Women's & girls' cut & sew dress mfg	—	22	9	1 235	20 729	1 012	2 088	17 563	105 807	202 146	307 058	1 882
315234	Women's & girls' cut & sew suit, coat, skirt mfg	—	17	6	2 003	74 233	943	1 351	29 467	229 968	281 749	455 552	1 613
315239	Women's & girls' cut & sew other outerwear mfg	1	39	21	3 331	58 938	2 607	4 485	40 367	123 672	93 958	218 727	1 279
31529	Other cut & sew apparel mfg	2	32	15	918	14 449	675	1 100	8 569	40 700	28 391	68 034	2 282
315299	All other cut & sew apparel mfg	2	25	14	862	13 707	643	1 051	8 144	39 323	27 313	65 547	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
PENNSYLVANIA—Con.													
31-33	Manufacturing—Con.												
325	Chemical mfg—Con.												
3259	Other chemical product mfg	2	148	66	4 681	165 746	3 107	6 176	91 616	826 963	878 778	1 691 908	50 804
32591	Printing ink mfg	3	23	11	528	22 056	281	636	10 328	91 527	70 483	157 948	6 862
325910	Printing ink mfg	3	23	11	528	22 056	281	636	10 328	91 527	70 483	157 948	6 862
32592	Explosives mfg	3	6	3	346	9 113	262	425	6 391	17 251	16 963	34 056	824
325920	Explosives mfg	3	6	3	346	9 113	262	425	6 391	17 251	16 963	34 056	824
32599	All other chemical product & preparation mfg	1	119	52	3 807	134 577	2 564	5 115	74 897	718 185	791 332	1 499 904	43 118
325991	Custom compounding of purchased resin...	1	41	19	g	D	D	D	D	D	D	D	13 481
325992	Photographic film, paper, plate, & chemical mfg	-	17	5	f	D	D	D	D	D	D	D	9 885
325998	All other miscellaneous chemical product & preparation mfg	2	61	28	1 667	60 857	993	2 087	30 647	321 779	370 954	684 407	19 752
326	Plastics & rubber products mfg	1	779	450	50 370	1 553 957	39 270	79 084	1 026 340	4 402 714	4 059 560	8 414 514	465 041
3261	Plastics product mfg	1	662	398	45 094	1 381 518	35 444	71 319	922 115	3 928 759	3 667 150	7 555 118	437 601
32611	Unsupported plastics film, sheet, & bag mfg ..	1	65	40	5 111	161 901	4 050	8 499	114 888	532 849	604 772	1 136 086	40 242
326111	Unsupported plastics bag mfg	3	21	14	1 755	49 191	1 480	3 285	38 707	128 012	145 558	273 795	10 343
326112	Unsupported plastics packaging film & sheet mfg	1	6	3	420	13 749	338	531	8 826	26 617	38 057	64 078	4 801
326113	Unsupported plastics film & sheet (except packaging) mfg	-	38	23	2 936	98 961	2 232	4 683	67 355	378 220	421 157	798 213	25 098
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	1	54	29	2 824	91 825	2 168	4 624	56 632	249 902	329 095	575 965	25 354
326121	Unsupported plastics profile shape mfg	3	39	18	2 041	66 228	1 577	3 351	41 244	145 977	139 887	287 735	16 117
326122	Plastics pipe & pipe fitting mfg	-	15	11	783	25 597	591	1 273	15 388	103 925	189 208	288 230	9 237
32613	Laminated plastics plate, sheet, & shape mfg	5	17	9	518	19 005	386	883	12 499	48 543	33 894	82 891	3 684
326130	Laminated plastics plate, sheet, & shape mfg	5	17	9	518	19 005	386	883	12 499	48 543	33 894	82 891	3 684
32614	Polystyrene foam product mfg	-	20	12	2 311	79 142	1 872	3 890	53 948	170 315	320 228	494 542	81 955
326140	Polystyrene foam product mfg	-	20	12	2 311	79 142	1 872	3 890	53 948	170 315	320 228	494 542	81 955
32615	Urethane & other foam product (except polystyrene) mfg	3	29	21	1 539	43 696	1 171	2 166	25 435	150 288	257 157	407 750	7 500
326150	Urethane & other foam product (except polystyrene) mfg	3	29	21	1 539	43 696	1 171	2 166	25 435	150 288	257 157	407 750	7 500
32616	Plastics bottle mfg	-	32	26	2 294	64 485	1 856	3 510	44 648	216 265	203 077	418 057	25 892
326160	Plastics bottle mfg	-	32	26	2 294	64 485	1 856	3 510	44 648	216 265	203 077	418 057	25 892
32619	Other plastics product mfg	-	445	261	30 497	921 464	23 941	47 747	614 065	2 560 597	1 918 927	4 439 827	252 974
326191	Plastics plumbing fixture mfg	-	18	7	748	17 061	623	1 219	13 430	47 406	29 753	76 687	2 059
326192	Resilient floor covering mfg	-	3	3	2 141	109 238	1 683	3 470	89 094	581 645	268 518	829 450	29 846
326199	All other plastics product mfg	1	424	251	27 608	795 165	21 635	43 058	511 541	1 931 546	1 620 656	3 533 690	221 069
3262	Rubber product mfg	-	117	52	5 276	172 439	3 826	7 765	104 225	473 955	392 410	859 396	27 440
32621	Tire mfg	-	45	11	1 645	47 590	1 343	2 733	34 992	123 662	116 763	235 406	5 596
326211	Tire mfg (except retreading)	-	12	5	1 294	38 826	1 085	2 142	29 206	107 113	91 894	193 987	4 426
326212	Tire retreading	1	33	6	351	8 764	258	591	5 786	16 549	24 869	41 419	1 170
32622	Rubber & plastics hoses & belting mfg	-	7	6	470	17 769	351	749	10 221	41 019	22 879	63 652	2 345
326220	Rubber & plastics hoses & belting mfg..	-	7	6	470	17 769	351	749	10 221	41 019	22 879	63 652	2 345
32629	Other rubber product mfg	-	65	35	3 161	107 080	2 132	4 283	59 012	309 274	252 768	560 338	19 499
326291	Rubber product mfg for mechanical use	-	24	13	1 086	36 134	776	1 510	21 222	101 198	45 264	145 448	6 809
326299	All other rubber product mfg	-	41	22	2 075	70 946	1 356	2 773	37 790	208 076	207 504	414 890	12 690

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	PENNSYLVANIA—Con.												
31-33	Manufacturing—Con.												
327	Nonmetallic mineral product mfg	-	820	292	33 342	1 116 648	26 203	53 939	803 082	3 547 648	2 545 719	6 095 887	444 700
3271	Clay product & refractory mfg	-	127	65	6 741	196 307	5 429	10 527	145 522	516 403	328 751	852 159	35 517
32711	Pottery, ceramics, & plumbing fixture mfg ...	-	65	25	3 311	84 531	2 755	4 869	64 888	199 892	83 525	282 810	7 875
327111	Vitreous china plumbing fixture & bathroom accessories mfg	-	4	2	f	D	D	D	D	D	D	D	312
327112	Vitreous china, fine earthenware, & other pottery product mfg ..	-	46	15	1 690	35 056	1 416	2 434	26 910	83 361	28 630	111 473	1 692
327113	Porcelain electrical supply mfg	1	15	8	g	D	D	D	D	D	D	D	5 871
32712	Clay building material & refractories mfg	-	62	40	3 430	111 776	2 674	5 658	80 634	316 511	245 226	569 349	27 642
327121	Brick & structural clay tile mfg	-	13	9	726	22 180	543	1 128	16 394	53 885	31 121	86 361	3 630
327122	Ceramic wall & floor tile mfg	-	3	1	e	D	D	D	D	D	D	D	D
327123	Other structural clay product mfg	-	5	2	c	D	D	D	D	D	D	D	D
327124	Clay refractory mfg ...	-	24	17	878	29 574	640	1 318	18 437	72 380	79 155	152 264	4 360
327125	Nonclay refractory mfg	-	17	11	1 221	47 544	929	2 012	34 728	137 536	126 508	270 586	17 596
3272	Glass & glass product mfg	-	110	52	13 035	466 397	10 754	22 335	351 063	1 703 752	1 114 629	2 813 535	284 715
32721	Glass & glass product mfg	-	110	52	13 035	466 397	10 754	22 335	351 063	1 703 752	1 114 629	2 813 535	284 715
327211	Flat glass mfg	-	4	4	g	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	-	28	15	6 602	237 913	5 479	11 730	180 127	834 253	430 325	1 249 877	231 681
327213	Glass container mfg ..	-	6	6	h	D	D	D	D	D	D	D	18 948
327215	Glass product mfg made of purchased glass	1	72	27	2 793	90 517	2 136	4 438	59 081	362 990	411 176	771 945	D
3273	Cement & concrete product mfg	1	433	128	9 299	298 316	6 769	14 216	197 161	897 513	778 932	1 673 073	83 476
32731	Cement mfg	-	22	14	1 645	67 596	1 159	2 481	44 252	336 027	208 625	548 076	29 010
327310	Cement mfg	-	22	14	1 645	67 596	1 159	2 481	44 252	336 027	208 625	548 076	29 010
32732	Ready-mix concrete mfg.	2	200	49	2 827	90 332	2 148	4 406	64 251	228 892	270 999	501 777	20 450
327320	Ready-mix concrete mfg	2	200	49	2 827	90 332	2 148	4 406	64 251	228 892	270 999	501 777	20 450
32733	Concrete pipe, brick, & block mfg	1	75	22	1 574	46 802	1 039	2 373	28 543	121 538	120 706	239 478	14 157
327331	Concrete block & brick mfg	1	68	18	1 342	39 000	849	1 902	22 959	100 661	105 947	204 243	11 966
327332	Concrete pipe mfg	1	7	4	232	7 802	190	471	5 584	20 877	14 759	35 235	2 191
32739	Other concrete product mfg	1	136	43	3 253	93 586	2 423	4 956	60 115	211 056	178 602	383 742	19 859
327390	Other concrete product mfg	1	136	43	3 253	93 586	2 423	4 956	60 115	211 056	178 602	383 742	19 859
3274	Lime & gypsum product mfg	-	15	6	508	17 943	387	867	13 328	50 028	56 612	108 563	3 806
32741	Lime mfg	-	9	5	446	17 111	336	791	12 686	46 537	55 503	103 953	3 723
327410	Lime mfg	-	9	5	446	17 111	336	791	12 686	46 537	55 503	103 953	3 723
3279	Other nonmetallic mineral product mfg	1	135	41	3 759	137 685	2 864	5 994	96 008	379 952	266 795	648 557	37 186
32791	Abrasive product mfg ...	1	24	14	783	27 864	552	1 162	16 576	83 299	62 301	145 918	6 022
327910	Abrasive product mfg ..	1	24	14	783	27 864	552	1 162	16 576	83 299	62 301	145 918	6 022
32799	All other nonmetallic mineral product mfg ...	1	111	27	2 976	109 821	2 312	4 832	79 432	296 653	204 494	502 639	31 164
327991	Cut stone & stone product mfg	1	43	6	672	19 190	530	1 210	14 994	55 825	34 074	89 322	3 573
327992	Ground or treated mineral & earth mfg ..	4	29	6	516	14 981	388	818	9 531	51 997	41 366	93 081	4 726
327993	Mineral wool mfg	-	20	10	1 432	60 880	1 205	2 409	49 137	149 464	101 538	252 595	18 288
327999	All other miscellaneous nonmetallic mineral product mfg	-	19	5	356	14 770	189	395	5 770	39 367	27 516	67 641	4 577
331	Primary metal mfg	-	421	308	63 253	2 584 007	49 349	103 203	1 867 747	6 321 926	10 819 000	17 057 715	613 989
3311	Iron & steel mills & ferroalloy mfg	-	48	46	26 020	1 291 123	20 388	42 282	951 500	2 917 496	5 690 043	8 559 009	313 013
33111	Iron & steel mills & ferroalloy mfg	-	48	46	26 020	1 291 123	20 388	42 282	951 500	2 917 496	5 690 043	8 559 009	313 013
331111	Iron & steel mills	-	44	43	25 821	1 283 117	20 249	41 967	946 290	2 886 486	5 668 621	8 506 463	D
331112	Electrometallurgical ferroalloy product mfg	-	4	3	199	8 006	139	315	5 210	31 010	21 422	52 546	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	PENNSYLVANIA—Con.												
31-33	Manufacturing—Con.												
331	Primary metal mfg—Con.												
3312	Steel product mfg from purchased steel	-	60	56	8 539	312 994	6 491	13 562	224 855	946 493	1 619 623	2 562 046	53 839
33121	Iron & steel pipes & tubes mfg from purchased steel	-	20	20	3 493	136 314	2 846	5 978	100 123	494 841	757 366	1 242 778	22 738
331210	Iron & steel pipes & tubes mfg from purchased steel	-	20	20	3 493	136 314	2 846	5 978	100 123	494 841	757 366	1 242 778	22 738
33122	Rolling & drawing of purchased steel	-	40	36	5 046	176 680	3 645	7 584	124 732	451 652	862 257	1 319 268	31 101
331221	Cold-rolled steel shape mfg	-	20	17	2 695	102 902	1 931	3 887	75 558	238 749	662 178	903 771	19 761
331222	Steel wire drawing	-	20	19	2 351	73 778	1 714	3 697	49 174	212 903	200 079	415 497	11 340
3313	Alumina & aluminum production & processing ..	-	23	20	4 240	160 937	3 370	7 088	115 636	511 051	1 166 506	1 657 018	60 792
33131	Alumina & aluminum production & processing	-	23	20	4 240	160 937	3 370	7 088	115 636	511 051	1 166 506	1 657 018	60 792
331314	Secondary smelting & alloying of aluminum ..	-	10	7	273	8 958	202	414	5 923	48 240	136 246	182 609	15 422
331315	Aluminum sheet, plate, & foil mfg	-	4	4	1 656	74 070	1 257	2 706	52 351	183 390	534 313	702 092	D
331316	Aluminum extruded product mfg	-	6	6	1 702	55 137	1 464	3 047	41 944	213 702	305 686	516 472	9 493
331319	Other aluminum rolling & drawing	-	3	3	609	22 772	447	921	15 418	65 719	190 261	255 845	D
3314	Nonferrous metal (except aluminum) production & processing	-	83	59	9 436	356 825	6 832	14 887	237 140	973 572	1 715 567	2 689 064	115 864
33141	Nonferrous metal (except aluminum) smelting & refining	-	15	9	1 700	75 090	1 242	2 966	48 249	270 444	269 532	544 224	38 774
331419	Other nonferrous metal primary smelting & refining	-	15	9	1 700	75 090	1 242	2 966	48 249	270 444	269 532	544 224	38 774
33142	Copper rolling, drawing, extruding, & alloying ...	-	18	18	3 124	114 118	2 153	4 696	74 448	275 342	868 082	1 150 546	14 678
331421	Copper rolling, drawing, & extruding ..	-	13	13	2 667	98 518	1 851	4 053	64 416	224 983	580 766	809 684	12 455
331423	Secondary smelting, refining, & alloying of copper	-	5	5	457	15 600	302	643	10 032	50 359	287 316	340 862	2 223
33149	Other nonferrous metal rolling, drawing, extruding, & alloying ...	1	50	32	4 612	167 617	3 437	7 225	114 443	427 786	577 953	994 294	62 412
331491	Other nonferrous metal rolling, drawing, & extruding	3	24	15	1 597	57 665	1 042	2 310	34 759	139 642	209 860	342 868	24 929
331492	Other nonferrous metal secondary smelting, refining, & alloying ...	-	26	17	3 015	109 952	2 395	4 915	79 684	288 144	368 093	651 426	37 483
3315	Foundries	-	207	127	15 018	462 128	12 268	25 384	338 616	973 314	627 261	1 590 578	70 481
33151	Ferrous metal foundries ..	-	105	75	9 249	281 016	7 634	15 798	207 773	614 851	377 598	983 149	44 108
331511	Iron foundries	-	64	47	5 817	186 098	4 736	10 052	137 837	399 060	248 353	643 893	34 409
331512	Steel investment foundries	-	12	10	1 096	30 809	947	1 920	22 096	79 537	34 508	112 074	2 100
331513	Steel foundries (except investment)	-	29	18	2 336	64 109	1 951	3 826	47 840	136 254	94 737	227 182	7 599
33152	Nonferrous metal foundries	-	102	52	5 769	181 112	4 634	9 586	130 843	358 463	249 663	607 429	26 373
331521	Aluminum die-casting foundries	-	12	8	1 741	58 134	1 495	3 138	46 538	122 936	105 529	227 610	11 366
331522	Nonferrous (except aluminum) die-casting foundries	-	13	7	1 181	37 362	806	1 540	21 823	64 342	25 879	89 506	4 199
331524	Aluminum foundries (except die-casting) ..	-	45	22	1 741	50 516	1 455	3 009	37 641	94 798	65 470	161 046	6 341
331525	Copper foundries (except die-casting) ..	-	25	13	875	27 151	698	1 445	18 903	62 517	29 396	92 802	3 367
331528	Other nonferrous foundries (except die-casting)	-	7	2	231	7 949	180	454	5 938	13 870	23 389	36 465	1 100
332	Fabricated metal product mfg	-	3 185	1 096	103 927	3 360 149	78 183	155 549	2 141 659	7 885 139	6 737 366	14 593 912	560 976
3321	Forging & stamping	-	184	113	12 947	436 030	9 965	21 342	286 575	993 571	869 411	1 876 108	79 485
33211	Forging & stamping	-	184	113	12 947	436 030	9 965	21 342	286 575	993 571	869 411	1 876 108	79 485
332111	Iron & steel forging ...	1	35	22	3 026	113 445	2 210	4 707	72 111	270 322	213 222	486 010	16 728
332112	Nonferrous forging ...	-	8	4	519	23 263	388	1 086	17 200	43 591	58 242	110 527	1 679
332114	Custom roll forming ...	-	21	8	763	27 097	496	1 024	15 550	75 439	94 092	170 411	2 916
332115	Crown & closure mfg ...	-	6	4	698	26 327	644	1 434	21 771	86 781	70 010	158 295	4 919
332116	Metal stamping	1	83	51	4 821	154 748	3 695	7 623	93 975	325 049	282 521	607 209	33 486
332117	Powder metallurgy part mfg	-	31	24	3 120	91 150	2 532	5 468	65 968	192 389	151 324	343 656	19 757

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PENNSYLVANIA—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3322	Cutlery & handtool mfg	1	96	37	3 950	118 012	3 028	6 160	73 115	327 687	207 545	530 696	16 840
33221	Cutlery & handtool mfg . . .	1	96	37	3 950	118 012	3 028	6 160	73 115	327 687	207 545	530 696	16 840
332211	Cutlery & flatware (except precious) mfg	3	13	5	650	17 888	472	863	11 314	63 663	20 354	83 650	3 636
332212	Hand & edge tool mfg	—	66	23	2 649	82 325	2 025	4 155	48 790	212 026	168 732	378 894	9 522
332213	Saw blade & handsaw mfg	3	12	5	350	11 419	286	634	8 446	19 889	12 371	31 849	D
332214	Kitchen utensil, pot, & pan mfg	—	5	4	301	6 380	245	508	4 565	32 109	6 088	36 303	D
3323	Architectural & structural metals mfg	—	628	255	21 891	692 978	16 392	32 188	423 251	1 570 508	1 633 976	3 177 743	67 321
33231	Plate work & fabricated structural product mfg	—	255	114	8 610	282 492	6 463	11 901	172 590	689 513	726 559	1 397 476	25 808
332311	Prefabricated metal building & component mfg	—	18	8	474	14 097	333	748	7 510	41 719	58 003	99 703	1 826
332312	Fabricated structural metal mfg	—	151	69	5 530	178 156	4 199	7 532	110 055	466 688	545 295	1 000 433	15 955
332313	Plate work mfg	1	86	37	2 606	90 239	1 931	3 621	55 025	181 106	123 261	297 340	8 027
33232	Ornamental & architectural metal products mfg	—	373	141	13 281	410 486	9 929	20 287	250 661	880 995	907 417	1 780 267	41 513
332321	Metal window & door mfg	—	66	34	4 464	128 385	3 248	6 644	76 738	295 799	406 980	704 236	10 678
332322	Sheet metal work mfg	1	209	82	6 985	223 828	5 407	10 854	140 209	462 424	413 768	866 857	25 955
332323	Ornamental & architectural metal work mfg	1	98	25	1 832	58 273	1 274	2 789	33 714	122 772	86 669	209 174	4 880
3324	Boiler, tank, & shipping container mfg	—	101	67	5 592	198 784	3 909	7 885	116 085	466 693	709 504	1 175 722	22 115
33241	Power boiler & heat exchanger mfg	—	18	15	1 392	50 973	744	1 308	19 207	80 767	130 879	217 651	4 231
332410	Power boiler & heat exchanger mfg	—	18	15	1 392	50 973	744	1 308	19 207	80 767	130 879	217 651	4 231
33242	Metal tank (heavy gauge) mfg	—	36	29	2 079	76 575	1 422	2 859	43 943	179 644	139 547	315 918	6 204
332420	Metal tank (heavy gauge) mfg	—	36	29	2 079	76 575	1 422	2 859	43 943	179 644	139 547	315 918	6 204
33243	Metal can, box, & other metal container (light gauge) mfg	—	47	23	2 121	71 236	1 743	3 718	52 935	206 282	439 078	642 153	11 680
332431	Metal can mfg	—	14	10	1 198	44 002	1 003	2 267	34 459	127 348	339 187	463 886	8 763
332439	Other metal container mfg	2	33	13	923	27 234	740	1 451	18 476	78 934	99 891	178 267	2 917
3325	Hardware mfg	—	35	20	2 990	85 620	2 167	4 338	51 785	221 968	147 943	369 406	26 195
33251	Hardware mfg	—	35	20	2 990	85 620	2 167	4 338	51 785	221 968	147 943	369 406	26 195
332510	Hardware mfg	—	35	20	2 990	85 620	2 167	4 338	51 785	221 968	147 943	369 406	26 195
3326	Spring & wire product mfg	—	110	45	5 895	174 223	4 426	8 902	114 929	430 232	402 030	836 212	28 168
33261	Spring & wire product mfg	—	110	45	5 895	174 223	4 426	8 902	114 929	430 232	402 030	836 212	28 168
332611	Spring (heavy gauge) mfg	—	15	9	901	29 784	702	1 452	19 318	86 732	105 623	188 712	4 230
332612	Spring (light gauge) mfg	—	17	9	1 077	38 174	796	1 510	25 072	108 176	63 714	172 801	10 653
332618	Other fabricated wire product mfg	—	78	27	3 917	106 265	2 928	5 940	70 539	235 324	232 693	474 699	13 285
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	1 384	315	25 753	852 010	20 234	39 540	585 510	1 755 590	801 772	2 556 884	153 227
33271	Machine shops	1	1 220	240	18 105	578 738	14 132	26 807	389 510	1 130 829	478 685	1 613 599	85 307
332710	Machine shops	1	1 220	240	18 105	578 738	14 132	26 807	389 510	1 130 829	478 685	1 613 599	85 307
33272	Turned product & screw, nut, & bolt mfg	—	164	75	7 648	273 272	6 102	12 733	196 000	624 761	323 087	943 285	67 920
332721	Precision turned product mfg	—	116	50	3 531	108 157	2 925	6 177	78 378	236 513	126 528	361 958	31 884
332722	Bolt, nut, screw, rivet, & washer mfg	—	48	25	4 117	165 115	3 177	6 556	117 622	388 248	196 559	581 327	36 036
3328	Coating, engraving, heat treating, & allied activities	—	267	86	5 541	173 515	4 269	8 419	112 665	442 298	612 125	1 050 992	68 615
33281	Coating, engraving, heat treating, & allied activities	—	267	86	5 541	173 515	4 269	8 419	112 665	442 298	612 125	1 050 992	68 615
332811	Metal heat treating	—	45	16	1 110	37 180	852	1 687	23 714	91 508	30 951	118 027	16 203
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	—	101	39	2 308	70 666	1 821	3 682	49 324	228 136	517 484	746 262	44 685
332813	Electroplating, plating, polishing, anodizing, & coloring	1	121	31	2 123	65 669	1 596	3 050	39 627	122 654	63 690	186 703	7 727

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
PENNSYLVANIA—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3329	Other fabricated metal product mfg.....	—	380	158	19 368	628 977	13 793	26 775	377 744	1 676 592	1 353 060	3 020 149	99 010
33291	Metal valve mfg.....	—	87	57	8 420	296 117	5 772	11 828	165 210	809 291	557 923	1 347 358	50 323
332911	Industrial valve mfg....	1	48	32	3 018	121 940	1 773	3 584	53 842	300 316	191 635	487 211	21 130
332912	Fluid power valve & hose fitting mfg.....	1	14	8	f	D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting & trim mfg.....	—	5	3	g	D	D	D	D	D	D	D	D
332919	Other metal valve & pipe fitting mfg.....	—	20	14	3 682	115 207	2 851	5 947	79 945	315 449	174 794	479 829	21 145
33299	All other fabricated metal product mfg.....	—	293	101	10 948	332 860	8 021	14 947	212 534	867 301	795 137	1 672 791	48 687
332991	Ball & roller bearing mfg.....	—	8	8	1 472	53 316	1 218	2 420	40 142	204 913	97 839	303 759	8 891
332993	Ammunition (except small arms) mfg.....	—	6	5	1 308	43 538	900	1 691	22 942	106 809	104 748	213 013	4 187
332996	Fabricated pipe & pipe fitting mfg.....	—	47	21	1 948	62 235	1 415	2 638	37 861	159 950	101 705	262 005	10 159
332997	Industrial pattern mfg..	1	54	5	425	11 577	331	562	9 113	20 041	4 518	24 535	1 174
332998	Enameled iron & metal sanitary ware mfg....	—	3	3	f	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg.....	—	162	57	4 904	139 549	3 474	6 643	88 549	315 200	388 500	704 225	18 471
333	Machinery mfg.....	1	1 531	626	73 453	2 763 432	47 288	94 046	1 517 622	6 813 741	5 799 075	12 632 173	413 016
3331	Agriculture, construction, & mining machinery mfg....	1	106	45	11 154	425 377	7 910	15 532	266 093	1 192 301	1 239 649	2 447 660	75 501
33311	Agricultural implement mfg.....	—	47	10	2 198	76 779	1 829	3 416	61 876	165 531	169 792	331 221	8 478
333111	Farm machinery & equipment mfg.....	—	37	7	1 878	66 431	1 568	2 880	54 527	121 895	127 869	246 915	6 704
333112	Lawn & garden tractor & home lawn & garden equipment mfg.....	—	10	3	320	10 348	261	536	7 349	43 636	41 923	84 306	1 774
33312	Construction machinery mfg.....	—	23	14	5 863	226 684	4 224	8 130	142 673	693 914	633 505	1 361 449	52 099
333120	Construction machinery mfg.....	—	23	14	5 863	226 684	4 224	8 130	142 673	693 914	633 505	1 361 449	52 099
33313	Mining & oil & gas field machinery mfg.....	3	36	21	3 093	121 914	1 857	3 986	61 544	332 856	436 352	754 990	14 924
333131	Mining machinery & equipment mfg.....	3	27	16	2 821	111 992	1 673	3 585	56 276	308 715	407 771	703 377	13 355
333132	Oil & gas field machinery & equipment mfg.....	—	9	5	272	9 922	184	401	5 268	24 141	28 581	51 613	1 569
3332	Industrial machinery mfg..	1	216	90	10 887	385 645	5 597	11 249	166 630	955 505	955 051	1 887 611	48 909
33321	Sawmill & woodworking machinery mfg.....	1	11	4	151	4 518	108	218	2 663	9 583	6 649	16 367	103
333210	Sawmill & woodworking machinery mfg.....	1	11	4	151	4 518	108	218	2 663	9 583	6 649	16 367	103
33322	Plastics & rubber industry machinery mfg.....	2	28	12	1 413	62 757	830	1 713	29 217	132 892	161 164	288 323	6 650
333220	Plastics & rubber industry machinery mfg.....	2	28	12	1 413	62 757	830	1 713	29 217	132 892	161 164	288 323	6 650
33329	Other industrial machinery mfg.....	1	177	74	9 323	318 370	4 659	9 318	134 750	813 030	787 238	1 582 921	42 156
333291	Paper industry machinery mfg.....	—	18	7	1 322	50 325	684	1 356	23 474	102 117	67 887	160 679	3 346
333292	Textile machinery mfg..	5	22	8	506	16 719	296	575	8 190	28 954	31 505	60 611	1 632
333293	Printing machinery & equipment mfg.....	—	25	12	1 117	43 183	625	1 261	20 178	139 934	147 574	285 300	6 431
333294	Food product machinery mfg.....	1	19	9	461	17 071	277	562	7 652	30 530	29 516	59 911	D
333295	Semiconductor machinery mfg.....	—	7	4	2 797	69 935	1 072	2 163	19 517	264 817	288 910	543 864	D
333298	All other industrial machinery mfg.....	1	86	34	3 120	121 137	1 705	3 401	55 739	246 678	221 846	472 556	18 680
3333	Commercial & service industry machinery mfg..	1	110	42	3 990	147 443	2 643	5 131	79 939	442 708	259 437	702 958	20 248
33331	Commercial & service industry machinery mfg.....	1	110	42	3 990	147 443	2 643	5 131	79 939	442 708	259 437	702 958	20 248
333311	Automatic vending machine mfg.....	—	3	2	e	D	D	D	D	D	D	D	D
333312	Commercial laundry, drycleaning, & pressing machine mfg.....	—	3	1	c	D	D	D	D	D	D	D	D
333313	Office machinery mfg..	—	5	3	483	21 563	310	622	11 535	104 976	14 741	119 489	D
333314	Optical instrument & lens mfg.....	—	22	7	634	26 231	412	836	14 474	73 913	29 390	97 985	4 389

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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	PENNSYLVANIA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3333	Commercial & service industry machinery mfg—Con.												
33331	Commercial & service industry machinery mfg—Con.												
333315	Photographic & photocopying equipment mfg	7	20	6	513	19 009	358	632	10 233	44 335	31 508	77 234	4 164
333319	Other commercial & service industry machinery mfg	1	57	23	1 957	68 124	1 259	2 431	35 089	189 129	154 741	347 644	6 786
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	107	58	7 198	277 571	4 925	9 950	143 615	922 371	675 422	1 591 209	38 849
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	107	58	7 198	277 571	4 925	9 950	143 615	922 371	675 422	1 591 209	38 849
333411	Air purification equipment mfg	1	15	5	385	10 921	273	540	4 710	34 676	36 622	70 566	4 883
333412	Industrial & commercial fan & blower mfg	1	11	7	513	18 029	341	658	10 571	43 922	33 454	77 021	1 556
333414	Heating equipment (except warm air furnaces) mfg	1	40	20	2 449	81 724	1 486	3 031	38 510	253 868	190 123	440 547	6 526
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	—	41	26	3 851	166 897	2 825	5 721	89 824	589 905	415 223	1 003 075	25 884
3335	Metalworking machinery mfg	1	600	195	16 002	608 426	11 658	23 990	397 457	1 182 869	700 182	1 886 135	79 101
33351	Metalworking machinery mfg	1	600	195	16 002	608 426	11 658	23 990	397 457	1 182 869	700 182	1 886 135	79 101
333511	Industrial mold mfg	1	144	48	3 589	152 622	2 899	6 300	113 354	292 246	129 116	425 621	24 001
333512	Machine tool (metal cutting types) mfg	—	17	11	999	44 783	532	990	18 815	90 302	93 748	178 605	3 084
333513	Machine tool (metal forming types) mfg	1	8	7	524	20 635	342	724	11 046	34 901	32 903	67 645	2 130
333514	Special die & tool, die set, jig, & fixture mfg	1	287	85	6 098	215 563	4 799	9 873	157 479	382 616	150 072	525 137	27 328
333515	Cutting tool & machine tool accessory mfg	—	107	26	2 975	100 287	2 115	4 106	62 805	212 560	118 120	334 720	17 363
333516	Rolling mill machinery & equipment mfg	1	16	7	782	31 114	378	790	12 806	92 658	79 061	177 530	1 918
333518	Other metalworking machinery mfg	1	21	11	1 035	43 422	593	1 207	21 152	77 586	97 162	176 877	3 277
3336	Engine, turbine, & power transmission equipment mfg	—	39	21	3 056	124 614	1 993	4 341	71 364	267 647	168 227	420 468	26 461
33361	Engine, turbine, & power transmission equipment mfg	—	39	21	3 056	124 614	1 993	4 341	71 364	267 647	168 227	420 468	26 461
333611	Turbine & turbine generator set unit mfg	—	6	4	908	35 330	540	1 261	17 331	58 960	63 537	119 718	5 523
333612	Speed changer, industrial high-speed drive, & gear mfg	—	12	6	766	39 154	514	1 296	21 819	74 815	46 702	124 666	9 677
333613	Mechanical power transmission equipment mfg	1	11	6	1 007	37 951	660	1 262	23 846	104 149	34 148	126 967	8 961
333618	Other engine equipment mfg	1	10	5	375	12 179	279	522	8 368	29 723	23 840	49 117	2 300
3339	Other general-purpose machinery mfg	1	353	175	21 166	794 356	12 562	23 853	392 524	1 850 340	1 801 107	3 696 132	123 947
33391	Pump & compressor mfg	2	43	28	5 444	234 539	3 137	5 915	117 258	473 549	382 356	865 640	37 709
333911	Pump & pumping equipment mfg	1	25	15	g	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg	2	16	12	2 954	125 594	1 702	3 136	63 988	310 148	220 981	534 230	23 706
333913	Measuring & dispensing pump mfg	—	2	1	e	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	—	96	47	6 424	199 623	4 067	7 195	103 330	487 695	594 569	1 085 642	43 316
333921	Elevator & moving stairway mfg	—	13	4	642	21 027	394	739	11 235	27 398	64 049	91 708	1 497
333922	Conveyor & conveying equipment mfg	—	49	23	1 741	67 439	961	2 048	32 480	169 657	132 768	301 509	8 392
333923	Overhead traveling crane, hoist, & monorail system mfg	—	18	13	3 507	92 884	2 359	3 712	49 325	259 677	359 239	621 634	29 439
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	1	16	7	534	18 273	353	696	10 290	30 963	38 513	70 791	3 988

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	PENNSYLVANIA—Con.												
31-33	Manufacturing—Con.												
333	Machinery mfg—Con.												
3339	Other general-purpose machinery mfg—Con.												
33399	All other general-purpose machinery mfg	—	214	100	9 298	360 194	5 358	10 743	171 936	889 096	824 182	1 744 850	42 922
333991	Power-driven handtool mfg	—	6	3	677	27 298	426	967	15 296	104 683	60 276	165 989	D
333992	Welding & soldering equipment mfg	1	16	6	885	33 352	583	1 150	19 563	60 673	99 737	162 264	3 560
333993	Packaging machinery mfg	—	39	23	1 401	53 821	849	1 637	26 954	180 644	85 454	276 180	4 411
333994	Industrial process furnace & oven mfg ..	1	31	15	1 128	39 576	574	1 130	14 403	91 574	100 546	195 485	4 532
333995	Fluid power cylinder & actuator mfg	1	14	5	248	6 923	146	289	3 949	13 269	15 781	28 939	860
333996	Fluid power pump & motor mfg	—	5	2	f	D	D	D	D	D	D	D	3 706
333999	All other miscellaneous general-purpose machinery mfg	1	100	45	4 200	167 270	2 345	4 897	78 222	364 793	372 078	751 507	21 719
334	Computer & electronic product mfg	1	815	374	61 585	2 325 810	36 759	73 071	1 045 761	8 362 700	4 456 334	12 840 103	531 873
3341	Computer & peripheral equipment mfg	2	74	28	3 222	123 226	1 286	2 655	43 314	304 249	313 062	612 496	D
33411	Computer & peripheral equipment mfg	2	74	28	3 222	123 226	1 286	2 655	43 314	304 249	313 062	612 496	D
334111	Electronic computer mfg	2	15	5	510	22 347	184	377	7 069	63 875	51 695	111 957	D
334113	Computer terminal mfg	6	6	4	c	D	D	D	D	D	D	D	955
334119	Other computer peripheral equipment mfg	1	50	17	2 429	91 680	989	2 032	31 064	220 543	239 732	458 506	11 199
3342	Communications equipment mfg	3	97	47	10 056	445 510	4 444	7 899	132 740	853 056	713 635	1 578 203	44 826
33421	Telephone apparatus mfg	—	16	9	1 834	121 834	568	919	17 502	129 165	179 976	342 638	2 671
334210	Telephone apparatus mfg	—	16	9	1 834	121 834	568	919	17 502	129 165	179 976	342 638	2 671
33422	Radio & TV broadcasting & wireless communications equipment mfg	4	56	30	6 833	277 684	3 171	5 647	99 033	656 247	484 646	1 120 199	37 283
334220	Radio & TV broadcasting & wireless communications equipment mfg	4	56	30	6 833	277 684	3 171	5 647	99 033	656 247	484 646	1 120 199	37 283
33429	Other communications equipment mfg	1	25	8	1 389	45 992	705	1 333	16 205	67 644	49 013	115 366	4 872
334290	Other communications equipment mfg	1	25	8	1 389	45 992	705	1 333	16 205	67 644	49 013	115 366	4 872
3343	Audio & video equipment mfg	—	13	4	g	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg	—	13	4	g	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg	—	13	4	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	307	160	25 714	891 901	18 812	36 902	502 145	5 177 731	1 775 826	6 949 377	321 764
33441	Semiconductor & other electronic component mfg	—	307	160	25 714	891 901	18 812	36 902	502 145	5 177 731	1 775 826	6 949 377	321 764
334411	Electron tube mfg	—	11	6	2 074	73 892	1 631	3 506	52 917	237 030	256 052	489 474	9 003
334412	Bare printed circuit board mfg	3	40	12	892	23 551	667	1 216	12 481	48 233	26 923	73 628	4 048
334413	Semiconductor & related device mfg ...	—	52	26	7 916	379 774	5 349	10 319	182 225	3 514 498	622 005	4 142 733	230 447
334414	Electronic capacitor mfg	—	8	4	g	D	D	D	D	D	D	D	D
334415	Electronic resistor mfg	1	9	7	948	27 354	571	1 111	12 394	61 915	25 625	88 492	2 428
334416	Electronic coil, transformer, & other inductor mfg	4	21	13	f	D	D	D	D	D	D	D	D
334417	Electronic connector mfg	—	39	30	5 038	160 714	4 242	8 150	119 126	766 033	387 685	1 157 306	35 532
334418	Printed circuit assembly (electronic assembly) mfg	1	37	25	2 283	62 077	1 616	3 213	31 005	132 827	152 020	280 093	10 462
334419	Other electronic component mfg	3	90	37	4 489	112 562	3 248	6 441	61 592	256 506	157 145	412 791	15 869

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	PENNSYLVANIA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3345	Navigational, measuring, medical, & control instruments mfg	1	289	125	17 593	696 208	8 563	17 000	250 595	1 615 383	969 474	2 592 978	70 424
33451	Navigational, measuring, medical, & control instruments mfg	1	289	125	17 593	696 208	8 563	17 000	250 595	1 615 383	969 474	2 592 978	70 424
334510	Electromedical & electrotherapeutic apparatus mfg	—	18	11	1 835	84 163	549	1 059	14 578	148 157	93 517	247 061	11 395
334511	Search, detection, navigation, & guidance instrument mfg	2	24	8	947	35 325	445	920	13 402	83 829	39 130	118 584	3 207
334512	Automatic environmental control mfg	3	24	8	953	25 844	767	1 392	17 897	24 669	34 061	61 132	1 571
334513	Industrial process control instrument mfg	2	67	27	5 148	225 245	2 095	4 179	72 413	600 956	314 363	916 310	18 447
334514	Totalizing fluid meter & counting device mfg .	—	15	9	2 058	77 148	1 245	2 592	37 667	286 213	157 503	444 962	12 274
334515	Electricity measuring & testing instrument mfg	1	33	13	961	33 846	541	961	13 236	73 725	45 225	121 139	4 851
334516	Analytical laboratory instrument mfg	1	52	22	2 708	103 964	1 218	2 484	35 377	216 344	144 535	361 626	10 749
334518	Watch, clock, & part mfg	6	7	4	c	D	D	D	D	D	D	D	D
334519	Other measuring & controlling device mfg	1	45	22	2 730	101 076	1 544	3 086	41 581	160 486	123 828	282 695	6 812
3346	Mfg & reproducing magnetic & optical media .	1	35	10	h	D	D	D	D	D	D	D	26 810
33461	Mfg & reproducing magnetic & optical media	1	35	10	h	D	D	D	D	D	D	D	26 810
334611	Software reproducing .	6	5	2	c	D	D	D	D	D	D	D	2 013
334612	Prerecorded CD (except software), tape, & record reproducing	1	19	7	2 604	89 310	2 126	5 662	74 109	214 832	132 687	351 897	22 805
335	Electrical equipment, appliance, & component mfg	—	378	188	28 820	935 903	20 224	41 923	564 037	2 740 115	2 440 390	5 186 779	174 877
3351	Electric lighting equipment mfg	—	83	37	5 031	138 028	3 932	8 003	98 574	432 294	478 641	921 996	17 619
33511	Electric lamp bulb & part mfg	—	8	5	1 638	56 979	1 382	2 970	47 434	188 607	186 304	382 502	8 021
335110	Electric lamp bulb & part mfg	—	8	5	1 638	56 979	1 382	2 970	47 434	188 607	186 304	382 502	8 021
33512	Lighting fixture mfg	1	75	32	3 393	81 049	2 550	5 033	51 140	243 687	292 337	539 494	9 598
335121	Residential electric lighting fixture mfg ...	1	40	16	1 824	38 204	1 412	2 761	24 456	105 259	136 204	245 791	4 320
335122	Commercial/industrial/ institutional electric lighting fixture mfg ...	—	20	9	1 019	27 076	775	1 552	17 493	75 682	111 521	185 442	3 204
335129	Other lighting equipment mfg	1	15	7	550	15 769	363	720	9 191	62 746	44 612	108 261	2 074
3352	Household appliance mfg..	—	6	5	924	18 379	713	1 323	10 421	218 184	42 979	259 216	2 390
33521	Small electrical appliance mfg	—	4	4	f	D	D	D	D	D	D	D	D
335211	Electric housewares & household fan mfg ...	—	3	3	e	D	D	D	D	D	D	D	D
335212	Household vacuum cleaner mfg	—	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	1	151	63	7 931	268 053	5 199	10 406	141 377	646 146	589 456	1 250 105	29 341
33531	Electrical equipment mfg	1	151	63	7 931	268 053	5 199	10 406	141 377	646 146	589 456	1 250 105	29 341
335311	Power, distribution, & specialty transformer mfg	4	10	4	142	3 493	97	177	2 101	6 454	7 825	14 304	549
335312	Motor & generator mfg	2	42	22	2 960	86 772	2 501	5 242	62 720	190 957	162 329	351 755	9 820
335313	Switchgear & switchboard apparatus mfg	—	25	11	1 950	78 898	1 161	2 285	43 415	224 064	167 460	400 700	5 830
335314	Relay & industrial control mfg	—	74	26	2 879	98 890	1 440	2 702	33 141	224 671	251 842	483 346	13 142
3359	Other electrical equipment & component mfg	—	138	83	14 934	511 443	10 380	22 191	313 665	1 443 491	1 329 314	2 755 462	125 527
33591	Battery mfg	—	7	6	4 014	136 969	2 793	5 852	89 390	369 230	246 865	601 091	31 227
335911	Storage battery mfg ...	—	5	5	h	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg	1	15	15	3 118	94 184	1 940	4 318	51 230	189 842	397 639	590 695	20 664
335929	Other communication & energy wire mfg ...	1	14	14	h	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 ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	PENNSYLVANIA—Con. Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg—Con.												
3359	Other electrical equipment & component mfg—Con.												
33593	Wiring device mfg	-	55	32	4 664	161 484	3 396	6 816	99 503	574 195	400 697	972 057	25 097
335931	Current-carrying wiring device mfg	-	43	23	3 344	119 503	2 327	4 683	69 734	416 835	241 525	654 820	18 161
335932	Noncurrent-carrying wiring device mfg	-	12	9	1 320	41 981	1 069	2 133	29 769	157 360	159 172	317 237	6 936
33599	All other electrical equipment & component mfg	1	61	30	3 138	118 806	2 251	5 205	73 542	310 224	284 113	591 619	48 539
335991	Carbon & graphite product mfg	-	18	13	1 886	79 117	1 439	3 575	54 680	189 692	183 171	372 443	43 961
335999	All other miscellaneous electrical equipment & component mfg	2	43	17	1 252	39 689	812	1 630	18 862	120 532	100 942	219 176	4 578
336	Transportation equipment mfg	-	400	188	52 398	2 159 150	37 086	79 956	1 360 658	5 407 081	5 806 455	10 843 428	314 946
3361	Motor vehicle mfg	-	11	2	g	D	D	D	D	D	D	D	D
33611	Automobile & light duty motor vehicle mfg	-	6	1	c	D	D	D	D	D	D	D	320
336112	Light truck & utility vehicle mfg	-	2	1	c	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg	-	5	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg	-	5	1	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	1	114	52	7 725	205 818	5 941	11 882	134 596	462 873	700 736	1 166 170	23 645
33621	Motor vehicle body & trailer mfg	1	114	52	7 725	205 818	5 941	11 882	134 596	462 873	700 736	1 166 170	23 645
336211	Motor vehicle body mfg	2	63	27	4 357	118 354	3 184	6 389	72 282	238 242	313 082	556 589	19 014
336212	Truck trailer mfg	-	14	9	g	D	D	D	D	D	D	D	D
336213	Motor home mfg	-	1	1	e	D	D	D	D	D	D	D	D
336214	Travel trailer & camper mfg	-	36	15	1 892	47 322	1 552	2 665	30 857	104 456	146 892	249 011	2 889
3363	Motor vehicle parts mfg	-	168	85	19 612	751 788	15 228	32 031	546 957	1 936 707	1 776 883	3 699 672	158 380
33631	Motor vehicle gasoline engine & engine parts mfg	3	26	8	1 099	36 699	930	1 738	27 006	82 746	58 282	140 194	5 844
336311	Carburetor, piston, piston ring, & valve mfg	2	8	4	659	22 823	575	1 151	18 446	52 543	16 937	68 218	2 998
336312	Gasoline engine & engine parts mfg	5	18	4	440	13 876	355	587	8 560	30 203	41 345	71 976	2 846
33632	Motor vehicle electrical & electronic equipment mfg	1	44	26	3 697	122 581	2 921	5 655	84 434	502 772	451 508	964 592	69 523
336321	Vehicular lighting equipment mfg	-	4	3	f	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	1	40	23	h	D	D	D	D	D	D	D	D
33633	Motor vehicle steering & suspension component (except spring) mfg	-	8	3	g	D	D	D	D	D	D	D	D
336330	Motor vehicle steering & suspension component (except spring) mfg	-	8	3	g	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	6	6	3 217	96 680	1 837	5 815	54 457	251 987	126 237	377 608	D
336340	Motor vehicle brake system mfg	-	6	6	3 217	96 680	1 837	5 815	54 457	251 987	126 237	377 608	D
33635	Motor vehicle transmission & power train parts mfg	1	11	6	1 391	55 445	1 036	2 036	42 105	198 687	114 002	313 631	10 463
336350	Motor vehicle transmission & power train parts mfg	1	11	6	1 391	55 445	1 036	2 036	42 105	198 687	114 002	313 631	10 463
33636	Motor vehicle seating & interior trim mfg	-	11	2	e	D	D	D	D	D	D	D	2 358
336360	Motor vehicle seating & interior trim mfg	-	11	2	e	D	D	D	D	D	D	D	2 358
33637	Motor vehicle metal stamping	-	16	11	2 702	140 454	2 236	5 539	113 450	246 816	212 077	444 671	18 188
336370	Motor vehicle metal stamping	-	16	11	2 702	140 454	2 236	5 539	113 450	246 816	212 077	444 671	18 188
33639	Other motor vehicle parts mfg	-	46	23	5 403	240 060	4 458	8 425	181 451	521 407	639 647	1 158 721	27 081
336391	Motor vehicle air-conditioning mfg	-	3	2	197	7 123	98	180	2 292	20 076	28 876	49 258	227
336399	All other motor vehicle parts mfg	-	43	21	5 206	232 937	4 360	8 245	179 159	501 331	610 771	1 109 463	26 854

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	PENNSYLVANIA—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg—Con.												
3364	Aerospace product & parts mfg	-	38	19	8 351	454 417	4 531	9 625	199 261	652 073	856 862	1 284 556	28 927
33641	Aerospace product & parts mfg	-	38	19	8 351	454 417	4 531	9 625	199 261	652 073	856 862	1 284 556	28 927
336411	Aircraft mfg	-	7	4	i	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg	-	7	5	1 305	62 239	983	2 009	37 538	127 404	203 333	320 743	7 152
336413	Other aircraft part & auxiliary equipment mfg	-	24	10	g	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	-	27	21	10 599	470 287	7 365	19 150	287 368	1 530 123	1 586 111	2 961 970	64 558
33651	Railroad rolling stock mfg	-	27	21	10 599	470 287	7 365	19 150	287 368	1 530 123	1 586 111	2 961 970	64 558
336510	Railroad rolling stock mfg	-	27	21	10 599	470 287	7 365	19 150	287 368	1 530 123	1 586 111	2 961 970	64 558
3366	Ship & boat building	5	13	4	e	D	D	D	D	D	D	D	D
33661	Ship & boat building	5	13	4	e	D	D	D	D	D	D	D	D
336611	Ship building & repairing	5	10	4	e	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	-	29	5	4 211	185 553	2 957	4 654	123 584	514 791	461 281	995 992	D
33699	Other transportation equipment mfg	-	29	5	4 211	185 553	2 957	4 654	123 584	514 791	461 281	995 992	D
336991	Motorcycle, bicycle, & parts mfg	-	10	2	h	D	D	D	D	D	D	D	D
336992	Military armored vehicle, tank, & tank component mfg	-	3	2	g	D	D	D	D	D	D	D	D
336999	All other transportation equipment mfg	6	16	1	c	D	D	D	D	D	D	D	326
337	Furniture & related product mfg	1	854	206	24 571	654 389	18 961	37 070	435 293	1 570 896	1 252 237	2 819 727	68 969
3371	Household & institutional furniture & kitchen cabinet mfg	1	617	115	15 255	379 789	12 076	23 262	263 478	800 862	684 735	1 488 600	31 481
33711	Wood kitchen cabinet & counter top mfg	1	326	52	7 059	177 919	5 579	11 108	131 239	373 773	264 529	641 505	12 726
337110	Wood kitchen cabinet & counter top mfg ...	1	326	52	7 059	177 919	5 579	11 108	131 239	373 773	264 529	641 505	12 726
33712	Household & institutional furniture mfg	2	291	63	8 196	201 870	6 497	12 154	132 239	427 089	420 206	847 095	18 755
337121	Upholstered household furniture mfg	3	60	6	1 103	24 387	933	1 560	16 653	43 479	52 210	96 296	1 228
337122	Nonupholstered wood household furniture mfg	3	158	25	2 914	63 070	2 486	4 646	46 667	129 478	105 338	233 784	6 136
337124	Metal household furniture mfg	4	19	9	1 761	40 809	1 531	2 794	30 476	90 390	86 802	177 915	6 038
337125	Household furniture (except wood & metal) mfg	-	8	3	e	D	D	D	D	D	D	D	D
337127	Institutional furniture mfg	-	43	19	1 927	61 620	1 248	2 506	32 128	125 726	136 743	263 498	4 509
337129	Wood television, radio, & sewing machine cabinet mfg	-	3	1	c	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	2	189	74	7 455	230 878	5 451	10 884	140 942	595 178	447 191	1 041 364	33 796
33721	Office furniture (including fixtures) mfg	2	189	74	7 455	230 878	5 451	10 884	140 942	595 178	447 191	1 041 364	33 796
337211	Wood office furniture mfg	3	20	11	1 006	29 410	762	1 692	19 503	63 403	50 433	114 697	4 281
337212	Custom architectural woodwork & millwork mfg	1	61	20	1 356	42 886	945	1 865	24 475	83 960	59 556	144 124	3 992
337214	Office furniture (except wood) mfg	1	17	10	2 307	79 669	1 633	3 445	49 858	297 340	193 497	490 055	18 764
337215	Showcase, partition, shelving, & locker mfg	3	91	33	2 786	78 913	2 111	3 882	47 106	150 475	143 705	292 488	6 759
3379	Other furniture related product mfg	-	48	17	1 861	43 722	1 434	2 924	30 873	174 856	120 311	289 763	3 692
33791	Mattress mfg	-	25	11	779	21 821	602	1 145	12 719	77 701	62 744	140 100	1 499
337910	Mattress mfg	-	25	11	779	21 821	602	1 145	12 719	77 701	62 744	140 100	1 499
33792	Blind & shade mfg	-	23	6	1 082	21 901	832	1 779	18 154	97 155	57 567	149 663	2 193
337920	Blind & shade mfg	-	23	6	1 082	21 901	832	1 779	18 154	97 155	57 567	149 663	2 193

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	PENNSYLVANIA—Con.												
	Manufacturing—Con.												
339	Miscellaneous mfg.....	1	1 207	281	35 287	1 048 728	23 791	45 595	555 836	2 660 778	1 704 553	4 322 400	137 492
3391	Medical equipment & supplies mfg.....	1	536	120	16 041	523 258	9 822	18 956	242 482	1 261 051	671 647	1 921 671	71 540
33911	Medical equipment & supplies mfg.....	1	536	120	16 041	523 258	9 822	18 956	242 482	1 261 051	671 647	1 921 671	71 540
339111	Laboratory apparatus & furniture mfg.....	—	35	16	1 874	69 665	1 035	2 034	31 381	134 295	77 604	220 993	6 530
339112	Surgical & medical instrument mfg.....	1	94	37	6 537	222 132	4 000	7 609	104 962	576 969	212 390	772 566	30 105
339113	Surgical appliance & supplies mfg.....	1	86	34	3 854	121 449	2 141	4 269	47 479	281 668	261 405	542 576	20 584
339114	Dental equipment & supplies mfg.....	—	44	16	1 909	67 080	1 258	2 663	32 117	177 124	77 277	250 937	7 233
339115	Ophthalmic goods mfg.....	5	31	6	565	12 932	436	873	8 668	30 783	19 337	49 276	4 822
339116	Dental laboratories ...	6	246	11	1 302	30 000	952	1 508	17 875	60 212	23 634	85 323	2 266
3399	Other miscellaneous mfg ..	1	671	161	19 246	525 470	13 969	26 639	313 354	1 399 727	1 032 906	2 400 729	65 952
33991	Jewelry & silverware mfg.....	2	88	6	918	22 421	523	922	10 407	52 590	91 522	144 804	1 291
339911	Jewelry (except costume) mfg.....	2	59	5	752	19 164	426	772	8 865	45 986	84 261	131 138	1 030
339914	Costume jewelry & novelty mfg.....	2	15	1	100	1 826	46	75	695	3 409	3 479	6 777	167
33992	Sporting & athletic goods mfg.....	2	79	24	2 558	64 970	1 948	3 372	42 853	171 718	197 197	373 177	11 293
339920	Sporting & athletic goods mfg.....	2	79	24	2 558	64 970	1 948	3 372	42 853	171 718	197 197	373 177	11 293
33993	Doll, toy, & game mfg ...	1	59	22	1 900	43 225	1 410	2 656	25 989	124 042	81 723	202 680	3 949
339931	Doll & stuffed toy mfg .	—	11	3	156	3 213	119	186	1 914	6 064	4 375	10 348	52
339932	Game, toy, & children's vehicle mfg.....	1	48	19	1 744	40 012	1 291	2 470	24 075	117 978	77 348	192 332	3 897
33994	Office supplies (except paper) mfg.....	—	45	12	2 100	49 063	1 685	3 258	34 611	270 912	129 016	379 170	9 764
339941	Pen & mechanical pencil mfg.....	—	4	2	127	3 363	89	191	2 133	7 342	6 703	14 021	95
339942	Lead pencil & art good mfg.....	—	6	4	1 282	28 041	1 169	2 189	22 287	202 889	83 407	264 603	D
339943	Marking device mfg.....	5	26	2	356	7 882	222	428	4 793	16 690	8 150	24 724	D
339944	Carbon paper & inked ribbon mfg.....	—	9	4	335	9 777	205	450	5 398	43 991	30 756	75 822	1 370
33995	Sign mfg.....	2	217	37	3 672	110 596	2 525	4 884	57 564	226 160	157 862	382 629	8 992
339950	Sign mfg.....	2	217	37	3 672	110 596	2 525	4 884	57 564	226 160	157 862	382 629	8 992
33999	All other miscellaneous mfg.....	1	183	60	8 098	235 195	5 878	11 547	141 930	554 305	375 586	918 269	30 663
339991	Gasket, packing, & sealing device mfg....	4	31	13	1 299	42 146	862	1 753	21 010	89 860	60 982	149 792	5 029
339992	Musical instrument mfg.....	—	23	6	1 117	33 748	861	1 672	20 703	77 914	30 631	107 011	3 256
339993	Fastener, button, needle, & pin mfg....	1	7	2	114	3 433	66	131	1 356	5 149	10 491	16 293	431
339994	Broom, brush, & mop mfg.....	2	13	6	799	23 017	588	1 110	12 396	53 337	40 830	91 319	3 023
339995	Burial casket mfg.....	—	10	6	977	28 230	766	1 706	21 758	59 245	36 536	95 500	3 614
339999	All other miscellaneous mfg.....	1	99	27	3 792	104 621	2 735	5 175	64 707	268 800	196 116	458 354	15 310

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

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

Table 2. Industry Statistics for Metropolitan Areas: 1997

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ALLENTOWN-BETHLEHEM-EASTON, PA MSA												
	Manufacturing	-	920	370	45 167	1 499 534	32 334	64 045	899 046	6 886 409	3 757 234	10 640 324	442 235
311	Food mfg	-	62	21	3 372	118 761	2 505	4 864	76 983	563 956	636 937	1 207 973	121 243
3111	Animal food mfg	-	5	2	395	16 628	383	748	11 850	83 420	106 704	189 234	D
31111	Animal food mfg	-	5	2	395	16 628	383	748	11 850	83 420	106 704	189 234	D
311111	Dog & cat food mfg ...	-	2	2	e	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg	-	7	3	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg	-	2	1	e	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg ...	-	2	1	e	D	D	D	D	D	D	D	D
3115	Dairy product mfg	-	7	3	g	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	-	6	3	g	D	D	D	D	D	D	D	D
311513	Cheese mfg	-	3	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	29	4	886	29 926	521	1 034	15 082	85 302	40 532	125 258	7 708
31181	Bread & bakery product mfg	-	29	4	886	29 926	521	1 034	15 082	85 302	40 532	125 258	7 708
311812	Commercial bakeries ..	-	8	2	538	20 562	247	515	7 561	44 202	27 356	71 518	D
3119	Other food mfg	1	8	6	391	11 004	265	499	6 029	107 982	53 641	166 422	D
312	Beverage & tobacco product mfg	-	9	4	739	31 714	474	776	19 667	82 380	142 736	225 498	6 974
3121	Beverage mfg	-	9	4	739	31 714	474	776	19 667	82 380	142 736	225 498	6 974
31211	Soft drink & ice mfg	-	4	3	e	D	D	D	D	D	D	D	D
312111	Soft drink mfg	-	3	3	e	D	D	D	D	D	D	D	D
31212	Breweries	-	4	1	e	D	D	D	D	D	D	D	D
312120	Breweries	-	4	1	e	D	D	D	D	D	D	D	D
313	Textile mills	4	24	15	1 187	31 433	978	2 008	20 762	73 594	69 313	143 380	4 038
3131	Fiber, yarn, & thread mills ..	-	3	2	e	D	D	D	D	D	D	D	216
31311	Fiber, yarn, & thread mills	-	3	2	e	D	D	D	D	D	D	D	216
3132	Fabric mills	5	12	8	515	14 022	443	843	10 080	31 700	38 366	70 505	2 173
31324	Knit fabric mills	5	7	4	250	6 419	226	428	4 742	15 819	12 968	28 406	1 062
3133	Textile & fabric finishing & fabric coating mills	6	9	5	e	D	D	D	D	D	D	D	1 649
31331	Textile & fabric finishing mills	6	8	5	e	D	D	D	D	D	D	D	D
314	Textile product mills	3	20	6	892	18 577	576	1 138	9 535	46 395	77 993	127 729	1 108
3141	Textile furnishings mills	5	5	3	f	D	D	D	D	D	D	D	D
31412	Curtain & linen mills	5	5	3	f	D	D	D	D	D	D	D	D
314129	Other household textile product mills	9	2	1	e	D	D	D	D	D	D	D	D
3149	Other textile product mills ..	-	15	3	e	D	D	D	D	D	D	D	D
31499	All other textile product mills	-	7	3	278	7 142	228	440	4 203	18 719	37 885	56 576	487
315	Apparel mfg	1	142	66	6 366	105 440	5 597	10 695	83 433	211 937	125 994	337 270	5 107
3151	Apparel knitting mills	-	8	4	460	7 854	370	766	5 988	14 891	15 680	30 631	905
31519	Other apparel knitting mills	-	7	4	e	D	D	D	D	D	D	D	D
315192	Underwear & nightwear knitting mills	-	3	2	e	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	2	128	58	5 015	77 004	4 534	8 291	61 896	172 895	69 494	239 747	2 350
31521	Cut & sew apparel contractors	3	95	41	3 429	51 370	3 166	6 007	44 019	99 310	16 042	113 175	1 722
315212	Women's, girls', & infants' cut & sew apparel contractors ..	3	92	39	3 367	50 662	3 109	5 908	43 404	98 210	15 875	111 908	1 701
31523	Women's & girls' cut & sew apparel mfg	-	23	13	1 376	22 511	1 200	1 959	15 518	48 488	44 862	92 507	572
315232	Women's & girls' cut & sew blouse & shirt mfg	1	8	6	261	3 660	242	413	2 861	7 060	7 633	14 507	161
315239	Women's & girls' cut & sew other outerwear mfg	-	10	6	1 042	17 698	901	1 431	11 924	39 199	35 794	74 427	343
3159	Apparel accessories & other apparel mfg	-	6	4	891	20 582	693	1 638	15 549	24 151	40 820	66 892	1 852
31599	Apparel accessories & other apparel mfg	-	6	4	891	20 582	693	1 638	15 549	24 151	40 820	66 892	1 852
315999	Other apparel accessories & other apparel mfg	-	4	3	f	D	D	D	D	D	D	D	D
321	Wood product mfg	2	22	7	e	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	5	18	6	e	D	D	D	D	D	D	D	671

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31-33	ALLENTOWN—BETHLEHEM—EASTON, PA MSA—Con. Manufacturing—Con.												
322	Paper mfg	—	10	8	803	23 183	608	1 206	13 910	65 155	64 183	129 315	4 628
3222	Converted paper product mfg	—	10	8	803	23 183	608	1 206	13 910	65 155	64 183	129 315	4 628
32221	Paperboard container mfg	—	6	5	421	12 859	307	675	7 631	38 159	32 615	70 911	3 150
322211	Corrugated & solid fiber box mfg	—	4	3	e	D	D	D	D	D	D	D	D
32223	Stationery product mfg ..	—	2	1	e	D	D	D	D	D	D	D	D
322232	Envelope mfg	—	1	1	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	87	19	2 965	89 507	2 029	4 252	58 726	195 730	105 942	301 407	8 603
3231	Printing & related support activities	1	87	19	2 965	89 507	2 029	4 252	58 726	195 730	105 942	301 407	8 603
32311	Printing	1	79	17	2 821	85 623	1 928	4 043	56 216	187 825	104 254	291 848	8 367
323110	Commercial lithographic printing ..	2	41	11	1 150	41 227	814	2 061	31 337	77 723	48 689	126 684	4 433
323118	Blankbook, looseleaf binder, & device mfg .	—	1	1	g	D	D	D	D	D	D	D	D
325	Chemical mfg	1	40	16	1 195	44 281	801	1 807	25 369	151 051	107 203	260 661	20 658
3251	Basic chemical mfg	—	18	7	645	23 864	431	1 031	15 799	103 887	68 850	173 478	12 051
32513	Dye & pigment mfg	—	3	3	270	10 705	229	552	8 655	32 815	20 322	54 000	D
325131	Inorganic dye & pigment mfg	—	3	3	270	10 705	229	552	8 655	32 815	20 322	54 000	D
3259	Other chemical product mfg	4	6	4	310	8 997	226	475	5 197	22 442	17 827	40 162	448
32599	All other chemical product & preparation mfg	4	6	4	310	8 997	226	475	5 197	22 442	17 827	40 162	448
325991	Custom compounding of purchased resin ...	4	3	3	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	49	31	3 506	102 245	2 805	5 800	68 792	281 742	264 384	533 449	42 698
3261	Plastics product mfg	1	46	30	h	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	30	19	2 804	81 659	2 251	4 652	55 503	230 973	205 706	425 415	38 914
326192	Resilient floor covering mfg	—	1	1	e	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	2	28	17	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	56	22	1 755	60 320	1 300	2 683	40 424	272 563	158 186	433 864	18 764
3273	Cement & concrete product mfg	—	30	12	1 153	42 895	820	1 697	28 212	231 654	132 180	366 500	15 470
32731	Cement mfg	—	7	6	781	31 895	544	1 112	20 947	208 900	108 786	320 312	13 269
327310	Cement mfg	—	7	6	781	31 895	544	1 112	20 947	208 900	108 786	320 312	13 269
3279	Other nonmetallic mineral product mfg	1	12	7	340	10 061	253	529	6 941	25 859	19 510	45 410	1 987
32799	All other nonmetallic mineral product mfg ...	1	11	6	e	D	D	D	D	D	D	D	1 987
331	Primary metal mfg	1	23	19	2 775	100 753	2 078	4 505	72 860	215 588	267 035	497 415	20 178
3311	Iron & steel mills & ferroalloy mfg	—	3	3	495	23 613	319	763	16 383	11 579	84 045	111 210	D
33111	Iron & steel mills & ferroalloy mfg	—	3	3	495	23 613	319	763	16 383	11 579	84 045	111 210	D
331111	Iron & steel mills	—	3	3	495	23 613	319	763	16 383	11 579	84 045	111 210	D
3314	Nonferrous metal (except aluminum) production & processing	—	6	3	435	8 779	309	525	6 843	43 109	27 426	70 924	6 757
33149	Other nonferrous metal rolling, drawing, extruding, & alloying ...	—	4	2	e	D	D	D	D	D	D	D	D
331492	Other nonferrous metal secondary smelting, refining, & alloying ...	—	2	1	e	D	D	D	D	D	D	D	D
3315	Foundries	—	10	9	1 548	55 898	1 220	2 730	41 817	114 675	73 647	184 631	8 881
33151	Ferrous metal foundries .	—	6	6	1 152	45 184	901	2 059	34 522	91 759	58 689	146 873	7 482
331511	Iron foundries	—	5	5	g	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	—	4	3	396	10 714	319	671	7 295	22 916	14 958	37 758	1 399

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ALLENTOWN-BETHLEHEM-EASTON, PA MSA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg	1	137	46	3 812	132 391	2 606	5 254	77 462	301 602	199 544	494 194	16 663
3323	Architectural & structural metals mfg	1	24	8	468	14 901	307	601	8 102	31 815	37 202	69 143	1 763
3324	Boiler, tank, & shipping container mfg	—	5	4	371	12 740	239	527	7 035	35 906	32 494	65 437	1 223
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	61	14	1 252	41 525	931	1 835	28 929	82 421	23 850	106 094	6 818
33271	Machine shops	1	53	13	1 167	38 461	874	1 718	26 936	76 188	21 355	97 309	6 383
332710	Machine shops	1	53	13	1 167	38 461	874	1 718	26 936	76 188	21 355	97 309	6 383
3328	Coating, engraving, heat treating, & allied activities	—	16	6	523	18 347	385	778	11 625	41 636	53 536	94 365	1 396
33281	Coating, engraving, heat treating, & allied activities	—	16	6	523	18 347	385	778	11 625	41 636	53 536	94 365	1 396
332813	Electroplating, plating, polishing, anodizing, & coloring	—	10	2	273	10 537	193	379	6 472	22 297	29 523	51 909	433
3329	Other fabricated metal product mfg	1	22	9	862	34 170	484	950	15 185	85 078	41 004	122 763	4 442
33291	Metal valve mfg	1	10	6	653	27 808	330	646	11 258	74 244	33 813	104 546	3 752
332919	Other metal valve & pipe fitting mfg	1	5	3	547	23 894	271	544	9 602	63 479	25 653	86 047	D
333	Machinery mfg	—	54	33	3 060	124 381	1 801	3 353	57 741	408 166	288 400	701 581	13 363
3332	Industrial machinery mfg ..	1	15	11	1 024	40 110	591	1 193	18 597	70 242	120 795	197 102	2 853
33329	Other industrial machinery mfg	1	13	11	g	D	D	D	D	D	D	D	D
333298	All other industrial machinery mfg	2	6	6	655	25 451	418	840	14 130	39 060	49 336	92 385	2 458
3333	Commercial & service industry machinery mfg ..	—	7	2	e	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg	—	7	2	e	D	D	D	D	D	D	D	D
333313	Office machinery mfg ..	—	1	1	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	3	4	3	260	10 582	164	326	5 778	6 362	14 372	20 375	692
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	3	4	3	260	10 582	164	326	5 778	6 362	14 372	20 375	692
3339	Other general-purpose machinery mfg	—	18	11	1 078	45 881	582	944	17 887	206 941	127 090	335 011	5 204
33392	Material handling equipment mfg	—	6	4	e	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	—	11	7	815	34 076	466	699	14 122	162 484	104 071	267 966	4 820
333996	Fluid power pump & motor mfg	—	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	35	15	h	D	D	D	D	D	D	D	108 257
3344	Semiconductor & other electronic component mfg	—	14	8	h	D	D	D	D	D	D	D	104 428
33441	Semiconductor & other electronic component mfg	—	14	8	h	D	D	D	D	D	D	D	104 428
334413	Semiconductor & related device mfg ...	—	5	5	g	D	D	D	D	D	D	D	103 671
3345	Navigational, measuring, medical, & control instruments mfg	1	15	7	513	22 969	203	342	5 063	31 424	15 690	47 861	3 668
33451	Navigational, measuring, medical, & control instruments mfg	1	15	7	513	22 969	203	342	5 063	31 424	15 690	47 861	3 668
334516	Analytical laboratory instrument mfg	—	5	4	281	14 268	93	146	2 666	14 620	7 869	22 851	2 349
335	Electrical equipment, appliance, & component mfg	1	23	6	965	42 842	435	898	11 473	143 995	108 181	251 320	7 559
3359	Other electrical equipment & component mfg	—	8	3	735	35 458	280	607	7 337	122 460	89 688	211 241	D
33593	Wiring device mfg	—	2	2	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg	—	1	1	f	D	D	D	D	D	D	D	D

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31-33	ALLENTOWN—BETHLEHEM—EASTON, PA MSA—Con.												
	Manufacturing—Con.												
336	Transportation equipment mfg	1	18	8	2 409	100 394	1 356	3 041	71 986	331 203	462 066	795 126	17 318
3361	Motor vehicle mfg	—	1	1	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg	—	1	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg	—	1	1	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	8	2	2	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	8	2	2	f	D	D	D	D	D	D	D	D
336211	Motor vehicle body mfg	9	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	35	10	1 140	39 873	774	1 604	20 599	100 679	59 095	160 717	2 388
3371	Household & institutional furniture & kitchen cabinet mfg	1	24	7	860	30 816	567	1 210	15 587	80 391	41 218	122 638	D
33712	Household & institutional furniture mfg	1	14	4	737	27 555	475	1 022	13 341	74 795	37 323	113 148	1 047
337127	Institutional furniture mfg	—	4	1	e	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	8	9	3	e	D	D	D	D	D	D	D	1 135
33721	Office furniture (including fixtures) mfg	8	9	3	e	D	D	D	D	D	D	D	1 135
339	Miscellaneous mfg	—	63	16	4 375	127 954	3 176	5 888	71 806	452 579	181 860	605 360	21 363
3391	Medical equipment & supplies mfg	—	26	4	1 937	65 817	1 106	1 940	27 028	172 711	64 513	232 654	10 081
33911	Medical equipment & supplies mfg	—	26	4	1 937	65 817	1 106	1 940	27 028	172 711	64 513	232 654	10 081
339112	Surgical & medical instrument mfg	—	6	2	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg	—	37	12	2 438	62 137	2 070	3 948	44 778	279 868	117 347	372 706	11 282
33994	Office supplies (except paper) mfg	—	2	1	g	D	D	D	D	D	D	D	D
339942	Lead pencil & art good mfg	—	1	1	g	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	1	14	9	1 258	37 151	985	1 934	23 974	86 970	37 816	122 438	4 027
339992	Musical instrument mfg	—	6	3	891	27 674	700	1 362	17 341	61 507	22 900	82 752	D
	ALTOONA, PA MSA												
31-33	Manufacturing	—	157	61	8 966	251 710	6 960	13 419	165 544	865 111	722 732	1 592 437	59 065
311	Food mfg	3	25	11	1 001	20 483	729	1 183	11 017	56 458	79 426	136 446	5 837
3113	Sugar & confectionery product mfg	8	5	3	e	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate	8	4	2	e	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate	8	4	2	e	D	D	D	D	D	D	D	D
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
316213	Men's footwear (except athletic) mfg	—	1	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg	1	18	5	397	9 287	328	556	6 092	23 614	38 583	62 302	999
3219	Other wood product mfg	—	10	2	282	6 898	240	410	4 621	17 841	25 416	43 279	612
322	Paper mfg	—	6	5	1 444	52 580	1 155	2 417	38 867	199 478	158 739	361 329	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	e	D	D	D	D	D	D	D	D
322122	Newsprint mills	—	1	1	e	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	—	4	3	f	D	D	D	D	D	D	D	D
32223	Stationery product mfg	—	2	2	f	D	D	D	D	D	D	D	D
322233	Stationery, tablet, & related product mfg	—	1	1	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	14	4	381	8 165	288	505	4 757	17 471	15 794	32 203	D
3231	Printing & related support activities	1	14	4	381	8 165	288	505	4 757	17 471	15 794	32 203	D
32311	Printing	1	13	4	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ALTOONA, PA MSA— Con. Manufacturing— Con.												
325	Chemical mfg	-	6	2	508	14 959	326	623	7 958	67 738	52 155	120 829	D
3256	Soap, cleaning compound, & toilet preparation mfg ..	-	3	1	e	D	D	D	D	D	D	D	D
32561	Soap & cleaning compound mfg	-	3	1	e	D	D	D	D	D	D	D	D
325612	Polish & other sanitation good mfg ..	-	2	1	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	12	5	642	21 470	490	978	15 116	65 821	52 962	120 122	1 815
3272	Glass & glass product mfg .	-	3	3	e	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	3	3	e	D	D	D	D	D	D	D	D
327215	Glass product mfg made of purchased glass	-	3	3	e	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	3	3	536	19 766	367	889	12 982	44 031	84 073	127 221	D
3314	Nonferrous metal (except aluminum) production & processing	-	3	3	536	19 766	367	889	12 982	44 031	84 073	127 221	D
33142	Copper rolling, drawing, extruding, & alloying ...	-	1	1	e	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, & extruding .	-	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	14	4	778	23 965	651	1 225	16 827	84 449	47 710	133 355	4 520
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	5	3	358	11 052	308	592	7 549	32 092	21 568	53 384	1 553
33272	Turned product & screw, nut, & bolt mfg	-	2	2	e	D	D	D	D	D	D	D	D
332722	Bolt, nut, screw, rivet, & washer mfg	-	2	2	e	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg	-	2	1	e	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	2	1	e	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg	-	1	1	e	D	D	D	D	D	D	D	D
333	Machinery mfg	-	7	3	663	25 791	452	877	14 996	57 957	26 759	84 485	1 558
3332	Industrial machinery mfg ..	-	1	1	e	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	1	1	e	D	D	D	D	D	D	D	D
333291	Paper industry machinery mfg	-	1	1	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	6	3	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	3	3	381	9 048	313	703	6 292	34 626	37 967	74 501	D
3359	Other electrical equipment & component mfg	-	2	2	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	18	4	326	7 065	282	543	3 732	19 259	11 523	30 124	123
3399	Other miscellaneous mfg ..	-	9	4	299	6 607	262	522	3 501	18 090	10 922	28 338	53
	ERIE, PA MSA												
31-33	Manufacturing	-	570	253	32 813	1 142 349	24 172	53 363	739 324	3 128 326	2 621 289	5 779 337	202 249
311	Food mfg	3	26	10	1 400	31 715	910	1 951	20 913	93 678	127 145	220 813	14 022
3114	Fruit & vegetable preserving & specialty food mfg	9	2	2	e	D	D	D	D	D	D	D	D
31141	Frozen food mfg	9	1	1	e	D	D	D	D	D	D	D	D
311412	Frozen specialty food mfg	9	1	1	e	D	D	D	D	D	D	D	D
3117	Seafood product preparation & packaging..	-	1	1	e	D	D	D	D	D	D	D	D
31171	Seafood product preparation & packaging	-	1	1	e	D	D	D	D	D	D	D	D
311712	Fresh & frozen seafood processing ..	-	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 ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ERIE, PA MSA—Con.												
	Manufacturing—Con.												
311	Food mfg—Con.												
3118	Bakeries & tortilla mfg	3	10	4	382	8 331	274	614	6 031	30 937	18 724	49 721	730
31181	Bread & bakery product mfg	3	10	4	382	8 331	274	614	6 031	30 937	18 724	49 721	730
312	Beverage & tobacco product mfg	—	5	2	e	D	D	D	D	D	D	D	D
3121	Beverage mfg	—	5	2	e	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	—	1	1	e	D	D	D	D	D	D	D	D
312111	Soft drink mfg	—	1	1	e	D	D	D	D	D	D	D	D
321	Wood product mfg	3	20	6	359	6 619	270	476	4 760	15 657	18 431	33 538	1 228
3219	Other wood product mfg	1	14	4	284	5 166	206	356	3 529	11 837	12 039	23 293	813
322	Paper mfg	—	5	3	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
323	Printing & related support activities	6	34	4	389	10 380	290	542	7 066	23 660	16 613	40 222	1 870
3231	Printing & related support activities	6	34	4	389	10 380	290	542	7 066	23 660	16 613	40 222	1 870
32311	Printing	6	34	4	389	10 380	290	542	7 066	23 660	16 613	40 222	1 870
323110	Commercial lithographic printing	3	17	3	253	6 543	193	377	4 688	13 641	8 457	22 126	1 132
324	Petroleum & coal products mfg	—	3	3	e	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	—	3	3	e	D	D	D	D	D	D	D	D
325	Chemical mfg	1	11	2	288	12 330	176	323	6 273	43 124	28 146	73 296	2 725
326	Plastics & rubber products mfg	1	64	47	5 734	162 213	4 607	9 036	106 115	415 630	348 918	762 787	42 821
3261	Plastics product mfg	1	58	41	5 061	136 961	4 162	8 093	91 728	343 145	317 060	658 936	39 082
32619	Other plastics product mfg	—	48	34	4 528	117 829	3 756	7 372	82 444	291 023	243 999	533 546	33 888
326199	All other plastics product mfg	—	48	34	4 528	117 829	3 756	7 372	82 444	291 023	243 999	533 546	33 888
3262	Rubber product mfg	—	6	6	673	25 252	445	943	14 387	72 485	31 858	103 851	3 739
32629	Other rubber product mfg	—	4	4	f	D	D	D	D	D	D	D	D
326291	Rubber product mfg for mechanical use	—	3	3	e	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	19	13	1 942	67 085	1 438	3 116	46 379	150 753	109 175	257 148	11 997
3311	Iron & steel mills & ferroalloy mfg	—	1	1	e	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	—	1	1	e	D	D	D	D	D	D	D	D
331111	Iron & steel mills	—	1	1	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	—	2	2	e	D	D	D	D	D	D	D	D
33142	Copper rolling, drawing, extruding, & alloying	—	1	1	e	D	D	D	D	D	D	D	D
331421	Copper rolling, drawing, & extruding	—	1	1	e	D	D	D	D	D	D	D	D
3315	Foundries	—	15	9	1 148	40 189	950	1 994	30 609	98 158	67 539	165 425	8 070
33151	Ferrous metal foundries	—	7	4	504	18 874	380	867	13 262	50 929	31 475	82 370	6 818
331511	Iron foundries	—	5	4	e	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	—	8	5	644	21 315	570	1 127	17 347	47 229	36 064	83 055	1 252
331521	Aluminum die-casting foundries	—	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	169	69	6 416	205 713	4 766	9 636	131 171	454 640	358 453	825 669	25 883
3321	Forging & stamping	—	15	10	1 215	42 518	873	1 938	29 951	80 033	105 192	194 175	2 642
33211	Forging & stamping	—	15	10	1 215	42 518	873	1 938	29 951	80 033	105 192	194 175	2 642
332111	Iron & steel forging	—	6	4	293	10 111	199	470	6 415	21 133	25 569	46 637	D
332114	Custom roll forming	—	1	1	e	D	D	D	D	D	D	D	D
332116	Metal stamping	3	7	4	e	D	D	D	D	D	D	D	1 632
3323	Architectural & structural metals mfg	1	24	11	928	27 651	711	1 372	17 139	71 695	38 562	109 539	2 180
33231	Plate work & fabricated structural product mfg	—	11	4	484	15 586	370	658	9 354	47 993	27 493	74 987	903
332312	Fabricated structural metal mfg	—	8	3	e	D	D	D	D	D	D	D	801
33232	Ornamental & architectural metal products mfg	2	13	7	444	12 065	341	714	7 785	23 702	11 069	34 552	1 277
332322	Sheet metal work mfg	2	10	5	382	10 266	302	632	6 897	20 196	9 270	29 329	1 006

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ERIE, PA MSA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3324	Boiler, tank, & shipping container mfg	—	7	5	362	11 236	269	391	4 638	11 642	47 469	64 097	2 615
33241	Power boiler & heat exchanger mfg	—	2	2	e	D	D	D	D	D	D	D	D
332410	Power boiler & heat exchanger mfg	—	2	2	e	D	D	D	D	D	D	D	D
3326	Spring & wire product mfg .	—	4	2	e	D	D	D	D	D	D	D	D
33261	Spring & wire product mfg	—	4	2	e	D	D	D	D	D	D	D	D
332612	Spring (light gauge) mfg	—	2	1	e	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	65	19	1 880	53 418	1 538	3 185	38 754	105 715	59 791	165 779	8 581
33271	Machine shops	—	53	12	1 449	42 477	1 202	2 434	30 024	80 790	47 518	128 548	6 083
332710	Machine shops	—	53	12	1 449	42 477	1 202	2 434	30 024	80 790	47 518	128 548	6 083
33272	Turned product & screw, nut, & bolt mfg	—	12	7	431	10 941	336	751	8 730	24 925	12 273	37 231	2 498
332721	Precision turned product mfg	—	11	6	e	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, & allied activities .	—	26	8	472	13 645	370	667	8 657	27 063	10 756	37 836	1 494
33281	Coating, engraving, heat treating, & allied activities	—	26	8	472	13 645	370	667	8 657	27 063	10 756	37 836	1 494
332813	Electroplating, plating, polishing, anodizing, & coloring	—	17	5	358	11 133	285	501	7 129	21 226	8 115	29 453	1 150
3329	Other fabricated metal product mfg	—	21	12	1 033	36 271	622	1 285	17 735	109 556	69 480	178 241	3 775
33291	Metal valve mfg	—	12	10	927	33 172	542	1 132	15 576	102 504	66 681	168 289	3 479
332911	Industrial valve mfg . . .	—	9	7	544	18 598	324	646	8 195	39 839	27 578	67 207	2 415
333	Machinery mfg	1	102	43	3 358	137 491	2 256	4 983	83 931	278 638	200 940	477 931	16 867
3335	Metalworking machinery mfg	1	64	27	1 693	80 503	1 303	2 975	54 921	144 737	101 855	246 437	8 965
33351	Metalworking machinery mfg	1	64	27	1 693	80 503	1 303	2 975	54 921	144 737	101 855	246 437	8 965
333511	Industrial mold mfg . . .	—	37	20	1 125	57 425	930	2 250	41 948	100 322	49 629	149 323	7 059
333518	Other metalworking machinery mfg	3	3	3	266	11 415	156	314	6 032	24 921	41 858	67 486	761
3339	Other general-purpose machinery mfg	—	18	9	1 104	37 036	604	1 323	18 504	89 882	66 022	153 889	4 572
33399	All other general-purpose machinery mfg	—	10	6	840	29 291	457	984	14 748	72 469	54 828	125 131	3 736
333999	All other miscellaneous general-purpose machinery mfg	—	5	4	633	25 441	324	732	12 870	64 338	50 682	112 819	D
334	Computer & electronic product mfg	1	16	11	1 578	48 567	1 049	1 908	23 447	105 730	72 244	180 936	5 472
3344	Semiconductor & other electronic component mfg	3	13	8	1 016	22 975	731	1 210	11 397	52 061	40 168	94 641	D
33441	Semiconductor & other electronic component mfg	3	13	8	1 016	22 975	731	1 210	11 397	52 061	40 168	94 641	D
334417	Electronic connector mfg	—	1	1	e	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	8	3	3	338	7 186	236	368	3 942	7 761	15 046	24 931	D
3345	Navigational, measuring, medical, & control instruments mfg	—	2	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	—	2	2	f	D	D	D	D	D	D	D	D
334514	Totalizing fluid meter & counting device mfg .	—	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	1	17	9	554	14 926	418	709	9 335	31 311	23 346	54 344	641
3359	Other electrical equipment & component mfg	—	8	4	336	9 605	261	483	6 163	19 582	13 003	32 166	325
33593	Wiring device mfg	—	5	3	e	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg	—	4	2	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	ERIE, PA MSA—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg	-	11	5	i	D	D	D	D	D	D	D	50 944
3363	Motor vehicle parts mfg ...	-	5	2		272	9 393	227	428	7 185	28 015	49 632	76 358
3365	Railroad rolling stock mfg ...	-	1	1	i	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	-	1	1	i	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	-	1	1	i	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	15	8		695	16 552	567	1 114	10 851	26 245	24 813	51 249
3371	Household & institutional furniture & kitchen cabinet mfg	-	9	4		491	9 785	425	838	7 744	12 649	12 733	25 438
33712	Household & institutional furniture mfg	-	7	4	e	D	D	D	D	D	D	D	D
337122	Nonupholstered wood household furniture mfg	-	2	2	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	31	13		1 650	54 472	965	1 971	25 979	101 584	51 809	165 482
3391	Medical equipment & supplies mfg	-	15	3		1 008	40 609	469	975	17 545	72 310	30 573	114 932
33911	Medical equipment & supplies mfg	-	15	3		1 008	40 609	469	975	17 545	72 310	30 573	114 932
339111	Laboratory apparatus & furniture mfg	-	1	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ...	-	16	10		642	13 863	496	996	8 434	29 274	21 236	50 550
33993	Doll, toy, & game mfg ...	-	5	4		376	8 295	298	677	4 987	17 075	14 277	31 306
339932	Game, toy, & children's vehicle mfg	-	5	4		376	8 295	298	677	4 987	17 075	14 277	31 306
	HARRISBURG—LEBANON—CARLISLE, PA MSA												
31-33	Manufacturing	-	674	265		38 896	1 240 557	29 572	59 978	851 786	3 966 054	4 804 642	8 691 249
311	Food mfg	1	69	31		9 461	347 541	7 339	14 518	239 925	1 499 466	2 141 744	3 594 411
3112	Grain & oilseed milling	-	8	2		535	22 162	395	825	16 263	304 334	228 515	520 723
31123	Breakfast cereal mfg ...	-	2	1	e	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg ..	-	2	1	e	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg	-	8	3	i	D	D	D	D	D	D	D	D
31132	Chocolate & confectionery mfg from cacao beans	-	1	1	h	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans ...	-	1	1	h	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate ...	-	2	2	g	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate	-	2	2	g	D	D	D	D	D	D	D	D
3115	Dairy product mfg	2	8	6		628	19 120	383	828	10 442	70 470	212 701	273 012
31151	Dairy product (except frozen) mfg	-	6	5	e	D	D	D	D	D	D	D	D
3116	Meat product mfg	5	14	9		1 679	35 062	1 433	2 926	27 492	119 905	301 757	423 743
31161	Animal slaughtering & processing	5	14	9		1 679	35 062	1 433	2 926	27 492	119 905	301 757	423 743
311612	Meat processed from carcasses	8	9	6		507	11 354	410	878	8 378	76 134	172 820	251 068
311615	Poultry processing	-	3	3	g	D	D	D	D	D	D	D	2 770
3117	Seafood product preparation & packaging ..	-	1	1	e	D	D	D	D	D	D	D	D
31171	Seafood product preparation & packaging	-	1	1	e	D	D	D	D	D	D	D	D
311712	Fresh & frozen seafood processing ..	-	1	1	e	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	5	17	6		766	19 509	603	1 032	13 902	90 330	54 875	144 731
31181	Bread & bakery product mfg	7	16	5	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	9	4	3	e	D	D	D	D	D	D	D	D
313	Textile mills	-	7	4		651	12 605	528	1 210	9 440	21 492	21 224	40 209
3132	Fabric mills	-	4	3	f	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills ..	-	2	2	e	D	D	D	D	D	D	D	D
313210	Broadwoven fabric mills	-	2	2	e	D	D	D	D	D	D	D	D
314	Textile product mills	-	17	3	g	D	D	D	D	D	D	D	D
3141	Textile furnishings mills	-	10	2	g	D	D	D	D	D	D	D	D
31411	Carpet & rug mills	-	1	1	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	HARRISBURG—LEBANON—CARLISLE, PA MSA—Con. Manufacturing—Con.												
315	Apparel mfg	6	26	15	1 189	16 895	1 079	1 978	13 964	28 053	22 008	50 064	793
3152	Cut & sew apparel mfg	7	18	11	927	13 473	846	1 607	11 036	22 811	16 606	39 386	617
31521	Cut & sew apparel contractors	5	11	8	601	8 244	552	1 062	6 887	11 927	3 763	15 821	239
315212	Women's, girls', & infants' cut & sew apparel contractors ..	5	11	8	601	8 244	552	1 062	6 887	11 927	3 763	15 821	239
316	Leather & allied product mfg .	1	8	4	e	D	D	D	D	D	D	D	D
3162	Footwear mfg	1	7	4	e	D	D	D	D	D	D	D	D
31621	Footwear mfg	1	7	4	e	D	D	D	D	D	D	D	D
321	Wood product mfg	1	35	7	1 268	35 493	1 016	2 263	23 361	48 796	95 692	145 978	7 147
3219	Other wood product mfg ...	—	24	5	1 013	27 015	803	1 788	17 465	33 651	70 768	106 484	5 549
32191	Millwork	—	8	3	f	D	D	D	D	D	D	D	D
321912	Cut stock, resawing lumber, & planing	—	2	1	f	D	D	D	D	D	D	D	D
32199	All other wood product mfg	1	13	1	368	8 819	274	534	4 692	16 476	19 192	36 112	D
321992	Prefabricated wood building mfg	—	4	1	e	D	D	D	D	D	D	D	D
322	Paper mfg	1	10	8	1 535	49 802	1 169	2 307	33 415	233 351	299 447	534 985	14 308
3222	Converted paper product mfg	—	8	6	g	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	—	1	1	f	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	—	1	1	f	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	—	3	2	f	D	D	D	D	D	D	D	D
322299	All other converted paper product mfg ...	—	3	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	—	104	26	3 149	89 751	2 000	4 635	59 414	174 583	124 090	301 007	29 190
3231	Printing & related support activities	—	104	26	3 149	89 751	2 000	4 635	59 414	174 583	124 090	301 007	29 190
32311	Printing	—	95	25	3 026	86 445	1 908	4 463	57 388	168 828	122 388	293 559	29 000
323110	Commercial lithographic printing ..	—	52	16	2 396	71 478	1 434	3 644	47 756	131 800	103 050	237 326	26 028
325	Chemical mfg	—	11	4	658	24 399	434	991	16 351	68 600	150 617	220 899	10 324
3254	Pharmaceutical & medicine mfg	—	2	1	e	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	—	2	1	e	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	—	1	1	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	31	16	2 966	95 270	2 222	4 238	60 001	251 390	295 153	540 758	15 091
3261	Plastics product mfg	—	25	13	g	D	D	D	D	D	D	D	D
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	—	8	3	399	10 420	363	684	8 898	27 544	38 066	65 633	2 003
326121	Unsupported plastics profile shape mfg	—	6	2	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	—	11	5	978	26 593	823	1 474	20 414	58 134	59 277	116 414	2 608
326199	All other plastics product mfg	—	10	5	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	—	6	3	g	D	D	D	D	D	D	D	D
32621	Tire mfg	—	3	1	f	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	—	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	—	3	2	f	D	D	D	D	D	D	D	D
326299	All other rubber product mfg	—	2	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	26	10	1 220	42 045	971	2 212	31 036	184 429	115 648	299 338	19 388
3272	Glass & glass product mfg .	—	6	2	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	—	6	2	f	D	D	D	D	D	D	D	D
327211	Flat glass mfg	—	1	1	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	1	14	4	260	7 795	215	448	5 712	27 307	24 743	51 737	D
3279	Other nonmetallic mineral product mfg	—	4	3	301	10 683	245	573	8 455	38 305	25 700	63 833	3 205

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	HARRISBURG-LEBANON-CARLISLE, PA MSA—Con. Manufacturing—Con.												
331	Primary metal mfg	-	15	13	2 883	117 223	2 408	4 983	93 440	252 096	459 252	705 315	23 509
3311	Iron & steel mills & ferroalloy mfg	-	1	1	g	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	1	1	g	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	1	1	g	D	D	D	D	D	D	D	D
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
331315	Aluminum sheet, plate, & foil mfg	-	1	1	e	D	D	D	D	D	D	D	D
3315	Foundries	-	10	8	956	28 739	812	1 717	22 493	59 221	37 473	95 677	D
33151	Ferrous metal foundries ..	-	9	7	f	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	-	5	4	529	16 309	437	870	12 157	35 597	21 796	56 468	2 070
332	Fabricated metal product mfg	-	98	39	2 551	75 927	2 027	4 032	53 209	214 370	214 670	426 852	14 093
3322	Cutlery & handtool mfg	-	2	2	e	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg ..	-	2	2	e	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg ..	-	2	2	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	1	28	11	652	16 995	474	753	10 681	51 012	50 755	102 039	1 427
33231	Plate work & fabricated structural product mfg ..	1	13	7	461	11 881	341	504	7 428	41 688	43 674	85 455	619
332312	Fabricated structural metal mfg	-	9	5	398	9 558	296	413	5 730	38 439	40 645	79 182	503
3324	Boiler, tank, & shipping container mfg	-	4	4	e	D	D	D	D	D	D	D	711
33242	Metal tank (heavy gauge) mfg	-	3	3	255	9 401	207	506	8 072	19 539	17 035	36 760	D
332420	Metal tank (heavy gauge) mfg	-	3	3	255	9 401	207	506	8 072	19 539	17 035	36 760	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	43	12	f	D	D	D	D	D	D	D	D
33271	Machine shops	2	42	12	627	20 300	521	1 025	13 770	43 686	13 860	57 222	3 165
332710	Machine shops	2	42	12	627	20 300	521	1 025	13 770	43 686	13 860	57 222	3 165
333	Machinery mfg	-	53	30	3 389	109 181	2 281	4 460	66 720	319 480	314 906	615 233	19 649
3331	Agriculture, construction, & mining machinery mfg	-	9	6	1 023	34 800	687	1 390	21 975	124 742	192 447	317 085	5 544
33311	Agricultural implement mfg	-	5	3	e	D	D	D	D	D	D	D	1 200
33312	Construction machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	-	5	4	315	12 688	143	307	5 236	37 386	33 396	63 564	6 924
33329	Other industrial machinery mfg	-	5	4	315	12 688	143	307	5 236	37 386	33 396	63 564	6 924
3335	Metalworking machinery mfg	1	23	11	1 317	36 705	985	1 924	25 375	89 399	32 194	115 270	3 365
33351	Metalworking machinery mfg	1	23	11	1 317	36 705	985	1 924	25 375	89 399	32 194	115 270	3 365
333514	Special die & tool, die set, jig, & fixture mfg ..	2	9	3	350	9 301	264	566	6 673	22 249	9 098	28 904	557
333515	Cutting tool & machine tool accessory mfg ..	-	9	5	810	21 550	621	1 134	15 598	55 368	17 479	68 958	2 080
334	Computer & electronic product mfg	1	32	17	2 243	65 632	1 660	3 356	40 831	182 839	99 196	280 109	8 845
3344	Semiconductor & other electronic component mfg	1	22	14	2 060	61 366	1 537	3 143	38 434	175 279	91 411	264 662	8 557
33441	Semiconductor & other electronic component mfg	1	22	14	2 060	61 366	1 537	3 143	38 434	175 279	91 411	264 662	8 557
334417	Electronic connector mfg	-	4	3	e	D	D	D	D	D	D	D	D
334419	Other electronic component mfg	3	14	10	1 515	40 287	1 071	2 268	21 859	85 583	57 202	141 232	6 481
335	Electrical equipment, appliance, & component mfg	-	4	2	f	D	D	D	D	D	D	D	1 295
3359	Other electrical equipment & component mfg	-	2	1	e	D	D	D	D	D	D	D	D
33593	Wiring device mfg	-	2	1	e	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg	-	2	1	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	HARRISBURG—LEBANON—CARLISLE, PA MSA—Con.												
	Manufacturing—Con.												
336	Transportation equipment mfg	-	19	7	1 065	34 370	857	1 988	25 809	73 824	83 290	154 383	3 311
3362	Motor vehicle body & trailer mfg	-	5	3	274	8 614	212	574	6 848	19 960	20 176	39 845	1 344
33621	Motor vehicle body & trailer mfg	-	5	3	274	8 614	212	574	6 848	19 960	20 176	39 845	1 344
336211	Motor vehicle body mfg	-	5	3	274	8 614	212	574	6 848	19 960	20 176	39 845	1 344
3364	Aerospace product & parts mfg	-	2	1	e	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	-	2	1	e	D	D	D	D	D	D	D	D
336412	Aircraft engine & engine parts mfg	-	1	1	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	36	12	1 076	25 641	691	1 372	14 910	51 913	55 886	108 341	1 696
3371	Household & institutional furniture & kitchen cabinet mfg	1	28	8	839	19 596	527	1 072	11 589	41 424	44 002	86 145	760
33711	Wood kitchen cabinet & counter top mfg	3	17	6	607	13 334	392	786	8 547	20 303	18 180	41 416	661
337110	Wood kitchen cabinet & counter top mfg	3	17	6	607	13 334	392	786	8 547	20 303	18 180	41 416	661
339	Miscellaneous mfg	1	58	13	1 175	25 883	936	1 596	17 115	67 016	47 862	114 190	3 454
3391	Medical equipment & supplies mfg	4	30	5	337	7 880	229	394	4 214	12 998	7 426	20 625	597
33911	Medical equipment & supplies mfg	4	30	5	337	7 880	229	394	4 214	12 998	7 426	20 625	597
3399	Other miscellaneous mfg	-	28	8	838	18 003	707	1 202	12 901	54 018	40 436	93 565	2 857
33993	Doll, toy, & game mfg	-	3	1	e	D	D	D	D	D	D	D	D
339932	Game, toy, & children's vehicle mfg	-	2	1	e	D	D	D	D	D	D	D	D
	JOHNSTOWN, PA MSA												
31-33	Manufacturing	2	271	101	12 231	303 420	8 734	16 025	192 800	816 628	1 158 068	1 993 547	47 991
311	Food mfg	-	21	6	855	25 190	507	993	11 148	73 212	136 489	210 351	8 603
3115	Dairy product mfg	-	6	3	509	16 239	242	415	5 374	41 782	106 436	148 656	5 813
31151	Dairy product (except frozen) mfg	-	4	3	e	D	D	D	D	D	D	D	D
311511	Fluid milk mfg	-	3	2	e	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	9	2	2	e	D	D	D	D	D	D	D	D
3121	Beverage mfg	9	2	2	e	D	D	D	D	D	D	D	D
31211	Soft drink & ice mfg	9	2	2	e	D	D	D	D	D	D	D	D
312111	Soft drink mfg	9	2	2	e	D	D	D	D	D	D	D	D
315	Apparel mfg	-	12	7	2 233	33 262	1 292	1 844	22 854	166 744	148 847	331 116	D
3152	Cut & sew apparel mfg	-	10	7	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	1	4	2	e	D	D	D	D	D	D	D	D
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	-	2	2	e	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	4	4	g	D	D	D	D	D	D	D	D
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	-	2	2	g	D	D	D	D	D	D	D	D
321	Wood product mfg	2	43	11	726	14 823	558	943	10 369	32 876	45 397	78 333	3 231
3211	Sawmills & wood preservation	3	26	5	325	5 840	248	396	3 938	15 659	20 433	36 020	1 971
32111	Sawmills & wood preservation	3	26	5	325	5 840	248	396	3 938	15 659	20 433	36 020	1 971
321113	Sawmills	3	25	5	e	D	D	D	D	D	D	D	D
3219	Other wood product mfg	1	15	5	e	D	D	D	D	D	D	D	D
32191	Millwork	1	13	4	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	3	12	5	254	4 906	204	352	2 886	11 154	9 110	20 171	1 490
327	Nonmetallic mineral product mfg	2	21	7	383	10 839	284	598	7 765	25 006	16 866	41 929	1 285

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JOHNSTOWN, PA MSA—Con.													
31-33	Manufacturing—Con.												
331	Primary metal mfg	-	10	8	1 263	37 845	1 005	1 944	25 408	109 031	147 119	255 155	8 171
3311	Iron & steel mills & ferroalloy mfg	-	3	3	603	20 679	500	1 004	13 367	77 131	125 075	202 234	6 259
33111	Iron & steel mills & ferroalloy mfg	-	3	3	603	20 679	500	1 004	13 367	77 131	125 075	202 234	6 259
331111	Iron & steel mills	-	3	3	603	20 679	500	1 004	13 367	77 131	125 075	202 234	6 259
3315	Foundries	-	5	3	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	-	5	3	f	D	D	D	D	D	D	D	D
331513	Steel foundries (except investment)	-	3	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	2	38	15	1 355	37 269	974	1 952	23 012	73 025	75 817	153 458	4 587
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	16	5	e	D	D	D	D	D	D	D	1 637
33271	Machine shops	-	13	3	300	7 161	265	655	5 997	13 946	13 333	27 283	D
332710	Machine shops	-	13	3	300	7 161	265	655	5 997	13 946	13 333	27 283	D
333	Machinery mfg	4	20	6	1 092	32 656	772	1 623	19 931	83 625	81 333	172 272	6 050
3331	Agriculture, construction, & mining machinery mfg	-	6	2	553	15 333	447	962	10 831	41 856	24 810	67 801	D
33311	Agricultural implement mfg	-	3	1	f	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	7	6	3	463	15 336	268	559	7 832	38 427	49 516	93 974	2 951
33391	Pump & compressor mfg	9	2	2	e	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg	9	2	2	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	4	9	5	277	5 475	210	377	2 793	13 204	9 663	22 493	1 318
336	Transportation equipment mfg	1	20	17	2 516	73 348	2 031	3 853	50 047	173 132	328 006	493 756	6 749
3362	Motor vehicle body & trailer mfg	2	11	10	1 179	30 287	977	1 836	20 900	77 283	97 183	172 721	2 525
33621	Motor vehicle body & trailer mfg	2	11	10	1 179	30 287	977	1 836	20 900	77 283	97 183	172 721	2 525
336211	Motor vehicle body mfg	7	9	8	f	D	D	D	D	D	D	D	D
336214	Travel trailer & camper mfg	-	2	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg	9	2	2	e	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	9	2	2	e	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	9	2	2	e	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg	-	4	4	939	32 985	775	1 505	23 975	67 850	203 232	269 011	2 333
33651	Railroad rolling stock mfg	-	4	4	939	32 985	775	1 505	23 975	67 850	203 232	269 011	2 333
336510	Railroad rolling stock mfg	-	4	4	939	32 985	775	1 505	23 975	67 850	203 232	269 011	2 333
LANCASTER, PA MSA													
31-33	Manufacturing	-	918	370	52 908	1 752 047	40 403	79 651	1 178 496	5 658 468	5 052 520	10 585 384	443 196
311	Food mfg	1	110	53	9 007	281 870	6 462	13 467	190 112	1 249 595	1 399 364	2 616 818	73 957
3111	Animal food mfg	4	17	6	618	21 444	172	329	4 499	46 285	211 277	255 038	3 087
31111	Animal food mfg	4	17	6	618	21 444	172	329	4 499	46 285	211 277	255 038	3 087
311119	Other animal food mfg	4	17	6	618	21 444	172	329	4 499	46 285	211 277	255 038	3 087
3112	Grain & oilseed milling	-	5	1	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal mfg	-	1	1	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg	-	1	1	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg	-	10	5	g	D	D	D	D	D	D	D	18 217
31132	Chocolate & confectionery mfg from cacao beans	-	2	2	f	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans	-	2	2	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg	-	5	3	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg	-	5	3	f	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	9	4	3	459	11 312	399	949	8 869	67 996	29 877	96 858	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LANCASTER, PA MSA—Con.													
31-33	Manufacturing—Con.												
311	Food mfg—Con.												
3115	Dairy product mfg	-	9	5	1 294	39 017	784	1 652	23 311	152 402	234 185	381 643	15 362
31151	Dairy product (except frozen) mfg	-	5	2	e	D	D	D	D	D	D	D	D
311513	Cheese mfg	-	3	1	e	D	D	D	D	D	D	D	D
31152	Ice cream & frozen dessert mfg	-	4	3	f	D	D	D	D	D	D	D	D
311520	Ice cream & frozen dessert mfg	-	4	3	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	11	7	1 546	36 623	1 183	2 643	26 375	60 214	157 223	216 946	4 044
31161	Animal slaughtering & processing	-	11	7	1 546	36 623	1 183	2 643	26 375	60 214	157 223	216 946	4 044
311612	Meat processed from carcasses	1	5	4	481	15 641	331	780	9 046	26 549	54 446	80 577	2 769
311615	Poultry processing	-	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	29	8	1 317	43 497	981	1 861	34 352	174 749	75 958	253 674	7 021
31181	Bread & bakery product mfg	-	24	6	e	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	-	5	2	g	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg	-	3	2	g	D	D	D	D	D	D	D	D
3119	Other food mfg	1	25	18	1 509	33 190	1 069	1 715	19 451	116 188	217 012	333 382	8 522
31191	Snack food mfg	-	15	11	f	D	D	D	D	D	D	D	D
311919	Other snack food mfg	-	15	11	f	D	D	D	D	D	D	D	D
31199	All other food mfg	1	8	6	599	13 676	438	720	7 698	48 608	164 707	213 301	D
311999	All other miscellaneous food mfg	1	7	5	e	D	D	D	D	D	D	D	4 405
312	Beverage & tobacco product mfg	2	9	6	276	7 089	152	265	4 160	19 670	29 570	49 352	1 433
313	Textile mills	3	8	6	718	19 184	597	1 160	13 604	46 730	30 901	77 512	D
3132	Fabric mills	1	6	5	f	D	D	D	D	D	D	D	D
31324	Knit fabric mills	3	4	4	e	D	D	D	D	D	D	D	D
313241	Weft knit fabric mills ..	3	4	4	e	D	D	D	D	D	D	D	D
315	Apparel mfg	-	39	20	2 897	60 262	2 396	4 710	42 372	119 492	141 244	253 635	2 582
3151	Apparel knitting mills	-	3	3	f	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills	-	2	2	e	D	D	D	D	D	D	D	D
315191	Outerwear knitting mills	-	2	2	e	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	1	32	15	1 476	25 662	1 301	2 553	20 681	51 890	47 162	98 790	742
31521	Cut & sew apparel contractors	6	17	6	598	11 315	524	1 160	9 307	16 688	1 723	18 371	229
315212	Women's, girls', & infants' cut & sew apparel contractors ..	6	15	4	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	8	5	607	10 212	540	951	8 166	28 329	42 129	69 945	207
3159	Apparel accessories & other apparel mfg	-	4	2	f	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	-	4	2	f	D	D	D	D	D	D	D	D
315991	Hat, cap, & millinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg	-	63	17	2 491	64 298	1 963	3 396	43 345	135 771	171 329	307 009	6 044
3219	Other wood product mfg ..	-	51	14	2 360	61 251	1 865	3 195	41 301	129 868	150 033	279 893	5 302
32191	Millwork	-	12	5	1 130	29 094	857	1 329	19 657	49 669	41 400	90 561	3 431
321911	Wood window & door mfg	-	5	3	965	25 993	760	1 163	17 715	46 135	34 383	80 003	D
32199	All other wood product mfg	-	32	6	1 100	29 239	893	1 660	19 429	73 457	100 478	174 448	1 376
321991	Manufactured home (mobile home) mfg ..	-	5	5	906	24 913	731	1 357	16 219	63 293	85 604	149 233	871
322	Paper mfg	-	13	11	885	30 643	629	1 337	16 174	79 577	104 577	184 988	4 720
3222	Converted paper product mfg	-	13	11	885	30 643	629	1 337	16 174	79 577	104 577	184 988	4 720
32221	Paperboard container mfg	-	7	6	516	19 786	347	693	9 081	49 853	71 277	121 555	D
322211	Corrugated & solid fiber box mfg	-	6	5	e	D	D	D	D	D	D	D	2 439
32229	Other converted paper product mfg	-	3	2	e	D	D	D	D	D	D	D	D
322299	All other converted paper product mfg	-	3	2	e	D	D	D	D	D	D	D	D

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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LANCASTER, PA MSA—Con.												
31-33	Manufacturing—Con.												
323	Printing & related support activities.....	-	95	42	6 833	247 405	5 491	10 873	179 908	652 431	448 137	1 098 060	61 469
3231	Printing & related support activities.....	-	95	42	6 833	247 405	5 491	10 873	179 908	652 431	448 137	1 098 060	61 469
32311	Printing	-	79	34	6 392	234 341	5 177	10 312	172 100	629 688	443 909	1 071 110	59 568
323110	Commercial lithographic printing ..	-	41	19	4 784	181 673	3 931	7 703	133 660	504 358	336 343	837 012	50 500
323111	Commercial gravure printing	-	1	1	e	D	D	D	D	D	D	D	D
323116	Manifold business form printing	-	3	3	259	7 917	185	328	5 412	28 048	55 064	84 149	D
323117	Book printing.....	1	5	4	596	19 881	497	1 100	15 830	42 490	16 448	58 914	2 594
32312	Support activities for printing.....	1	16	8	441	13 064	314	561	7 808	22 743	4 228	26 950	1 901
323122	Prepress services	1	13	6	350	9 644	240	407	5 506	16 588	3 352	19 915	D
325	Chemical mfg	-	29	12	2 255	96 353	1 625	2 793	61 757	1 025 984	199 891	1 187 310	63 379
3253	Pesticide, fertilizer, & other agricultural chemical mfg .	-	6	2	306	9 839	213	435	5 343	27 230	23 011	50 315	1 407
3254	Pharmaceutical & medicine mfg	-	6	5	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	-	6	5	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	-	4	3	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	31	23	4 281	169 493	3 702	7 665	134 104	473 231	406 031	861 881	82 105
3261	Plastics product mfg	-	23	18	3 878	153 046	3 398	6 950	123 803	429 359	378 010	790 021	78 746
32614	Polystyrene foam product mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
326140	Polystyrene foam product mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	14	9	2 438	114 505	2 060	4 215	90 380	377 192	211 474	571 583	D
326192	Resilient floor covering mfg	-	1	1	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg.....	2	12	7	f	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	8	5	403	16 447	304	715	10 301	43 872	28 021	71 860	3 359
327	Nonmetallic mineral product mfg	-	26	10	1 329	47 340	1 124	2 113	37 908	97 024	95 193	189 753	19 052
3273	Cement & concrete product mfg	-	15	8	655	21 112	545	1 055	15 994	33 474	55 620	86 435	D
32739	Other concrete product mfg	-	7	4	393	12 363	336	579	9 669	18 141	30 877	46 741	D
327390	Other concrete product mfg	-	7	4	393	12 363	336	579	9 669	18 141	30 877	46 741	D
3279	Other nonmetallic mineral product mfg.....	-	6	1	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg	-	6	1	f	D	D	D	D	D	D	D	D
327993	Mineral wool mfg	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	26	18	2 921	105 858	2 316	4 931	75 504	251 979	534 418	766 803	47 575
3313	Alumina & aluminum production & processing ..	-	3	3	1 090	51 286	828	1 700	36 291	118 033	404 599	502 862	D
33131	Alumina & aluminum production & processing.....	-	3	3	1 090	51 286	828	1 700	36 291	118 033	404 599	502 862	D
331315	Aluminum sheet, plate, & foil mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
3315	Foundries	-	19	11	1 416	38 175	1 210	2 619	28 923	78 666	34 914	113 611	3 043
33151	Ferrous metal foundries .	-	7	5	922	24 465	787	1 764	19 372	47 797	19 331	67 131	858
331511	Iron foundries	-	6	4	f	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	12	6	494	13 710	423	855	9 551	30 869	15 583	46 480	2 185
332	Fabricated metal product mfg	-	154	60	7 280	235 346	5 656	11 102	147 387	540 152	411 737	938 876	33 081
3323	Architectural & structural metals mfg	-	34	18	2 075	68 258	1 632	3 033	43 495	148 655	142 978	284 008	6 938
33231	Plate work & fabricated structural product mfg ..	-	17	10	1 286	41 994	1 045	1 714	26 289	93 065	80 186	165 854	3 623
332312	Fabricated structural metal mfg	-	13	8	1 142	37 181	931	1 507	23 035	81 902	72 495	147 169	3 430
33232	Ornamental & architectural metal products mfg.....	-	17	8	789	26 264	587	1 319	17 206	55 590	62 792	118 154	3 315
332322	Sheet metal work mfg .	-	10	5	645	22 231	477	1 063	14 511	44 680	52 831	97 291	2 557
3324	Boiler, tank, & shipping container mfg	-	4	3	345	11 794	278	626	8 558	28 276	21 082	48 221	575

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	LANCASTER, PA MSA												
	—Con.												
31-33	Manufacturing—												
	Con.												
332	Fabricated metal product mfg—Con.												
3326	Spring & wire product mfg .	3	13	5	350	9 752	260	523	6 233	19 548	18 393	37 710	1 395
33261	Spring & wire product mfg	3	13	5	350	9 752	260	523	6 233	19 548	18 393	37 710	1 395
332618	Other fabricated wire product mfg	3	13	5	350	9 752	260	523	6 233	19 548	18 393	37 710	1 395
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	68	19	1 363	42 379	1 083	2 123	27 509	72 554	40 066	112 415	7 159
33271	Machine shops	1	51	9	593	18 046	440	783	11 630	30 210	14 076	44 600	1 965
332710	Machine shops	1	51	9	593	18 046	440	783	11 630	30 210	14 076	44 600	1 965
33272	Turned product & screw, nut, & bolt mfg	—	17	10	770	24 333	643	1 340	15 879	42 344	25 990	67 815	5 194
332721	Precision turned product mfg	—	14	8	692	21 604	587	1 215	14 144	39 039	21 454	60 175	D
3329	Other fabricated metal product mfg	—	15	8	2 535	87 145	1 958	3 936	52 733	235 745	153 651	385 481	14 209
33291	Metal valve mfg	—	2	2	g	D	D	D	D	D	D	D	D
332911	Industrial valve mfg ...	—	1	1	e	D	D	D	D	D	D	D	D
332919	Other metal valve & pipe fitting mfg	—	1	1	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	—	13	6	g	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg	—	2	2	f	D	D	D	D	D	D	D	D
332993	Ammunition (except small arms) mfg	—	1	1	e	D	D	D	D	D	D	D	D
333	Machinery mfg	1	77	29	3 125	122 120	2 252	4 100	80 523	268 509	250 855	515 601	13 394
3331	Agriculture, construction, & mining machinery mfg	—	23	6	1 185	49 074	989	1 674	40 898	75 759	90 897	162 174	3 836
33311	Agricultural implement mfg	—	20	3	1 090	45 986	934	1 550	39 209	69 150	84 906	149 631	2 947
333111	Farm machinery & equipment mfg	—	18	3	g	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	1	11	3	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	7	6	569	21 454	300	639	7 855	80 397	83 799	160 928	2 947
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	—	7	6	569	21 454	300	639	7 855	80 397	83 799	160 928	2 947
333414	Heating equipment (except warm air furnaces) mfg	—	5	4	e	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	3	15	5	334	11 231	264	435	8 110	14 810	4 254	19 217	1 305
33351	Metalworking machinery mfg	3	15	5	334	11 231	264	435	8 110	14 810	4 254	19 217	1 305
3339	Other general-purpose machinery mfg	1	16	8	617	21 106	458	845	14 397	57 001	38 128	97 276	2 331
33399	All other general-purpose machinery mfg	—	7	3	340	11 288	271	526	8 396	31 368	11 128	42 426	599
333999	All other miscellaneous general-purpose machinery mfg	—	5	2	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	23	13	2 253	86 083	1 427	2 764	39 565	289 543	179 697	476 711	11 275
3342	Communications equipment mfg	—	3	3	f	D	D	D	D	D	D	D	4 564
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	2	2	e	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	2	2	e	D	D	D	D	D	D	D	D
33429	Other communications equipment mfg	—	1	1	e	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg	—	1	1	e	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	1	11	8	1 199	48 794	952	1 911	28 254	135 606	65 359	205 376	4 845
33441	Semiconductor & other electronic component mfg	1	11	8	1 199	48 794	952	1 911	28 254	135 606	65 359	205 376	4 845
334411	Electron tube mfg	—	1	1	e	D	D	D	D	D	D	D	D
334417	Electronic connector mfg	—	3	3	f	D	D	D	D	D	D	D	D
334418	Printed circuit assembly (electronic assembly) mfg	4	3	3	267	11 344	209	593	7 461	27 244	21 777	49 117	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	LANCASTER, PA MSA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3345	Navigational, measuring, medical, & control instruments mfg	—	5	2	307	7 822	167	241	3 301	17 399	9 973	28 104	D
33451	Navigational, measuring, medical, & control instruments mfg	—	5	2	307	7 822	167	241	3 301	17 399	9 973	28 104	D
335	Electrical equipment, appliance, & component mfg	—	16	8	1 866	52 761	1 234	2 602	34 493	136 543	256 834	393 448	9 503
3353	Electrical equipment mfg ..	—	5	3	480	11 314	348	651	5 228	11 787	35 398	46 219	D
33531	Electrical equipment mfg	—	5	3	480	11 314	348	651	5 228	11 787	35 398	46 219	D
335312	Motor & generator mfg	—	2	1	e	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	—	7	5	1 371	41 179	874	1 932	29 077	124 064	220 762	345 840	8 036
33592	Communication & energy wire & cable mfg	—	2	2	f	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg ...	—	2	2	f	D	D	D	D	D	D	D	D
33593	Wiring device mfg	—	3	2	e	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg	—	3	2	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	28	10	1 390	41 663	1 008	1 906	25 017	98 244	260 032	359 349	3 265
3362	Motor vehicle body & trailer mfg	—	12	6	775	22 772	590	1 044	14 227	41 052	60 117	103 500	475
33621	Motor vehicle body & trailer mfg	—	12	6	775	22 772	590	1 044	14 227	41 052	60 117	103 500	475
336211	Motor vehicle body mfg	—	4	1	e	D	D	D	D	D	D	D	D
336214	Travel trailer & camper mfg	—	7	4	402	10 024	312	499	6 291	16 144	26 549	42 860	222
3363	Motor vehicle parts mfg ...	1	7	3	e	D	D	D	D	D	D	D	2 472
337	Furniture & related product mfg	2	86	17	1 982	55 967	1 537	2 920	36 961	106 948	87 129	194 533	3 218
3371	Household & institutional furniture & kitchen cabinet mfg	3	79	13	1 672	46 118	1 288	2 455	31 716	84 993	65 259	150 737	2 402
33711	Wood kitchen cabinet & counter top mfg	2	43	9	1 009	30 451	749	1 563	20 673	51 420	29 695	81 240	1 222
337110	Wood kitchen cabinet & counter top mfg ...	2	43	9	1 009	30 451	749	1 563	20 673	51 420	29 695	81 240	1 222
33712	Household & institutional furniture mfg	4	36	4	663	15 667	539	892	11 043	33 573	35 564	69 497	1 180
337122	Nonupholstered wood household furniture mfg	7	30	2	366	7 870	314	513	6 078	21 340	21 083	42 730	806
3379	Other furniture related product mfg	—	3	2	e	D	D	D	D	D	D	D	464
33791	Mattress mfg	—	3	2	e	D	D	D	D	D	D	D	464
337910	Mattress mfg	—	3	2	e	D	D	D	D	D	D	D	464
339	Miscellaneous mfg	2	59	11	792	22 581	581	1 183	12 350	49 763	28 223	79 264	2 573
3391	Medical equipment & supplies mfg	2	18	5	376	13 304	254	609	6 726	31 305	16 614	49 017	1 769
33911	Medical equipment & supplies mfg	2	18	5	376	13 304	254	609	6 726	31 305	16 614	49 017	1 769
3399	Other miscellaneous mfg ...	2	41	6	416	9 277	327	574	5 624	18 458	11 609	30 247	804
	NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA												
31-33	Manufacturing	1	29 610	8 242	837 259	29 316 270	556 831	1 099 707	14 974 104	88 559 145	75 447 144	164 000 119	5 662 912
	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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	NEW YORK–NORTHERN NEW JERSEY–LONG ISLAND, NY–NJ–CT–PA CMSA—Con.												
	Manufacturing—Con.												
	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
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
31-33	Newburgh, NY–PA PMSA												
	Manufacturing.....	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

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	NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con.												
	Newburgh, NY—PA PMSA—Con.												
31-33	Manufacturing—Con.												
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
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

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	NEW YORK—NORTHERN NEW JERSEY—LONG ISLAND, NY—NJ—CT—PA CMSA—Con. Newburgh, NY—PA PMSA—Con. Manufacturing—Con.												
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
31-33	PHILADELPHIA—WILMINGTON—ATLANTIC CITY, PA—NJ—DE—MD CMSA Manufacturing	1	7 571	2 521	296 009	11 144 543	198 342	402 245	6 246 279	36 032 591	42 854 609	78 627 684	3 154 094
	Philadelphia—Wilmington—Atlantic City, PA—NJ—DE—MD CMSA (DE Part)	—	458	152	22 610	1 000 141	15 063	32 184	586 957	3 047 597	5 748 447	8 734 968	411 143
	Philadelphia—Wilmington—Atlantic City, PA—NJ—DE—MD CMSA (MD Part)	—	55	22	2 766	100 911	1 618	3 211	48 378	385 245	295 709	678 271	52 939
	Philadelphia—Wilmington—Atlantic City, PA—NJ—DE—MD CMSA (NJ Part)	1	1 931	643	73 747	2 654 647	51 459	101 322	1 560 504	8 161 513	9 971 460	18 209 340	508 565
	Philadelphia—Wilmington—Atlantic City, PA—NJ—DE—MD CMSA (PA Part)	1	5 127	1 704	196 886	7 388 844	130 202	265 528	4 050 440	24 438 236	26 838 993	51 005 105	2 181 447
311	Food mfg	1	658	204	26 743	799 864	18 468	36 623	476 156	2 875 491	4 075 170	6 931 087	163 018
312	Beverage & tobacco product mfg	1	41	15	h	D	D	D	D	D	D	D	D
313	Textile mills	2	111	51	h	D	D	D	D	D	D	D	D
314	Textile product mills	1	150	30	h	D	D	D	D	D	D	D	D
315	Apparel mfg	3	300	109	j	D	D	D	D	D	D	D	D
316	Leather & allied product mfg . .	—	25	4	e	D	D	D	D	D	D	D	D
321	Wood product mfg	2	151	35	2 393	61 337	1 849	3 513	38 878	144 044	231 714	372 912	D
322	Paper mfg	1	167	111	j	D	D	D	D	D	D	D	D
323	Printing & related support activities	2	1 071	237	25 080	873 504	17 864	34 229	537 117	1 962 280	1 237 277	3 197 812	134 832
324	Petroleum & coal products mfg	—	69	33	i	D	D	D	D	D	D	D	D
325	Chemical mfg	—	371	205	k	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	350	178	16 562	555 452	12 154	24 588	328 294	1 685 983	1 375 225	3 062 168	151 712
327	Nonmetallic mineral product mfg	1	300	114	12 188	429 542	9 612	20 003	308 463	1 106 394	734 488	1 834 034	D
331	Primary metal mfg	—	91	52	j	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	1 270	376	31 121	1 131 270	22 772	45 939	690 784	2 548 013	1 825 591	4 351 565	D
333	Machinery mfg	1	579	200	j	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	2	480	205	29 370	1 229 659	15 453	30 789	532 374	3 098 273	1 937 075	5 006 993	D
335	Electrical equipment, appliance, & component mfg	1	165	66	i	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	176	72	j	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	356	70	8 035	246 015	6 057	12 131	155 199	632 178	506 362	1 136 678	D
339	Miscellaneous mfg	2	690	154	j	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	PHILADELPHIA–WILMINGTON–ATLANTIC CITY, PA–NJ–DE–MD CMSA—Con.												
	Philadelphia, PA–NJ PMSA—Con.												
31-33	Manufacturing—Con.												
315	Apparel mfg—Con.												
3159	Apparel accessories & other apparel mfg	1	53	14	1 022	18 661	763	1 234	10 700	30 152	43 353	73 193	1 627
31599	Apparel accessories & other apparel mfg	1	53	14	1 022	18 661	763	1 234	10 700	30 152	43 353	73 193	1 627
315999	Other apparel accessories & other apparel mfg	1	41	11	810	15 992	608	1 009	8 949	24 284	39 526	63 526	D
316	Leather & allied product mfg .	2	23	3	269	5 328	194	363	3 613	16 009	16 012	33 946	292
321	Wood product mfg	2	125	33	2 080	53 993	1 596	3 045	33 892	123 908	208 532	328 825	D
3212	Veneer, plywood, & engineered wood product mfg	1	11	6	e	D	D	D	D	D	D	D	D
32121	Veneer, plywood, & engineered wood product mfg	1	11	6	e	D	D	D	D	D	D	D	D
321214	Truss mfg	1	6	5	e	D	D	D	D	D	D	D	D
3219	Other wood product mfg . . .	3	106	26	1 547	35 874	1 221	2 276	25 206	71 711	99 465	171 840	D
32191	Millwork	6	40	6	441	10 609	323	593	7 544	18 664	20 575	39 675	D
321911	Wood window & door mfg	8	17	5	307	6 766	219	396	4 694	11 909	14 332	26 695	D
32192	Wood container & pallet mfg	3	36	12	614	13 516	496	903	9 362	23 396	37 389	60 878	D
321920	Wood container & pallet mfg	3	36	12	614	13 516	496	903	9 362	23 396	37 389	60 878	D
32199	All other wood product mfg	1	30	8	492	11 749	402	780	8 300	29 651	41 501	71 287	D
321999	All other miscellaneous wood product mfg . . .	1	22	5	341	7 722	274	538	5 171	19 125	27 290	46 473	D
322	Paper mfg	1	150	99	11 236	449 189	8 241	17 384	277 145	1 450 721	1 414 585	2 845 499	138 630
3221	Pulp, paper, & paperboard mills	—	10	10	1 889	92 955	1 619	3 472	74 417	524 105	256 454	757 977	51 413
32212	Paper mills	—	2	2	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	—	2	2	g	D	D	D	D	D	D	D	D
32213	Paperboard mills	—	8	8	f	D	D	D	D	D	D	D	D
322130	Paperboard mills	—	8	8	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	1	140	89	9 347	356 234	6 622	13 912	202 728	926 616	1 158 131	2 087 522	87 217
32221	Paperboard container mfg	1	65	46	4 185	152 353	3 115	6 819	90 923	370 650	490 254	861 500	31 020
322211	Corrugated & solid fiber box mfg	1	30	21	2 160	84 261	1 548	3 205	47 103	198 213	292 509	491 909	18 558
322212	Folding paperboard box mfg	1	22	15	g	D	D	D	D	D	D	D	8 763
322213	Setup paperboard box mfg	3	7	5	253	7 002	199	393	4 565	12 528	9 852	22 135	23
322215	Nonfolding sanitary food container mfg . . .	—	2	2	e	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	1	33	18	2 395	99 724	1 646	3 573	57 980	326 947	334 878	659 370	19 934
322222	Coated & laminated paper mfg	1	23	11	1 294	57 420	834	1 831	31 707	227 422	187 938	414 056	12 677
322223	Plastics, foil, & coated paper bag mfg	—	3	3	f	D	D	D	D	D	D	D	D
322225	Laminated aluminum foil mfg for flexible packaging uses	—	2	2	e	D	D	D	D	D	D	D	D
32223	Stationery product mfg . . .	1	22	11	895	30 392	557	1 152	15 627	51 391	71 059	124 796	2 120
322232	Envelope mfg	—	4	4	578	21 283	337	725	10 379	34 432	57 907	94 456	1 304
32229	Other converted paper product mfg	2	20	14	1 872	73 765	1 304	2 368	38 198	177 628	261 940	441 856	34 143
322291	Sanitary paper product mfg	—	5	4	926	42 456	658	1 402	26 839	103 227	129 023	228 166	D
322299	All other converted paper product mfg . . .	3	15	10	946	31 309	646	966	11 359	74 401	132 917	213 690	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	PHILADELPHIA–WILMINGTON–ATLANTIC CITY, PA–NJ–DE–MD CMSA—Con.												
	Philadelphia, PA–NJ PMSA—Con.												
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg—Con.												
3359	Other electrical equipment & component mfg—Con.												
33599	All other electrical equipment & component mfg	1	25	12	900	30 071	550	1 112	12 782	95 802	88 827	182 661	4 322
335999	All other miscellaneous electrical equipment & component mfg	2	24	11	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	146	57	18 157	789 903	11 575	26 087	425 749	1 694 228	1 786 397	3 280 544	D
3362	Motor vehicle body & trailer mfg	2	20	5	401	10 775	283	535	6 097	22 047	38 682	60 999	D
33621	Motor vehicle body & trailer mfg	2	20	5	401	10 775	283	535	6 097	22 047	38 682	60 999	D
3363	Motor vehicle parts mfg . . .	—	83	39	10 455	383 622	7 486	17 479	251 535	1 172 913	1 095 528	2 290 724	107 314
33631	Motor vehicle gasoline engine & engine parts mfg	2	13	5	625	18 719	494	811	11 629	44 828	100 199	159 210	D
336312	Gasoline engine & engine parts mfg	2	9	4	587	17 681	464	762	10 930	42 821	98 895	155 910	D
33632	Motor vehicle electrical & electronic equipment mfg	—	29	13	2 469	97 991	1 921	3 943	68 542	376 964	384 281	776 400	D
336322	Other motor vehicle electrical & electronic equipment mfg	—	28	13	g	D	D	D	D	D	D	D	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	—	8	6	h	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	—	8	6	h	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	—	4	2	g	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	—	4	2	g	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	—	4	3	g	D	D	D	D	D	D	D	2 528
336370	Motor vehicle metal stamping	—	4	3	g	D	D	D	D	D	D	D	2 528
33639	Other motor vehicle parts mfg	1	19	8	1 081	37 649	833	1 474	18 353	111 253	194 398	304 604	6 415
336399	All other motor vehicle parts mfg	1	19	8	1 081	37 649	833	1 474	18 353	111 253	194 398	304 604	6 415
3364	Aerospace product & parts mfg	—	17	7	6 167	364 687	2 872	6 144	144 060	454 077	577 423	808 990	17 956
33641	Aerospace product & parts mfg	—	17	7	6 167	364 687	2 872	6 144	144 060	454 077	577 423	808 990	17 956
336411	Aircraft mfg	—	5	2	i	D	D	D	D	D	D	D	D
336413	Other aircraft part & auxiliary equipment mfg	1	12	5	f	D	D	D	D	D	D	D	D
3366	Ship & boat building	—	14	2	821	22 097	741	1 654	19 039	22 946	38 934	61 883	D
33661	Ship & boat building	—	14	2	821	22 097	741	1 654	19 039	22 946	38 934	61 883	D
336611	Ship building & repairing	—	9	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	PITTSBURGH, PA MSA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg.....	1	155	68	12 968	525 178	6 463	12 126	174 119	983 969	1 120 599	2 141 911	97 324
3341	Computer & peripheral equipment mfg.....	8	17	5	e	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg.....	8	17	5	e	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg.....	9	12	3	e	D	D	D	D	D	D	D	D
3342	Communications equipment mfg.....	—	11	6	2 431	143 496	727	1 451	22 523	136 112	175 513	343 604	D
33421	Telephone apparatus mfg.....	—	3	3	g	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg.....	—	3	3	g	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg.....	—	4	1	e	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg.....	—	4	1	e	D	D	D	D	D	D	D	D
33429	Other communications equipment mfg.....	—	4	2	f	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg.....	—	4	2	f	D	D	D	D	D	D	D	D
3343	Audio & video equipment mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	2	44	19	2 056	51 480	1 438	2 495	26 820	61 047	157 797	219 293	8 810
33441	Semiconductor & other electronic component mfg.....	2	44	19	2 056	51 480	1 438	2 495	26 820	61 047	157 797	219 293	8 810
334412	Bare printed circuit board mfg.....	3	7	4	376	9 849	245	410	4 425	16 273	9 612	24 549	935
334413	Semiconductor & related device mfg...	—	7	3	639	18 836	454	848	9 666	S	S	108 607	4 466
334418	Printed circuit assembly (electronic assembly) mfg.....	1	7	4	307	5 654	270	374	3 131	11 115	11 044	21 987	967
334419	Other electronic component mfg.....	8	15	4	548	13 354	343	689	7 498	31 937	15 312	50 346	2 076
3345	Navigational, measuring, medical, & control instruments mfg.....	1	72	35	5 728	241 051	2 523	4 883	72 985	584 579	346 426	935 738	27 128
33451	Navigational, measuring, medical, & control instruments mfg.....	1	72	35	5 728	241 051	2 523	4 883	72 985	584 579	346 426	935 738	27 128
334510	Electromedical & electrotherapeutic apparatus mfg.....	—	6	4	f	D	D	D	D	D	D	D	8 563
334511	Search, detection, navigation, & guidance instrument mfg.....	—	3	2	e	D	D	D	D	D	D	D	D
334512	Automatic environmental control mfg.....	—	3	1	e	D	D	D	D	D	D	D	D
334513	Industrial process control instrument mfg.....	—	20	7	1 381	72 060	392	765	15 276	203 330	97 305	301 100	5 928
334514	Totalizing fluid meter & counting device mfg..	—	2	1	f	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument mfg.....	1	14	7	1 313	47 416	579	1 139	16 394	107 631	75 547	185 001	4 133
334519	Other measuring & controlling device mfg.....	3	11	7	518	17 771	252	486	5 300	42 507	33 412	74 973	879
3346	Mfg & reproducing magnetic & optical media..	7	10	2	f	D	D	D	D	D	D	D	6 468
33461	Mfg & reproducing magnetic & optical media.....	7	10	2	f	D	D	D	D	D	D	D	6 468
334612	Prerecorded CD (except software), tape, & record reproducing.....	6	5	2	e	D	D	D	D	D	D	D	D

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	PITTSBURGH, PA MSA—Con.												
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	1	80	40	4 788	162 119	2 885	5 758	77 591	381 423	378 806	766 378	18 025
3351	Electric lighting equipment mfg	1	16	7	439	8 807	312	618	5 735	13 356	15 630	29 524	314
33512	Lighting fixture mfg	1	15	7	e	D	D	D	D	D	D	D	314
335121	Residential electric lighting fixture mfg ...	1	8	5	319	6 826	223	453	4 393	9 591	12 540	22 656	249
3353	Electrical equipment mfg ..	—	42	21	2 947	105 659	1 838	3 677	51 495	273 521	271 130	552 294	8 402
33531	Electrical equipment mfg	—	42	21	2 947	105 659	1 838	3 677	51 495	273 521	271 130	552 294	8 402
335312	Motor & generator mfg	—	11	6	f	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg	—	6	4	967	30 565	672	1 246	17 696	127 870	110 992	241 895	3 051
335314	Relay & industrial control mfg	—	23	10	1 059	43 500	393	798	9 921	81 918	119 259	206 054	2 778
3359	Other electrical equipment & component mfg	5	22	12	1 402	47 653	735	1 463	20 361	94 546	92 046	184 560	9 309
33592	Communication & energy wire & cable mfg	8	3	3	f	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg ...	8	3	3	f	D	D	D	D	D	D	D	D
33593	Wiring device mfg	—	6	4	434	11 721	284	498	7 518	30 952	20 944	51 722	D
335931	Current-carrying wiring device mfg	—	5	3	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	49	17	3 705	165 147	2 055	4 174	80 629	411 434	303 275	557 801	23 662
3363	Motor vehicle parts mfg ...	—	17	7	1 298	67 658	1 092	2 389	55 302	78 790	84 136	146 470	14 524
33637	Motor vehicle metal stamping	—	1	1	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	—	1	1	f	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	—	6	5	2 024	87 561	659	1 232	18 603	313 951	196 796	369 921	8 225
33651	Railroad rolling stock mfg	—	6	5	2 024	87 561	659	1 232	18 603	313 951	196 796	369 921	8 225
336510	Railroad rolling stock mfg	—	6	5	2 024	87 561	659	1 232	18 603	313 951	196 796	369 921	8 225
337	Furniture & related product mfg	2	143	16	1 691	39 547	1 286	2 260	25 665	68 018	69 964	136 826	3 435
3371	Household & institutional furniture & kitchen cabinet mfg	4	111	8	734	15 122	571	1 002	10 637	25 302	23 856	49 160	1 447
33711	Wood kitchen cabinet & counter top mfg	4	69	7	541	11 381	421	759	8 090	18 680	18 380	37 067	807
337110	Wood kitchen cabinet & counter top mfg ...	4	69	7	541	11 381	421	759	8 090	18 680	18 380	37 067	807
3372	Office furniture (including fixtures) mfg	—	21	5	727	19 992	540	994	12 309	25 960	34 557	59 988	1 809
33721	Office furniture (including fixtures) mfg	—	21	5	727	19 992	540	994	12 309	25 960	34 557	59 988	1 809
337214	Office furniture (except wood) mfg	1	4	2	409	11 615	301	554	7 020	11 837	24 079	35 470	D
339	Miscellaneous mfg	1	201	30	4 399	136 777	2 587	4 831	63 746	335 829	234 542	570 887	17 699
3391	Medical equipment & supplies mfg	1	84	13	1 986	66 113	1 078	2 019	25 276	171 212	102 654	273 404	10 486
33911	Medical equipment & supplies mfg	1	84	13	1 986	66 113	1 078	2 019	25 276	171 212	102 654	273 404	10 486
339112	Surgical & medical instrument mfg	1	12	4	363	8 876	277	486	5 361	20 253	6 448	26 978	941
339113	Surgical appliance & supplies mfg	—	17	6	1 313	50 879	588	1 242	16 407	135 589	89 389	224 116	8 742
3399	Other miscellaneous mfg ...	1	117	17	2 413	70 664	1 509	2 812	38 470	164 617	131 888	297 483	7 213
33994	Office supplies (except paper) mfg	1	16	3	378	11 087	206	470	6 666	45 632	30 701	77 558	1 660
33995	Sign mfg	1	46	9	1 344	42 745	925	1 712	22 772	84 628	65 455	150 181	3 292
339950	Sign mfg	1	46	9	1 344	42 745	925	1 712	22 772	84 628	65 455	150 181	3 292
33999	All other miscellaneous mfg	1	25	4	480	12 540	231	408	6 644	24 475	22 749	47 239	1 612
339999	All other miscellaneous mfg	—	15	2	365	9 139	165	283	5 189	19 125	16 434	35 545	1 278

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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	READING, PA MSA— Con.												
31-33	Manufacturing— Con.												
323	Printing & related support activities.....	-	53	12	1 418	44 720	980	1 977	25 697	98 134	79 192	177 850	9 665
3231	Printing & related support activities.....	-	53	12	1 418	44 720	980	1 977	25 697	98 134	79 192	177 850	9 665
32311	Printing	-	49	12	1 400	44 294	968	1 959	25 394	97 376	79 031	176 931	9 623
323110	Commercial lithographic printing ..	-	30	11	1 147	36 729	775	1 460	20 297	72 231	42 450	114 543	7 392
325	Chemical mfg	-	29	11	1 443	59 691	764	1 439	25 308	219 048	230 163	446 843	14 222
3251	Basic chemical mfg	-	5	2	348	14 949	176	344	5 936	43 647	29 982	74 041	6 828
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
3255	Paint, coating, & adhesive mfg	-	4	3	600	26 412	342	585	11 644	105 597	107 587	211 495	4 677
32551	Paint & coating mfg	-	3	2	f	D	D	D	D	D	D	D	D
325510	Paint & coating mfg	-	3	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	28	12	1 715	57 789	1 206	2 553	30 306	107 604	102 922	210 432	19 932
3261	Plastics product mfg	-	25	12	1 710	57 672	1 202	2 545	30 219	107 354	102 697	209 956	19 912
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	-	5	2	e	D	D	D	D	D	D	D	D
326121	Unsupported plastics profile shape mfg	-	4	2	e	D	D	D	D	D	D	D	D
32614	Polystyrene foam product mfg	-	1	1	e	D	D	D	D	D	D	D	D
326140	Polystyrene foam product mfg	-	1	1	e	D	D	D	D	D	D	D	D
32616	Plastics bottle mfg	-	2	1	e	D	D	D	D	D	D	D	D
326160	Plastics bottle mfg	-	2	1	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	17	8	727	19 986	513	1 033	10 981	38 662	39 790	77 970	3 370
326199	All other plastics product mfg	-	16	8	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	25	11	1 076	39 963	791	1 760	27 583	107 958	94 664	201 062	18 564
3271	Clay product & refractory mfg	-	4	2	e	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg	-	3	2	e	D	D	D	D	D	D	D	D
327125	Nonclay refractory mfg	-	1	1	e	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	-	16	6	586	21 751	408	997	13 730	68 490	62 842	127 945	14 861
32739	Other concrete product mfg	1	6	4	293	9 679	237	584	6 818	30 344	18 407	45 362	7 878
327390	Other concrete product mfg	1	6	4	293	9 679	237	584	6 818	30 344	18 407	45 362	7 878
331	Primary metal mfg	-	33	27	6 238	303 284	4 700	10 088	198 951	588 011	1 196 551	1 787 563	89 358
3311	Iron & steel mills & ferroalloy mfg	-	1	1	h	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	1	1	h	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	1	1	h	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	-	1	1	e	D	D	D	D	D	D	D	D
33121	Iron & steel pipes & tubes mfg from purchased steel	-	1	1	e	D	D	D	D	D	D	D	D
331210	Iron & steel pipes & tubes mfg from purchased steel	-	1	1	e	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	-	12	11	1 239	46 941	915	2 122	32 734	186 744	556 776	744 621	12 069
33142	Copper rolling, drawing, extruding, & alloying ...	-	7	7	879	32 777	631	1 462	23 797	114 241	471 009	588 491	5 171
331421	Copper rolling, drawing, & extruding .	-	6	6	f	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying ...	1	5	4	360	14 164	284	660	8 937	72 503	85 767	156 130	6 898
331492	Other nonferrous metal secondary smelting, refining, & alloying ...	-	2	2	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	READING, PA MSA—Con.												
31-33	Manufacturing—Con.												
331	Primary metal mfg—Con.												
3315	Foundries	—	19	14	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .	—	10	9	1 478	39 369	1 266	2 444	28 726	75 922	43 421	118 743	D
331511	Iron foundries	—	3	3	e	D	D	D	D	D	D	D	D
331512	Steel investment foundries	—	3	3	464	13 496	395	780	9 151	27 317	8 728	35 914	D
331513	Steel foundries (except investment)	—	4	3	f	D	D	D	D	D	D	D	1 581
33152	Nonferrous metal foundries	—	9	5	e	D	D	D	D	D	D	D	D
331524	Aluminum foundries (except die-casting) ..	—	4	3	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	109	36	3 705	113 045	2 899	5 428	73 076	280 990	256 414	529 463	20 205
3323	Architectural & structural metals mfg	—	22	13	824	27 788	666	1 205	17 864	56 890	75 428	132 882	2 378
33231	Plate work & fabricated structural product mfg ..	—	11	9	413	14 584	334	607	8 966	32 559	57 362	89 769	1 742
33232	Ornamental & architectural metal products mfg	—	11	4	411	13 204	332	598	8 898	24 331	18 066	43 113	636
332322	Sheet metal work mfg .	—	7	4	399	12 847	323	580	8 685	23 585	17 184	41 481	600
3325	Hardware mfg	—	1	1	f	D	D	D	D	D	D	D	D
33251	Hardware mfg	—	1	1	f	D	D	D	D	D	D	D	D
332510	Hardware mfg	—	1	1	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	37	10	1 043	28 826	804	1 242	18 496	68 898	50 553	115 190	4 682
33271	Machine shops	1	33	8	f	D	D	D	D	D	D	D	D
332710	Machine shops	1	33	8	f	D	D	D	D	D	D	D	D
33272	Turned product & screw, nut, & bolt mfg	—	4	2	f	D	D	D	D	D	D	D	D
332722	Bolt, nut, screw, rivet, & washer mfg	—	2	2	e	D	D	D	D	D	D	D	D
3328	Coating, engraving, heat treating, & allied activities.	—	10	4	342	9 118	274	548	5 840	18 964	11 503	29 167	3 075
33281	Coating, engraving, heat treating, & allied activities	—	10	4	342	9 118	274	548	5 840	18 964	11 503	29 167	3 075
3329	Other fabricated metal product mfg	—	20	4	256	7 433	206	315	5 321	13 488	8 835	21 989	734
33299	All other fabricated metal product mfg	—	20	4	256	7 433	206	315	5 321	13 488	8 835	21 989	734
333	Machinery mfg	1	40	18	1 384	48 167	899	1 730	26 135	135 215	119 927	257 729	3 548
3332	Industrial machinery mfg ..	—	13	7	597	23 579	395	818	12 957	84 578	81 582	169 200	1 270
33329	Other industrial machinery mfg	—	13	7	597	23 579	395	818	12 957	84 578	81 582	169 200	1 270
333293	Printing machinery & equipment mfg	—	4	1	e	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	8	5	4	315	8 664	210	361	4 341	21 611	19 326	41 424	896
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	8	5	4	315	8 664	210	361	4 341	21 611	19 326	41 424	896
333414	Heating equipment (except warm air furnaces) mfg	9	3	2	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	—	17	7	2 882	128 226	2 036	4 086	55 720	491 288	121 664	614 744	D
3342	Communications equipment mfg	1	4	3	e	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	9	3	h	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	—	9	3	h	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	—	1	1	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SCRANTON-WILKES-BARRE-HAZLETON, PA MSA—Con.												
	Manufacturing—Con.												
326	Plastics & rubber products mfg	-	42	33	3 905	105 930	3 164	6 654	75 431	416 947	518 973	931 626	27 495
3261	Plastics product mfg	-	40	32	h	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg	-	11	10	1 816	55 441	1 446	3 128	39 924	204 495	289 537	494 996	11 717
326111	Unsupported plastics bag mfg	-	2	2	f	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	-	9	8	g	D	D	D	D	D	D	D	D
32615	Urethane & other foam product (except polystyrene) mfg	-	5	5	e	D	D	D	D	D	D	D	D
326150	Urethane & other foam product (except polystyrene) mfg	-	5	5	e	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	17	12	1 191	27 971	1 013	2 058	20 460	116 764	88 373	201 348	9 426
326199	All other plastics product mfg	-	17	12	1 191	27 971	1 013	2 058	20 460	116 764	88 373	201 348	9 426
327	Nonmetallic mineral product mfg	-	49	13	3 206	125 374	2 637	5 907	97 168	343 232	318 323	648 613	122 523
3272	Glass & glass product mfg	-	7	4	2 261	90 998	1 903	4 298	71 887	272 735	241 379	499 995	D
32721	Glass & glass product mfg	-	7	4	2 261	90 998	1 903	4 298	71 887	272 735	241 379	499 995	D
327212	Other pressed & blown glass & glassware mfg	-	2	2	g	D	D	D	D	D	D	D	D
3273	Cement & concrete product mfg	1	32	4	e	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product mfg	-	8	4	514	21 665	416	928	16 644	43 692	49 929	94 534	D
32799	All other nonmetallic mineral product mfg	-	6	2	e	D	D	D	D	D	D	D	D
327993	Mineral wool mfg	-	2	2	e	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	13	10	1 467	46 718	1 148	2 490	32 720	135 646	202 852	341 494	14 368
3312	Steel product mfg from purchased steel	-	4	4	e	D	D	D	D	D	D	D	D
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	-	1	1	e	D	D	D	D	D	D	D	D
3315	Foundries	-	6	4	602	16 729	539	1 099	12 998	32 170	22 727	54 412	D
33151	Ferrous metal foundries	-	2	2	e	D	D	D	D	D	D	D	D
331511	Iron foundries	-	2	2	e	D	D	D	D	D	D	D	D
33152	Nonferrous metal foundries	-	4	2	e	D	D	D	D	D	D	D	D
331522	Nonferrous (except aluminum) die-casting foundries	-	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	140	54	5 892	169 652	4 330	8 680	103 616	392 353	402 756	799 239	24 018
3321	Forging & stamping	-	8	7	793	26 959	643	1 361	17 087	72 470	81 724	155 261	6 531
33211	Forging & stamping	-	8	7	793	26 959	643	1 361	17 087	72 470	81 724	155 261	6 531
332116	Metal stamping	-	7	6	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	30	10	1 223	39 462	842	1 942	22 841	75 923	83 132	160 728	3 054
33232	Ornamental & architectural metal products mfg	-	20	6	1 016	34 082	691	1 625	19 877	61 383	62 671	125 456	2 690
332321	Metal window & door mfg	-	7	2	620	23 113	389	960	13 278	40 766	53 132	95 820	1 673
332323	Ornamental & architectural metal work mfg	-	5	2	254	6 877	194	402	3 966	12 558	5 772	18 037	D
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
3326	Spring & wire product mfg	-	13	9	1 646	37 452	1 219	2 394	24 462	110 199	97 495	207 794	3 661
33261	Spring & wire product mfg	-	13	9	1 646	37 452	1 219	2 394	24 462	110 199	97 495	207 794	3 661
332618	Other fabricated wire product mfg	-	11	7	g	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	56	13	f	D	D	D	D	D	D	D	D
33271	Machine shops	2	55	13	834	24 224	643	1 128	15 252	41 933	25 092	67 474	3 859
332710	Machine shops	2	55	13	834	24 224	643	1 128	15 252	41 933	25 092	67 474	3 859

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SCRANTON-WILKES-BARRE-HAZLETON, PA MSA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg—Con.												
3329	Other fabricated metal product mfg.....	-	18	7	714	21 605	440	837	10 996	59 406	23 681	84 591	4 560
33299	All other fabricated metal product mfg.....	-	16	6	f	D	D	D	D	D	D	D	D
332993	Ammunition (except small arms) mfg.....	-	2	2	e	D	D	D	D	D	D	D	D
333	Machinery mfg.....	1	51	23	2 323	71 832	1 604	3 153	43 027	173 832	159 138	329 798	11 127
3332	Industrial machinery mfg ..	1	15	4	438	13 949	289	482	8 325	25 360	20 802	47 062	1 874
33329	Other industrial machinery mfg.....	1	14	3	e	D	D	D	D	D	D	D	1 874
333298	All other industrial machinery mfg.....	-	8	2	304	10 498	203	327	6 541	18 147	15 537	34 729	1 744
3333	Commercial & service industry machinery mfg ..	-	4	3	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg.....	-	4	3	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
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg.....	-	7	3	347	8 000	296	596	5 287	11 656	13 299	24 902	407
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg ..	-	7	3	347	8 000	296	596	5 287	11 656	13 299	24 902	407
333414	Heating equipment (except warm air furnaces) mfg.....	-	4	2	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg.....	-	14	9	719	23 693	464	1 013	13 801	51 440	61 055	104 451	3 167
33399	All other general-purpose machinery mfg.....	2	9	5	266	7 328	199	386	4 755	19 228	9 018	24 918	927
334	Computer & electronic product mfg.....	1	22	10	4 673	176 724	3 636	9 111	126 748	433 786	412 522	847 071	66 513
3344	Semiconductor & other electronic component mfg.....	1	5	3	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	1	5	3	g	D	D	D	D	D	D	D	D
334411	Electron tube mfg	-	1	1	g	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg...	9	2	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	-	6	2	483	18 872	304	557	7 339	17 387	27 006	44 012	D
33451	Navigational, measuring, medical, & control instruments mfg.....	-	6	2	483	18 872	304	557	7 339	17 387	27 006	44 012	D
334519	Other measuring & controlling device mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media ..	-	3	2	g	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media.....	-	3	2	g	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing.....	-	2	2	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	1	17	7	1 038	29 454	849	1 878	21 001	65 753	75 277	141 574	2 813
3359	Other electrical equipment & component mfg.....	-	8	5	907	25 378	772	1 726	18 396	56 014	65 549	121 848	2 280
33591	Battery mfg.....	-	1	1	e	D	D	D	D	D	D	D	D
335911	Storage battery mfg...	-	1	1	e	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg.....	-	2	2	e	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg...	-	1	1	e	D	D	D	D	D	D	D	D
33593	Wiring device mfg.....	-	4	2	e	D	D	D	D	D	D	D	D
335932	Noncurrent-carrying wiring device mfg....	-	1	1	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SCRANTON-WILKES-BARRE-HAZLETON, PA MSA—Con.												
	Manufacturing—Con.												
336	Transportation equipment mfg	-	16	10	993	32 595	731	1 506	20 436	102 252	109 638	208 870	4 557
3364	Aerospace product & parts mfg	-	7	5	536	17 697	403	856	9 666	69 218	57 055	122 421	D
33641	Aerospace product & parts mfg	-	7	5	536	17 697	403	856	9 666	69 218	57 055	122 421	D
336412	Aircraft engine & engine parts mfg	-	2	2	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	6	35	6	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	2	26	2	281	6 665	226	405	4 794	12 445	8 391	20 853	D
3372	Office furniture (including fixtures) mfg	9	6	2	e	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	9	6	2	e	D	D	D	D	D	D	D	D
337214	Office furniture (except wood) mfg	9	1	1	e	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	63	20	2 636	62 548	1 734	3 612	32 598	133 364	144 983	278 876	9 557
3391	Medical equipment & supplies mfg	2	25	8	1 366	34 537	808	1 861	15 817	69 849	99 015	167 372	7 227
33911	Medical equipment & supplies mfg	2	25	8	1 366	34 537	808	1 861	15 817	69 849	99 015	167 372	7 227
339113	Surgical appliance & supplies mfg	-	9	6	1 092	27 468	603	1 364	10 948	51 280	92 739	143 018	5 037
3399	Other miscellaneous mfg ..	1	38	12	1 270	28 011	926	1 751	16 781	63 515	45 968	111 504	2 330
33992	Sporting & athletic goods mfg	1	5	3	394	8 271	300	500	5 266	21 549	18 245	42 184	D
339920	Sporting & athletic goods mfg	1	5	3	394	8 271	300	500	5 266	21 549	18 245	42 184	D
33999	All other miscellaneous mfg	1	16	5	472	10 414	386	778	7 410	21 593	14 956	36 834	456
339995	Burial casket mfg	-	4	2	338	7 332	267	534	5 387	15 715	12 770	28 711	344
	SHARON, PA MSA												
31-33	Manufacturing	1	198	77	10 457	326 802	7 788	15 622	220 942	990 406	1 474 465	2 440 846	75 673
311	Food mfg	7	19	8	833	20 216	553	848	9 679	63 700	148 452	212 156	5 435
3118	Bakeries & tortilla mfg	1	9	4	412	7 935	319	402	4 338	20 688	9 009	29 769	1 912
31182	Cookie, cracker, & pasta mfg	-	2	2	e	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg ..	-	2	2	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	12	7	531	11 728	414	781	7 893	29 936	29 826	59 393	3 075
3261	Plastics product mfg	-	12	7	531	11 728	414	781	7 893	29 936	29 826	59 393	3 075
32619	Other plastics product mfg	-	10	6	e	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	10	6	e	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	12	10	2 428	95 253	1 980	4 154	70 569	430 968	610 543	1 018 474	13 978
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
3312	Steel product mfg from purchased steel	-	7	6	g	D	D	D	D	D	D	D	D
33121	Iron & steel pipes & tubes mfg from purchased steel	-	6	6	1 693	67 373	1 421	3 029	52 610	332 138	469 153	784 336	6 368
331210	Iron & steel pipes & tubes mfg from purchased steel	-	6	6	1 693	67 373	1 421	3 029	52 610	332 138	469 153	784 336	6 368
3315	Foundries	-	2	2	e	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries ..	-	2	2	e	D	D	D	D	D	D	D	D
331511	Iron foundries	-	2	2	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	SHARON, PA MSA— Con. Manufacturing— Con.												
332	Fabricated metal product mfg	-	45	21	2 675	72 661	1 841	3 801	53 787	174 224	267 511	440 546	31 297
3321	Forging & stamping	-	5	4	355	11 575	260	546	8 063	34 767	49 936	86 600	2 383
33211	Forging & stamping	-	5	4	355	11 575	260	546	8 063	34 767	49 936	86 600	2 383
3323	Architectural & structural metals mfg	-	9	4	260	7 083	171	334	3 685	19 930	30 216	49 704	1 738
3324	Boiler, tank, & shipping container mfg	-	5	4	373	14 576	320	667	11 466	37 206	38 491	73 634	2 101
3329	Other fabricated metal product mfg	-	7	2	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	7	2	g	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg	-	3	2	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	12	4	1 051	36 822	832	1 680	26 466	121 676	79 215	203 579	4 641
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	2	1	e	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	2	1	e	D	D	D	D	D	D	D	D
333414	Heating equipment (except warm air furnaces) mfg	-	1	1	e	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	4	3	f	D	D	D	D	D	D	D	D
33391	Pump & compressor mfg	-	1	1	e	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg	-	1	1	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	4	11	6	528	17 718	299	593	6 934	35 413	31 121	65 511	5 661
3344	Semiconductor & other electronic component mfg	6	7	4	336	9 852	233	449	4 960	25 625	18 025	42 968	D
33441	Semiconductor & other electronic component mfg	6	7	4	336	9 852	233	449	4 960	25 625	18 025	42 968	D
336	Transportation equipment mfg	-	11	7	1 247	42 909	1 104	2 363	29 713	72 751	234 656	305 362	6 998
3365	Railroad rolling stock mfg	-	2	2	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	-	2	2	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	-	2	2	f	D	D	D	D	D	D	D	D
31-33	STATE COLLEGE, PA MSA Manufacturing	-	159	58	8 546	255 406	5 941	11 755	148 714	790 071	625 316	1 409 254	127 102
315	Apparel mfg	9	5	4	425	5 987	380	628	5 043	15 464	7 195	22 998	687
3152	Cut & sew apparel mfg	9	5	4	425	5 987	380	628	5 043	15 464	7 195	22 998	687
31522	Men's & boys' cut & sew apparel mfg	9	3	2	e	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	15	4	565	14 509	470	853	11 117	43 600	11 846	55 312	1 703
3231	Printing & related support activities	-	15	4	565	14 509	470	853	11 117	43 600	11 846	55 312	1 703
32311	Printing	-	15	4	565	14 509	470	853	11 117	43 600	11 846	55 312	1 703
323117	Book printing	-	2	2	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	4	3	426	9 949	381	791	7 852	33 178	34 259	68 237	2 138
3261	Plastics product mfg	-	3	3	e	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	14	8	1 655	58 693	1 287	2 805	38 510	270 975	128 810	398 440	D
3272	Glass & glass product mfg	-	2	1	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	2	1	g	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	-	1	1	g	D	D	D	D	D	D	D	D
3274	Lime & gypsum product mfg	-	5	4	337	12 353	255	607	9 213	33 309	34 186	69 194	D
32741	Lime mfg	-	4	3	e	D	D	D	D	D	D	D	D
327410	Lime mfg	-	4	3	e	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	STATE COLLEGE, PA MSA—Con.												
	Manufacturing—Con.												
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
331421	Copper rolling, drawing, & extruding	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	21	2		8 187	209	365	4 679	24 640	3 574	28 254	782
333	Machinery mfg	—	8	4		472	15 279	266	553	8 793	37 273	31 794	69 244
334	Computer & electronic product mfg	—	31	18		2 965	90 228	1 716	3 413	40 537	233 900	203 229	432 601
3342	Communications equipment mfg	—	6	3	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	—	5	3	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	—	5	3	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	—	12	8		1 587	44 330	1 046	2 150	24 487	138 343	137 524	271 467
33441	Semiconductor & other electronic component mfg	—	12	8		1 587	44 330	1 046	2 150	24 487	138 343	137 524	271 467
334414	Electronic capacitor mfg	—	2	1	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	—	12	7		674	24 072	343	707	9 595	59 513	38 476	96 840
33451	Navigational, measuring, medical, & control instruments mfg	—	12	7		674	24 072	343	707	9 595	59 513	38 476	96 840
334516	Analytical laboratory instrument mfg	—	7	5		520	19 699	251	537	7 073	46 594	29 989	75 689
339	Miscellaneous mfg	1	14	4		277	7 411	216	407	5 048	11 043	14 326	25 317
3391	Medical equipment & supplies mfg	1	10	4		271	7 279	210	398	4 964	10 755	14 127	24 823
33911	Medical equipment & supplies mfg	1	10	4		271	7 279	210	398	4 964	10 755	14 127	24 823
31-33	WILLIAMSPORT, PA MSA												
	Manufacturing	—	208	95		12 982	370 226	9 691	18 771	229 917	1 189 394	1 262 012	2 460 365
311	Food mfg	—	12	8		1 021	34 711	834	1 825	24 417	243 643	186 243	462 982
3118	Bakeries & tortilla mfg	—	5	2	e	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	—	1	1	e	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg	—	1	1	e	D	D	D	D	D	D	D	D
3119	Other food mfg	—	3	3	e	D	D	D	D	D	D	D	D
313	Textile mills	—	2	2	f	D	D	D	D	D	D	D	D
3132	Fabric mills	—	2	2	f	D	D	D	D	D	D	D	D
31322	Narrow fabric mills & schiffli machine embroidery	—	1	1	e	D	D	D	D	D	D	D	D
313221	Narrow fabric mills	—	1	1	e	D	D	D	D	D	D	D	D
315	Apparel mfg	—	11	6		1 069	16 731	979	1 904	12 946	41 665	83 474	125 408
3152	Cut & sew apparel mfg	—	10	6	g	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	—	2	2	e	D	D	D	D	D	D	D	D
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	—	1	1	e	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	—	3	2	f	D	D	D	D	D	D	D	212
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	—	2	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg	2	26	10		1 019	24 856	827	1 473	17 037	58 383	75 751	133 714
3219	Other wood product mfg	—	11	4		583	13 455	461	765	8 950	30 095	37 714	67 539
32199	All other wood product mfg	—	5	1	e	D	D	D	D	D	D	D	410
321992	Prefabricated wood building mfg	—	2	1	e	D	D	D	D	D	D	D	D

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31-33	WILLIAMSPORT, PA MSA—Con.												
	Manufacturing—Con.												
322	Paper mfg	-	8	7	367	9 731	272	501	6 477	26 637	38 737	65 726	1 986
3222	Converted paper product mfg	-	8	7	367	9 731	272	501	6 477	26 637	38 737	65 726	1 986
32221	Paperboard container mfg	-	7	6	e	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	2	17	6	457	12 990	318	570	7 508	25 957	22 108	47 996	1 297
3231	Printing & related support activities.....	2	17	6	457	12 990	318	570	7 508	25 957	22 108	47 996	1 297
32311	Printing	2	16	6	e	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	17	11	1 024	25 347	755	1 487	15 709	127 333	100 835	225 760	11 356
3261	Plastics product mfg	-	13	9	845	21 155	606	1 184	12 666	100 480	93 916	192 712	D
32619	Other plastics product mfg	-	8	5	653	16 835	453	882	9 698	64 308	41 178	105 703	5 872
326199	All other plastics product mfg	-	8	5	653	16 835	453	882	9 698	64 308	41 178	105 703	5 872
331	Primary metal mfg	-	4	4	768	27 495	584	1 305	19 310	79 438	201 535	286 090	3 842
3312	Steel product mfg from purchased steel	-	1	1	e	D	D	D	D	D	D	D	D
33122	Rolling & drawing of purchased steel	-	1	1	e	D	D	D	D	D	D	D	D
331222	Steel wire drawing	-	1	1	e	D	D	D	D	D	D	D	D
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
331319	Other aluminum rolling & drawing	-	1	1	e	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	38	14	1 320	46 349	849	1 393	20 865	78 250	76 535	150 925	4 067
3323	Architectural & structural metals mfg	-	9	5	311	9 739	260	439	5 868	22 932	16 059	34 456	1 042
3324	Boiler, tank, & shipping container mfg	-	3	2	e	D	D	D	D	D	D	D	176
33241	Power boiler & heat exchanger mfg	-	1	1	e	D	D	D	D	D	D	D	D
332410	Power boiler & heat exchanger mfg	-	1	1	e	D	D	D	D	D	D	D	D
333	Machinery mfg	-	13	3	777	28 286	311	631	8 839	66 500	44 671	99 225	4 521
3332	Industrial machinery mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333291	Paper industry machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	8	4	861	25 918	646	1 227	18 640	66 253	59 314	124 457	2 356
3344	Semiconductor & other electronic component mfg	-	2	2	e	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	2	2	e	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	4	2	e	D	D	D	D	D	D	D	474
33451	Navigational, measuring, medical, & control instruments mfg	-	4	2	e	D	D	D	D	D	D	D	474
335	Electrical equipment, appliance, & component mfg	-	3	2	f	D	D	D	D	D	D	D	D
3352	Household appliance mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg	-	1	1	f	D	D	D	D	D	D	D	D
335212	Household vacuum cleaner mfg	-	1	1	f	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
33592	Communication & energy wire & cable mfg	-	1	1	e	D	D	D	D	D	D	D	D
335929	Other communication & energy wire 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 ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 em- ploy- ees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	WILLIAMSPORT, PA MSA—Con.												
31-33	Manufacturing—Con.												
336	Transportation equipment mfg	-	5	3	698	33 778	516	1 002	21 659	55 073	126 196	175 764	3 699
3362	Motor vehicle body & trailer mfg	-	4	2	e	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	-	4	2	e	D	D	D	D	D	D	D	D
336211	Motor vehicle body mfg	-	2	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
336412	Aircraft engine & engine parts mfg	-	1	1	e	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	14	7	1 487	33 371	1 141	2 227	24 620	105 766	82 654	185 672	4 192
3371	Household & institutional furniture & kitchen cabinet mfg	-	9	4	561	11 703	387	586	5 055	22 160	29 215	52 094	D
33712	Household & institutional furniture mfg	-	7	4	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	-	3	2	e	D	D	D	D	D	D	D	D
33721	Office furniture (including fixtures) mfg	-	3	2	e	D	D	D	D	D	D	D	D
3379	Other furniture related product mfg	-	2	1	f	D	D	D	D	D	D	D	D
33792	Blind & shade mfg	-	2	1	f	D	D	D	D	D	D	D	D
337920	Blind & shade mfg	-	2	1	f	D	D	D	D	D	D	D	D
	YORK, PA MSA												
31-33	Manufacturing	-	661	314	45 754	1 557 477	33 469	66 061	975 549	4 627 847	3 542 690	8 156 938	300 081
311	Food mfg	-	45	21	4 384	129 266	2 763	6 062	61 923	439 678	359 278	780 693	21 534
3113	Sugar & confectionery product mfg	-	9	3	255	5 366	156	260	2 707	11 051	11 450	22 910	639
3118	Bakeries & tortilla mfg	2	12	4	1 213	29 230	984	2 191	19 006	70 807	78 519	147 260	D
31181	Bread & bakery product mfg	4	10	3	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	3	2	e	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	-	2	1	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg ..	-	2	1	f	D	D	D	D	D	D	D	D
3119	Other food mfg	-	14	12	h	D	D	D	D	D	D	D	D
31191	Snack food mfg	-	12	11	2 542	83 745	1 357	2 969	32 929	302 773	164 190	466 892	12 499
311919	Other snack food mfg ..	-	12	11	2 542	83 745	1 357	2 969	32 929	302 773	164 190	466 892	12 499
313	Textile mills	3	8	4	420	10 655	332	666	6 972	23 763	30 750	53 616	1 894
3132	Fabric mills	5	5	3	e	D	D	D	D	D	D	D	D
31321	Broadwoven fabric mills ..	5	3	2	e	D	D	D	D	D	D	D	1 724
313210	Broadwoven fabric mills	5	3	2	e	D	D	D	D	D	D	D	1 724
314	Textile product mills	-	9	2	e	D	D	D	D	D	D	D	D
3141	Textile furnishings mills	-	3	1	e	D	D	D	D	D	D	D	D
31412	Curtain & linen mills	-	3	1	e	D	D	D	D	D	D	D	D
314129	Other household textile product mills	-	2	1	e	D	D	D	D	D	D	D	D
315	Apparel mfg	-	22	13	1 740	31 464	1 224	2 482	20 196	65 154	50 097	116 641	686
3152	Cut & sew apparel mfg	-	19	12	1 699	30 848	1 199	2 424	19 722	64 381	49 468	115 190	652
31521	Cut & sew apparel contractors	1	11	7	365	5 729	296	600	3 902	6 168	9 691	16 018	D
315212	Women's, girls', & infants' cut & sew apparel contractors ..	1	11	7	365	5 729	296	600	3 902	6 168	9 691	16 018	D
31523	Women's & girls' cut & sew apparel mfg	-	6	4	g	D	D	D	D	D	D	D	342
315239	Women's & girls' cut & sew other outerwear mfg	-	6	4	g	D	D	D	D	D	D	D	342
321	Wood product mfg	2	28	7	567	12 685	481	958	9 734	19 835	27 345	47 502	2 125
3219	Other wood product mfg ...	2	19	5	330	6 243	275	514	4 490	11 743	14 642	26 411	683

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
YORK, PA MSA—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg	-	133	55	5 217	168 969	4 026	7 665	110 937	428 995	360 690	787 794	18 466
3321	Forging & stamping	-	8	6	602	20 257	462	997	12 173	46 957	43 185	89 340	3 506
33211	Forging & stamping	-	8	6	602	20 257	462	997	12 173	46 957	43 185	89 340	3 506
332116	Metal stamping	-	5	5	f	D	D	D	D	D	D	D	D
3322	Cutlery & handtool mfg	-	9	5	405	12 030	322	738	7 986	19 607	11 475	30 961	469
33221	Cutlery & handtool mfg	-	9	5	405	12 030	322	738	7 986	19 607	11 475	30 961	469
332212	Hand & edge tool mfg	-	7	4	e	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	21	13	1 614	54 047	1 227	2 090	34 084	121 036	105 885	225 283	4 162
33231	Plate work & fabricated structural product mfg	-	9	5	817	29 218	586	840	18 158	63 461	65 933	131 036	2 790
332312	Fabricated structural metal mfg	-	5	3	e	D	D	D	D	D	D	D	D
332313	Plate work mfg	-	3	2	e	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	-	12	8	797	24 829	641	1 250	15 926	57 575	39 952	94 247	1 372
332321	Metal window & door mfg	-	2	2	e	D	D	D	D	D	D	D	D
332322	Sheet metal work mfg	-	8	6	f	D	D	D	D	D	D	D	497
3324	Boiler, tank, & shipping container mfg	-	7	3	323	10 385	221	459	6 699	26 403	75 629	101 815	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	60	14	847	25 399	670	1 178	17 780	56 462	21 497	78 071	4 303
33271	Machine shops	-	53	11	743	22 585	585	1 006	15 835	49 315	19 753	69 236	2 669
332710	Machine shops	-	53	11	743	22 585	585	1 006	15 835	49 315	19 753	69 236	2 669
3328	Coating, engraving, heat treating, & allied activities	1	11	8	e	D	D	D	D	D	D	D	388
33281	Coating, engraving, heat treating, & allied activities	1	11	8	e	D	D	D	D	D	D	D	388
3329	Other fabricated metal product mfg	-	16	5	985	35 686	783	1 566	25 266	133 698	89 402	223 859	4 728
33299	All other fabricated metal product mfg	-	15	5	f	D	D	D	D	D	D	D	D
332991	Ball & roller bearing mfg	-	1	1	e	D	D	D	D	D	D	D	D
332993	Ammunition (except small arms) mfg	-	1	1	e	D	D	D	D	D	D	D	D
333	Machinery mfg	-	83	42	6 121	274 681	4 151	8 742	147 538	1 009 435	598 326	1 610 848	51 941
3331	Agriculture, construction, & mining machinery mfg	-	2	2	g	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
33313	Mining & oil & gas field machinery mfg	-	1	1	e	D	D	D	D	D	D	D	D
333131	Mining machinery & equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg	-	13	9	771	31 315	473	826	14 073	65 232	69 544	136 106	D
33322	Plastics & rubber industry machinery mfg	-	2	2	e	D	D	D	D	D	D	D	D
333220	Plastics & rubber industry machinery mfg	-	2	2	e	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	11	7	e	D	D	D	D	D	D	D	975
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	10	7	g	D	D	D	D	D	D	D	15 935
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	10	7	g	D	D	D	D	D	D	D	15 935
333415	AC & warm air heating & commercial industrial refig equip mfg	-	8	7	g	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	2	32	10	575	20 608	391	794	11 915	35 543	18 092	54 032	2 450
33351	Metalworking machinery mfg	2	32	10	575	20 608	391	794	11 915	35 543	18 092	54 032	2 450
3336	Engine, turbine, & power transmission equipment mfg	-	4	4	f	D	D	D	D	D	D	D	5 598
33361	Engine, turbine, & power transmission equipment mfg	-	4	4	f	D	D	D	D	D	D	D	5 598
333611	Turbine & turbine generator set unit mfg	-	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 ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	YORK, PA MSA—Con.												
	Manufacturing—Con.												
333	Machinery mfg—Con.												
3339	Other general-purpose machinery mfg	-	19	10	1 098	42 288	716	1 565	26 959	77 360	120 984	201 950	D
33392	Material handling equipment mfg	2	9	4	346	12 348	241	616	8 535	29 397	25 520	56 696	D
333923	Overhead traveling crane, hoist, & monorail system mfg .	3	3	3	279	10 103	190	517	7 407	24 761	21 370	47 926	407
33399	All other general-purpose machinery mfg	-	10	6	752	29 940	475	949	18 424	47 963	95 464	145 254	2 940
333992	Welding & soldering equipment mfg	-	1	1	e	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	27	17	2 303	76 049	1 899	3 485	56 243	342 797	203 989	541 547	17 052
3344	Semiconductor & other electronic component mfg	-	17	11	1 839	60 826	1 631	2 988	49 945	307 832	178 885	481 107	16 098
33441	Semiconductor & other electronic component mfg	-	17	11	1 839	60 826	1 631	2 988	49 945	307 832	178 885	481 107	16 098
334417	Electronic connector mfg	-	9	8	1 646	56 975	1 476	2 782	47 787	298 269	170 843	463 449	15 653
3345	Navigational, measuring, medical, & control instruments mfg	-	5	2	287	10 092	171	310	4 239	24 871	16 243	41 138	D
33451	Navigational, measuring, medical, & control instruments mfg	-	5	2	287	10 092	171	310	4 239	24 871	16 243	41 138	D
335	Electrical equipment, appliance, & component mfg	-	21	16	1 691	59 555	1 133	2 367	35 525	218 975	220 750	436 113	11 352
3351	Electric lighting equipment mfg	-	3	2	e	D	D	D	D	D	D	D	D
33511	Electric lamp bulb & part mfg	-	1	1	e	D	D	D	D	D	D	D	D
335110	Electric lamp bulb & part mfg	-	1	1	e	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	12	10	771	24 249	479	906	11 714	74 012	72 150	147 748	D
33531	Electrical equipment mfg	-	12	10	771	24 249	479	906	11 714	74 012	72 150	147 748	D
335314	Relay & industrial control mfg	-	8	7	647	20 813	395	753	10 011	61 744	64 891	127 495	901
3359	Other electrical equipment & component mfg	-	6	4	e	D	D	D	D	D	D	D	7 199
33593	Wiring device mfg	-	4	2	e	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg	-	4	2	e	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	19	12	5 254	216 800	3 806	5 814	146 481	584 677	518 994	1 123 489	29 863
3363	Motor vehicle parts mfg ...	1	11	7	g	D	D	D	D	D	D	D	D
33633	Motor vehicle steering & suspension component (except spring) mfg	-	1	1	f	D	D	D	D	D	D	D	D
336330	Motor vehicle steering & suspension component (except spring) mfg	-	1	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	6	3	292	9 509	173	350	3 823	24 963	33 705	59 253	625
3369	Other transportation equipment mfg	-	2	2	h	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	-	2	2	h	D	D	D	D	D	D	D	D
336991	Motorcycle, bicycle, & parts mfg	-	1	1	h	D	D	D	D	D	D	D	D
336992	Military armored vehicle, tank, & tank component mfg	-	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	42	16	1 414	36 202	1 151	2 184	24 198	81 910	72 170	153 475	2 924
3371	Household & institutional furniture & kitchen cabinet mfg	2	31	13	1 107	26 814	920	1 732	19 216	57 212	49 970	106 670	1 734
33711	Wood kitchen cabinet & counter top mfg	1	14	5	437	11 058	370	709	8 358	23 842	14 385	38 233	534
337110	Wood kitchen cabinet & counter top mfg ...	1	14	5	437	11 058	370	709	8 358	23 842	14 385	38 233	534
33712	Household & institutional furniture mfg	3	17	8	670	15 756	550	1 023	10 858	33 370	35 585	68 437	1 200
337122	Nonupholstered wood household furniture mfg	3	11	5	318	7 120	267	471	4 560	15 422	12 252	26 814	557

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	YORK, PA MSA—Con.												
	Manufacturing—Con.												
337	Furniture & related product mfg—Con.												
3372	Office furniture (including fixtures) mfg	-	11	3	307	9 388	231	452	4 982	24 698	22 200	46 805	1 190
33721	Office furniture (including fixtures) mfg	-	11	3	307	9 388	231	452	4 982	24 698	22 200	46 805	1 190
339	Miscellaneous mfg	-	34	12	1 768	56 691	1 205	2 637	32 778	162 812	82 169	241 225	8 452
3391	Medical equipment & supplies mfg	-	20	7	1 047	34 009	667	1 435	16 256	115 417	45 725	157 683	4 705
33911	Medical equipment & supplies mfg	-	20	7	1 047	34 009	667	1 435	16 256	115 417	45 725	157 683	4 705
339114	Dental equipment & supplies mfg	-	4	3	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ...	2	14	5	721	22 682	538	1 202	16 522	47 395	36 444	83 542	3 747
33999	All other miscellaneous mfg	-	6	1	e	D	D	D	D	D	D	D	D
339995	Burial casket mfg	-	1	1	e	D	D	D	D	D	D	D	D

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

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

Table 3. Industry Statistics for Counties: 1997

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	ADAMS COUNTY, PA												
31-33	Manufacturing	-	127	55	8 209	214 065	6 599	13 329	152 197	727 746	678 250	1 401 302	37 127
311	Food mfg	-	17	12	2 398	61 756	1 895	4 000	40 467	270 316	367 157	638 342	9 395
3114	Fruit & vegetable preserving & specialty food mfg	-	7	6	1 693	46 477	1 332	2 748	30 324	237 413	244 461	481 836	8 413
31142	Fruit & vegetable canning, pickling, & drying	-	7	6	1 693	46 477	1 332	2 748	30 324	237 413	244 461	481 836	8 413
311421	Fruit & vegetable canning	-	6	5	g	D	D	D	D	D	D	D	D
311422	Specialty canning	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	8	6	783	21 912	593	1 097	14 999	58 642	96 114	153 690	3 419
3222	Converted paper product mfg	-	8	6	783	21 912	593	1 097	14 999	58 642	96 114	153 690	3 419
32221	Paperboard container mfg	-	5	4	f	D	D	D	D	D	D	D	D
322211	Corrugated & solid fiber box mfg	-	4	3	577	16 071	434	764	10 876	37 168	78 572	114 818	D
323	Printing & related support activities	-	7	4	1 047	29 618	825	1 652	21 417	61 075	30 833	92 028	D
3231	Printing & related support activities	-	7	4	1 047	29 618	825	1 652	21 417	61 075	30 833	92 028	D
32311	Printing	-	7	4	1 047	29 618	825	1 652	21 417	61 075	30 833	92 028	D
323117	Book printing	-	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	9	6	715	14 770	648	1 409	13 121	59 166	14 191	71 969	1 735
3271	Clay product & refractory mfg	-	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	13	3	640	15 067	582	1 181	12 863	52 373	29 088	81 963	1 014

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

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

NAICS code	Geographic area and industry	E¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ALLEGHENY COUNTY, PA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg	1	292	103	7 571	249 829	5 614	11 198	156 514	642 747	876 542	1 518 816	42 232
3321	Forging & stamping	3	14	10	910	31 671	639	1 378	19 122	81 344	69 992	153 997	4 810
33211	Forging & stamping	3	14	10	910	31 671	639	1 378	19 122	81 344	69 992	153 997	4 810
3322	Cutlery & handtool mfg	—	9	6	634	20 805	497	1 094	11 864	78 144	28 064	104 493	2 450
33221	Cutlery & handtool mfg	—	9	6	634	20 805	497	1 094	11 864	78 144	28 064	104 493	2 450
3323	Architectural & structural metals mfg	—	78	25	1 998	67 641	1 491	2 929	43 141	138 437	159 522	296 935	6 559
33231	Plate work & fabricated structural product mfg	1	33	13	699	22 124	517	1 044	13 122	53 925	37 865	91 902	1 645
33232	Ornamental & architectural metal products mfg	—	45	12	1 299	45 517	974	1 885	30 019	84 512	121 657	205 033	4 914
332322	Sheet metal work mfg	—	18	6	707	27 251	568	1 048	20 011	38 643	41 468	79 901	2 116
3324	Boiler, tank, & shipping container mfg	2	12	10	605	23 301	409	787	13 627	50 613	56 757	107 804	3 327
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	102	25	1 736	48 615	1 359	2 570	33 210	102 104	55 865	155 210	8 617
33271	Machine shops	2	89	15	1 309	37 180	1 003	1 784	24 936	67 443	30 769	96 017	4 232
332710	Machine shops	2	89	15	1 309	37 180	1 003	1 784	24 936	67 443	30 769	96 017	4 232
3328	Coating, engraving, heat treating, & allied activities	—	23	7	537	20 941	380	823	13 518	97 487	412 274	512 097	7 657
33281	Coating, engraving, heat treating, & allied activities	—	23	7	537	20 941	380	823	13 518	97 487	412 274	512 097	7 657
3329	Other fabricated metal product mfg	1	36	12	712	24 311	512	989	13 857	61 086	50 916	112 288	3 628
333	Machinery mfg	1	108	49	4 052	165 855	2 251	4 098	71 359	332 927	279 354	632 012	14 479
3333	Commercial & service industry machinery mfg	2	11	8	544	20 658	365	659	10 265	51 884	31 740	82 405	1 422
33331	Commercial & service industry machinery mfg	2	11	8	544	20 658	365	659	10 265	51 884	31 740	82 405	1 422
3335	Metalworking machinery mfg	1	43	15	1 287	49 944	744	1 458	25 200	132 826	91 355	230 975	4 709
33351	Metalworking machinery mfg	1	43	15	1 287	49 944	744	1 458	25 200	132 826	91 355	230 975	4 709
333516	Rolling mill machinery & equipment mfg	1	8	4	f	D	D	D	D	D	D	D	1 410
3339	Other general-purpose machinery mfg	1	29	15	1 626	72 598	837	1 359	26 951	104 020	122 583	240 807	5 487
33391	Pump & compressor mfg	—	1	1	f	D	D	D	D	D	D	D	D
333911	Pump & pumping equipment mfg	—	1	1	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	2	20	11	912	35 094	457	880	12 673	66 190	82 304	161 221	D
334	Computer & electronic product mfg	1	96	34	7 011	334 411	2 797	5 145	79 645	608 252	414 783	1 057 228	34 183
3342	Communications equipment mfg	—	7	4	g	D	D	D	D	D	D	D	D
33421	Telephone apparatus mfg	—	3	3	g	D	D	D	D	D	D	D	D
334210	Telephone apparatus mfg	—	3	3	g	D	D	D	D	D	D	D	D
33429	Other communications equipment mfg	—	2	1	f	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg	—	2	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	4	22	7	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	4	22	7	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	1	46	19	3 374	159 485	1 140	2 278	36 925	403 856	200 969	607 044	20 238
33451	Navigational, measuring, medical, & control instruments mfg	1	46	19	3 374	159 485	1 140	2 278	36 925	403 856	200 969	607 044	20 238
334510	Electromedical & electrotherapeutic apparatus mfg	—	6	4	f	D	D	D	D	D	D	D	8 563
334513	Industrial process control instrument mfg	—	14	3	g	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument mfg	3	9	3	557	19 517	194	374	5 436	36 538	21 584	58 316	2 068

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
31-33	ALLEGHENY COUNTY, PA—Con.													
	Manufacturing—Con.													
334	Computer & electronic product mfg—Con.													
3346	Mfg & reproducing magnetic & optical media .	7	8	2	f	D	D	D	D	D	D	D	D	
33461	Mfg & reproducing magnetic & optical media	7	8	2	f	D	D	D	D	D	D	D	D	
335	Electrical equipment, appliance, & component mfg	-	45	21		2 313	83 635	1 449	3 039	40 836	164 022	175 168	344 754	5 723
3353	Electrical equipment mfg ..	-	29	16		1 920	73 163	1 124	2 369	33 031	142 302	157 447	304 677	D
33531	Electrical equipment mfg	-	29	16		1 920	73 163	1 124	2 369	33 031	142 302	157 447	304 677	D
335312	Motor & generator mfg	-	8	6	f	D	D	D	D	D	D	D	D	D
335314	Relay & industrial control mfg	-	20	9	g	D	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	23	10		3 113	148 767	1 578	3 268	69 986	379 923	249 902	473 944	21 522
3363	Motor vehicle parts mfg ...	-	9	4		1 099	61 615	942	2 095	51 498	65 528	67 478	116 804	D
33637	Motor vehicle metal stamping	-	1	1	f	D	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	-	1	1	f	D	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	-	3	3	g	D	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	-	3	3	g	D	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	-	3	3	g	D	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	1	90	9		1 186	28 965	893	1 587	18 593	51 943	53 306	104 108	2 280
3372	Office furniture (including fixtures) mfg	-	16	4		624	17 491	452	853	10 641	23 033	32 183	54 556	D
33721	Office furniture (including fixtures) mfg	-	16	4		624	17 491	452	853	10 641	23 033	32 183	54 556	D
339	Miscellaneous mfg	2	121	23		2 600	76 646	1 683	3 016	41 359	151 724	109 438	261 224	6 697
3391	Medical equipment & supplies mfg	2	47	9		650	17 068	469	782	9 781	35 702	14 727	50 812	1 507
33911	Medical equipment & supplies mfg	2	47	9		650	17 068	469	782	9 781	35 702	14 727	50 812	1 507
3399	Other miscellaneous mfg ...	2	74	14		1 950	59 578	1 214	2 234	31 578	116 022	94 711	210 412	5 190
33995	Sign mfg	1	31	8	g	D	D	D	D	D	D	D	D	3 100
339950	Sign mfg	1	31	8	g	D	D	D	D	D	D	D	D	3 100
	ARMSTRONG COUNTY, PA													
31-33	Manufacturing	1	92	38		3 617	94 883	2 855	5 471	65 225	228 069	179 294	409 188	15 836
327	Nonmetallic mineral product mfg	-	12	7		677	20 111	563	1 139	16 229	50 654	28 797	79 984	955
3271	Clay product & refractory mfg	-	4	3	f	D	D	D	D	D	D	D	D	354
331	Primary metal mfg	-	3	2		517	16 128	405	765	11 085	31 397	36 433	68 211	D
3315	Foundries	-	2	2	f	D	D	D	D	D	D	D	D	D
333	Machinery mfg	1	17	7		600	17 800	450	961	11 697	51 175	26 322	76 698	2 099
3335	Metalworking machinery mfg	1	12	6		549	16 422	423	907	11 152	48 206	23 804	71 405	1 981
33351	Metalworking machinery mfg	1	12	6		549	16 422	423	907	11 152	48 206	23 804	71 405	1 981
	BEAVER COUNTY, PA													
31-33	Manufacturing	-	221	81		10 311	383 075	7 825	16 770	260 073	1 413 580	1 747 434	3 161 919	118 487
326	Plastics & rubber products mfg	-	9	6		897	43 372	561	1 389	22 023	132 716	190 467	326 945	D
3261	Plastics product mfg	-	9	6		897	43 372	561	1 389	22 023	132 716	190 467	326 945	D
327	Nonmetallic mineral product mfg	-	23	11		1 603	56 841	1 250	2 674	40 088	170 361	63 368	233 911	15 245
3272	Glass & glass product mfg .	-	2	1	f	D	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	2	1	f	D	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	-	2	1	f	D	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	BEAVER COUNTY, PA—Con.												
	Manufacturing—Con.												
331	Primary metal mfg	-	25	19	3 655	157 267	2 821	6 600	113 729	595 744	993 148	1 582 165	29 595
3311	Iron & steel mills & ferroalloy mfg	-	3	3	1 776	88 086	1 389	3 222	66 058	344 879	708 292	1 052 958	D
33111	Iron & steel mills & ferroalloy mfg	-	3	3	1 776	88 086	1 389	3 222	66 058	344 879	708 292	1 052 958	D
331111	Iron & steel mills	-	3	3	1 776	88 086	1 389	3 222	66 058	344 879	708 292	1 052 958	D
3312	Steel product mfg from purchased steel	-	8	8	631	23 718	478	1 065	16 845	50 608	112 483	163 653	D
33122	Rolling & drawing of purchased steel	-	7	7	f	D	D	D	D	D	D	D	D
331221	Cold-rolled steel shape mfg	-	7	7	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	-	6	3	975	37 187	724	1 825	24 562	160 995	147 873	301 660	D
33141	Nonferrous metal (except aluminum) smelting & refining	-	2	2	f	D	D	D	D	D	D	D	D
331419	Other nonferrous metal primary smelting & refining	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	55	17	1 193	43 755	949	1 937	30 772	112 830	110 256	223 327	6 921
335	Electrical equipment, appliance, & component mfg	-	7	3	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg	-	5	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	5	2	f	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg	-	1	1	f	D	D	D	D	D	D	D	D
31-33	BEDFORD COUNTY, PA												
	Manufacturing	-	61	14	3 231	76 640	2 639	4 730	54 359	203 459	280 484	472 756	10 354
316	Leather & allied product mfg	-	1	1	g	D	D	D	D	D	D	D	D
3161	Leather & hide tanning & finishing	-	1	1	g	D	D	D	D	D	D	D	D
31611	Leather & hide tanning & finishing	-	1	1	g	D	D	D	D	D	D	D	D
316110	Leather & hide tanning & finishing	-	1	1	g	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	2	1	f	D	D	D	D	D	D	D	D
31-33	BERKS COUNTY, PA												
	Manufacturing	-	587	241	41 614	1 510 673	30 925	62 366	954 026	3 865 145	3 894 176	7 729 356	344 741
311	Food mfg	2	55	22	4 153	115 342	3 122	6 510	73 611	441 029	461 233	894 573	26 280
3113	Sugar & confectionery product mfg	3	10	5	g	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate	3	8	5	1 751	42 779	1 545	3 560	30 910	222 116	149 270	364 196	13 971
311330	Confectionery mfg from purchased chocolate	3	8	5	1 751	42 779	1 545	3 560	30 910	222 116	149 270	364 196	13 971
3118	Bakeries & tortilla mfg	-	20	5	999	24 122	601	1 031	13 246	83 836	48 648	132 272	2 783
31181	Bread & bakery product mfg	-	18	4	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries	-	7	3	f	D	D	D	D	D	D	D	D
312	Beverage & tobacco product mfg	-	7	4	662	21 541	350	763	10 315	106 927	200 207	306 025	6 583
3121	Beverage mfg	-	7	4	662	21 541	350	763	10 315	106 927	200 207	306 025	6 583
31211	Soft drink & ice mfg	-	5	4	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg	-	4	3	f	D	D	D	D	D	D	D	D
313	Textile mills	2	11	7	938	24 540	731	1 501	16 508	45 548	29 923	75 255	1 559
3132	Fabric mills	1	6	4	732	20 626	582	1 197	14 277	38 124	26 037	63 942	1 321
31322	Narrow fabric mills & schiffli machine embroidery	-	2	2	f	D	D	D	D	D	D	D	D
313221	Narrow fabric mills	-	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg	3	37	25	2 376	41 746	2 039	3 763	34 489	146 525	86 451	231 398	4 996
3151	Apparel knitting mills	1	9	4	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	3	25	20	1 614	25 948	1 349	2 552	20 870	72 374	53 117	123 910	2 466
31522	Men's & boys' cut & sew apparel mfg	5	8	7	728	11 398	637	1 221	9 202	32 742	28 162	62 148	422

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	BERKS COUNTY, PA—Con.												
31-33	Manufacturing—Con.												
316	Leather & allied product mfg .	–	4	3	f	D	D	D	D	D	D	D	D
3161	Leather & hide tanning & finishing	–	2	2	f	D	D	D	D	D	D	D	D
31611	Leather & hide tanning & finishing	–	2	2	f	D	D	D	D	D	D	D	D
316110	Leather & hide tanning & finishing	–	2	2	f	D	D	D	D	D	D	D	D
322	Paper mfg	–	13	10	709	25 916	512	1 077	16 171	74 871	86 269	160 980	7 972
3222	Converted paper product mfg	–	9	6	549	19 284	403	809	11 808	53 483	62 217	115 492	5 950
323	Printing & related support activities	–	53	12	1 418	44 720	980	1 977	25 697	98 134	79 192	177 850	9 665
3231	Printing & related support activities	–	53	12	1 418	44 720	980	1 977	25 697	98 134	79 192	177 850	9 665
32311	Printing	–	49	12	1 400	44 294	968	1 959	25 394	97 376	79 031	176 931	9 623
323110	Commercial lithographic printing . .	–	30	11	1 147	36 729	775	1 460	20 297	72 231	42 450	114 543	7 392
325	Chemical mfg	–	29	11	1 443	59 691	764	1 439	25 308	219 048	230 163	446 843	14 222
3255	Paint, coating, & adhesive mfg	–	4	3	600	26 412	342	585	11 644	105 597	107 587	211 495	4 677
32551	Paint & coating mfg	–	3	2	f	D	D	D	D	D	D	D	D
325510	Paint & coating mfg	–	3	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	–	28	12	1 715	57 789	1 206	2 553	30 306	107 604	102 922	210 432	19 932
3261	Plastics product mfg	–	25	12	1 710	57 672	1 202	2 545	30 219	107 354	102 697	209 956	19 912
32619	Other plastics product mfg	–	17	8	727	19 986	513	1 033	10 981	38 662	39 790	77 970	3 370
326199	All other plastics product mfg	–	16	8	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	–	25	11	1 076	39 963	791	1 760	27 583	107 958	94 664	201 062	18 564
3273	Cement & concrete product mfg	–	16	6	586	21 751	408	997	13 730	68 490	62 842	127 945	14 861
331	Primary metal mfg	–	33	27	6 238	303 284	4 700	10 088	198 951	588 011	1 196 551	1 787 563	89 358
3311	Iron & steel mills & ferroalloy mfg	–	1	1	h	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	–	1	1	h	D	D	D	D	D	D	D	D
331111	Iron & steel mills	–	1	1	h	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	–	12	11	1 239	46 941	915	2 122	32 734	186 744	556 776	744 621	12 069
33142	Copper rolling, drawing, extruding, & alloying	–	7	7	879	32 777	631	1 462	23 797	114 241	471 009	588 491	5 171
331421	Copper rolling, drawing, & extruding	–	6	6	f	D	D	D	D	D	D	D	D
3315	Foundries	–	19	14	g	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries	–	10	9	1 478	39 369	1 266	2 444	28 726	75 922	43 421	118 743	D
331513	Steel foundries (except investment)	–	4	3	f	D	D	D	D	D	D	D	1 581
332	Fabricated metal product mfg	–	109	36	3 705	113 045	2 899	5 428	73 076	280 990	256 414	529 463	20 205
3323	Architectural & structural metals mfg	–	22	13	824	27 788	666	1 205	17 864	56 890	75 428	132 882	2 378
3325	Hardware mfg	–	1	1	f	D	D	D	D	D	D	D	D
33251	Hardware mfg	–	1	1	f	D	D	D	D	D	D	D	D
332510	Hardware mfg	–	1	1	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	–	37	10	1 043	28 826	804	1 242	18 496	68 898	50 553	115 190	4 682
33271	Machine shops	1	33	8	f	D	D	D	D	D	D	D	D
332710	Machine shops	1	33	8	f	D	D	D	D	D	D	D	D
33272	Turned product & screw, nut, & bolt mfg	–	4	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	1	40	18	1 384	48 167	899	1 730	26 135	135 215	119 927	257 729	3 548
3332	Industrial machinery mfg	–	13	7	597	23 579	395	818	12 957	84 578	81 582	169 200	1 270
33329	Other industrial machinery mfg	–	13	7	597	23 579	395	818	12 957	84 578	81 582	169 200	1 270
334	Computer & electronic product mfg	–	17	7	2 882	128 226	2 036	4 086	55 720	491 288	121 664	614 744	D
3344	Semiconductor & other electronic component mfg	–	9	3	h	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	–	9	3	h	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg	–	1	1	g	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
BERKS COUNTY, PA—Con.													
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	-	12	7	4 039	133 144	2 922	5 878	88 012	332 075	211 610	530 344	29 471
3359	Other electrical equipment & component mfg	-	5	4	h	D	D	D	D	D	D	D	D
33591	Battery mfg	-	3	2	h	D	D	D	D	D	D	D	D
335911	Storage battery mfg ...	-	2	2	h	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	13	5	4 436	210 408	3 708	7 301	164 539	388 676	280 401	680 949	18 591
3362	Motor vehicle body & trailer mfg	-	5	3	g	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	-	5	3	g	D	D	D	D	D	D	D	D
336211	Motor vehicle body mfg	-	3	3	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	3	1	h	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	-	2	1	h	D	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	-	2	1	h	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	3	29	9	536	15 890	409	874	10 165	32 123	22 867	54 602	1 044
339	Miscellaneous mfg	1	38	10	2 259	84 745	1 501	3 064	47 650	165 099	78 887	239 463	11 632
3391	Medical equipment & supplies mfg	1	20	7	1 943	76 059	1 328	2 711	43 692	143 169	67 065	206 435	10 664
33911	Medical equipment & supplies mfg	1	20	7	1 943	76 059	1 328	2 711	43 692	143 169	67 065	206 435	10 664
339112	Surgical & medical instrument mfg	1	6	6	1 598	65 044	1 093	2 297	38 339	117 673	37 061	150 468	8 760
BLAIR COUNTY, PA													
31-33	Manufacturing	-	157	61	8 966	251 710	6 960	13 419	165 544	865 111	722 732	1 592 437	59 065
311	Food mfg	3	25	11	1 001	20 483	729	1 183	11 017	56 458	79 426	136 446	5 837
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
316213	Men's footwear (except athletic) mfg .	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	6	5	1 444	52 580	1 155	2 417	38 867	199 478	158 739	361 329	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
3222	Converted paper product mfg	-	4	3	f	D	D	D	D	D	D	D	D
32223	Stationery product mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	6	2	508	14 959	326	623	7 958	67 738	52 155	120 829	D
327	Nonmetallic mineral product mfg	-	12	5	642	21 470	490	978	15 116	65 821	52 962	120 122	1 815
331	Primary metal mfg	-	3	3	536	19 766	367	889	12 982	44 031	84 073	127 221	D
3314	Nonferrous metal (except aluminum) production & processing.....	-	3	3	536	19 766	367	889	12 982	44 031	84 073	127 221	D
332	Fabricated metal product mfg	-	14	4	778	23 965	651	1 225	16 827	84 449	47 710	133 355	4 520
333	Machinery mfg	-	7	3	663	25 791	452	877	14 996	57 957	26 759	84 485	1 558
334	Computer & electronic product mfg	-	6	3	f	D	D	D	D	D	D	D	D

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

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
BRADFORD COUNTY, PA													
31-33	Manufacturing	-	73	25	6 405	191 515	5 278	10 000	143 077	629 500	642 724	1 273 722	46 328
311	Food mfg	-	12	3	1 387	33 577	1 155	2 101	23 002	48 746	271 314	322 167	D
3116	Meat product mfg	-	3	2	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	3	2	f	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering	-	2	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg	-	14	6	915	26 649	796	1 551	22 052	99 877	50 026	150 152	7 596
3212	Veneer, plywood, & engineered wood product mfg	-	2	2	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, & engineered wood product mfg	-	2	2	f	D	D	D	D	D	D	D	D
321219	Reconstituted wood product mfg	-	1	1	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	2	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
331	Primary metal mfg	-	2	2	g	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	-	1	1	g	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying ...	-	1	1	g	D	D	D	D	D	D	D	D
331492	Other nonferrous metal secondary smelting, refining, & alloying ...	-	1	1	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	7	3	649	23 733	399	881	13 432	96 965	50 686	147 968	D
3339	Other general-purpose machinery mfg	-	3	2	f	D	D	D	D	D	D	D	D
33399	All other general-purpose machinery mfg	-	3	2	f	D	D	D	D	D	D	D	D
333991	Power-driven handtool mfg	-	1	1	f	D	D	D	D	D	D	D	D
BUCKS COUNTY, PA													
31-33	Manufacturing	1	1 236	428	41 592	1 518 872	26 985	55 389	816 850	3 414 798	4 201 017	7 592 956	420 133
311	Food mfg	2	70	17	1 498	35 568	1 091	2 339	22 444	124 311	155 075	278 100	D
315	Apparel mfg	-	28	10	2 271	81 708	1 079	1 504	31 260	250 157	327 343	520 734	D
3152	Cut & sew apparel mfg	-	20	9	2 002	76 104	928	1 235	29 172	243 107	307 528	494 226	D
31523	Women's & girls' cut & sew apparel mfg	-	7	4	g	D	D	D	D	D	D	D	D
315234	Women's & girls' cut & sew suit, coat, skirt mfg	-	1	1	g	D	D	D	D	D	D	D	D
322	Paper mfg	1	28	18	1 965	74 314	1 418	3 070	42 622	271 760	271 329	540 692	16 695
3222	Converted paper product mfg	1	28	18	1 965	74 314	1 418	3 070	42 622	271 760	271 329	540 692	16 695
32222	Paper bag & coated & treated paper mfg	-	11	7	1 158	46 597	809	1 774	26 446	198 597	175 298	371 057	10 702
322222	Coated & laminated paper mfg	-	9	5	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	132	34	3 468	122 667	2 274	4 664	71 296	317 443	234 252	549 838	24 617
3231	Printing & related support activities	1	132	34	3 468	122 667	2 274	4 664	71 296	317 443	234 252	549 838	24 617
32311	Printing	1	115	30	3 198	113 708	2 069	4 212	64 604	301 743	230 271	528 943	21 784
323110	Commercial lithographic printing ..	-	58	19	2 137	75 117	1 299	2 671	41 858	190 855	94 119	284 377	14 471
325	Chemical mfg	1	61	32	3 454	160 722	1 860	4 016	78 848	265 436	743 780	1 020 589	195 595
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	4	2	f	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg	-	3	2	f	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg	-	2	2	f	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg	-	10	6	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	-	10	6	f	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	-	7	3	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	BUCKS COUNTY, PA—Con.												
31-33	Manufacturing—Con.												
325	Chemical mfg—Con.												
3259	Other chemical product mfg	5	18	12	f	D	D	D	D	D	D	D	7 720
32599	All other chemical product & preparation mfg	6	15	10	540	21 176	309	655	10 569	81 674	88 712	169 346	D
326	Plastics & rubber products mfg	2	75	42	3 336	110 315	2 459	5 000	64 799	250 447	219 066	468 769	30 604
3261	Plastics product mfg	2	65	35	3 055	101 943	2 261	4 625	59 841	236 866	206 750	443 084	29 504
32619	Other plastics product mfg	1	42	21	1 836	63 802	1 359	2 768	36 122	129 768	81 989	211 074	15 537
326199	All other plastics product mfg	1	42	21	1 836	63 802	1 359	2 768	36 122	129 768	81 989	211 074	15 537
327	Nonmetallic mineral product mfg	—	42	15	1 262	43 513	897	1 872	26 437	121 583	95 576	218 083	D
3273	Cement & concrete product mfg	1	20	7	524	18 183	376	853	11 258	58 896	49 479	108 052	D
331	Primary metal mfg	—	11	6	g	D	D	D	D	D	D	D	D
3311	Iron & steel mills & ferroalloy mfg	—	1	1	f	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	—	1	1	f	D	D	D	D	D	D	D	D
331111	Iron & steel mills	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	254	80	6 286	232 347	4 662	9 768	142 877	572 343	366 974	937 460	51 102
3323	Architectural & structural metals mfg	1	46	21	1 308	46 982	948	2 025	27 056	107 478	124 172	232 214	5 816
33232	Ornamental & architectural metal products mfg	1	39	17	1 100	37 976	801	1 652	21 400	89 381	105 992	195 017	5 074
332322	Sheet metal work mfg	1	27	11	722	25 763	514	1 114	13 490	61 762	56 127	117 073	4 266
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	131	28	2 981	112 363	2 303	4 839	73 627	287 897	91 893	379 813	35 526
33271	Machine shops	1	113	20	1 639	60 573	1 239	2 240	36 848	126 500	48 140	174 624	10 433
332710	Machine shops	1	113	20	1 639	60 573	1 239	2 240	36 848	126 500	48 140	174 624	10 433
33272	Turned product & screw, nut, & bolt mfg	—	18	8	1 342	51 790	1 064	2 599	36 779	161 397	43 753	205 189	25 093
332722	Bolt, nut, screw, rivet, & washer mfg	—	4	3	872	31 196	671	1 612	22 351	124 984	19 333	143 842	D
3328	Coating, engraving, heat treating, & allied activities	2	29	8	516	20 537	385	866	13 249	47 716	28 029	75 209	3 728
33281	Coating, engraving, heat treating, & allied activities	2	29	8	516	20 537	385	866	13 249	47 716	28 029	75 209	3 728
3329	Other fabricated metal product mfg	—	19	8	567	21 413	374	695	10 322	46 696	29 790	75 817	2 904
333	Machinery mfg	1	136	46	3 728	153 727	2 195	4 629	74 819	288 709	330 655	639 195	18 655
3333	Commercial & service industry machinery mfg	—	18	7	567	18 941	384	788	10 592	46 993	36 535	84 268	2 079
33331	Commercial & service industry machinery mfg	—	18	7	567	18 941	384	788	10 592	46 993	36 535	84 268	2 079
3335	Metalworking machinery mfg	2	45	9	643	28 655	485	1 034	19 259	50 175	16 747	66 398	2 444
33351	Metalworking machinery mfg	2	45	9	643	28 655	485	1 034	19 259	50 175	16 747	66 398	2 444
333514	Special die & tool, die set, jig, & fixture mfg	1	27	9	502	22 225	376	803	14 851	39 251	12 026	50 899	1 290
3339	Other general-purpose machinery mfg	1	45	21	1 919	83 702	906	1 924	32 996	139 191	227 109	387 589	9 223
33391	Pump & compressor mfg	4	9	8	614	24 246	353	815	13 093	54 876	33 448	89 086	D
33399	All other general-purpose machinery mfg	—	30	9	1 047	51 109	422	877	16 839	73 018	167 452	260 767	5 975
333999	All other miscellaneous general-purpose machinery mfg	—	14	4	715	38 385	260	537	11 901	46 268	142 115	208 144	4 813

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	BUCKS COUNTY, PA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg	2	109	47	5 678	218 443	2 787	5 613	81 612	374 478	376 734	756 864	21 422
3341	Computer & peripheral equipment mfg	1	15	8	1 322	55 780	431	978	16 289	130 416	148 272	275 422	5 186
33411	Computer & peripheral equipment mfg	1	15	8	1 322	55 780	431	978	16 289	130 416	148 272	275 422	5 186
334119	Other computer peripheral equipment mfg	—	9	6	f	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	1	8	4	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	1	6	4	800	31 842	406	891	11 652	62 432	28 929	95 825	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	1	6	4	800	31 842	406	891	11 652	62 432	28 929	95 825	D
3344	Semiconductor & other electronic component mfg	3	41	18	1 336	34 119	936	1 727	17 858	73 910	37 945	110 938	6 966
33441	Semiconductor & other electronic component mfg	3	41	18	1 336	34 119	936	1 727	17 858	73 910	37 945	110 938	6 966
3345	Navigational, measuring, medical, & control instruments mfg	4	42	17	2 183	95 924	988	1 974	35 381	105 968	159 011	270 325	6 534
33451	Navigational, measuring, medical, & control instruments mfg	4	42	17	2 183	95 924	988	1 974	35 381	105 968	159 011	270 325	6 534
334513	Industrial process control instrument mfg	7	11	5	f	D	D	D	D	D	D	D	D
334519	Other measuring & controlling device mfg	—	8	3	603	28 945	345	718	14 403	11 900	22 323	34 847	D
335	Electrical equipment, appliance, & component mfg	1	26	9	1 200	34 718	927	1 980	23 326	91 132	110 418	201 171	4 614
3351	Electric lighting equipment mfg	—	6	2	f	D	D	D	D	D	D	D	D
33512	Lighting fixture mfg	—	6	2	f	D	D	D	D	D	D	D	D
335122	Commercial/industrial/institutional electric lighting fixture mfg ...	—	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	5	26	8	600	16 067	476	934	9 805	29 761	36 502	66 929	D
337	Furniture & related product mfg	3	57	12	1 156	37 044	821	1 709	21 897	65 871	54 505	121 409	3 249
3372	Office furniture (including fixtures) mfg	4	23	8	835	28 470	575	1 245	16 717	48 284	41 536	90 799	2 571
33721	Office furniture (including fixtures) mfg	4	23	8	835	28 470	575	1 245	16 717	48 284	41 536	90 799	2 571
339	Miscellaneous mfg	1	102	27	2 892	89 250	1 846	3 531	41 127	222 743	175 258	398 494	8 888
3391	Medical equipment & supplies mfg	1	47	12	1 471	52 687	840	1 707	21 695	139 659	61 272	200 499	5 343
33911	Medical equipment & supplies mfg	1	47	12	1 471	52 687	840	1 707	21 695	139 659	61 272	200 499	5 343
339112	Surgical & medical instrument mfg	—	11	5	794	31 167	411	831	11 951	95 004	36 460	130 856	3 493
3399	Other miscellaneous mfg ..	1	55	15	1 421	36 563	1 006	1 824	19 432	83 084	113 986	197 995	3 545
33999	All other miscellaneous mfg	—	16	8	913	23 282	640	1 208	12 022	56 552	89 894	146 541	1 907
339999	All other miscellaneous mfg	—	10	5	723	17 088	523	956	8 673	40 754	78 541	118 703	1 134
	BUTLER COUNTY, PA												
31-33	Manufacturing	—	276	106	14 891	532 963	10 912	20 763	340 438	1 358 068	1 654 295	2 989 977	104 096
324	Petroleum & coal products mfg	—	8	3	524	24 785	379	879	16 852	132 337	203 438	336 621	11 356
3241	Petroleum & coal products mfg	—	8	3	524	24 785	379	879	16 852	132 337	203 438	336 621	11 356
32411	Petroleum refineries	—	3	3	500	23 815	359	837	16 237	129 493	196 134	326 458	D
324110	Petroleum refineries ..	—	3	3	500	23 815	359	837	16 237	129 493	196 134	326 458	D
325	Chemical mfg	—	9	4	706	31 693	431	859	18 844	124 160	108 094	225 453	10 642
3251	Basic chemical mfg	—	5	2	f	D	D	D	D	D	D	D	9 337
32519	Other basic organic chemical mfg	—	2	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
BUTLER COUNTY, PA —Con.													
31-33	Manufacturing—Con.												
326	Plastics & rubber products mfg.....	—	10	7	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg.....	—	7	6	631	17 161	482	873	9 605	47 338	43 873	87 936	D
32619	Other plastics product mfg.....	—	7	6	631	17 161	482	873	9 605	47 338	43 873	87 936	D
326199	All other plastics product mfg.....	—	7	6	631	17 161	482	873	9 605	47 338	43 873	87 936	D
327	Nonmetallic mineral product mfg.....	1	32	15	1 136	38 443	814	1 713	25 203	98 220	86 865	185 772	11 558
3271	Clay product & refractory mfg.....	1	9	6	f	D	D	D	D	D	D	D	D
331	Primary metal mfg.....	—	11	7	3 997	160 283	3 293	5 274	122 381	286 095	674 681	946 617	D
3311	Iron & steel mills & ferroalloy mfg.....	—	3	3	h	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg.....	—	3	3	h	D	D	D	D	D	D	D	D
331111	Iron & steel mills.....	—	1	1	h	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	—	66	27	2 889	90 101	2 184	4 427	52 371	202 907	147 216	350 651	17 201
3321	Forging & stamping.....	—	4	3	557	19 015	485	914	11 195	39 993	17 757	57 315	D
33211	Forging & stamping.....	—	4	3	557	19 015	485	914	11 195	39 993	17 757	57 315	D
332116	Metal stamping.....	—	3	3	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg.....	—	17	10	1 273	36 672	914	1 880	20 002	95 101	77 300	172 903	2 210
33232	Ornamental & architectural metal products mfg.....	—	8	5	1 053	30 492	747	1 537	16 040	82 286	60 749	143 186	1 759
332321	Metal window & door mfg.....	—	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg.....	—	36	16	1 946	82 717	1 244	2 735	46 568	213 271	124 762	333 839	10 416
3335	Metalworking machinery mfg.....	—	11	5	777	34 390	553	1 252	21 498	68 198	48 010	118 552	D
33351	Metalworking machinery mfg.....	—	11	5	777	34 390	553	1 252	21 498	68 198	48 010	118 552	D
334	Computer & electronic product mfg.....	2	13	8	1 428	46 792	808	1 624	19 417	111 187	76 685	191 846	D
3344	Semiconductor & other electronic component mfg.....	9	7	3	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	9	7	3	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg.....	—	5	5	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg.....	—	5	5	f	D	D	D	D	D	D	D	D
334516	Analytical laboratory instrument mfg.....	—	2	2	f	D	D	D	D	D	D	D	D
CAMBRIA COUNTY, PA													
31-33	Manufacturing	2	153	56	7 403	186 304	4 970	8 768	113 423	515 020	819 546	1 349 484	29 062
311	Food mfg.....	—	11	3	500	15 327	233	393	4 731	36 379	95 093	131 848	D
315	Apparel mfg.....	—	10	5	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg....	—	8	5	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg.....	—	3	3	g	D	D	D	D	D	D	D	D
315231	Women's & girls' cut/ sew lingerie & nightwear mfg.....	—	2	2	g	D	D	D	D	D	D	D	D
331	Primary metal mfg.....	—	6	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	4	27	10	709	20 460	546	990	12 611	34 113	41 817	80 647	2 802
336	Transportation equipment mfg.....	1	10	8	g	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg..	—	4	4	939	32 985	775	1 505	23 975	67 850	203 232	269 011	2 333
33651	Railroad rolling stock mfg.....	—	4	4	939	32 985	775	1 505	23 975	67 850	203 232	269 011	2 333
336510	Railroad rolling stock mfg.....	—	4	4	939	32 985	775	1 505	23 975	67 850	203 232	269 011	2 333

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CAMERON COUNTY, PA													
31-33	Manufacturing	1	20	9	1 259	34 622	999	2 037	22 900	87 851	62 452	151 428	16 803
332	Fabricated metal product mfg	-	12	6	g	D	D	D	D	D	D	D	D
3325	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
33251	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
332510	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
CARBON COUNTY, PA													
31-33	Manufacturing	4	63	32	3 646	76 220	3 036	5 941	58 408	177 532	134 415	311 894	12 167
315	Apparel mfg	3	16	12	1 399	22 520	1 301	2 654	20 214	33 293	5 876	37 036	408
3152	Cut & sew apparel mfg	3	15	12	g	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	3	10	8	1 017	17 859	935	2 068	16 097	29 611	1 936	29 419	D
315212	Women's, girls', & infants' cut & sew apparel contractors ..	3	10	8	1 017	17 859	935	2 068	16 097	29 611	1 936	29 419	D
331	Primary metal mfg	-	5	5	608	14 411	451	842	11 272	55 544	47 796	103 840	6 540
336	Transportation equipment mfg	9	2	1	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	9	1	1	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	9	1	1	f	D	D	D	D	D	D	D	D
336211	Motor vehicle body mfg	9	1	1	f	D	D	D	D	D	D	D	D
CENTRE COUNTY, PA													
31-33	Manufacturing	-	159	58	8 546	255 406	5 941	11 755	148 714	790 071	625 316	1 409 254	127 102
323	Printing & related support activities	-	15	4	565	14 509	470	853	11 117	43 600	11 846	55 312	1 703
3231	Printing & related support activities	-	15	4	565	14 509	470	853	11 117	43 600	11 846	55 312	1 703
32311	Printing	-	15	4	565	14 509	470	853	11 117	43 600	11 846	55 312	1 703
327	Nonmetallic mineral product mfg	-	14	8	1 655	58 693	1 287	2 805	38 510	270 975	128 810	398 440	D
3272	Glass & glass product mfg .	-	2	1	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	2	1	g	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	-	1	1	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	1	1	f	D	D	D	D	D	D	D	D
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
331421	Copper rolling, drawing, & extruding .	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	31	18	2 965	90 228	1 716	3 413	40 537	233 900	203 229	432 601	17 872
3342	Communications equipment mfg	-	6	3	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	-	5	3	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	-	5	3	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	12	8	1 587	44 330	1 046	2 150	24 487	138 343	137 524	271 467	13 588
33441	Semiconductor & other electronic component mfg	-	12	8	1 587	44 330	1 046	2 150	24 487	138 343	137 524	271 467	13 588
334414	Electronic capacitor mfg	-	2	1	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	12	7	674	24 072	343	707	9 595	59 513	38 476	96 840	3 148
33451	Navigational, measuring, medical, & control instruments mfg	-	12	7	674	24 072	343	707	9 595	59 513	38 476	96 840	3 148
334516	Analytical laboratory instrument mfg	-	7	5	520	19 699	251	537	7 073	46 594	29 989	75 689	2 748

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CHESTER COUNTY, PA													
31-33	Manufacturing	1	629	208	20 791	771 110	13 708	28 271	425 597	2 343 558	1 997 255	4 332 219	130 598
311	Food mfg	-	32	11	1 373	43 140	1 069	2 036	30 191	278 193	212 859	488 984	19 609
31181	Bakeries & tortilla mfg	-	16	3	f	D	D	D	D	D	D	D	D
	Bread & bakery product mfg	-	14	3	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	22	15	1 754	68 765	1 218	2 776	43 315	153 223	211 197	366 265	D
3222	Converted paper product mfg	-	18	11	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	10	4	558	21 353	459	1 128	15 689	54 881	69 396	124 149	D
323	Printing & related support activities	1	82	16	1 493	55 108	977	1 776	28 685	121 974	66 086	187 947	D
3231	Printing & related support activities	1	82	16	1 493	55 108	977	1 776	28 685	121 974	66 086	187 947	D
32311	Printing	1	76	14	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	28	8	821	31 988	510	959	16 194	69 129	44 536	113 670	9 723
325	Chemical mfg	2	43	24	2 005	98 897	1 314	2 678	49 853	320 232	350 476	666 604	17 892
3254	Pharmaceutical & medicine mfg	4	12	10	1 175	63 647	809	1 614	33 025	131 076	148 715	281 150	D
32541	Pharmaceutical & medicine mfg	4	12	10	1 175	63 647	809	1 614	33 025	131 076	148 715	281 150	D
325412	Pharmaceutical preparation mfg	-	5	4	634	29 325	502	941	22 065	50 175	44 677	96 622	D
326	Plastics & rubber products mfg	-	26	12	781	26 260	543	1 031	14 259	60 303	59 367	121 223	3 995
3261	Plastics product mfg	-	23	11	738	24 431	519	986	13 065	56 364	55 551	113 430	D
331	Primary metal mfg	-	13	9	h	D	D	D	D	D	D	D	12 902
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
332	Fabricated metal product mfg	1	88	29	2 050	76 790	1 503	3 082	47 509	158 241	140 546	300 417	10 347
3323	Architectural & structural metals mfg	1	19	6	504	19 401	336	780	11 131	35 512	23 945	59 622	853
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	41	6	f	D	D	D	D	D	D	D	4 119
333	Machinery mfg	1	66	24	1 896	74 858	993	2 038	34 329	190 722	141 977	328 174	10 724
3332	Industrial machinery mfg ..	-	15	5	689	27 524	268	544	10 001	90 417	49 598	135 078	6 431
33329	Other industrial machinery mfg	-	13	5	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	2	29	13	705	29 606	418	919	15 131	60 261	48 443	108 893	1 754
33399	All other general-purpose machinery mfg	1	21	10	578	24 824	347	788	13 034	51 347	36 525	86 806	1 416
334	Computer & electronic product mfg	1	52	19	2 005	71 191	930	1 920	21 312	205 802	160 087	357 057	9 210
3341	Computer & peripheral equipment mfg	-	5	2	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	-	5	2	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	-	3	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	2	21	7	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	2	21	7	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	1	18	7	762	22 899	431	954	10 191	160 923	78 728	239 824	3 271
337	Furniture & related product mfg	6	41	8	1 132	29 146	979	2 218	21 685	66 668	60 322	126 633	4 533
3371	Household & institutional furniture & kitchen cabinet mfg	7	35	5	953	23 398	868	1 969	18 898	55 058	51 636	106 056	3 968
33712	Household & institutional furniture mfg	8	20	4	803	19 167	744	1 671	15 659	40 854	42 171	82 373	D
337124	Metal household furniture mfg	9	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	54	9	902	27 140	534	991	13 532	107 822	52 502	162 580	D
3391	Medical equipment & supplies mfg	1	26	6	547	15 186	350	628	8 552	79 038	25 472	107 426	D
33911	Medical equipment & supplies mfg	1	26	6	547	15 186	350	628	8 552	79 038	25 472	107 426	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CLARION COUNTY, PA													
31-33	Manufacturing	-	49	24	2 711	76 356	2 281	4 294	58 891	217 123	222 329	441 721	8 901
321	Wood product mfg	-	19	10	1 239	34 067	1 004	1 886	24 733	86 036	124 844	211 532	3 979
3219	Other wood product mfg . . .	-	11	8	1 031	27 509	823	1 480	19 495	65 941	99 674	165 710	1 945
32199	All other wood product mfg	-	7	7	966	26 556	760	1 354	18 599	63 506	96 609	160 202	1 733
321991	Manufactured home (mobile home) mfg . .	-	5	5	f	D	D	D	D	D	D	D	1 733
CLEARFIELD COUNTY, PA													
31-33	Manufacturing	1	107	46	4 864	120 240	3 789	7 747	84 148	302 692	490 856	790 976	25 400
315	Apparel mfg	-	8	7	f	D	D	D	D	D	D	D	446
3152	Cut & sew apparel mfg	-	8	7	f	D	D	D	D	D	D	D	446
31522	Men's & boys' cut & sew apparel mfg	-	3	3	f	D	D	D	D	D	D	D	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	-	3	3	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	3	15	9	539	14 066	340	682	8 812	36 415	37 059	73 825	2 820
332	Fabricated metal product mfg	-	17	5	524	17 186	379	734	11 421	28 296	35 305	62 449	2 191
333	Machinery mfg	2	9	6	504	13 161	380	713	9 081	29 766	26 709	55 089	1 880
334	Computer & electronic product mfg	-	3	2	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	1	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	1	1	f	D	D	D	D	D	D	D	D
334417	Electronic connector mfg	-	1	1	f	D	D	D	D	D	D	D	D
CLINTON COUNTY, PA													
31-33	Manufacturing	-	54	20	3 212	89 163	2 659	5 113	64 902	330 543	353 078	677 112	28 882
322	Paper mfg	1	4	3	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	f	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	f	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	4	3	500	8 060	435	728	6 580	80 688	21 047	100 255	D
3363	Motor vehicle parts mfg . . .	-	4	3	500	8 060	435	728	6 580	80 688	21 047	100 255	D
COLUMBIA COUNTY, PA													
31-33	Manufacturing	-	100	43	i	D	D	D	D	D	D	D	D
311	Food mfg	-	12	6	g	D	D	D	D	D	D	D	D
3111	Animal food mfg	-	3	1	f	D	D	D	D	D	D	D	D
31111	Animal food mfg	-	3	1	f	D	D	D	D	D	D	D	D
311111	Dog & cat food mfg	-	1	1	f	D	D	D	D	D	D	D	D
3119	Other food mfg	-	1	1	g	D	D	D	D	D	D	D	D
31191	Snack food mfg	-	1	1	g	D	D	D	D	D	D	D	D
311919	Other snack food mfg	-	1	1	g	D	D	D	D	D	D	D	D
313	Textile mills	-	8	5	1 414	32 201	1 157	2 336	22 806	83 763	63 220	145 715	D
3132	Fabric mills	-	4	3	g	D	D	D	D	D	D	D	D
31323	Nonwoven fabric mills	-	1	1	f	D	D	D	D	D	D	D	D
313230	Nonwoven fabric mills	-	1	1	f	D	D	D	D	D	D	D	D
314	Textile product mills	-	4	3	g	D	D	D	D	D	D	D	D
3141	Textile furnishings mills	-	4	3	g	D	D	D	D	D	D	D	D
31411	Carpet & rug mills	-	2	2	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills	-	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	4	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	19	7	1 036	36 118	757	1 740	23 195	28 337	144 538	174 884	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CRAWFORD COUNTY, PA													
31-33	Manufacturing	-	301	104	8 714	289 381	6 350	12 400	178 861	760 286	502 270	1 263 394	65 600
321	Wood product mfg	1	29	9	558	12 076	474	867	9 600	33 845	51 556	83 470	5 140
326	Plastics & rubber products mfg	-	15	9	1 030	29 677	793	1 593	19 358	76 825	59 907	136 814	4 124
3261	Plastics product mfg	-	12	7	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	8	4	528	13 887	401	846	8 863	30 134	19 070	49 005	2 227
326199	All other plastics product mfg	-	8	4	528	13 887	401	846	8 863	30 134	19 070	49 005	2 227
327	Nonmetallic mineral product mfg	-	10	3	f	D	D	D	D	D	D	D	1 706
331	Primary metal mfg	-	6	5	545	16 864	450	868	12 099	43 141	20 906	63 667	1 828
332	Fabricated metal product mfg	-	71	20	2 150	70 132	1 618	3 254	43 410	172 675	99 937	272 545	13 258
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
332212	Hand & edge tool mfg .	-	3	1	f	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	42	9	f	D	D	D	D	D	D	D	7 921
33271	Machine shops	1	39	7	500	18 656	405	819	13 606	33 799	10 214	44 118	D
332710	Machine shops	1	39	7	500	18 656	405	819	13 606	33 799	10 214	44 118	D
333	Machinery mfg	1	123	46	2 627	103 300	1 899	3 819	66 058	183 106	97 330	282 463	17 393
3335	Metalworking machinery mfg	1	112	42	2 298	92 716	1 730	3 548	62 122	158 963	77 333	238 364	16 825
33351	Metalworking machinery mfg	1	112	42	2 298	92 716	1 730	3 548	62 122	158 963	77 333	238 364	16 825
333511	Industrial mold mfg ...	-	28	10	510	20 114	406	822	14 775	35 565	12 868	48 213	3 128
333514	Special die & tool, die set, jig, & fixture mfg .	1	68	26	1 153	47 640	897	1 924	33 666	77 571	22 299	99 745	7 005
CUMBERLAND COUNTY, PA													
31-33	Manufacturing	-	221	83	13 804	444 765	9 986	21 387	288 043	1 573 991	1 757 616	3 307 332	120 369
311	Food mfg	-	21	10	g	D	D	D	D	D	D	D	20 457
314	Textile product mills	-	8	1	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills	-	4	1	f	D	D	D	D	D	D	D	D
31411	Carpet & rug mills	-	1	1	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills	-	1	1	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	6	5	g	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	4	3	g	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	44	7	1 825	57 809	1 072	3 007	39 443	104 754	88 972	195 964	24 356
3231	Printing & related support activities	-	44	7	1 825	57 809	1 072	3 007	39 443	104 754	88 972	195 964	24 356
32311	Printing	-	40	7	1 804	57 328	1 056	2 980	39 081	103 962	88 847	195 047	24 305
323110	Commercial lithographic printing ..	-	19	4	1 596	51 663	901	2 690	35 537	92 168	81 519	175 909	D
326	Plastics & rubber products mfg	-	12	6	g	D	D	D	D	D	D	D	10 943
3262	Rubber product mfg	-	4	2	g	D	D	D	D	D	D	D	D
32621	Tire mfg	-	2	1	f	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	-	2	1	f	D	D	D	D	D	D	D	D
326299	All other rubber product mfg	-	2	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	6	4	686	25 355	537	1 254	17 984	119 664	70 019	189 936	D
332	Fabricated metal product mfg	-	27	11	896	26 949	708	1 458	18 027	66 581	88 982	156 404	5 555
333	Machinery mfg	-	12	8	956	33 082	579	1 134	19 290	98 768	159 754	259 493	6 084
3331	Agriculture, construction, & mining machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	CUMBERLAND COUNTY, PA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg.....	2	22	13	1 937	55 954	1 439	2 931	35 922	161 346	86 827	246 151	D
3344	Semiconductor & other electronic component mfg.....	2	17	11	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	2	17	11	g	D	D	D	D	D	D	D	D
334419	Other electronic component mfg.....	3	12	8	g	D	D	D	D	D	D	D	D
	DAUPHIN COUNTY, PA												
31-33	Manufacturing....	—	222	84	14 871	522 448	11 743	22 816	378 072	1 670 858	1 979 965	3 590 903	71 171
311	Food mfg.....	—	23	10	i	D	D	D	D	D	D	D	23 475
3113	Sugar & confectionery product mfg.....	—	5	3	i	D	D	D	D	D	D	D	D
31132	Chocolate & confectionery mfg from cacao beans.....	—	1	1	h	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans....	—	1	1	h	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate....	—	2	2	g	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate.....	—	2	2	g	D	D	D	D	D	D	D	D
315	Apparel mfg.....	7	5	4	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	1	41	13	745	17 856	532	926	11 624	41 567	21 532	63 250	3 435
3231	Printing & related support activities.....	1	41	13	745	17 856	532	926	11 624	41 567	21 532	63 250	3 435
32311	Printing.....	2	38	12	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	—	9	6	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg.....	—	8	6	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg.....	—	5	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg.....	—	4	3	f	D	D	D	D	D	D	D	D
331	Primary metal mfg.....	—	2	2	g	D	D	D	D	D	D	D	D
3311	Iron & steel mills & ferroalloy mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg.....	—	1	1	g	D	D	D	D	D	D	D	D
331111	Iron & steel mills.....	—	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg.....	—	28	10	716	22 987	581	1 291	17 561	77 471	74 702	149 123	4 860
333	Machinery mfg.....	—	21	13	1 777	53 780	1 333	2 579	36 985	157 971	100 332	238 399	9 288
3335	Metalworking machinery mfg.....	—	13	6	1 129	31 215	852	1 651	21 686	75 089	27 714	96 316	2 695
33351	Metalworking machinery mfg.....	—	13	6	1 129	31 215	852	1 651	21 686	75 089	27 714	96 316	2 695
333515	Cutting tool & machine tool accessory mfg ..	—	6	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg.....	—	8	2	f	D	D	D	D	D	D	D	D
	DELAWARE COUNTY, PA												
31-33	Manufacturing....	—	522	136	19 341	866 981	12 311	24 949	447 356	3 117 810	4 505 790	7 315 196	596 770
311	Food mfg.....	3	41	10	1 151	32 395	816	1 516	19 836	98 653	261 888	361 989	D
322	Paper mfg.....	—	9	7	1 549	73 151	1 279	2 614	57 138	453 797	203 477	636 465	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
3222	Converted paper product mfg.....	—	8	6	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	DELAWARE COUNTY, PA—Con.												
	Manufacturing—Con.												
323	Printing & related support activities.....	2	84	14	898	26 515	698	1 195	17 351	114 271	56 967	171 347	D
3231	Printing & related support activities.....	2	84	14	898	26 515	698	1 195	17 351	114 271	56 967	171 347	D
32311	Printing.....	2	76	13	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	1	42	8	538	17 321	428	728	11 878	92 662	44 478	137 166	1 548
324	Petroleum & coal products mfg	—	9	5	g	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	—	9	5	g	D	D	D	D	D	D	D	D
32411	Petroleum refineries	—	3	3	g	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	—	3	3	g	D	D	D	D	D	D	D	D
325	Chemical mfg	1	26	14	707	32 426	401	742	14 035	186 635	273 968	450 912	29 015
326	Plastics & rubber products mfg	2	20	7	1 027	38 606	679	1 519	24 524	272 745	114 364	386 183	16 656
3261	Plastics product mfg	2	17	6	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	—	10	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	96	26	2 714	88 491	2 093	3 727	53 125	196 858	109 781	305 421	11 745
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2	43	10	f	D	D	D	D	D	D	D	6 779
33271	Machine shops	3	39	8	573	23 625	459	855	15 526	39 727	19 021	59 245	D
332710	Machine shops	3	39	8	573	23 625	459	855	15 526	39 727	19 021	59 245	D
3329	Other fabricated metal product mfg	1	8	3	985	26 423	796	1 261	16 852	52 407	35 376	85 302	D
33299	All other fabricated metal product mfg	1	7	3	f	D	D	D	D	D	D	D	D
332998	Enameled iron & metal sanitary ware mfg ...	—	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	2	35	8	568	26 987	333	682	12 406	57 134	46 574	96 546	D
334	Computer & electronic product mfg	6	31	13	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	14	8	6 327	365 371	3 051	6 612	138 831	491 203	712 783	979 062	19 757
3364	Aerospace product & parts mfg	—	4	4	i	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	4	4	i	D	D	D	D	D	D	D	D
336411	Aircraft mfg	—	2	2	i	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	2	61	7	735	22 788	497	851	10 907	63 206	33 134	96 284	D
	ELK COUNTY, PA												
31-33	Manufacturing	—	130	56	8 338	288 024	6 616	14 204	208 788	668 377	713 134	1 393 273	78 444
322	Paper mfg	—	2	2	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
332	Fabricated metal product mfg	—	58	23	3 422	98 386	2 866	5 937	73 977	194 437	122 544	319 196	15 519
3321	Forging & stamping	—	16	12	1 895	52 668	1 609	3 564	40 838	109 226	81 612	191 213	8 644
33211	Forging & stamping	—	16	12	1 895	52 668	1 609	3 564	40 838	109 226	81 612	191 213	8 644
332117	Powder metallurgy part mfg	—	13	11	1 843	51 341	1 573	3 505	39 939	107 646	78 630	186 628	8 059
3326	Spring & wire product mfg ..	—	4	2	f	D	D	D	D	D	D	D	D
33261	Spring & wire product mfg	—	4	2	f	D	D	D	D	D	D	D	D
332618	Other fabricated wire product mfg	—	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	—	22	6	525	16 240	418	805	12 517	40 217	20 613	61 973	3 724

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ELK COUNTY, PA— Con. Manufacturing— Con.												
335	Electrical equipment, appliance, & component mfg	—	8	7	1 986	87 292	1 564	3 736	64 218	258 242	248 336	511 208	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
3359	Other electrical equipment & component mfg	—	7	6	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	—	6	5	g	D	D	D	D	D	D	D	40 686
335991	Carbon & graphite product mfg	—	6	5	g	D	D	D	D	D	D	D	40 686
	ERIE COUNTY, PA												
31-33	Manufacturing	—	570	253	32 813	1 142 349	24 172	53 363	739 324	3 128 326	2 621 289	5 779 337	202 249
311	Food mfg	3	26	10	1 400	31 715	910	1 951	20 913	93 678	127 145	220 813	14 022
322	Paper mfg	—	5	3	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
326	Plastics & rubber products mfg	1	64	47	5 734	162 213	4 607	9 036	106 115	415 630	348 918	762 787	42 821
3261	Plastics product mfg	1	58	41	5 061	136 961	4 162	8 093	91 728	343 145	317 060	658 936	39 082
32619	Other plastics product mfg	—	48	34	4 528	117 829	3 756	7 372	82 444	291 023	243 999	533 546	33 888
326199	All other plastics product mfg	—	48	34	4 528	117 829	3 756	7 372	82 444	291 023	243 999	533 546	33 888
3262	Rubber product mfg	—	6	6	673	25 252	445	943	14 387	72 485	31 858	103 851	3 739
32629	Other rubber product mfg	—	4	4	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	19	13	1 942	67 085	1 438	3 116	46 379	150 753	109 175	257 148	11 997
3315	Foundries	—	15	9	1 148	40 189	950	1 994	30 609	98 158	67 539	165 425	8 070
33151	Ferrous metal foundries ..	—	7	4	504	18 874	380	867	13 262	50 929	31 475	82 370	6 818
33152	Nonferrous metal foundries	—	8	5	644	21 315	570	1 127	17 347	47 229	36 064	83 055	1 252
332	Fabricated metal product mfg	—	169	69	6 416	205 713	4 766	9 636	131 171	454 640	358 453	825 669	25 883
3321	Forging & stamping	—	15	10	1 215	42 518	873	1 938	29 951	80 033	105 192	194 175	2 642
33211	Forging & stamping	—	15	10	1 215	42 518	873	1 938	29 951	80 033	105 192	194 175	2 642
3323	Architectural & structural metals mfg	1	24	11	928	27 651	711	1 372	17 139	71 695	38 562	109 539	2 180
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	65	19	1 880	53 418	1 538	3 185	38 754	105 715	59 791	165 779	8 581
33271	Machine shops	—	53	12	1 449	42 477	1 202	2 434	30 024	80 790	47 518	128 548	6 083
332710	Machine shops	—	53	12	1 449	42 477	1 202	2 434	30 024	80 790	47 518	128 548	6 083
3329	Other fabricated metal product mfg	—	21	12	1 033	36 271	622	1 285	17 735	109 556	69 480	178 241	3 775
33291	Metal valve mfg	—	12	10	927	33 172	542	1 132	15 576	102 504	66 681	168 289	3 479
332911	Industrial valve mfg ...	—	9	7	544	18 598	324	646	8 195	39 839	27 578	67 207	2 415
333	Machinery mfg	1	102	43	3 358	137 491	2 256	4 983	83 931	278 638	200 940	477 931	16 867
3335	Metalworking machinery mfg	1	64	27	1 693	80 503	1 303	2 975	54 921	144 737	101 855	246 437	8 965
33351	Metalworking machinery mfg	1	64	27	1 693	80 503	1 303	2 975	54 921	144 737	101 855	246 437	8 965
333511	Industrial mold mfg ...	—	37	20	1 125	57 425	930	2 250	41 948	100 322	49 629	149 323	7 059
3339	Other general-purpose machinery mfg	—	18	9	1 104	37 036	604	1 323	18 504	89 882	66 022	153 889	4 572
33399	All other general-purpose machinery mfg	—	10	6	840	29 291	457	984	14 748	72 469	54 828	125 131	3 736
333999	All other miscellaneous general-purpose machinery mfg	—	5	4	633	25 441	324	732	12 870	64 338	50 682	112 819	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ERIE COUNTY, PA— Con. Manufacturing— Con.												
334	Computer & electronic product mfg	1	16	11	1 578	48 567	1 049	1 908	23 447	105 730	72 244	180 936	5 472
3344	Semiconductor & other electronic component mfg	3	13	8	1 016	22 975	731	1 210	11 397	52 061	40 168	94 641	D
33441	Semiconductor & other electronic component mfg	3	13	8	1 016	22 975	731	1 210	11 397	52 061	40 168	94 641	D
3345	Navigational, measuring, medical, & control instruments mfg	—	2	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	—	2	2	f	D	D	D	D	D	D	D	D
334514	Totalizing fluid meter & counting device mfg .	—	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	1	17	9	554	14 926	418	709	9 335	31 311	23 346	54 344	641
336	Transportation equipment mfg	—	11	5	i	D	D	D	D	D	D	D	50 944
3365	Railroad rolling stock mfg ..	—	1	1	i	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	—	1	1	i	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	—	1	1	i	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	—	15	8	695	16 552	567	1 114	10 851	26 245	24 813	51 249	743
339	Miscellaneous mfg	—	31	13	1 650	54 472	965	1 971	25 979	101 584	51 809	165 482	5 156
3391	Medical equipment & supplies mfg	—	15	3	1 008	40 609	469	975	17 545	72 310	30 573	114 932	D
33911	Medical equipment & supplies mfg	—	15	3	1 008	40 609	469	975	17 545	72 310	30 573	114 932	D
339111	Laboratory apparatus & furniture mfg	—	1	1	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	—	16	10	642	13 863	496	996	8 434	29 274	21 236	50 550	D
31-33	FAYETTE COUNTY, PA Manufacturing	1	128	40	3 842	105 968	2 987	5 366	69 715	318 876	331 681	656 684	23 877
332	Fabricated metal product mfg	—	18	7	754	22 657	680	1 301	17 652	78 715	56 906	135 613	3 879
334	Computer & electronic product mfg	—	6	3	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	—	4	3	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	—	4	3	f	D	D	D	D	D	D	D	D
334514	Totalizing fluid meter & counting device mfg .	—	2	1	f	D	D	D	D	D	D	D	D
31-33	FRANKLIN COUNTY, PA Manufacturing	—	191	74	12 763	379 541	9 223	17 558	226 909	975 283	1 250 801	2 212 044	74 195
311	Food mfg	3	12	4	809	18 207	574	1 079	10 552	56 967	71 770	128 609	2 570
315	Apparel mfg	9	7	5	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	9	6	5	f	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg	9	2	2	f	D	D	D	D	D	D	D	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	9	1	1	f	D	D	D	D	D	D	D	D
321	Wood product mfg	3	34	6	567	12 169	435	789	8 334	25 560	31 709	57 542	1 407
323	Printing & related support activities	3	12	5	737	15 699	481	1 009	10 660	32 205	45 457	75 097	1 571
3231	Printing & related support activities	3	12	5	737	15 699	481	1 009	10 660	32 205	45 457	75 097	1 571
32311	Printing	3	9	3	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	7	6	2	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	11	5	f	D	D	D	D	D	D	D	2 985

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	FRANKLIN COUNTY, PA—Con.												
	Manufacturing—Con.												
332	Fabricated metal product mfg	-	39	19	1 586	41 001	1 236	2 340	27 736	121 547	153 634	280 377	8 010
3323	Architectural & structural metals mfg	-	11	4	657	15 920	505	886	11 259	45 828	43 009	83 267	807
333	Machinery mfg	-	16	13	5 184	198 183	3 471	6 467	108 421	407 026	536 401	932 547	36 901
3331	Agriculture, construction, & mining machinery mfg	-	3	2	h	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	-	1	1	h	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	1	1	h	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
3335	Metalworking machinery mfg	-	7	6	1 024	44 596	654	1 320	22 215	72 559	88 655	157 925	2 567
33351	Metalworking machinery mfg	-	7	6	1 024	44 596	654	1 320	22 215	72 559	88 655	157 925	2 567
335	Electrical equipment, appliance, & component mfg	-	3	2	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	3	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	D
	FULTON COUNTY, PA												
31-33	Manufacturing	-	22	6	h	D	D	D	D	D	D	D	D
333	Machinery mfg	-	3	2	h	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	1	1	h	D	D	D	D	D	D	D	D
33392	Material handling equipment mfg	-	1	1	h	D	D	D	D	D	D	D	D
333923	Overhead traveling crane, hoist, & monorail system mfg .	-	1	1	h	D	D	D	D	D	D	D	D
	GREENE COUNTY, PA												
31-33	Manufacturing	3	27	7	630	15 076	521	1 044	10 649	39 949	41 367	81 470	2 490
	HUNTINGDON COUNTY, PA												
31-33	Manufacturing	-	44	17	2 300	59 511	1 932	3 560	45 236	308 393	182 498	492 998	9 058
327	Nonmetallic mineral product mfg	-	4	1	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .	-	1	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	1	1	f	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	-	1	1	f	D	D	D	D	D	D	D	D
	INDIANA COUNTY, PA												
31-33	Manufacturing	1	88	27	3 175	98 851	2 158	4 140	61 864	152 861	160 776	344 098	9 951
326	Plastics & rubber products mfg	-	6	4	666	16 322	518	946	13 041	43 913	35 696	81 628	744
333	Machinery mfg	1	13	4	592	21 667	357	830	14 494	21 812	29 086	78 821	1 858

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
JEFFERSON COUNTY, PA													
31-33	Manufacturing	-	88	42	4 634	131 955	3 774	7 333	94 529	368 553	314 516	680 889	25 391
321	Wood product mfg	-	18	6	556	10 568	467	816	6 650	44 834	50 349	92 247	2 150
327	Nonmetallic mineral product mfg	-	8	6	g	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg	-	3	3	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	3	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
332	Fabricated metal product mfg	-	23	11	1 068	35 914	769	1 638	21 343	65 013	71 857	136 417	7 459
333	Machinery mfg	-	9	4	589	17 359	525	1 023	13 748	42 201	39 319	82 628	5 858
JUNIATA COUNTY, PA													
31-33	Manufacturing	-	57	18	2 443	61 149	2 150	4 700	44 633	204 999	84 983	290 572	7 695
311	Food mfg	-	3	2	g	D	D	D	D	D	D	D	D
3116	Meat product mfg	-	2	2	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	2	2	g	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	8	4	510	14 967	387	923	10 228	54 780	41 274	95 966	2 572
3371	Household & institutional furniture & kitchen cabinet mfg	-	8	4	510	14 967	387	923	10 228	54 780	41 274	95 966	2 572
LACKAWANNA COUNTY, PA													
31-33	Manufacturing	-	306	129	16 052	463 001	12 611	26 744	318 665	1 266 314	1 297 523	2 562 696	87 477
311	Food mfg	2	36	16	g	D	D	D	D	D	D	D	8 284
3113	Sugar & confectionery product mfg	-	4	3	f	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate	-	3	2	f	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate	-	3	2	f	D	D	D	D	D	D	D	D
3116	Meat product mfg	5	10	7	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	5	10	7	f	D	D	D	D	D	D	D	D
311612	Meat processed from carcasses	4	7	5	f	D	D	D	D	D	D	D	D
315	Apparel mfg	4	24	17	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	4	21	14	g	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	5	18	13	g	D	D	D	D	D	D	D	D
315211	Men's & boys' cut & sew apparel contractors	5	12	12	g	D	D	D	D	D	D	D	D
321	Wood product mfg	1	16	7	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg	2	10	5	f	D	D	D	D	D	D	D	D
322	Paper mfg	-	5	4	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	31	10	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	31	10	g	D	D	D	D	D	D	D	D
32311	Printing	-	30	10	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	-	14	5	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	21	16	1 335	35 235	1 074	2 097	23 151	148 949	137 438	280 955	D
3261	Plastics product mfg	-	19	15	g	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg	-	6	6	587	17 881	449	867	11 090	73 946	103 357	172 232	D
326113	Unsupported plastics film & sheet (except packaging) mfg	-	5	5	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	9	7	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	-	9	7	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	6	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	41	15	g	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LACKAWANNA COUNTY, PA—Con.													
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg.....	-	8	3	h	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg.....	-	2	1	g	D	D	D	D	D	D	D	D
334411	Electron tube mfg....	-	1	1	g	D	D	D	D	D	D	D	D
3346	Mfg & reproducing magnetic & optical media..	-	2	1	g	D	D	D	D	D	D	D	D
33461	Mfg & reproducing magnetic & optical media.....	-	2	1	g	D	D	D	D	D	D	D	D
334612	Prerecorded CD (except software), tape, & record reproducing.....	-	1	1	g	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg.....	-	10	4	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg.....	-	6	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	2	28	9	g	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg.....	3	12	4	853	21 421	541	1 332	11 291	44 772	37 716	81 828	D
33911	Medical equipment & supplies mfg.....	3	12	4	853	21 421	541	1 332	11 291	44 772	37 716	81 828	D
339113	Surgical appliance & supplies mfg.....	1	4	3	f	D	D	D	D	D	D	D	D
LANCASTER COUNTY, PA													
31-33	Manufacturing	-	918	370	52 908	1 752 047	40 403	79 651	1 178 496	5 658 468	5 052 520	10 585 384	443 196
311	Food mfg.....	1	110	53	9 007	281 870	6 462	13 467	190 112	1 249 595	1 399 364	2 616 818	73 957
3111	Animal food mfg.....	4	17	6	618	21 444	172	329	4 499	46 285	211 277	255 038	3 087
31111	Animal food mfg.....	4	17	6	618	21 444	172	329	4 499	46 285	211 277	255 038	3 087
311119	Other animal food mfg.....	4	17	6	618	21 444	172	329	4 499	46 285	211 277	255 038	3 087
3112	Grain & oilseed milling....	-	5	1	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal mfg....	-	1	1	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg..	-	1	1	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg.....	-	10	5	g	D	D	D	D	D	D	D	18 217
31132	Chocolate & confectionery mfg from cacao beans.....	-	2	2	f	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans...	-	2	2	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg.....	-	5	3	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg...	-	5	3	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg.....	-	9	5	1 294	39 017	784	1 652	23 311	152 402	234 185	381 643	15 362
31152	Ice cream & frozen dessert mfg.....	-	4	3	f	D	D	D	D	D	D	D	D
311520	Ice cream & frozen dessert mfg.....	-	4	3	f	D	D	D	D	D	D	D	D
3116	Meat product mfg.....	-	11	7	1 546	36 623	1 183	2 643	26 375	60 214	157 223	216 946	4 044
31161	Animal slaughtering & processing.....	-	11	7	1 546	36 623	1 183	2 643	26 375	60 214	157 223	216 946	4 044
311615	Poultry processing.....	-	2	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg.....	-	29	8	1 317	43 497	981	1 861	34 352	174 749	75 958	253 674	7 021
31182	Cookie, cracker, & pasta mfg.....	-	5	2	g	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg..	-	3	2	g	D	D	D	D	D	D	D	D
3119	Other food mfg.....	1	25	18	1 509	33 190	1 069	1 715	19 451	116 188	217 012	333 382	8 522
31191	Snack food mfg.....	-	15	11	f	D	D	D	D	D	D	D	D
311919	Other snack food mfg..	-	15	11	f	D	D	D	D	D	D	D	D
31199	All other food mfg.....	1	8	6	599	13 676	438	720	7 698	48 608	164 707	213 301	D
313	Textile mills.....	3	8	6	718	19 184	597	1 160	13 604	46 730	30 901	77 512	D
3132	Fabric mills.....	1	6	5	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	LANCASTER COUNTY, PA—Con.												
	Manufacturing—Con.												
315	Apparel mfg	—	39	20	2 897	60 262	2 396	4 710	42 372	119 492	141 244	253 635	2 582
3151	Apparel knitting mills	—	3	3	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	1	32	15	1 476	25 662	1 301	2 553	20 681	51 890	47 162	98 790	742
31521	Cut & sew apparel contractors	6	17	6	598	11 315	524	1 160	9 307	16 688	1 723	18 371	229
315212	Women's, girls', & infants' cut & sew apparel contractors ..	6	15	4	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	—	8	5	607	10 212	540	951	8 166	28 329	42 129	69 945	207
3159	Apparel accessories & other apparel mfg	—	4	2	f	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	—	4	2	f	D	D	D	D	D	D	D	D
315991	Hat, cap, & millinery mfg	—	2	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg	—	63	17	2 491	64 298	1 963	3 396	43 345	135 771	171 329	307 009	6 044
3219	Other wood product mfg ...	—	51	14	2 360	61 251	1 865	3 195	41 301	129 868	150 033	279 893	5 302
32191	Millwork	—	12	5	1 130	29 094	857	1 329	19 657	49 669	41 400	90 561	3 431
321911	Wood window & door mfg	—	5	3	965	25 993	760	1 163	17 715	46 135	34 383	80 003	D
32199	All other wood product mfg	—	32	6	1 100	29 239	893	1 660	19 429	73 457	100 478	174 448	1 376
321991	Manufactured home (mobile home) mfg ...	—	5	5	906	24 913	731	1 357	16 219	63 293	85 604	149 233	871
322	Paper mfg	—	13	11	885	30 643	629	1 337	16 174	79 577	104 577	184 988	4 720
3222	Converted paper product mfg	—	13	11	885	30 643	629	1 337	16 174	79 577	104 577	184 988	4 720
32221	Paperboard container mfg	—	7	6	516	19 786	347	693	9 081	49 853	71 277	121 555	D
323	Printing & related support activities	—	95	42	6 833	247 405	5 491	10 873	179 908	652 431	448 137	1 098 060	61 469
3231	Printing & related support activities	—	95	42	6 833	247 405	5 491	10 873	179 908	652 431	448 137	1 098 060	61 469
32311	Printing	—	79	34	6 392	234 341	5 177	10 312	172 100	629 688	443 909	1 071 110	59 568
323110	Commercial lithographic printing ...	—	41	19	4 784	181 673	3 931	7 703	133 660	504 358	336 343	837 012	50 500
323117	Book printing	1	5	4	596	19 881	497	1 100	15 830	42 490	16 448	58 914	2 594
325	Chemical mfg	—	29	12	2 255	96 353	1 625	2 793	61 757	1 025 984	199 891	1 187 310	63 379
3254	Pharmaceutical & medicine mfg	—	6	5	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	—	6	5	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	—	4	3	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	31	23	4 281	169 493	3 702	7 665	134 104	473 231	406 031	861 881	82 105
3261	Plastics product mfg	—	23	18	3 878	153 046	3 398	6 950	123 803	429 359	378 010	790 021	78 746
32614	Polystyrene foam product mfg	—	1	1	g	D	D	D	D	D	D	D	D
326140	Polystyrene foam product mfg	—	1	1	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	—	14	9	2 438	114 505	2 060	4 215	90 380	377 192	211 474	571 583	D
326192	Resilient floor covering mfg	—	1	1	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	2	12	7	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	26	10	1 329	47 340	1 124	2 113	37 908	97 024	95 193	189 753	19 052
3273	Cement & concrete product mfg	—	15	8	655	21 112	545	1 055	15 994	33 474	55 620	86 435	D
3279	Other nonmetallic mineral product mfg	—	6	1	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg ...	—	6	1	f	D	D	D	D	D	D	D	D
327993	Mineral wool mfg	—	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	26	18	2 921	105 858	2 316	4 931	75 504	251 979	534 418	766 803	47 575
3313	Alumina & aluminum production & processing ..	—	3	3	1 090	51 286	828	1 700	36 291	118 033	404 599	502 862	D
33131	Alumina & aluminum production & processing	—	3	3	1 090	51 286	828	1 700	36 291	118 033	404 599	502 862	D
331315	Aluminum sheet, plate, & foil mfg	—	1	1	g	D	D	D	D	D	D	D	D
3315	Foundries	—	19	11	1 416	38 175	1 210	2 619	28 923	78 666	34 914	113 611	3 043
33151	Ferrous metal foundries ..	—	7	5	922	24 465	787	1 764	19 372	47 797	19 331	67 131	858
331511	Iron foundries	—	6	4	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LANCASTER COUNTY, PA—Con.													
31-33	Manufacturing—Con.												
332	Fabricated metal product mfg	-	154	60	7 280	235 346	5 656	11 102	147 387	540 152	411 737	938 876	33 081
3323	Architectural & structural metals mfg	-	34	18	2 075	68 258	1 632	3 033	43 495	148 655	142 978	284 008	6 938
33231	Plate work & fabricated structural product mfg . . .	-	17	10	1 286	41 994	1 045	1 714	26 289	93 065	80 186	165 854	3 623
332312	Fabricated structural metal mfg	-	13	8	1 142	37 181	931	1 507	23 035	81 902	72 495	147 169	3 430
33232	Ornamental & architectural metal products mfg	-	17	8	789	26 264	587	1 319	17 206	55 590	62 792	118 154	3 315
332322	Sheet metal work mfg	-	10	5	645	22 231	477	1 063	14 511	44 680	52 831	97 291	2 557
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	68	19	1 363	42 379	1 083	2 123	27 509	72 554	40 066	112 415	7 159
33271	Machine shops	1	51	9	593	18 046	440	783	11 630	30 210	14 076	44 600	1 965
332710	Machine shops	1	51	9	593	18 046	440	783	11 630	30 210	14 076	44 600	1 965
33272	Turned product & screw, nut, & bolt mfg	-	17	10	770	24 333	643	1 340	15 879	42 344	25 990	67 815	5 194
332721	Precision turned product mfg	-	14	8	692	21 604	587	1 215	14 144	39 039	21 454	60 175	D
3329	Other fabricated metal product mfg	-	15	8	2 535	87 145	1 958	3 936	52 733	235 745	153 651	385 481	14 209
33291	Metal valve mfg	-	2	2	g	D	D	D	D	D	D	D	D
332919	Other metal valve & pipe fitting mfg	-	1	1	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	13	6	g	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	1	77	29	3 125	122 120	2 252	4 100	80 523	268 509	250 855	515 601	13 394
3331	Agriculture, construction, & mining machinery mfg	-	23	6	1 185	49 074	989	1 674	40 898	75 759	90 897	162 174	3 836
33311	Agricultural implement mfg	-	20	3	1 090	45 986	934	1 550	39 209	69 150	84 906	149 631	2 947
333111	Farm machinery & equipment mfg	-	18	3	g	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	7	6	569	21 454	300	639	7 855	80 397	83 799	160 928	2 947
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	7	6	569	21 454	300	639	7 855	80 397	83 799	160 928	2 947
3339	Other general-purpose machinery mfg	1	16	8	617	21 106	458	845	14 397	57 001	38 128	97 276	2 331
334	Computer & electronic product mfg	-	23	13	2 253	86 083	1 427	2 764	39 565	289 543	179 697	476 711	11 275
3342	Communications equipment mfg	-	3	3	f	D	D	D	D	D	D	D	4 564
3344	Semiconductor & other electronic component mfg	1	11	8	1 199	48 794	952	1 911	28 254	135 606	65 359	205 376	4 845
33441	Semiconductor & other electronic component mfg	1	11	8	1 199	48 794	952	1 911	28 254	135 606	65 359	205 376	4 845
334417	Electronic connector mfg	-	3	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	16	8	1 866	52 761	1 234	2 602	34 493	136 543	256 834	393 448	9 503
3359	Other electrical equipment & component mfg	-	7	5	1 371	41 179	874	1 932	29 077	124 064	220 762	345 840	8 036
33592	Communication & energy wire & cable mfg	-	2	2	f	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	28	10	1 390	41 663	1 008	1 906	25 017	98 244	260 032	359 349	3 265
3362	Motor vehicle body & trailer mfg	-	12	6	775	22 772	590	1 044	14 227	41 052	60 117	103 500	475
33621	Motor vehicle body & trailer mfg	-	12	6	775	22 772	590	1 044	14 227	41 052	60 117	103 500	475

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	LANCASTER COUNTY, PA—Con.												
	Manufacturing—Con.												
337	Furniture & related product mfg	2	86	17	1 982	55 967	1 537	2 920	36 961	106 948	87 129	194 533	3 218
3371	Household & institutional furniture & kitchen cabinet mfg	3	79	13	1 672	46 118	1 288	2 455	31 716	84 993	65 259	150 737	2 402
33711	Wood kitchen cabinet & counter top mfg	2	43	9	1 009	30 451	749	1 563	20 673	51 420	29 695	81 240	1 222
337110	Wood kitchen cabinet & counter top mfg ...	2	43	9	1 009	30 451	749	1 563	20 673	51 420	29 695	81 240	1 222
33712	Household & institutional furniture mfg	4	36	4	663	15 667	539	892	11 043	33 573	35 564	69 497	1 180
339	Miscellaneous mfg	2	59	11	792	22 581	581	1 183	12 350	49 763	28 223	79 264	2 573
	LAWRENCE COUNTY, PA												
31-33	Manufacturing	1	169	59	5 092	156 359	3 740	7 473	96 429	455 482	624 844	1 076 616	51 157
326	Plastics & rubber products mfg	1	9	5	616	13 941	485	976	9 483	28 136	30 356	58 210	2 480
3261	Plastics product mfg	1	8	5	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	8	7	643	29 330	431	914	17 115	107 550	175 320	279 382	D
332	Fabricated metal product mfg	1	51	18	1 348	45 779	975	1 928	28 182	118 244	109 592	226 898	14 940
335	Electrical equipment, appliance, & component mfg	-	3	3	f	D	D	D	D	D	D	D	D
	LEBANON COUNTY, PA												
31-33	Manufacturing	1	199	90	9 376	254 281	7 154	14 487	173 251	681 290	1 023 351	1 710 286	45 546
311	Food mfg	4	20	10	g	D	D	D	D	D	D	D	D
3116	Meat product mfg	5	9	7	1 550	31 799	1 336	2 714	25 216	107 875	275 811	385 700	D
31161	Animal slaughtering & processing	5	9	7	1 550	31 799	1 336	2 714	25 216	107 875	275 811	385 700	D
311615	Poultry processing	-	3	3	g	D	D	D	D	D	D	D	2 770
315	Apparel mfg	6	15	9	f	D	D	D	D	D	D	D	395
3152	Cut & sew apparel mfg	6	11	7	f	D	D	D	D	D	D	D	331
321	Wood product mfg	-	9	2	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	-	7	1	f	D	D	D	D	D	D	D	D
32191	Millwork	-	4	1	f	D	D	D	D	D	D	D	D
321912	Cut stock, resawing lumber, & planing	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	1	18	6	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	1	18	6	f	D	D	D	D	D	D	D	D
32311	Printing	1	16	6	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	6	3	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	10	8	972	32 456	776	1 603	23 284	101 884	168 255	271 256	D
3315	Foundries	-	8	6	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries .	-	7	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	39	17	f	D	D	D	D	D	D	D	D
333	Machinery mfg	1	20	9	656	22 319	369	747	10 445	62 741	54 820	117 341	4 277
337	Furniture & related product mfg	1	14	7	f	D	D	D	D	D	D	D	D
3371	Household & institutional furniture & kitchen cabinet mfg	1	14	7	f	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet & counter top mfg	2	9	6	f	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet & counter top mfg ...	2	9	6	f	D	D	D	D	D	D	D	D

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)					
LEHIGH COUNTY, PA														
31-33	Manufacturing	-	504	185	23 277	877 178	15 685	30 070	485 245	5 212 219	2 471 222	7 690 056	308 485	
311	Food mfg	-	31	12	g	D	D	D	D	D	D	D	D	
3115	Dairy product mfg	-	4	3	g	D	D	D	D	D	D	D	D	
31151	Dairy product (except frozen) mfg	-	4	3	g	D	D	D	D	D	D	D	D	
311513	Cheese mfg	-	2	2	f	D	D	D	D	D	D	D	D	
312	Beverage & tobacco product mfg	-	6	4	f	D	D	D	D	D	D	D	D	
3121	Beverage mfg	-	6	4	f	D	D	D	D	D	D	D	D	
313	Textile mills	5	19	12		787	20 382	671	1 367	14 141	46 601	41 407	87 728	2 718
314	Textile product mills	4	15	3	f		D	D	D	D	D	D	D	
315	Apparel mfg	2	86	28		1 742	23 067	1 531	2 564	18 330	61 519	33 622	95 330	1 741
3152	Cut & sew apparel mfg	2	77	23	g		D	D	D	D	D	D	D	
31521	Cut & sew apparel contractors	5	61	18		915	9 160	856	1 230	8 136	17 716	3 296	20 959	D
315212	Women's, girls' & infants' cut & sew apparel contractors ..	5	59	17	f		D	D	D	D	D	D	D	
322	Paper mfg	-	8	6	f		D	D	D	D	D	D	D	
3222	Converted paper product mfg	-	8	6	f		D	D	D	D	D	D	D	
323	Printing & related support activities	2	57	11	f		D	D	D	D	D	D	D	
3231	Printing & related support activities	2	57	11	f		D	D	D	D	D	D	D	
32311	Printing	2	54	10	f		D	D	D	D	D	D	D	
326	Plastics & rubber products mfg	1	28	14		1 393	47 814	1 120	2 241	30 625	116 316	124 665	235 832	D
3261	Plastics product mfg	1	26	14	g		D	D	D	D	D	D	D	
32619	Other plastics product mfg	1	15	8		1 008	37 395	811	1 650	23 794	91 414	97 927	184 722	D
326199	All other plastics product mfg	3	13	6	f		D	D	D	D	D	D	D	
331	Primary metal mfg	3	9	6		802	25 211	652	1 385	17 963	80 673	74 790	152 727	3 986
3315	Foundries	-	5	4	f		D	D	D	D	D	D	D	
332	Fabricated metal product mfg	1	67	28		2 218	80 821	1 434	2 881	42 828	200 073	136 932	330 819	10 777
3329	Other fabricated metal product mfg	1	10	8		753	30 188	401	795	12 905	75 463	33 361	105 948	4 080
33291	Metal valve mfg	1	6	6		627	26 727	315	617	10 829	70 257	28 376	95 524	D
332919	Other metal valve & pipe fitting mfg	1	3	3	f		D	D	D	D	D	D	D	
333	Machinery mfg	-	31	20		2 190	91 004	1 305	2 364	43 070	342 629	235 176	585 116	D
3332	Industrial machinery mfg ..	1	11	8		765	31 492	431	882	14 386	58 790	112 039	178 408	D
33329	Other industrial machinery mfg	1	10	8	f		D	D	D	D	D	D	D	
3339	Other general-purpose machinery mfg	-	9	6		795	34 199	458	686	14 217	165 256	101 992	268 206	4 694
33399	All other general-purpose machinery mfg	-	7	5	f		D	D	D	D	D	D	D	
333996	Fluid power pump & motor mfg	-	1	1	f		D	D	D	D	D	D	D	
334	Computer & electronic product mfg	-	20	9	h		D	D	D	D	D	D	D	
3344	Semiconductor & other electronic component mfg	-	7	4	g		D	D	D	D	D	D	D	
33441	Semiconductor & other electronic component mfg	-	7	4	g		D	D	D	D	D	D	D	
334413	Semiconductor & related device mfg ...	-	4	4	g		D	D	D	D	D	D	D	
335	Electrical equipment, appliance, & component mfg	1	11	3	f		D	D	D	D	D	D	D	
3359	Other electrical equipment & component mfg	-	3	1	f		D	D	D	D	D	D	D	
33593	Wiring device mfg	-	1	1	f		D	D	D	D	D	D	D	
335931	Current-carrying wiring device mfg	-	1	1	f		D	D	D	D	D	D	D	
336	Transportation equipment mfg	-	12	5	g		D	D	D	D	D	D	D	
3361	Motor vehicle mfg	-	1	1	g		D	D	D	D	D	D	D	
33612	Heavy duty truck mfg ...	-	1	1	g		D	D	D	D	D	D	D	
336120	Heavy duty truck mfg .	-	1	1	g		D	D	D	D	D	D	D	

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LEHIGH COUNTY, PA—Con.													
31-33	Manufacturing—Con.												
337	Furniture & related product mfg	2	18	5	757	29 572	496	1 062	14 164	79 743	41 730	122 248	D
3371	Household & institutional furniture & kitchen cabinet mfg	1	13	3	f	D	D	D	D	D	D	D	D
33712	Household & institutional furniture mfg	1	10	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	—	37	6	2 407	75 858	1 465	2 559	33 285	194 073	76 906	264 960	10 925
3391	Medical equipment & supplies mfg	—	17	2	g	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	—	17	2	g	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg	—	3	1	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg	2	20	4	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	2	5	4	f	D	D	D	D	D	D	D	D
LUZERNE COUNTY, PA													
31-33	Manufacturing	1	408	171	24 362	700 787	18 860	38 096	487 232	2 350 176	2 177 379	4 501 055	272 208
311	Food mfg	—	40	14	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	—	21	7	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	—	20	6	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries	—	7	6	f	D	D	D	D	D	D	D	D
313	Textile mills	5	13	10	1 150	27 948	927	2 086	19 583	63 155	50 358	111 188	D
3132	Fabric mills	4	6	4	601	14 930	468	1 078	9 758	32 561	35 543	65 810	D
315	Apparel mfg	2	28	14	2 192	47 539	2 067	3 557	43 027	127 301	140 606	265 228	D
3152	Cut & sew apparel mfg	2	25	13	g	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	9	16	8	g	D	D	D	D	D	D	D	D
315212	Women's, girls', & infants' cut & sew apparel contractors	9	14	7	g	D	D	D	D	D	D	D	D
322	Paper mfg	1	18	10	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	1	18	10	f	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	—	9	5	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	—	46	14	1 836	55 126	1 431	2 905	38 945	135 355	66 713	202 362	15 635
3231	Printing & related support activities	—	46	14	1 836	55 126	1 431	2 905	38 945	135 355	66 713	202 362	15 635
32311	Printing	—	44	14	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	—	28	8	f	D	D	D	D	D	D	D	D
323117	Book printing	—	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	—	16	12	2 282	63 858	1 855	4 077	47 243	249 711	345 366	596 236	15 618
3261	Plastics product mfg	—	16	12	2 282	63 858	1 855	4 077	47 243	249 711	345 366	596 236	15 618
32611	Unsupported plastics film, sheet, & bag mfg	—	5	4	1 229	37 560	997	2 261	28 834	130 549	186 180	322 764	D
326111	Unsupported plastics bag mfg	—	1	1	f	D	D	D	D	D	D	D	D
326113	Unsupported plastics film & sheet (except packaging) mfg	—	4	3	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	—	8	5	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	—	8	5	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	—	23	5	h	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg	—	4	3	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	—	4	3	g	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	—	2	2	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	6	4	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LUZERNE COUNTY, PA													
—Con.													
31-33	Manufacturing—												
	Con.												
332	Fabricated metal product mfg	—	74	30	3 198	85 638	2 331	4 620	52 723	256 942	196 943	455 353	14 453
3321	Forging & stamping	—	4	4	528	19 329	420	926	11 829	54 422	60 846	116 606	D
33211	Forging & stamping	—	4	4	528	19 329	420	926	11 829	54 422	60 846	116 606	D
3326	Spring & wire product mfg .	—	6	6	1 421	31 519	1 042	2 095	20 803	95 725	79 769	174 631	D
33261	Spring & wire product mfg	—	6	6	1 421	31 519	1 042	2 095	20 803	95 725	79 769	174 631	D
332618	Other fabricated wire product mfg	—	6	6	1 421	31 519	1 042	2 095	20 803	95 725	79 769	174 631	D
333	Machinery mfg	—	29	17	g	D	D	D	D	D	D	D	10 226
3333	Commercial & service industry machinery mfg ..	—	4	3	f	D	D	D	D	D	D	D	D
33331	Commercial & service industry machinery mfg	—	4	3	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
3339	Other general-purpose machinery mfg	—	11	7	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	7	12	6	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	9	3	2	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	9	3	2	f	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
336	Transportation equipment mfg	—	11	6	f	D	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	—	6	4	f	D	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	6	4	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	7	15	4	601	15 921	475	956	12 369	40 880	21 301	63 158	D
339	Miscellaneous mfg	1	30	8	1 212	28 416	740	1 377	12 827	63 279	88 867	153 096	D
3391	Medical equipment & supplies mfg	—	13	4	513	13 116	267	529	4 526	25 077	61 299	85 544	D
33911	Medical equipment & supplies mfg	—	13	4	513	13 116	267	529	4 526	25 077	61 299	85 544	D
3399	Other miscellaneous mfg ..	1	17	4	699	15 300	473	848	8 301	38 202	27 568	67 552	D
LYCOMING COUNTY, PA													
31-33	Manufacturing	—	208	95	12 982	370 226	9 691	18 771	229 917	1 189 394	1 262 012	2 460 365	60 042
311	Food mfg	—	12	8	1 021	34 711	834	1 825	24 417	243 643	186 243	462 982	6 683
313	Textile mills	—	2	2	f	D	D	D	D	D	D	D	D
3132	Fabric mills	—	2	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg	—	11	6	1 069	16 731	979	1 904	12 946	41 665	83 474	125 408	624
3152	Cut & sew apparel mfg . . .	—	10	6	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	—	3	2	f	D	D	D	D	D	D	D	212
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	—	2	2	f	D	D	D	D	D	D	D	D
321	Wood product mfg	2	26	10	1 019	24 856	827	1 473	17 037	58 383	75 751	133 714	2 813
3219	Other wood product mfg ...	—	11	4	583	13 455	461	765	8 950	30 095	37 714	67 539	738
326	Plastics & rubber products mfg	—	17	11	1 024	25 347	755	1 487	15 709	127 333	100 835	225 760	11 356
3261	Plastics product mfg	—	13	9	845	21 155	606	1 184	12 666	100 480	93 916	192 712	D
32619	Other plastics product mfg	—	8	5	653	16 835	453	882	9 698	64 308	41 178	105 703	5 872
326199	All other plastics product mfg	—	8	5	653	16 835	453	882	9 698	64 308	41 178	105 703	5 872
331	Primary metal mfg	—	4	4	768	27 495	584	1 305	19 310	79 438	201 535	286 090	3 842
332	Fabricated metal product mfg	—	38	14	1 320	46 349	849	1 393	20 865	78 250	76 535	150 925	4 067

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	LYCOMING COUNTY, PA—Con.												
	Manufacturing—Con.												
333	Machinery mfg	-	13	3	777	28 286	311	631	8 839	66 500	44 671	99 225	4 521
3332	Industrial machinery mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333291	Paper industry machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	8	4	861	25 918	646	1 227	18 640	66 253	59 314	124 457	2 356
335	Electrical equipment, appliance, & component mfg	-	3	2	f	D	D	D	D	D	D	D	D
3352	Household appliance mfg . .	-	1	1	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg	-	1	1	f	D	D	D	D	D	D	D	D
335212	Household vacuum cleaner mfg	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	5	3	698	33 778	516	1 002	21 659	55 073	126 196	175 764	3 699
337	Furniture & related product mfg	-	14	7	1 487	33 371	1 141	2 227	24 620	105 766	82 654	185 672	4 192
3371	Household & institutional furniture & kitchen cabinet mfg	-	9	4	561	11 703	387	586	5 055	22 160	29 215	52 094	D
33712	Household & institutional furniture mfg	-	7	4	f	D	D	D	D	D	D	D	D
3379	Other furniture related product mfg	-	2	1	f	D	D	D	D	D	D	D	D
33792	Blind & shade mfg	-	2	1	f	D	D	D	D	D	D	D	D
337920	Blind & shade mfg	-	2	1	f	D	D	D	D	D	D	D	D
	MC KEAN COUNTY, PA												
31-33	Manufacturing	-	67	31	5 346	158 723	4 266	8 397	116 906	455 920	421 532	875 676	40 608
321	Wood product mfg	-	14	5	783	21 245	666	1 234	14 796	60 911	96 464	154 754	D
327	Nonmetallic mineral product mfg	-	7	3	1 061	38 284	950	1 735	33 426	112 827	61 646	176 794	12 875
3272	Glass & glass product mfg .	-	2	2	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	10	6	780	24 652	521	1 128	15 816	57 202	37 856	95 119	D
339	Miscellaneous mfg	-	9	4	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg . .	-	9	4	g	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	-	4	1	g	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg	-	2	1	g	D	D	D	D	D	D	D	D
	MERCER COUNTY, PA												
31-33	Manufacturing	1	198	77	10 457	326 802	7 788	15 622	220 942	990 406	1 474 465	2 440 846	75 673
311	Food mfg	7	19	8	833	20 216	553	848	9 679	63 700	148 452	212 156	5 435
326	Plastics & rubber products mfg	-	12	7	531	11 728	414	781	7 893	29 936	29 826	59 393	3 075
3261	Plastics product mfg	-	12	7	531	11 728	414	781	7 893	29 936	29 826	59 393	3 075
331	Primary metal mfg	-	12	10	2 428	95 253	1 980	4 154	70 569	430 968	610 543	1 018 474	13 978
3312	Steel product mfg from purchased steel	-	7	6	g	D	D	D	D	D	D	D	D
33121	Iron & steel pipes & tubes mfg from purchased steel	-	6	6	1 693	67 373	1 421	3 029	52 610	332 138	469 153	784 336	6 368
331210	Iron & steel pipes & tubes mfg from purchased steel	-	6	6	1 693	67 373	1 421	3 029	52 610	332 138	469 153	784 336	6 368
332	Fabricated metal product mfg	-	45	21	2 675	72 661	1 841	3 801	53 787	174 224	267 511	440 546	31 297
3329	Other fabricated metal product mfg	-	7	2	g	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	7	2	g	D	D	D	D	D	D	D	D
332999	All other miscellaneous fabricated metal product mfg	-	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 ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MERCER COUNTY, PA													
—Con.													
31-33	Manufacturing—												
	Con.												
333	Machinery mfg	—	12	4	1 051	36 822	832	1 680	26 466	121 676	79 215	203 579	4 641
3339	Other general-purpose machinery mfg	—	4	3	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	4	11	6	528	17 718	299	593	6 934	35 413	31 121	65 511	5 661
336	Transportation equipment mfg	—	11	7	1 247	42 909	1 104	2 363	29 713	72 751	234 656	305 362	6 998
3365	Railroad rolling stock mfg ..	—	2	2	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	—	2	2	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	—	2	2	f	D	D	D	D	D	D	D	D
MIFFLIN COUNTY, PA													
31-33	Manufacturing	—	72	25	5 373	163 121	4 406	9 031	124 256	490 985	432 265	922 664	41 915
326	Plastics & rubber products mfg	7	8	4	503	11 330	434	936	9 644	37 672	37 864	75 440	3 939
331	Primary metal mfg	—	2	2	g	D	D	D	D	D	D	D	D
3311	Iron & steel mills & ferroalloy mfg	—	1	1	f	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	—	1	1	f	D	D	D	D	D	D	D	D
331111	Iron & steel mills	—	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	9	3	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	—	1	1	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	—	1	1	f	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	—	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	—	4	2	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg	—	1	1	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	—	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	—	1	1	f	D	D	D	D	D	D	D	D
MONROE COUNTY, PA													
31-33	Manufacturing	1	113	32	4 744	171 123	2 994	5 774	74 074	547 882	292 728	812 899	39 320
323	Printing & related support activities	2	20	4	509	13 662	421	767	10 491	24 620	10 658	35 692	1 992
3231	Printing & related support activities	2	20	4	509	13 662	421	767	10 491	24 620	10 658	35 692	1 992
32311	Printing	1	19	4	f	D	D	D	D	D	D	D	D
325	Chemical mfg	—	7	5	1 448	70 736	511	845	12 294	330 763	139 272	441 512	21 210
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
325414	Biological product (except diagnostic) mfg	—	2	2	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	5	26	6	818	26 270	592	1 241	14 563	45 292	21 669	67 708	6 499
339	Miscellaneous mfg	—	7	2	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	—	4	2	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	—	2	2	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 ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MONTGOMERY COUNTY, PA													
31-33	Manufacturing	1	1 398	502	67 234	2 649 478	43 314	88 786	1 434 625	11 564 582	9 044 803	20 666 642	716 622
311	Food mfg.	-	91	38	7 250	227 710	4 914	10 406	133 407	758 023	1 791 975	2 550 349	44 975
3115	Dairy product mfg.	-	11	5	f	D	D	D	D	D	D	D	2 762
31151	Dairy product (except frozen) mfg.	-	6	4	f	D	D	D	D	D	D	D	2 671
311511	Fluid milk mfg.	-	5	4	f	D	D	D	D	D	D	D	D
3116	Meat product mfg.	-	12	11	3 891	122 955	2 804	6 111	71 248	297 210	1 408 637	1 705 142	25 921
31161	Animal slaughtering & processing.	-	12	11	3 891	122 955	2 804	6 111	71 248	297 210	1 408 637	1 705 142	25 921
311611	Animal (except poultry) slaughtering.	-	7	6	3 059	99 852	2 051	4 254	57 740	193 021	1 048 979	1 243 812	D
311615	Poultry processing.	-	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg.	3	46	14	1 983	61 413	1 276	2 694	36 968	302 066	150 003	453 202	D
31181	Bread & bakery product mfg.	3	38	10	g	D	D	D	D	D	D	D	D
311812	Commercial bakeries.	8	8	4	f	D	D	D	D	D	D	D	D
311813	Frozen cakes, pies, & other pastries mfg.	-	3	2	f	D	D	D	D	D	D	D	D
313	Textile mills.	3	18	9	775	19 083	574	1 182	13 184	40 003	106 041	148 150	3 039
314	Textile product mills.	1	20	8	607	16 445	421	909	9 450	31 432	32 108	62 823	D
315	Apparel mfg.	3	46	12	1 565	29 054	1 285	2 723	21 589	69 589	87 960	157 812	D
3152	Cut & sew apparel mfg.	3	27	8	1 326	23 929	1 080	2 304	18 202	58 157	72 726	131 521	2 169
31523	Women's & girls' cut & sew apparel mfg.	4	8	3	f	D	D	D	D	D	D	D	D
315233	Women's & girls' cut & sew dress mfg.	-	3	1	f	D	D	D	D	D	D	D	D
322	Paper mfg.	-	24	17	1 640	71 506	1 164	2 499	42 481	170 974	205 789	371 944	37 745
3222	Converted paper product mfg.	-	24	17	1 640	71 506	1 164	2 499	42 481	170 974	205 789	371 944	37 745
32221	Paperboard container mfg.	-	13	10	611	24 871	443	957	13 768	62 940	70 430	132 732	D
32229	Other converted paper product mfg.	-	6	4	950	43 781	677	1 470	27 449	102 422	129 668	227 898	D
322291	Sanitary paper product mfg.	-	3	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.	3	196	44	7 058	238 690	5 394	10 485	161 419	562 695	318 604	878 965	36 560
3231	Printing & related support activities.	3	196	44	7 058	238 690	5 394	10 485	161 419	562 695	318 604	878 965	36 560
32311	Printing.	3	176	36	5 276	174 484	3 950	7 761	118 453	435 182	282 557	715 346	30 118
323110	Commercial lithographic printing.	3	79	16	3 057	98 807	2 527	4 838	74 494	192 883	145 127	335 613	17 439
323116	Manifold business form printing.	1	11	8	858	25 182	495	1 085	13 931	107 355	57 104	164 836	D
32312	Support activities for printing.	-	20	8	1 782	64 206	1 444	2 724	42 966	127 513	36 047	163 619	6 442
323122	Prepress services.	-	17	6	g	D	D	D	D	D	D	D	6 254
325	Chemical mfg.	-	56	26	6 724	426 710	3 428	7 378	180 826	5 833 442	3 079 537	8 992 883	282 423
3254	Pharmaceutical & medicine mfg.	-	10	7	i	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg.	-	10	7	i	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg.	-	5	4	h	D	D	D	D	D	D	D	D
3255	Paint, coating, & adhesive mfg.	3	14	7	681	20 485	321	599	8 278	104 460	96 046	201 831	6 327
326	Plastics & rubber products mfg.	2	45	24	2 064	63 352	1 644	3 297	42 538	159 141	156 785	314 730	11 343
3261	Plastics product mfg.	2	36	18	1 723	52 034	1 385	2 772	36 010	139 174	140 368	278 469	10 614
32619	Other plastics product mfg.	-	23	11	1 139	33 236	912	1 843	22 341	91 747	88 218	178 656	5 926
326199	All other plastics product mfg.	-	23	11	1 139	33 236	912	1 843	22 341	91 747	88 218	178 656	5 926
327	Nonmetallic mineral product mfg.	2	48	16	845	29 962	615	1 296	18 336	65 409	65 893	131 708	D
3273	Cement & concrete product mfg.	1	24	9	523	20 231	380	879	13 236	45 229	50 349	95 900	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	MONTGOMERY COUNTY, PA—Con.												
	Manufacturing—Con.												
331	Primary metal mfg	-	25	15	2 679	118 066	1 942	4 232	76 448	285 125	343 065	640 925	41 827
3311	Iron & steel mills & ferroalloy mfg	-	3	3	f	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	3	3	f	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	3	3	f	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	-	3	3	644	20 632	490	964	13 088	43 290	24 599	68 544	7 027
33121	Iron & steel pipes & tubes mfg from purchased steel	-	2	2	f	D	D	D	D	D	D	D	D
331210	Iron & steel pipes & tubes mfg from purchased steel	-	2	2	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing	-	6	5	f	D	D	D	D	D	D	D	D
3315	Foundries	1	12	3	f	D	D	D	D	D	D	D	6 008
33152	Nonferrous metal foundries	1	8	2	f	D	D	D	D	D	D	D	D
331521	Aluminum die-casting foundries	1	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	277	88	8 760	349 498	6 255	12 704	217 993	763 656	586 613	1 344 341	45 461
3323	Architectural & structural metals mfg	1	49	17	1 132	40 680	849	1 792	23 635	99 105	95 126	190 573	4 180
33232	Ornamental & architectural metal products mfg	1	34	10	687	23 176	530	1 098	13 405	54 725	53 745	104 587	2 464
332322	Sheet metal work mfg	1	22	9	572	19 774	451	934	11 411	49 185	47 975	93 385	2 262
3326	Spring & wire product mfg	-	11	6	619	23 534	393	807	11 382	60 939	41 532	104 072	2 866
33261	Spring & wire product mfg	-	11	6	619	23 534	393	807	11 382	60 939	41 532	104 072	2 866
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	122	26	3 140	146 291	2 338	5 002	104 152	243 114	125 536	376 246	D
33271	Machine shops	1	104	19	1 421	57 333	1 083	2 306	39 021	101 920	53 641	162 197	8 422
332710	Machine shops	1	104	19	1 421	57 333	1 083	2 306	39 021	101 920	53 641	162 197	8 422
33272	Turned product & screw, nut, & bolt mfg	-	18	7	1 719	88 958	1 255	2 696	65 131	141 194	71 895	214 049	D
332722	Bolt, nut, screw, rivet, & washer mfg	-	11	4	1 556	84 390	1 138	2 452	61 836	130 517	65 030	196 351	D
3329	Other fabricated metal product mfg	-	42	20	2 736	99 684	1 865	3 459	54 297	273 949	231 023	493 966	16 012
33291	Metal valve mfg	-	15	8	g	D	D	D	D	D	D	D	11 881
332911	Industrial valve mfg ...	2	9	4	f	D	D	D	D	D	D	D	D
332913	Plumbing fixture fitting & trim mfg	-	3	2	f	D	D	D	D	D	D	D	D
33299	All other fabricated metal product mfg	-	27	12	g	D	D	D	D	D	D	D	4 131
332996	Fabricated pipe & pipe fitting mfg	-	8	5	620	21 403	462	702	13 128	48 790	14 785	62 061	D
333	Machinery mfg	-	117	51	6 338	230 473	3 243	6 948	102 904	546 854	573 278	1 121 439	33 431
3332	Industrial machinery mfg ..	-	26	11	3 158	92 760	1 282	2 599	29 567	262 128	335 388	594 130	9 734
33329	Other industrial machinery mfg	-	23	9	h	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg	-	1	1	g	D	D	D	D	D	D	D	D
333298	All other industrial machinery mfg	2	15	5	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	41	20	1 712	70 578	1 052	2 215	37 529	142 060	154 494	300 220	12 590
33391	Pump & compressor mfg	-	7	4	679	31 477	412	920	17 220	52 596	66 907	122 006	6 766
33392	Material handling equipment mfg	1	11	7	539	18 092	345	708	10 248	29 377	33 942	63 765	1 778
334	Computer & electronic product mfg	4	133	59	9 072	382 144	4 331	8 192	143 791	845 677	523 007	1 339 315	52 877
3341	Computer & peripheral equipment mfg	5	16	8	618	20 672	302	607	9 755	36 498	36 068	75 936	2 646
33411	Computer & peripheral equipment mfg	5	16	8	618	20 672	302	607	9 755	36 498	36 068	75 936	2 646
3342	Communications equipment mfg	7	21	10	3 393	167 848	1 342	2 245	58 768	335 131	260 343	568 837	17 699
33422	Radio & TV broadcasting & wireless communications equipment mfg	7	16	8	3 342	165 976	1 330	2 224	58 411	332 042	257 275	562 397	17 384
334220	Radio & TV broadcasting & wireless communications equipment mfg	7	16	8	3 342	165 976	1 330	2 224	58 411	332 042	257 275	562 397	17 384

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	MONTGOMERY COUNTY, PA—Con.												
	Manufacturing—Con.												
334	Computer & electronic product mfg—Con.												
3344	Semiconductor & other electronic component mfg	1	39	20	1 978	69 996	1 301	2 605	32 662	137 234	76 363	208 997	22 400
33441	Semiconductor & other electronic component mfg	1	39	20	1 978	69 996	1 301	2 605	32 662	137 234	76 363	208 997	22 400
334413	Semiconductor & related device mfg ...	-	10	6	821	30 899	581	1 218	17 132	59 975	32 845	92 358	19 265
3345	Navigational, measuring, medical, & control instruments mfg	2	48	20	3 017	121 684	1 350	2 660	41 701	331 028	146 479	475 968	9 661
33451	Navigational, measuring, medical, & control instruments mfg	2	48	20	3 017	121 684	1 350	2 660	41 701	331 028	146 479	475 968	9 661
334513	Industrial process control instrument mfg	2	15	8	1 973	83 067	735	1 456	24 676	247 979	97 946	344 223	6 216
335	Electrical equipment, appliance, & component mfg	-	39	18	1 812	64 041	1 239	2 588	34 995	170 060	122 456	290 588	9 424
3353	Electrical equipment mfg ..	-	14	6	640	26 039	420	906	13 742	72 456	39 904	112 206	D
33531	Electrical equipment mfg	-	14	6	640	26 039	420	906	13 742	72 456	39 904	112 206	D
3359	Other electrical equipment & component mfg	-	15	9	982	31 700	697	1 430	18 590	77 004	65 154	141 255	6 227
336	Transportation equipment mfg	-	27	14	3 487	161 868	2 609	5 317	115 595	589 974	514 471	1 119 862	75 263
3363	Motor vehicle parts mfg ...	-	14	10	h	D	D	D	D	D	D	D	D
33632	Motor vehicle electrical & electronic equipment mfg	-	4	4	g	D	D	D	D	D	D	D	D
336322	Other motor vehicle electrical & electronic equipment mfg	-	4	4	g	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	-	2	2	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	-	2	2	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	66	11	2 374	84 796	1 625	3 358	51 622	307 577	235 799	541 224	17 175
3372	Office furniture (including fixtures) mfg	-	22	8	1 903	70 795	1 302	2 714	44 246	278 817	178 589	455 272	16 253
33721	Office furniture (including fixtures) mfg	-	22	8	1 903	70 795	1 302	2 714	44 246	278 817	178 589	455 272	16 253
337214	Office furniture (except wood) mfg	-	1	1	g	D	D	D	D	D	D	D	D
337215	Showcase, partition, shelving, & locker mfg	1	13	4	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	3	129	41	3 300	108 435	1 912	3 814	46 915	219 330	175 237	385 076	8 780
3391	Medical equipment & supplies mfg	3	66	21	1 425	49 243	813	1 589	19 007	98 265	46 357	134 340	3 226
33911	Medical equipment & supplies mfg	3	66	21	1 425	49 243	813	1 589	19 007	98 265	46 357	134 340	3 226
339112	Surgical & medical instrument mfg	2	19	7	650	23 599	270	566	6 806	60 010	23 555	72 957	D
3399	Other miscellaneous mfg ..	4	63	20	1 875	59 192	1 099	2 225	27 908	121 065	128 880	250 736	5 554
33999	All other miscellaneous mfg	6	18	5	813	26 911	482	908	10 739	52 835	37 475	89 832	3 706
339991	Gasket, packing, & sealing device mfg ...	7	6	3	675	23 004	383	731	8 591	45 923	29 872	75 327	D
	MONTOUR COUNTY, PA												
31-33	Manufacturing	-	22	8	1 530	65 751	1 168	2 529	42 211	517 753	296 475	820 351	D
325	Chemical mfg	-	2	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
325411	Medicinal & botanical mfg	-	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	NORTHAMPTON COUNTY, PA												
31-33	Manufacturing	1	353	153	18 244	546 136	13 613	28 034	355 393	1 496 658	1 151 597	2 638 374	121 583
311	Food mfg	-	29	9	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	12	2	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	12	2	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	5	2	f	D	D	D	D	D	D	D	D
315	Apparel mfg	1	40	26	3 225	59 853	2 765	5 477	44 889	117 125	86 496	204 904	2 958
3152	Cut & sew apparel mfg	1	36	23	g	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	2	24	15	1 497	24 351	1 375	2 709	19 786	51 983	10 810	62 797	922
315212	Women's, girls', & infants' cut & sew apparel contractors ..	2	23	14	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	9	7	810	14 804	687	1 105	9 425	38 372	30 980	68 820	D
315239	Women's & girls' cut & sew other outerwear mfg	-	4	3	f	D	D	D	D	D	D	D	D
3159	Apparel accessories & other apparel mfg	-	3	3	f	D	D	D	D	D	D	D	D
31599	Apparel accessories & other apparel mfg	-	3	3	f	D	D	D	D	D	D	D	D
315999	Other apparel accessories & other apparel mfg	-	2	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities.....	-	28	7	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	-	28	7	g	D	D	D	D	D	D	D	D
32311	Printing	-	24	7	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	1	11	5	f	D	D	D	D	D	D	D	D
323118	Blankbook, looseleaf binder, & device mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
325	Chemical mfg	1	21	10	660	28 405	402	892	15 291	78 935	61 993	142 821	D
326	Plastics & rubber products mfg	1	18	15	2 015	51 856	1 600	3 424	36 302	159 416	136 433	288 917	30 853
3261	Plastics product mfg	1	17	14	g	D	D	D	D	D	D	D	30 853
32619	Other plastics product mfg	1	12	9	1 698	41 689	1 355	2 867	29 844	133 549	104 493	231 993	D
326199	All other plastics product mfg	1	12	9	1 698	41 689	1 355	2 867	29 844	133 549	104 493	231 993	D
327	Nonmetallic mineral product mfg	-	32	14	1 218	43 595	927	1 861	29 779	188 306	88 472	279 143	D
3273	Cement & concrete product mfg	-	16	7	746	29 444	555	1 085	20 053	154 777	70 895	227 802	D
32731	Cement mfg	-	4	4	f	D	D	D	D	D	D	D	D
327310	Cement mfg	-	4	4	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	9	8	1 365	61 131	975	2 278	43 625	79 371	144 449	240 848	9 652
3315	Foundries	-	3	3	f	D	D	D	D	D	D	D	D
33151	Ferrous metal foundries ..	-	3	3	f	D	D	D	D	D	D	D	D
331511	Iron foundries	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	63	17	1 514	49 306	1 109	2 263	33 116	97 049	60 645	156 916	5 485
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	30	7	f	D	D	D	D	D	D	D	D
33271	Machine shops.....	1	25	7	722	22 590	524	1 062	17 142	38 942	11 702	50 318	3 172
332710	Machine shops.....	1	25	7	722	22 590	524	1 062	17 142	38 942	11 702	50 318	3 172
333	Machinery mfg	-	21	12	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	-	22	8	1 891	50 916	1 649	3 204	37 672	256 243	103 790	336 971	D
3399	Other miscellaneous mfg ..	-	15	6	g	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg	-	1	1	g	D	D	D	D	D	D	D	D
339942	Lead pencil & art good mfg	-	1	1	g	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	-	8	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	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)					Wages (\$1,000)
NORTHUMBERLAND COUNTY, PA													
31-33	Manufacturing	4	115	62	7 812	217 304	5 854	11 651	154 952	826 854	687 201	1 526 724	35 370
311	Food mfg	8	16	9	2 819	81 962	1 774	3 373	55 282	452 985	225 166	686 681	18 452
3114	Fruit & vegetable preserving & specialty food mfg	9	2	2	g	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	9	2	2	g	D	D	D	D	D	D	D	D
311422	Specialty canning	9	1	1	g	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	—	5	1	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	—	5	1	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries	—	2	1	f	D	D	D	D	D	D	D	D
313	Textile mills	4	7	6	590	15 209	497	983	10 642	44 717	41 560	86 190	2 415
321	Wood product mfg	—	9	5	812	20 966	679	1 287	16 132	60 737	74 234	134 848	2 264
3219	Other wood product mfg	—	8	4	f	D	D	D	D	D	D	D	D
32191	Millwork	—	3	3	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	6	4	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	—	4	3	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	—	4	3	f	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg	—	1	1	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	—	1	1	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	—	1	1	f	D	D	D	D	D	D	D	D
PERRY COUNTY, PA													
31-33	Manufacturing	2	32	8	845	19 063	689	1 288	12 420	39 915	43 710	82 728	2 656
PHILADELPHIA COUNTY, PA													
31-33	Manufacturing	1	1 342	430	47 928	1 582 403	33 884	68 133	926 012	3 997 488	7 090 128	11 098 092	317 324
311	Food mfg	1	191	49	7 524	251 354	4 999	9 436	145 432	857 770	708 346	1 552 278	47 890
3116	Meat product mfg	2	24	14	1 906	57 826	1 437	2 816	35 910	137 674	303 227	440 146	D
31161	Animal slaughtering & processing	2	24	14	1 906	57 826	1 437	2 816	35 910	137 674	303 227	440 146	D
311612	Meat processed from carcasses	2	15	10	g	D	D	D	D	D	D	D	8 100
3118	Bakeries & tortilla mfg	—	119	20	h	D	D	D	D	D	D	D	29 542
31181	Bread & bakery product mfg	—	108	17	h	D	D	D	D	D	D	D	D
311811	Retail bakeries	3	76	5	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries	—	31	12	h	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	—	11	3	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg	—	6	3	f	D	D	D	D	D	D	D	D
3119	Other food mfg	5	24	8	577	23 136	376	746	12 318	50 990	51 828	102 645	4 878
312	Beverage & tobacco product mfg	2	9	4	1 110	40 836	272	595	8 773	136 481	167 807	304 076	D
3121	Beverage mfg	2	9	4	1 110	40 836	272	595	8 773	136 481	167 807	304 076	D
31211	Soft drink & ice mfg	—	6	2	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg	—	2	2	f	D	D	D	D	D	D	D	D
313	Textile mills	2	41	20	g	D	D	D	D	D	D	D	D
3132	Fabric mills	3	19	10	f	D	D	D	D	D	D	D	D
314	Textile product mills	2	41	8	662	13 772	537	922	8 413	33 123	29 943	62 857	D
315	Apparel mfg	4	138	54	5 269	105 481	4 483	8 302	75 327	229 600	238 267	456 836	D
3152	Cut & sew apparel mfg	5	113	46	4 737	96 454	4 041	7 564	68 847	215 009	224 317	428 227	D
31521	Cut & sew apparel contractors	3	62	26	1 143	16 077	1 089	1 938	13 405	30 681	6 979	37 402	D
315212	Women's, girls', & infants' cut & sew apparel contractors	5	56	24	1 051	13 783	1 005	1 760	11 920	20 896	4 480	25 348	D
31522	Men's & boys' cut & sew apparel mfg	5	19	10	2 356	59 994	1 872	3 650	37 921	128 586	176 549	296 011	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	4	7	7	1 883	49 418	1 450	2 814	29 410	104 925	154 519	250 452	D
31523	Women's & girls' cut & sew apparel mfg	6	25	9	g	D	D	D	D	D	D	D	D
315232	Women's & girls' cut & sew blouse & shirt mfg	9	7	4	f	D	D	D	D	D	D	D	D

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	PHILADELPHIA COUNTY, PA—Con. Manufacturing—Con.												
322	Paper mfg	2	48	31	2 926	106 649	2 197	4 359	64 196	269 662	375 100	649 825	18 897
3222	Converted paper product mfg	2	45	28	2 454	85 443	1 794	3 429	48 171	211 525	314 313	531 153	D
32221	Paperboard container mfg	—	22	17	1 329	42 807	1 023	1 990	26 609	94 211	147 259	240 903	7 560
322211	Corrugated & solid fiber box mfg.....	—	7	6	688	23 514	500	903	13 273	51 967	87 383	139 375	D
32222	Paper bag & coated & treated paper mfg	3	11	5	f	D	D	D	D	D	D	D	5 971
323	Printing & related support activities	3	185	44	4 420	170 826	3 125	5 959	96 736	334 864	198 692	533 425	23 158
3231	Printing & related support activities.....	3	185	44	4 420	170 826	3 125	5 959	96 736	334 864	198 692	533 425	23 158
32311	Printing	3	152	39	3 932	151 367	2 776	5 197	84 280	298 284	189 640	488 050	D
323110	Commercial lithographic printing ..	3	84	23	2 362	98 235	1 678	3 046	54 822	189 005	112 193	302 220	12 612
324	Petroleum & coal products mfg	—	10	7	g	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	—	10	7	g	D	D	D	D	D	D	D	D
32411	Petroleum refineries	—	2	2	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	—	2	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg	2	52	29	2 432	105 531	1 419	3 078	49 354	500 370	703 594	1 186 622	58 234
3251	Basic chemical mfg	1	7	3	522	27 372	294	616	14 589	204 445	337 307	531 320	D
3254	Pharmaceutical & medicine mfg	5	8	6	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	5	8	6	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	2	44	18	1 135	36 763	834	1 702	19 673	60 766	74 609	135 125	4 786
3261	Plastics product mfg	2	33	14	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	22	9	698	23 578	493	996	11 521	34 305	47 086	80 862	3 126
326199	All other plastics product mfg.....	1	22	9	698	23 578	493	996	11 521	34 305	47 086	80 862	3 126
331	Primary metal mfg	2	14	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	174	42	3 495	112 896	2 584	5 121	64 512	269 367	232 340	491 764	10 275
3323	Architectural & structural metals mfg	1	55	13	1 425	41 653	1 119	2 287	23 324	98 096	78 349	169 139	3 394
33232	Ornamental & architectural metal products mfg.....	1	46	10	1 166	29 679	938	1 908	17 301	66 907	57 028	122 129	2 101
332322	Sheet metal work mfg ..	1	17	3	702	16 971	605	1 279	10 775	40 125	32 633	71 056	1 571
3329	Other fabricated metal product mfg.....	1	18	11	677	23 603	421	794	12 384	67 882	64 247	130 825	2 760
33299	All other fabricated metal product mfg.....	1	17	10	f	D	D	D	D	D	D	D	D
333	Machinery mfg	2	62	23	2 080	73 900	1 365	2 680	42 048	136 176	102 996	240 628	D
3339	Other general-purpose machinery mfg	—	12	6	602	24 350	356	760	13 298	50 898	35 379	86 719	3 708
334	Computer & electronic product mfg.....	2	33	10	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	1	11	6	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	1	11	6	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	—	26	14	2 231	81 242	1 509	3 088	48 402	223 284	246 864	482 289	6 954
3351	Electric lighting equipment mfg	1	17	9	1 047	23 367	818	1 608	14 683	69 532	103 053	177 501	2 573
33512	Lighting fixture mfg	1	17	9	1 047	23 367	818	1 608	14 683	69 532	103 053	177 501	2 573
335121	Residential electric lighting fixture mfg ...	—	11	6	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	—	6	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	—	6	2	f	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg	—	2	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	PHILADELPHIA COUNTY, PA—Con. Manufacturing—Con.												
336	Transportation equipment mfg	1	31	17	6 145	205 133	4 237	11 018	133 874	509 087	365 171	868 722	26 998
3363	Motor vehicle parts mfg . . .	-	25	16	i	D	D	D	D	D	D	D	D
33633	Motor vehicle steering & suspension component (except spring) mfg	-	2	2	f	D	D	D	D	D	D	D	D
336330	Motor vehicle steering & suspension component (except spring) mfg	-	2	2	f	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	4	4	h	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	4	4	h	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	-	2	1	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	-	2	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	4	6	3	535	15 291	469	772	11 231	34 505	32 685	67 291	D
336399	All other motor vehicle parts mfg	4	6	3	535	15 291	469	772	11 231	34 505	32 685	67 291	D
337	Furniture & related product mfg	1	71	20	1 730	43 497	1 382	2 319	27 293	91 238	77 691	169 309	D
3371	Household & institutional furniture & kitchen cabinet mfg	1	37	5	881	19 886	742	1 125	14 386	40 052	35 634	76 538	D
33712	Household & institutional furniture mfg	1	26	4	788	16 948	670	965	12 467	35 448	31 721	67 966	1 802
337124	Metal household furniture mfg	-	5	4	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	2	23	12	683	19 723	523	977	10 847	37 642	30 990	68 075	D
33721	Office furniture (including fixtures) mfg	2	23	12	683	19 723	523	977	10 847	37 642	30 990	68 075	D
339	Miscellaneous mfg	3	137	29	2 288	64 957	1 719	3 008	36 910	165 679	140 599	302 142	8 628
3391	Medical equipment & supplies mfg	2	56	15	887	23 560	665	997	13 013	48 111	25 027	72 174	D
33911	Medical equipment & supplies mfg	2	56	15	887	23 560	665	997	13 013	48 111	25 027	72 174	D
3399	Other miscellaneous mfg . .	3	81	14	1 401	41 397	1 054	2 011	23 897	117 568	115 572	229 968	D
31-33	POTTER COUNTY, PA Manufacturing	1	29	15	1 166	28 774	982	1 878	21 110	62 320	55 515	117 617	5 709
31-33	SCHUYLKILL COUNTY, PA Manufacturing	1	226	114	14 370	393 667	11 600	22 953	272 786	1 341 302	1 279 110	2 625 116	86 861
311	Food mfg	1	18	3	527	18 771	379	726	10 504	51 288	73 906	125 588	1 343
313	Textile mills	6	8	7	1 225	32 422	1 038	2 260	25 221	155 681	119 798	273 578	10 619
3132	Fabric mills	5	4	4	f	D	D	D	D	D	D	D	D
31324	Knit fabric mills	6	3	3	f	D	D	D	D	D	D	D	D
315	Apparel mfg	2	33	26	3 193	53 587	2 727	4 969	40 475	158 943	83 238	248 055	D
3151	Apparel knitting mills	-	11	9	1 619	32 719	1 331	2 618	22 904	109 079	41 862	154 039	D
31519	Other apparel knitting mills	-	11	9	1 619	32 719	1 331	2 618	22 904	109 079	41 862	154 039	D
315192	Underwear & nightwear knitting mills	-	4	3	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	5	19	16	g	D	D	D	D	D	D	D	1 048
31522	Men's & boys' cut & sew apparel mfg	-	5	5	f	D	D	D	D	D	D	D	D
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	-	4	4	758	10 667	673	1 114	9 225	15 440	22 582	40 024	527
321	Wood product mfg	1	19	7	827	18 767	706	1 271	13 488	56 899	85 690	142 928	2 957
3219	Other wood product mfg . . .	-	16	6	f	D	D	D	D	D	D	D	2 730
325	Chemical mfg	1	12	7	823	30 583	519	1 043	17 738	89 178	68 330	163 136	24 313
326	Plastics & rubber products mfg	-	13	9	1 310	45 614	1 011	2 139	31 920	190 163	116 044	302 300	8 965
3261	Plastics product mfg	-	12	9	g	D	D	D	D	D	D	D	D
32611	Unsupported plastics film, sheet, & bag mfg . .	-	7	5	f	D	D	D	D	D	D	D	4 949
326113	Unsupported plastics film & sheet (except packaging) mfg	-	4	3	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SCHUYLKILL COUNTY, PA—Con.													
31-33	Manufacturing—Con.												
331	Primary metal mfg	—	6	6	1 288	43 262	1 155	2 428	33 070	158 966	257 394	413 304	D
3313	Alumina & aluminum production & processing ..	—	1	1	g	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing ..	—	1	1	g	D	D	D	D	D	D	D	D
331316	Aluminum extruded product mfg ..	—	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg ..	1	38	14	1 090	32 143	857	1 690	22 161	77 284	54 657	130 214	8 667
333	Machinery mfg ..	1	18	7	961	28 513	692	1 389	16 809	57 336	52 027	107 143	6 574
335	Electrical equipment, appliance, & component mfg ..	—	3	3	668	19 680	556	1 005	15 759	84 002	73 237	158 158	2 237
SNYDER COUNTY, PA													
31-33	Manufacturing	—	65	34	4 413	111 257	3 575	6 754	79 486	181 619	234 136	414 250	12 377
321	Wood product mfg ..	—	13	7	620	14 452	535	997	10 208	26 612	41 115	67 713	833
3219	Other wood product mfg ...	—	11	6	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg ..	—	10	5	1 758	46 233	1 366	2 621	33 937	66 466	44 748	111 124	D
3371	Household & institutional furniture & kitchen cabinet mfg ..	—	8	4	g	D	D	D	D	D	D	D	D
33711	Wood kitchen cabinet & counter top mfg ..	—	3	2	g	D	D	D	D	D	D	D	D
337110	Wood kitchen cabinet & counter top mfg ...	—	3	2	g	D	D	D	D	D	D	D	D
SOMERSET COUNTY, PA													
31-33	Manufacturing	2	118	45	4 828	117 116	3 764	7 257	79 377	301 608	338 522	644 063	18 929
332	Fabricated metal product mfg ..	—	11	5	646	16 809	428	962	10 401	38 912	34 000	72 811	1 785
333	Machinery mfg ..	3	13	3	830	23 819	600	1 301	15 173	50 892	54 011	111 684	D
3331	Agriculture, construction, & mining machinery mfg ..	—	3	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg ..	2	10	9	g	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg ..	2	9	9	g	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg ..	2	9	9	g	D	D	D	D	D	D	D	D
336211	Motor vehicle body mfg ..	7	8	8	f	D	D	D	D	D	D	D	D
336214	Travel trailer & camper mfg ..	—	1	1	f	D	D	D	D	D	D	D	D
SUSQUEHANNA COUNTY, PA													
31-33	Manufacturing	2	51	13	1 160	22 105	939	1 867	14 362	54 236	77 214	132 628	3 629
TIOGA COUNTY, PA													
31-33	Manufacturing	1	46	18	2 930	69 415	2 501	4 952	56 019	216 281	205 461	415 895	20 901
332	Fabricated metal product mfg ..	—	6	2	g	D	D	D	D	D	D	D	D
3329	Other fabricated metal product mfg ..	—	2	2	g	D	D	D	D	D	D	D	D
33291	Metal valve mfg ..	—	1	1	g	D	D	D	D	D	D	D	D
332919	Other metal valve & pipe fitting 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	All establishments			All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
UNION COUNTY, PA													
31-33	Manufacturing	1	36	16	3 394	86 017	2 673	5 459	60 643	228 427	206 482	434 525	14 777
334	Computer & electronic product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	1	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	1	1	f	D	D	D	D	D	D	D	D
334419	Other electronic component mfg	-	1	1	f	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	3	2	f	D	D	D	D	D	D	D	951
3371	Household & institutional furniture & kitchen cabinet mfg	-	3	2	f	D	D	D	D	D	D	D	951
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
VENANGO COUNTY, PA													
31-33	Manufacturing	3	89	33	3 950	137 833	2 767	5 763	83 351	383 684	711 377	1 084 640	39 030
331	Primary metal mfg	-	7	6	589	17 673	470	892	12 923	59 040	73 588	126 449	D
333	Machinery mfg	9	10	3	g	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg	9	3	1	g	D	D	D	D	D	D	D	D
33313	Mining & oil & gas field machinery mfg	9	1	1	g	D	D	D	D	D	D	D	D
333131	Mining machinery & equipment mfg	9	1	1	g	D	D	D	D	D	D	D	D
WARREN COUNTY, PA													
31-33	Manufacturing	-	81	34	4 670	147 764	3 256	6 455	88 757	395 666	734 760	1 116 315	28 310
324	Petroleum & coal products mfg	-	3	2	f	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	-	3	2	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries	-	1	1	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	5	5	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	4	4	758	27 148	498	867	15 113	58 653	43 479	101 653	5 428
32619	Other plastics product mfg	-	4	4	758	27 148	498	867	15 113	58 653	43 479	101 653	5 428
326199	All other plastics product mfg	-	4	4	758	27 148	498	867	15 113	58 653	43 479	101 653	5 428
332	Fabricated metal product mfg	-	18	7	1 220	43 723	892	1 723	28 599	116 720	51 642	169 307	5 830
3321	Forging & stamping	-	2	1	f	D	D	D	D	D	D	D	D
33211	Forging & stamping	-	2	1	f	D	D	D	D	D	D	D	D
332111	Iron & steel forging	-	1	1	f	D	D	D	D	D	D	D	D
WASHINGTON COUNTY, PA													
31-33	Manufacturing	1	278	108	11 725	402 311	7 983	16 377	245 375	1 137 620	1 664 611	2 788 409	105 455
311	Food mfg	3	20	6	511	8 432	266	396	4 085	14 280	26 121	41 415	1 898
322	Paper mfg	-	6	6	500	16 284	373	848	12 141	50 198	75 570	126 521	7 237
3222	Converted paper product mfg	-	6	6	500	16 284	373	848	12 141	50 198	75 570	126 521	7 237
32221	Paperboard container mfg	-	6	6	500	16 284	373	848	12 141	50 198	75 570	126 521	7 237
322211	Corrugated & solid fiber box mfg	-	6	6	500	16 284	373	848	12 141	50 198	75 570	126 521	7 237
325	Chemical mfg	-	23	13	1 065	40 899	653	1 399	20 984	195 505	263 103	455 764	18 997
3251	Basic chemical mfg	-	10	5	595	25 435	337	723	11 640	127 838	127 196	251 830	8 399
326	Plastics & rubber products mfg	2	11	5	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	2	8	4	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WASHINGTON COUNTY, PA—Con.													
31-33	Manufacturing—Con.												
327	Nonmetallic mineral product mfg	1	17	7	876	26 774	686	1 441	18 573	76 517	33 379	112 297	D
3272	Glass & glass product mfg .	—	3	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	—	3	1	f	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	—	2	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	—	15	13	2 147	97 425	1 576	3 175	74 067	339 429	796 709	1 120 042	36 119
3311	Iron & steel mills & ferroalloy mfg	—	4	4	1 294	62 915	1 112	2 200	55 179	265 346	619 867	881 029	15 210
33111	Iron & steel mills & ferroalloy mfg	—	4	4	1 294	62 915	1 112	2 200	55 179	265 346	619 867	881 029	15 210
331111	Iron & steel mills	—	4	4	1 294	62 915	1 112	2 200	55 179	265 346	619 867	881 029	15 210
3314	Nonferrous metal (except aluminum) production & processing	4	5	5	f	D	D	D	D	D	D	D	20 351
33149	Other nonferrous metal rolling, drawing, extruding, & alloying ...	4	5	5	f	D	D	D	D	D	D	D	20 351
332	Fabricated metal product mfg	—	61	22	1 882	56 196	1 415	2 875	34 810	143 277	104 530	248 153	14 554
3327	Machine shops, turned product, & screw, nut, & bolt mfg	—	32	8	533	15 249	420	808	10 443	31 181	11 447	43 121	1 766
333	Machinery mfg	1	28	13	1 818	76 365	1 145	2 607	41 984	147 018	205 184	354 784	7 911
3335	Metalworking machinery mfg	1	8	4	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg	1	8	4	f	D	D	D	D	D	D	D	D
333511	Industrial mold mfg ...	1	4	4	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	—	11	4	570	24 576	306	636	11 626	38 242	39 226	76 962	1 949
33399	All other general-purpose machinery mfg	—	7	3	513	22 791	277	575	10 939	34 536	34 065	68 396	D
335	Electrical equipment, appliance, & component mfg	6	6	4	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	6	4	4	f	D	D	D	D	D	D	D	D
33592	Communication & energy wire & cable mfg	8	3	3	f	D	D	D	D	D	D	D	D
335929	Other communication & energy wire mfg ...	8	3	3	f	D	D	D	D	D	D	D	D
WAYNE COUNTY, PA													
31-33	Manufacturing	1	68	11	1 039	24 460	821	1 529	16 852	70 990	111 333	182 347	3 609
WESTMORELAND COUNTY, PA													
31-33	Manufacturing	1	597	201	24 404	800 201	16 883	32 807	493 506	1 786 593	2 222 617	4 000 157	193 963
311	Food mfg	3	40	8	655	14 004	438	754	9 483	57 657	62 538	119 707	D
322	Paper mfg	1	4	4	1 330	33 112	816	1 765	18 516	81 461	100 044	176 311	8 640
3222	Converted paper product mfg	1	4	4	1 330	33 112	816	1 765	18 516	81 461	100 044	176 311	8 640
32223	Stationery product mfg ..	—	1	1	f	D	D	D	D	D	D	D	D
322232	Envelope mfg	—	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	1	42	26	2 195	63 832	1 665	3 316	42 271	172 565	153 995	325 516	15 933
3261	Plastics product mfg	—	35	24	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	—	28	18	g	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	—	27	18	1 397	39 035	1 046	2 061	23 961	105 717	70 183	175 888	D
327	Nonmetallic mineral product mfg	—	36	10	1 183	35 473	910	1 802	23 763	80 300	45 869	125 141	8 124
3272	Glass & glass product mfg .	—	8	6	792	23 334	626	1 235	16 199	50 258	22 485	71 622	4 963
32721	Glass & glass product mfg	—	8	6	792	23 334	626	1 235	16 199	50 258	22 485	71 622	4 963
327212	Other pressed & blown glass & glassware mfg	—	4	4	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	WESTMORELAND COUNTY, PA—Con.												
31-33	Manufacturing—Con.												
331	Primary metal mfg	-	26	17	3 401	136 154	2 566	5 129	101 142	278 888	591 080	874 473	29 146
3311	Iron & steel mills & ferroalloy mfg	-	3	3	g	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	3	3	g	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	3	3	g	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	-	5	4	g	D	D	D	D	D	D	D	D
33122	Rolling & drawing of purchased steel	-	4	3	g	D	D	D	D	D	D	D	D
331221	Cold-rolled steel shape mfg	-	2	1	g	D	D	D	D	D	D	D	D
3315	Foundries	-	16	8	634	20 189	486	985	15 482	37 103	41 355	78 036	3 622
332	Fabricated metal product mfg	1	165	53	3 962	124 757	3 028	5 993	84 088	250 089	160 402	407 754	25 189
3321	Forging & stamping	-	10	7	913	33 560	732	1 567	24 642	74 889	54 256	127 948	11 585
33211	Forging & stamping	-	10	7	913	33 560	732	1 567	24 642	74 889	54 256	127 948	11 585
332116	Metal stamping	-	4	2	548	19 027	466	1 009	15 254	43 751	37 129	80 229	D
3323	Architectural & structural metals mfg	1	22	10	642	20 371	454	921	12 560	36 227	29 411	64 108	2 701
3327	Machine shops, turned product, & screw, nut, & bolt mfg	1	103	26	1 730	48 572	1 355	2 514	35 089	89 233	38 748	128 201	D
33271	Machine shops	1	95	23	1 587	44 032	1 239	2 343	31 939	81 971	33 080	115 306	5 438
332710	Machine shops	1	95	23	1 587	44 032	1 239	2 343	31 939	81 971	33 080	115 306	5 438
333	Machinery mfg	1	70	27	3 695	144 379	2 332	4 286	80 276	307 685	186 978	494 789	26 047
3335	Metalworking machinery mfg	-	43	16	1 599	55 379	1 163	2 409	38 925	90 399	57 754	152 436	7 391
33351	Metalworking machinery mfg	-	43	16	1 599	55 379	1 163	2 409	38 925	90 399	57 754	152 436	7 391
333514	Special die & tool, die set, jig, & fixture mfg	1	24	10	f	D	D	D	D	D	D	D	3 327
333515	Cutting tool & machine tool accessory mfg ..	-	15	4	628	22 669	426	866	13 799	36 813	31 075	67 445	D
3339	Other general-purpose machinery mfg	1	13	7	1 832	80 638	1 007	1 610	37 939	204 577	117 002	316 998	18 001
33391	Pump & compressor mfg	1	4	3	g	D	D	D	D	D	D	D	D
333912	Air & gas compressor mfg	1	3	2	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	27	16	3 380	106 562	2 235	4 176	59 307	161 513	555 202	714 519	52 431
3343	Audio & video equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	10	6	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	10	6	f	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	-	4	3	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	12	6	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	12	6	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	14	9	721	23 345	348	698	10 876	50 891	84 324	135 071	1 724
339	Miscellaneous mfg	-	36	5	1 403	52 931	628	1 389	18 477	167 051	114 003	281 328	10 068
3391	Medical equipment & supplies mfg	-	16	3	1 137	45 134	477	1 016	13 603	125 336	82 687	207 045	8 470
33911	Medical equipment & supplies mfg	-	16	3	1 137	45 134	477	1 016	13 603	125 336	82 687	207 045	8 470
339113	Surgical appliance & supplies mfg	-	4	2	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WYOMING COUNTY, PA													
31-33	Manufacturing	-	35	12	h	D	D	D	D	D	D	D	D
322	Paper mfg	-	2	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
YORK COUNTY, PA													
31-33	Manufacturing	-	661	314	45 754	1 557 477	33 469	66 061	975 549	4 627 847	3 542 690	8 156 938	300 081
311	Food mfg	-	45	21	4 384	129 266	2 763	6 062	61 923	439 678	359 278	780 693	21 534
3118	Bakeries & tortilla mfg	2	12	4	1 213	29 230	984	2 191	19 006	70 807	78 519	147 260	D
31181	Bread & bakery product mfg	4	10	3	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	-	2	1	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg .	-	2	1	f	D	D	D	D	D	D	D	D
3119	Other food mfg	-	14	12	h	D	D	D	D	D	D	D	D
31191	Snack food mfg	-	12	11	2 542	83 745	1 357	2 969	32 929	302 773	164 190	466 892	12 499
311919	Other snack food mfg .	-	12	11	2 542	83 745	1 357	2 969	32 929	302 773	164 190	466 892	12 499
315	Apparel mfg	-	22	13	1 740	31 464	1 224	2 482	20 196	65 154	50 097	116 641	686
3152	Cut & sew apparel mfg	-	19	12	1 699	30 848	1 199	2 424	19 722	64 381	49 468	115 190	652
31523	Women's & girls' cut & sew apparel mfg	-	6	4	g	D	D	D	D	D	D	D	342
315239	Women's & girls' cut & sew other outerwear mfg	-	6	4	g	D	D	D	D	D	D	D	342
321	Wood product mfg	2	28	7	567	12 685	481	958	9 734	19 835	27 345	47 502	2 125
322	Paper mfg	-	30	20	3 343	136 662	2 341	5 027	81 661	388 488	292 287	679 174	56 652
3221	Pulp, paper, & paperboard mills	-	3	3	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
3222	Converted paper product mfg	-	27	17	g	D	D	D	D	D	D	D	D
32221	Paperboard container mfg	-	21	13	g	D	D	D	D	D	D	D	12 784
322211	Corrugated & solid fiber box mfg	-	12	8	864	28 070	661	1 415	16 566	68 817	80 451	148 487	8 275
32222	Paper bag & coated & treated paper mfg	-	5	4	861	34 398	506	957	16 471	107 361	61 745	170 379	D
322222	Coated & laminated paper mfg	-	5	4	861	34 398	506	957	16 471	107 361	61 745	170 379	D
323	Printing & related support activities	1	58	26	4 018	123 101	2 975	6 068	78 039	260 116	164 065	419 900	17 953
3231	Printing & related support activities	1	58	26	4 018	123 101	2 975	6 068	78 039	260 116	164 065	419 900	17 953
32311	Printing	1	42	19	2 676	84 069	1 976	4 013	53 368	199 407	142 316	337 972	15 394
323110	Commercial lithographic printing ..	-	19	9	858	27 983	698	1 508	20 150	62 132	51 856	114 206	4 042
323112	Commercial flexographic printing .	5	2	2	f	D	D	D	D	D	D	D	D
323116	Manifold business form printing	-	4	3	520	19 088	372	711	11 795	65 296	32 647	96 807	3 778
323117	Book printing	-	1	1	f	D	D	D	D	D	D	D	D
32312	Support activities for printing	-	16	7	1 342	39 032	999	2 055	24 671	60 709	21 749	81 928	2 559
323121	Tradebinding & related work	-	2	2	f	D	D	D	D	D	D	D	D
323122	Prepress services	-	14	5	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	28	18	2 168	69 403	1 781	3 378	52 361	176 522	147 265	325 492	18 520
3261	Plastics product mfg	-	26	17	g	D	D	D	D	D	D	D	D
32616	Plastics bottle mfg	-	3	3	f	D	D	D	D	D	D	D	D
326160	Plastics bottle mfg	-	3	3	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	20	13	1 447	46 057	1 164	2 302	34 339	103 413	64 386	169 842	7 827
326199	All other plastics product mfg	-	19	12	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
YORK COUNTY, PA—Con.													
31-33	Manufacturing—Con.												
327	Nonmetallic mineral product mfg	-	30	12	1 866	54 139	1 530	2 940	41 681	152 302	110 787	265 239	17 796
3271	Clay product & refractory mfg	-	6	5	1 312	37 525	1 099	2 013	30 454	111 622	69 287	183 796	13 054
32711	Pottery, ceramics, & plumbing fixture mfg ...	-	3	2	f	D	D	D	D	D	D	D	D
327112	Vitreous china, fine earthenware, & other pottery product mfg ..	-	3	2	f	D	D	D	D	D	D	D	D
32712	Clay building material & refractories mfg	-	3	3	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	14	12	2 539	76 410	1 989	4 268	54 436	198 541	153 627	349 564	15 360
3312	Steel product mfg from purchased steel	-	3	3	984	29 291	764	1 627	21 738	78 523	61 612	139 879	4 515
33122	Rolling & drawing of purchased steel	-	3	3	984	29 291	764	1 627	21 738	78 523	61 612	139 879	4 515
331222	Steel wire drawing	-	3	3	984	29 291	764	1 627	21 738	78 523	61 612	139 879	4 515
3315	Foundries	-	8	6	g	D	D	D	D	D	D	D	5 933
33151	Ferrous metal foundries .	-	2	2	f	D	D	D	D	D	D	D	D
331511	Iron foundries	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	133	55	5 217	168 969	4 026	7 665	110 937	428 995	360 690	787 794	18 466
3321	Forging & stamping	-	8	6	602	20 257	462	997	12 173	46 957	43 185	89 340	3 506
33211	Forging & stamping	-	8	6	602	20 257	462	997	12 173	46 957	43 185	89 340	3 506
332116	Metal stamping	-	5	5	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	21	13	1 614	54 047	1 227	2 090	34 084	121 036	105 885	225 283	4 162
33231	Plate work & fabricated structural product mfg ..	-	9	5	817	29 218	586	840	18 158	63 461	65 933	131 036	2 790
33232	Ornamental & architectural metal products mfg	-	12	8	797	24 829	641	1 250	15 926	57 575	39 952	94 247	1 372
332322	Sheet metal work mfg .	-	8	6	f	D	D	D	D	D	D	D	497
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	60	14	847	25 399	670	1 178	17 780	56 462	21 497	78 071	4 303
33271	Machine shops	-	53	11	743	22 585	585	1 006	15 835	49 315	19 753	69 236	2 669
332710	Machine shops	-	53	11	743	22 585	585	1 006	15 835	49 315	19 753	69 236	2 669
3329	Other fabricated metal product mfg	-	16	5	985	35 686	783	1 566	25 266	133 698	89 402	223 859	4 728
33299	All other fabricated metal product mfg	-	15	5	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	83	42	6 121	274 681	4 151	8 742	147 538	1 009 435	598 326	1 610 848	51 941
3331	Agriculture, construction, & mining machinery mfg	-	2	2	g	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	-	13	9	771	31 315	473	826	14 073	65 232	69 544	136 106	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	-	10	7	g	D	D	D	D	D	D	D	15 935
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg .	-	10	7	g	D	D	D	D	D	D	D	15 935
333415	AC & warm air heating & commercial/ industrial refrig equip mfg	-	8	7	g	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	2	32	10	575	20 608	391	794	11 915	35 543	18 092	54 032	2 450
33351	Metalworking machinery mfg	2	32	10	575	20 608	391	794	11 915	35 543	18 092	54 032	2 450
3336	Engine, turbine, & power transmission equipment mfg	-	4	4	f	D	D	D	D	D	D	D	5 598
33361	Engine, turbine, & power transmission equipment mfg	-	4	4	f	D	D	D	D	D	D	D	5 598
333611	Turbine & turbine generator set unit mfg	-	3	3	f	D	D	D	D	D	D	D	D
3339	Other general-purpose machinery mfg	-	19	10	1 098	42 288	716	1 565	26 959	77 360	120 984	201 950	D
33399	All other general-purpose machinery mfg	-	10	6	752	29 940	475	949	18 424	47 963	95 464	145 254	2 940

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	YORK COUNTY, PA—Con.												
31-33	Manufacturing—Con.												
334	Computer & electronic product mfg	—	27	17	2 303	76 049	1 899	3 485	56 243	342 797	203 989	541 547	17 052
3344	Semiconductor & other electronic component mfg	—	17	11	1 839	60 826	1 631	2 988	49 945	307 832	178 885	481 107	16 098
33441	Semiconductor & other electronic component mfg	—	17	11	1 839	60 826	1 631	2 988	49 945	307 832	178 885	481 107	16 098
334417	Electronic connector mfg	—	9	8	1 646	56 975	1 476	2 782	47 787	298 269	170 843	463 449	15 653
335	Electrical equipment, appliance, & component mfg	—	21	16	1 691	59 555	1 133	2 367	35 525	218 975	220 750	436 113	11 352
3353	Electrical equipment mfg	—	12	10	771	24 249	479	906	11 714	74 012	72 150	147 748	D
33531	Electrical equipment mfg	—	12	10	771	24 249	479	906	11 714	74 012	72 150	147 748	D
335314	Relay & industrial control mfg	—	8	7	647	20 813	395	753	10 011	61 744	64 891	127 495	901
336	Transportation equipment mfg	—	19	12	5 254	216 800	3 806	5 814	146 481	584 677	518 994	1 123 489	29 863
3363	Motor vehicle parts mfg	1	11	7	g	D	D	D	D	D	D	D	D
33633	Motor vehicle steering & suspension component (except spring) mfg	—	1	1	f	D	D	D	D	D	D	D	D
336330	Motor vehicle steering & suspension component (except spring) mfg	—	1	1	f	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	—	2	2	h	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	—	2	2	h	D	D	D	D	D	D	D	D
336991	Motorcycle, bicycle, & parts mfg	—	1	1	h	D	D	D	D	D	D	D	D
336992	Military armored vehicle, tank, & tank component mfg	—	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	2	42	16	1 414	36 202	1 151	2 184	24 198	81 910	72 170	153 475	2 924
3371	Household & institutional furniture & kitchen cabinet mfg	2	31	13	1 107	26 814	920	1 732	19 216	57 212	49 970	106 670	1 734
33712	Household & institutional furniture mfg	3	17	8	670	15 756	550	1 023	10 858	33 370	35 585	68 437	1 200
339	Miscellaneous mfg	—	34	12	1 768	56 691	1 205	2 637	32 778	162 812	82 169	241 225	8 452
3391	Medical equipment & supplies mfg	—	20	7	1 047	34 009	667	1 435	16 256	115 417	45 725	157 683	4 705
33911	Medical equipment & supplies mfg	—	20	7	1 047	34 009	667	1 435	16 256	115 417	45 725	157 683	4 705
339114	Dental equipment & supplies mfg	—	4	3	f	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg	2	14	5	721	22 682	538	1 202	16 522	47 395	36 444	83 542	3 747

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

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

Table 4. Industry Statistics for Places: 1997

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	ALIQUIPPA, PA												
	Manufacturing	-	9	4	f	D	D	D	D	D	D	D	6 008
31-33	ALLENTOWN, PA												
	Manufacturing	-	238	76	8 310	324 998	6 059	10 997	184 116	3 362 309	688 735	4 059 957	92 909
312	Beverage & tobacco product mfg	-	3	2	f	D	D	D	D	D	D	D	D
3121	Beverage mfg	-	3	2	f	D	D	D	D	D	D	D	D
313	Textile mills	5	15	10	550	15 092	477	991	10 581	35 291	29 847	64 706	2 032
315	Apparel mfg	1	70	22	1 417	19 150	1 252	2 089	15 089	54 674	32 170	86 930	1 374
3152	Cut & sew apparel mfg	2	65	19	1 073	12 552	980	1 475	10 189	42 300	17 013	59 447	D
31521	Cut & sew apparel contractors	4	50	14	f	D	D	D	D	D	D	D	D
315212	Women's, girls', & infants' cut & sew apparel contractors ..	4	49	14	f	D	D	D	D	D	D	D	330
332	Fabricated metal product mfg	1	24	10	869	34 402	489	962	15 350	87 555	53 749	139 003	5 981
3329	Other fabricated metal product mfg	1	3	3	532	22 914	255	507	8 883	59 192	24 664	81 739	D
33291	Metal valve mfg	1	3	3	532	22 914	255	507	8 883	59 192	24 664	81 739	D
333	Machinery mfg	-	15	8	538	19 524	325	627	10 075	51 804	64 683	119 899	1 244
334	Computer & electronic product mfg	-	6	3	g	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	2	1	g	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	2	1	g	D	D	D	D	D	D	D	D
334413	Semiconductor & related device mfg ...	-	1	1	g	D	D	D	D	D	D	D	D
337	Furniture & related product mfg	-	7	3	f	D	D	D	D	D	D	D	857
3371	Household & institutional furniture & kitchen cabinet mfg	-	7	3	f	D	D	D	D	D	D	D	857
33712	Household & institutional furniture mfg	-	7	3	f	D	D	D	D	D	D	D	857
31-33	ALTOONA, PA												
	Manufacturing	1	68	23	2 622	62 684	2 041	3 804	41 054	253 069	171 641	424 747	11 725
311	Food mfg	6	8	4	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	8	3	f	D	D	D	D	D	D	D	D
31-33	AMBRIDGE, PA												
	Manufacturing	2	23	9	500	14 814	326	670	9 189	42 662	39 124	81 935	4 867
31-33	ANTRIM TOWNSHIP, PA												
	Manufacturing	-	12	2	h	D	D	D	D	D	D	D	D
333	Machinery mfg	-	1	1	h	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg	-	1	1	h	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	-	1	1	h	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	1	1	h	D	D	D	D	D	D	D	D
31-33	ARCHBALD, PA												
	Manufacturing	-	9	5	f	D	D	D	D	D	D	D	2 107
31-33	ASTON TOWNSHIP, PA												
	Manufacturing	1	39	14	1 148	44 774	758	1 548	23 421	110 532	132 427	231 945	4 903
31-33	BANGOR, PA												
	Manufacturing	5	15	4	642	11 106	551	1 162	8 898	22 443	12 107	34 446	531
315	Apparel mfg	7	6	3	546	8 148	484	1 030	6 998	16 161	7 383	23 434	347
3152	Cut & sew apparel mfg	7	6	3	546	8 148	484	1 030	6 998	16 161	7 383	23 434	347

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
BEAVER, PA													
31-33	Manufacturing	-	8	4	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
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg	-	1	1	f	D	D	D	D	D	D	D	D
BEAVER FALLS, PA													
31-33	Manufacturing	-	27	8	996	33 337	764	1 574	23 989	81 707	83 229	165 524	5 968
BELLEFONTE, PA													
31-33	Manufacturing	-	12	8	1 206	39 519	903	1 865	27 043	84 596	180 103	264 500	8 448
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
331421	Copper rolling, drawing, & extruding .	-	1	1	f	D	D	D	D	D	D	D	D
BENSALEM TOWNSHIP, PA													
31-33	Manufacturing	2	143	53	4 291	133 611	2 920	5 986	73 855	292 518	340 283	630 525	18 836
332	Fabricated metal product mfg	2	33	12	737	25 372	543	1 136	14 257	49 358	43 594	92 432	2 711
BERWICK, PA													
31-33	Manufacturing	-	33	19	3 445	86 804	2 490	5 133	57 051	195 343	178 974	372 650	12 849
311	Food mfg	-	4	3	g	D	D	D	D	D	D	D	D
3119	Other food mfg	-	1	1	g	D	D	D	D	D	D	D	D
31191	Snack food mfg	-	1	1	g	D	D	D	D	D	D	D	D
311919	Other snack food mfg .	-	1	1	g	D	D	D	D	D	D	D	D
313	Textile mills	-	3	2	g	D	D	D	D	D	D	D	D
3132	Fabric mills	-	3	2	g	D	D	D	D	D	D	D	D
31323	Nonwoven fabric mills ...	-	1	1	f	D	D	D	D	D	D	D	D
313230	Nonwoven fabric mills .	-	1	1	f	D	D	D	D	D	D	D	D
BETHEL PARK, PA													
31-33	Manufacturing	2	49	9	527	15 738	334	610	7 880	28 725	41 220	71 334	1 931
BETHLEHEM, PA *													
31-33	Manufacturing	1	109	53	6 650	237 305	4 279	8 738	126 962	527 214	527 423	1 063 087	46 015
311	Food mfg	2	10	4	574	20 087	380	795	10 499	69 236	46 352	113 802	D
331	Primary metal mfg	1	7	7	1 220	54 692	828	1 915	36 914	68 717	169 047	254 862	7 677
332	Fabricated metal product mfg	-	19	8	631	22 020	447	920	13 387	49 881	56 097	102 483	2 398
339	Miscellaneous mfg	-	12	2	g	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	-	7	1	g	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	7	1	g	D	D	D	D	D	D	D	D
339112	Surgical & medical instrument mfg	-	4	1	g	D	D	D	D	D	D	D	D
BLAIRSVILLE, PA													
31-33	Manufacturing	-	16	7	801	27 247	563	1 073	15 821	38 057	28 646	67 089	2 225

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
BLOOMSBURG, PA													
31-33	Manufacturing	-	29	12	2 483	71 226	1 946	4 324	46 394	128 049	189 528	319 716	14 962
314	Textile product mills.....	-	2	2	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills....	-	2	2	f	D	D	D	D	D	D	D	D
31411	Carpet & rug mills	-	1	1	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	4	3	550	21 422	349	955	12 313	7 803	53 400	63 245	D
BOYERTOWN, PA													
31-33	Manufacturing	2	22	12	1 216	33 337	983	1 840	23 286	81 344	63 112	145 225	2 756
BRACKENRIDGE, PA													
31-33	Manufacturing	-	6	2	h	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	1	1	g	D	D	D	D	D	D	D	D
3311	Iron & steel mills & ferroalloy mfg	-	1	1	g	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	1	1	g	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	1	1	g	D	D	D	D	D	D	D	D
BRADDOCK, PA													
31-33	Manufacturing	-	7	4	785	26 034	670	1 436	21 099	57 360	41 605	99 172	2 587
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	D
BRADFORD, PA													
31-33	Manufacturing	-	25	14	2 675	75 708	2 086	4 064	53 429	240 008	176 597	413 811	D
332	Fabricated metal product mfg	-	5	3	528	17 707	372	786	12 430	42 991	19 283	61 679	D
339	Miscellaneous mfg.....	-	4	2	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	4	2	g	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	-	3	1	g	D	D	D	D	D	D	D	D
339999	All other miscellaneous mfg	-	2	1	g	D	D	D	D	D	D	D	D
BRIDGEPORT, PA													
31-33	Manufacturing	4	31	13	603	17 499	449	909	10 815	45 580	39 453	83 730	2 198
BRIDGEVILLE, PA													
31-33	Manufacturing	1	15	7	844	28 063	627	1 232	19 200	99 643	97 405	198 728	7 616
BRISTOL, PA													
31-33	Manufacturing	-	23	8	1 216	37 984	939	1 987	25 315	181 281	157 092	338 442	6 236

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
BRISTOL TOWNSHIP, PA													
31-33	Manufacturing	-	130	50	5 943	241 045	3 463	6 672	114 273	478 417	779 894	1 210 036	35 748
315	Apparel mfg	-	7	4	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	6	4	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	2	2	g	D	D	D	D	D	D	D	D
315234	Women's & girls' cut & sew suit, coat, skirt mfg	-	1	1	g	D	D	D	D	D	D	D	D
325	Chemical mfg	1	14	5	1 201	70 322	606	1 533	32 323	27 855	307 559	347 034	D
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	-	2	2	f	D	D	D	D	D	D	D	D
32521	Resin & synthetic rubber mfg	-	2	2	f	D	D	D	D	D	D	D	D
325211	Plastics material & resin mfg	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	29	7	809	29 995	712	1 617	21 939	57 402	44 598	102 537	8 386
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	12	4	540	21 440	484	1 133	16 050	36 696	27 135	64 057	6 311
334	Computer & electronic product mfg	-	14	9	711	23 775	354	615	6 539	61 402	59 186	116 838	1 625
BROOKVILLE, PA													
31-33	Manufacturing	-	18	9	1 190	29 985	1 022	2 018	22 141	112 010	113 718	222 523	6 866
BUTLER, PA													
31-33	Manufacturing	4	40	16	1 420	35 591	1 000	2 033	22 564	76 227	90 823	171 790	5 881
BUTLER TOWNSHIP, PA													
31-33	Manufacturing	-	15	4	h	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	1	1	h	D	D	D	D	D	D	D	D
3311	Iron & steel mills & ferroalloy mfg	-	1	1	h	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	1	1	h	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	1	1	h	D	D	D	D	D	D	D	D
CALN TOWNSHIP, PA													
31-33	Manufacturing	-	13	10	2 154	102 693	1 402	3 046	62 801	267 475	221 706	497 194	9 587
331	Primary metal mfg	-	2	2	g	D	D	D	D	D	D	D	D
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
CAMP HILL, PA													
31-33	Manufacturing	-	17	7	g	D	D	D	D	D	D	D	9 720
311	Food mfg	-	5	4	f	D	D	D	D	D	D	D	4 285
322	Paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32222	Paper bag & coated & treated paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
322222	Coated & laminated paper mfg	-	1	1	f	D	D	D	D	D	D	D	D
CANONSBURG, PA													
31-33	Manufacturing	1	24	9	1 120	31 398	653	1 249	16 609	65 941	54 515	119 669	4 602
CARBONDALE, PA													
31-33	Manufacturing	1	13	6	586	16 825	460	1 117	11 256	62 340	80 295	141 828	4 237

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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CARLISLE, PA													
31-33	Manufacturing	-	48	25	5 025	175 387	3 767	7 858	113 519	569 478	489 379	1 049 538	42 552
314	Textile product mills.....	-	1	1	f	D	D	D	D	D	D	D	D
3141	Textile furnishings mills....	-	1	1	f	D	D	D	D	D	D	D	D
31411	Carpet & rug mills	-	1	1	f	D	D	D	D	D	D	D	D
314110	Carpet & rug mills	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	4	2	g	D	D	D	D	D	D	D	D
3262	Rubber product mfg	-	3	2	g	D	D	D	D	D	D	D	D
32621	Tire mfg	-	2	1	f	D	D	D	D	D	D	D	D
326211	Tire mfg (except retreading)	-	1	1	f	D	D	D	D	D	D	D	D
32629	Other rubber product mfg	-	1	1	f	D	D	D	D	D	D	D	D
326299	All other rubber product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	3	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	-	6	5	945	31 638	729	1 542	22 691	100 195	45 282	142 310	2 884
3344	Semiconductor & other electronic component mfg	-	6	5	945	31 638	729	1 542	22 691	100 195	45 282	142 310	2 884
33441	Semiconductor & other electronic component mfg	-	6	5	945	31 638	729	1 542	22 691	100 195	45 282	142 310	2 884
CARNEGIE, PA													
31-33	Manufacturing	1	25	11	530	19 007	373	707	9 507	37 921	35 443	73 308	1 899
CECIL TOWNSHIP, PA													
31-33	Manufacturing	-	21	13	1 033	36 923	518	1 115	14 026	62 915	96 728	153 542	9 259
CENTER TOWNSHIP, PA													
31-33	Manufacturing	-	6	2	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	2	2	f	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing.....	-	1	1	f	D	D	D	D	D	D	D	D
33141	Nonferrous metal (except aluminum) smelting & refining	-	1	1	f	D	D	D	D	D	D	D	D
331419	Other nonferrous metal primary smelting & refining.....	-	1	1	f	D	D	D	D	D	D	D	D
CHAMBERSBURG, PA													
31-33	Manufacturing	1	44	17	3 276	81 647	2 677	5 168	57 101	196 945	187 734	373 821	21 537
315	Apparel mfg	9	2	2	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	9	2	2	f	D	D	D	D	D	D	D	D
31522	Men's & boys' cut & sew apparel mfg.....	9	2	2	f	D	D	D	D	D	D	D	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg.....	9	1	1	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	2	1	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	2	1	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	2	1	f	D	D	D	D	D	D	D	D
335312	Motor & generator mfg	-	1	1	f	D	D	D	D	D	D	D	D
CHARLEROI, PA													
31-33	Manufacturing	-	13	6	797	24 059	675	1 368	18 033	84 346	40 818	127 597	4 944
327	Nonmetallic mineral product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .	-	1	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	1	1	f	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg.....	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CHELTENHAM TOWNSHIP, PA													
31-33	Manufacturing	-	45	6	1 843	84 598	1 271	2 578	61 679	136 174	75 144	211 107	6 249
332	Fabricated metal product mfg	-	6	1	g	D	D	D	D	D	D	D	D
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	3	1	g	D	D	D	D	D	D	D	D
33272	Turned product & screw, nut, & bolt mfg	-	3	1	g	D	D	D	D	D	D	D	D
332722	Bolt, nut, screw, rivet, & washer mfg	-	2	1	g	D	D	D	D	D	D	D	D
CHESTER, PA													
31-33	Manufacturing	-	34	20	2 372	101 335	1 831	3 774	72 368	534 383	264 123	782 617	49 837
322	Paper mfg	-	2	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
CLARION, PA													
31-33	Manufacturing	-	7	4	850	28 407	732	1 286	23 388	100 731	75 273	176 949	D
CLEARFIELD, PA													
31-33	Manufacturing	-	15	6	1 258	32 264	1 085	2 607	25 891	92 597	115 959	209 105	10 259
334	Computer & electronic product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	1	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	1	1	f	D	D	D	D	D	D	D	D
334417	Electronic connector mfg	-	1	1	f	D	D	D	D	D	D	D	D
COLLEGEVILLE, PA													
31-33	Manufacturing	-	8	3	658	21 368	512	1 045	13 928	33 120	17 149	51 531	D
COLUMBIA, PA													
31-33	Manufacturing	-	17	9	2 008	58 008	1 650	3 414	42 838	186 345	197 438	380 280	11 109
332	Fabricated metal product mfg	-	3	1	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
33291	Metal valve mfg	-	1	1	g	D	D	D	D	D	D	D	D
332919	Other metal valve & pipe fitting mfg	-	1	1	g	D	D	D	D	D	D	D	D
CONSHOHOCKEN, PA													
31-33	Manufacturing	1	35	21	2 711	101 169	2 055	3 918	70 777	222 163	345 702	565 034	15 413
323	Printing & related support activities	6	4	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	6	4	2	f	D	D	D	D	D	D	D	D
32311	Printing	6	4	2	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	6	4	2	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	3	2	f	D	D	D	D	D	D	D	D
3311	Iron & steel mills & ferroalloy mfg	-	2	2	f	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	2	2	f	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	2	2	f	D	D	D	D	D	D	D	D

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
CORRY, PA													
31-33	Manufacturing	2	24	11	1 738	58 509	1 274	2 381	35 395	145 010	112 138	257 573	14 469
326	Plastics & rubber products mfg	4	6	5	744	21 871	589	918	12 434	72 219	70 115	142 071	10 424
3261	Plastics product mfg	4	5	4	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	—	4	3	f	D	D	D	D	D	D	D	D
326199	All other plastics product mfg	—	4	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	—	12	5	f	D	D	D	D	D	D	D	D
CRAFTON, PA													
31-33	Manufacturing	5	7	4	546	15 274	379	644	9 433	35 079	15 474	51 366	D
CRANBERRY TOWNSHIP, PA													
31-33	Manufacturing	—	32	12	1 861	60 977	1 250	2 532	31 778	177 812	124 980	297 548	9 802
332	Fabricated metal product mfg	—	9	6	1 215	35 880	878	1 840	20 050	92 968	59 274	151 849	3 893
3323	Architectural & structural metals mfg	—	4	3	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	—	3	3	f	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	—	1	1	f	D	D	D	D	D	D	D	D
CURWENSVILLE, PA													
31-33	Manufacturing	—	5	4	689	13 901	575	1 105	10 139	43 896	75 481	118 049	D
DALLAS, PA													
31-33	Manufacturing	—	6	4	986	29 802	780	1 569	22 037	69 857	24 327	93 949	D
323	Printing & related support activities	—	2	2	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	—	2	2	f	D	D	D	D	D	D	D	D
32311	Printing	—	2	2	f	D	D	D	D	D	D	D	D
323117	Book printing	—	1	1	f	D	D	D	D	D	D	D	D
DANVILLE, PA													
31-33	Manufacturing	—	11	5	g	D	D	D	D	D	D	D	D
325	Chemical mfg	—	2	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
325411	Medicinal & botanical mfg	—	1	1	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	2	2	f	D	D	D	D	D	D	D	D
DENVER, PA													
31-33	Manufacturing	—	20	15	2 654	80 529	2 024	3 817	62 569	247 697	198 862	446 184	14 295
311	Food mfg	—	6	3	1 023	36 662	880	1 655	31 905	160 862	70 347	234 180	3 887
3118	Bakeries & tortilla mfg	—	1	1	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	—	1	1	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg	—	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
DERRY TOWNSHIP, PA (DAUPHIN COUNTY)													
31-33	Manufacturing	-	16	7	i	D	D	D	D	D	D	D	D
311	Food mfg	-	4	4	i	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg	-	3	3	i	D	D	D	D	D	D	D	D
31132	Chocolate & confectionery mfg from cacao beans	-	1	1	h	D	D	D	D	D	D	D	D
311320	Chocolate & confectionery mfg from cacao beans ...	-	1	1	h	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate ...	-	2	2	g	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate	-	2	2	g	D	D	D	D	D	D	D	D
DERRY TOWNSHIP, PA (WESTMORELAND COUNTY)													
31-33	Manufacturing	-	26	7	f	D	D	D	D	D	D	D	5 676
DONORA, PA													
31-33	Manufacturing	1	17	6	530	16 961	354	699	9 693	56 759	49 143	104 776	10 753
DOWNTOWN, PA													
31-33	Manufacturing	-	36	16	1 483	54 358	1 202	2 500	39 923	193 401	152 182	344 776	8 370
322	Paper mfg	-	5	5	594	23 985	500	1 271	18 887	72 072	84 871	156 264	5 512
DUBOIS, PA													
31-33	Manufacturing	1	27	12	1 253	35 756	801	1 544	19 675	92 425	195 580	287 847	7 628
DUNMORE, PA													
31-33	Manufacturing	-	16	9	1 897	67 374	1 518	3 408	48 494	224 801	298 643	521 990	8 485
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
334411	Electron tube mfg	-	1	1	g	D	D	D	D	D	D	D	D
DURYEA, PA													
31-33	Manufacturing	-	12	6	770	25 353	501	1 028	14 445	71 662	59 378	129 178	D
EAST GREENVILLE, PA													
31-33	Manufacturing	-	6	3	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	1	1	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	1	1	f	D	D	D	D	D	D	D	D
32311	Printing	-	1	1	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
EAST HEMPFIELD TOWNSHIP, PA													
31-33	Manufacturing	-	68	38	4 977	176 727	3 530	7 415	105 677	709 329	655 102	1 326 391	43 764
311	Food mfg	1	10	7	2 005	74 173	1 557	3 659	54 789	457 167	323 105	744 384	28 912
3112	Grain & oilseed milling	-	1	1	f	D	D	D	D	D	D	D	D
31123	Breakfast cereal mfg	-	1	1	f	D	D	D	D	D	D	D	D
311230	Breakfast cereal mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg	-	2	2	f	D	D	D	D	D	D	D	D
31134	Nonchocolate confectionery mfg	-	2	2	f	D	D	D	D	D	D	D	D
311340	Nonchocolate confectionery mfg ...	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	16	9	1 116	39 933	750	1 503	18 964	89 050	66 203	154 425	4 494
3329	Other fabricated metal product mfg	-	5	5	667	25 875	403	817	9 762	59 222	37 051	95 419	3 194
EAST LAMPETER TOWNSHIP, PA													
31-33	Manufacturing	1	55	25	2 365	70 722	1 826	3 483	41 627	155 351	125 375	272 960	6 719
332	Fabricated metal product mfg	-	9	6	952	29 836	830	1 405	18 133	60 292	41 317	93 502	722
3323	Architectural & structural metals mfg	-	1	1	f	D	D	D	D	D	D	D	D
33231	Plate work & fabricated structural product mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
332312	Fabricated structural metal mfg	-	1	1	f	D	D	D	D	D	D	D	D
EASTON, PA													
31-33	Manufacturing	-	53	23	3 748	112 430	3 028	6 215	81 873	430 301	231 754	639 521	34 287
326	Plastics & rubber products mfg	-	4	4	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	4	4	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	-	3	2	g	D	D	D	D	D	D	D	D
3399	Other miscellaneous mfg ..	-	3	2	g	D	D	D	D	D	D	D	D
33994	Office supplies (except paper) mfg	-	1	1	g	D	D	D	D	D	D	D	D
339942	Lead pencil & art good mfg	-	1	1	g	D	D	D	D	D	D	D	D
EAST STROUDSBURG, PA													
31-33	Manufacturing	1	28	11	1 292	44 078	980	2 021	28 738	154 240	80 847	237 104	6 419
ELIZABETHTOWN, PA													
31-33	Manufacturing	-	18	8	983	39 639	699	1 294	23 069	269 018	158 680	427 445	3 329
311	Food mfg	-	3	2	f	D	D	D	D	D	D	D	D
3113	Sugar & confectionery product mfg	-	2	2	f	D	D	D	D	D	D	D	D
ELLWOOD CITY, PA *													
31-33	Manufacturing	-	26	12	1 308	42 638	983	1 845	26 094	221 566	189 666	407 947	13 972
332	Fabricated metal product mfg	1	12	4	506	21 495	352	716	12 379	50 154	59 481	108 517	4 502
EPHRATA, PA													
31-33	Manufacturing	1	34	14	1 230	39 479	1 032	2 219	29 633	83 898	70 995	155 028	4 043

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ERIE, PA													
31-33	Manufacturing	-	203	92	10 286	357 249	7 180	15 181	225 748	937 786	823 182	1 788 955	74 349
311	Food mfg	1	11	5	f	D	D	D	D	D	D	D	D
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
326	Plastics & rubber products mfg	1	16	9	1 327	45 038	947	2 042	28 526	113 730	87 084	199 269	D
3261	Plastics product mfg	2	15	8	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	2	13	7	f	D	D	D	D	D	D	D	8 845
326199	All other plastics product mfg	2	13	7	f	D	D	D	D	D	D	D	8 845
331	Primary metal mfg	-	11	8	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	-	68	28	2 713	93 641	2 049	4 188	59 479	213 418	186 386	414 037	9 357
3327	Machine shops, turned product, & screw, nut, & bolt mfg	-	23	5	984	30 096	822	1 754	22 547	56 702	34 731	91 655	4 404
33271	Machine shops	-	19	3	846	26 284	715	1 542	19 655	48 262	30 300	78 794	3 155
332710	Machine shops	-	19	3	846	26 284	715	1 542	19 655	48 262	30 300	78 794	3 155
333	Machinery mfg	-	27	17	1 425	55 959	885	1 935	30 783	117 742	100 341	216 389	D
3339	Other general-purpose machinery mfg	1	5	5	631	22 694	326	750	11 214	51 589	31 940	81 919	2 420
334	Computer & electronic product mfg	-	3	3	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	2	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	2	2	f	D	D	D	D	D	D	D	D
334514	Totalizing fluid meter & counting device mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
FALLS TOWNSHIP, PA													
31-33	Manufacturing	-	54	27	2 705	119 957	2 037	4 605	86 443	187 571	730 882	917 724	32 286
331	Primary metal mfg	-	2	2	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
FERGUSON TOWNSHIP, PA													
31-33	Manufacturing	-	10	3	g	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	-	3	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
334414	Electronic capacitor mfg	-	1	1	g	D	D	D	D	D	D	D	D
FLEETWOOD, PA													
31-33	Manufacturing	-	16	5	914	24 882	783	1 453	20 987	48 089	166 544	215 521	3 919
FOLCROFT, PA													
31-33	Manufacturing	1	21	11	874	29 396	679	1 226	16 501	98 074	189 383	289 486	2 069
FORD CITY, PA													
31-33	Manufacturing	-	8	2	f	D	D	D	D	D	D	D	470
FRACKVILLE, PA													
31-33	Manufacturing	-	8	5	620	11 353	506	1 001	9 046	35 993	59 531	97 277	1 128

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

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NAICS code	Geographic area and industry	All establishments			All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
FRANKLIN, PA													
31-33	Manufacturing	7	24	12	2 134	78 027	1 437	3 094	45 155	195 969	335 549	527 601	11 626
333	Machinery mfg	9	3	2	g	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg.	9	1	1	g	D	D	D	D	D	D	D	D
33313	Mining & oil & gas field machinery mfg.	9	1	1	g	D	D	D	D	D	D	D	D
333131	Mining machinery & equipment mfg.	9	1	1	g	D	D	D	D	D	D	D	D
GETTYSBURG, PA													
31-33	Manufacturing	-	10	3	539	10 101	503	1 081	9 378	46 129	8 785	53 659	1 342
GIRARD, PA													
31-33	Manufacturing	1	22	13	686	16 215	544	974	10 494	43 800	41 716	84 521	D
GREENCASTLE, PA													
31-33	Manufacturing	-	22	13	1 956	52 862	1 373	2 735	31 927	259 515	371 827	621 923	7 779
332	Fabricated metal product mfg.	-	9	5	511	13 829	400	814	10 475	50 974	44 328	90 669	1 276
GREENSBURG, PA													
31-33	Manufacturing	1	67	19	1 386	39 149	954	1 781	24 846	73 940	55 609	131 522	4 875
332	Fabricated metal product mfg.	1	19	8	515	16 706	355	688	10 316	30 642	18 867	50 418	2 759
GREENVILLE, PA													
31-33	Manufacturing	-	13	6	1 035	35 224	889	1 871	23 524	50 142	202 691	250 126	D
336	Transportation equipment mfg.	-	1	1	f	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg. . .	-	1	1	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg.	-	1	1	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg.	-	1	1	f	D	D	D	D	D	D	D	D
GROVE CITY, PA													
31-33	Manufacturing	-	13	6	1 023	36 832	669	1 318	20 981	87 155	84 078	173 930	4 206
HAMBURG, PA													
31-33	Manufacturing	-	21	10	1 038	27 528	815	1 611	18 470	54 783	93 128	145 217	4 387
HAMPDEN TOWNSHIP, PA													
31-33	Manufacturing	-	24	4	735	22 742	534	1 133	13 768	60 672	88 110	149 269	4 477
HANOVER, PA													
31-33	Manufacturing	-	69	38	6 214	202 124	4 382	8 513	120 914	588 939	589 880	1 176 918	31 699
311	Food mfg.	-	8	7	g	D	D	D	D	D	D	D	D
3119	Other food mfg.	-	7	7	1 989	67 791	1 040	2 216	26 578	211 790	109 036	321 016	10 992
31191	Snack food mfg.	-	7	7	1 989	67 791	1 040	2 216	26 578	211 790	109 036	321 016	10 992
311919	Other snack food mfg. .	-	7	7	1 989	67 791	1 040	2 216	26 578	211 790	109 036	321 016	10 992
331	Primary metal mfg.	-	4	4	658	16 471	517	1 021	11 180	37 843	46 586	83 423	2 973
332	Fabricated metal product mfg.	-	12	5	612	22 380	519	1 103	17 619	94 786	110 911	206 872	3 240
333	Machinery mfg.	-	5	3	f	D	D	D	D	D	D	D	3 421
336	Transportation equipment mfg.	-	1	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
33633	Motor vehicle steering & suspension component (except spring) mfg.	-	1	1	f	D	D	D	D	D	D	D	D
336330	Motor vehicle steering & suspension component (except spring) mfg.	-	1	1	f	D	D	D	D	D	D	D	D

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

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NAICS code	Geographic area and industry	All establishments			All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
HARRISBURG, PA													
31-33	Manufacturing	2	58	24	2 299	69 906	1 731	3 663	48 684	223 366	263 690	478 916	12 870
HATBORO, PA													
31-33	Manufacturing	3	41	6	546	18 561	339	711	9 162	36 287	29 988	66 095	2 082
HATFIELD, PA													
31-33	Manufacturing	-	9	7	722	24 344	427	794	10 493	62 296	24 437	87 320	1 735
HATFIELD TOWNSHIP, PA													
31-33	Manufacturing	-	73	36	4 640	153 771	2 900	5 739	79 650	366 118	507 719	876 857	28 262
311	Food mfg.....	-	7	4	1 723	59 385	959	1 913	28 180	108 289	302 259	413 095	16 105
3116	Meat product mfg.....	-	1	1	g	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing.....	-	1	1	g	D	D	D	D	D	D	D	D
311611	Animal (except poultry) slaughtering.....	-	1	1	g	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	1	6	5	765	17 931	631	1 261	13 598	50 938	47 172	98 553	D
3261	Plastics product mfg.....	1	5	4	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg.....	1	3	3	705	16 479	581	1 175	12 529	46 701	45 471	92 606	2 753
326199	All other plastics product mfg.....	1	3	3	705	16 479	581	1 175	12 529	46 701	45 471	92 606	2 753
332	Fabricated metal product mfg.....	-	14	9	733	28 142	459	939	15 862	74 964	62 604	139 653	3 518
HAZLETON, PA													
31-33	Manufacturing	-	70	39	5 575	158 610	4 374	9 053	114 574	625 358	586 956	1 214 453	34 815
311	Food mfg.....	-	11	7	1 081	30 623	815	1 506	23 424	262 249	145 187	405 784	5 833
3118	Bakeries & tortilla mfg.....	-	7	4	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg.....	-	6	3	f	D	D	D	D	D	D	D	1 609
311812	Commercial bakeries ..	-	4	3	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg.....	-	9	7	1 490	43 930	1 229	2 689	33 968	145 682	216 678	363 201	D
3261	Plastics product mfg.....	-	9	7	1 490	43 930	1 229	2 689	33 968	145 682	216 678	363 201	D
32611	Unsupported plastics film, sheet, & bag mfg ..	-	3	2	f	D	D	D	D	D	D	D	D
326111	Unsupported plastics bag mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg.....	-	7	3	508	17 718	285	562	9 553	42 413	38 582	85 725	3 572
HEMPFIELD TOWNSHIP, PA													
31-33	Manufacturing	2	28	11	1 225	37 000	952	1 831	26 934	45 275	53 865	101 645	3 202
HERMITAGE, PA													
31-33	Manufacturing	1	21	6	766	22 180	628	1 130	15 147	67 573	70 745	135 716	5 051
HILLTOWN TOWNSHIP, PA													
31-33	Manufacturing	-	24	11	781	27 581	547	1 100	15 326	64 813	53 399	120 388	2 920

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
HORSHAM TOWNSHIP, PA													
31-33	Manufacturing	2	74	33	4 312	144 869	3 039	6 213	85 713	326 984	277 122	601 302	18 961
315	Apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	1	1	f	D	D	D	D	D	D	D	D
315233	Women's & girls' cut & sew dress mfg	-	1	1	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	3	20	5	1 429	54 203	1 172	2 186	38 326	118 271	44 563	163 063	5 117
3231	Printing & related support activities	3	20	5	1 429	54 203	1 172	2 186	38 326	118 271	44 563	163 063	5 117
32312	Support activities for printing	-	5	3	g	D	D	D	D	D	D	D	D
323122	Prepress services	-	4	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg	2	16	9	944	34 783	487	1 007	13 440	72 776	48 290	121 525	3 337
3345	Navigational, measuring, medical, & control instruments mfg	3	8	5	556	20 002	263	566	7 218	49 284	25 612	73 823	1 739
33451	Navigational, measuring, medical, & control instruments mfg	3	8	5	556	20 002	263	566	7 218	49 284	25 612	73 823	1 739
HUNTINGDON, PA													
31-33	Manufacturing	-	8	5	703	20 472	569	1 098	14 532	95 850	34 778	133 129	D
327	Nonmetallic mineral product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .	-	1	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	1	1	f	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	-	1	1	f	D	D	D	D	D	D	D	D
INDIANA, PA													
31-33	Manufacturing	-	25	8	954	25 227	767	1 412	20 130	34 285	59 098	124 108	3 703
JEANNETTE, PA													
31-33	Manufacturing	-	21	9	1 924	78 567	1 146	1 715	39 402	185 475	96 228	275 986	20 112
333	Machinery mfg	-	2	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
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
JERSEY SHORE, PA													
31-33	Manufacturing	1	15	7	598	12 543	544	1 064	10 442	39 059	31 214	70 233	3 106
JOHNSONBURG, PA													
31-33	Manufacturing	-	6	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 ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
JOHNSTOWN, PA													
31-33	Manufacturing	1	49	20	4 264	112 401	2 659	4 817	71 606	348 876	626 556	989 371	15 224
315	Apparel mfg	-	2	1	g	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	1	1	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	1	1	g	D	D	D	D	D	D	D	D
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	-	1	1	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	5	4	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	-	2	2	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	-	2	2	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	-	2	2	f	D	D	D	D	D	D	D	D
KANE, PA													
31-33	Manufacturing	1	13	5	646	18 105	581	956	15 627	49 243	58 337	106 693	2 448
KITTANNING, PA													
31-33	Manufacturing	1	20	7	602	12 429	496	830	8 353	39 529	33 179	72 916	3 486
KUTZTOWN, PA													
31-33	Manufacturing	2	19	6	674	15 891	552	1 087	11 592	33 549	35 420	68 782	1 540
LAKE CITY, PA													
31-33	Manufacturing	-	18	9	991	28 579	740	1 502	17 234	62 203	56 161	118 217	2 760
LANCASTER, PA													
31-33	Manufacturing	-	108	44	9 758	382 177	7 699	15 461	266 842	1 148 243	911 702	2 038 475	78 984
311	Food mfg	-	10	4	969	30 254	650	1 488	17 704	60 961	141 434	199 817	4 640
323	Printing & related support activities	-	24	7	h	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	24	7	h	D	D	D	D	D	D	D	D
32311	Printing	-	18	6	h	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	11	5	h	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	6	5	g	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	4	3	g	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	-	3	2	g	D	D	D	D	D	D	D	D
326192	Resilient floor covering mfg	-	1	1	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	20	7	981	33 427	708	1 357	17 994	70 534	80 130	150 699	4 313
334	Computer & electronic product mfg	-	6	5	f	D	D	D	D	D	D	D	D
LANSDALE, PA													
31-33	Manufacturing	-	62	23	3 370	117 435	2 164	4 453	62 251	305 402	263 071	570 957	18 232
323	Printing & related support activities	-	9	3	654	18 147	334	728	9 152	86 138	36 180	122 187	D
3231	Printing & related support activities	-	9	3	654	18 147	334	728	9 152	86 138	36 180	122 187	D
32311	Printing	-	7	3	f	D	D	D	D	D	D	D	D
323116	Manifold business form printing	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	24	7	1 388	49 490	938	1 835	25 944	117 835	141 164	258 982	6 510
3329	Other fabricated metal product mfg	-	2	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
332913	Plumbing fixture fitting & trim mfg	-	1	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	6	5	608	22 188	419	908	13 912	49 001	43 250	95 934	D
3339	Other general-purpose machinery mfg	-	4	4	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LATROBE, PA													
31-33	Manufacturing	2	74	24	3 031	117 065	2 329	4 608	77 304	272 124	272 823	540 319	31 898
331	Primary metal mfg	-	7	4	g	D	D	D	D	D	D	D	D
3311	Iron & steel mills & ferroalloy mfg	-	3	3	g	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	3	3	g	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	3	3	g	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	21	8	610	21 748	479	1 014	15 782	42 564	23 970	65 628	7 321
LEBANON, PA													
31-33	Manufacturing	3	77	33	3 327	91 915	2 581	5 142	63 701	307 861	480 495	793 693	17 396
311	Food mfg	7	8	3	531	12 958	454	857	10 341	86 237	174 711	262 933	2 916
321	Wood product mfg	-	3	1	f	D	D	D	D	D	D	D	D
3219	Other wood product mfg ...	-	3	1	f	D	D	D	D	D	D	D	D
32191	Millwork	-	2	1	f	D	D	D	D	D	D	D	D
321912	Cut stock, resawing lumber, & planing	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	5	4	f	D	D	D	D	D	D	D	D
LEHIGHTON, PA													
31-33	Manufacturing	2	26	12	1 125	20 512	1 021	1 929	16 168	42 381	20 886	63 134	1 700
315	Apparel mfg	-	7	6	687	9 103	660	1 236	8 038	16 595	1 169	17 759	91
3152	Cut & sew apparel mfg	-	7	6	687	9 103	660	1 236	8 038	16 595	1 169	17 759	91
31521	Cut & sew apparel contractors	-	3	3	f	D	D	D	D	D	D	D	D
315212	Women's, girls', & infants' cut & sew apparel contractors ..	-	3	3	f	D	D	D	D	D	D	D	D
LEWISBURG, PA													
31-33	Manufacturing	-	6	3	f	D	D	D	D	D	D	D	6 328
334	Computer & electronic product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3344	Semiconductor & other electronic component mfg	-	1	1	f	D	D	D	D	D	D	D	D
33441	Semiconductor & other electronic component mfg	-	1	1	f	D	D	D	D	D	D	D	D
334419	Other electronic component mfg	-	1	1	f	D	D	D	D	D	D	D	D
LEWISTOWN, PA													
31-33	Manufacturing	1	28	14	2 398	62 451	1 941	4 072	47 099	165 264	243 668	407 888	11 544
332	Fabricated metal product mfg	-	6	3	f	D	D	D	D	D	D	D	D
3323	Architectural & structural metals mfg	-	1	1	f	D	D	D	D	D	D	D	D
33232	Ornamental & architectural metal products mfg	-	1	1	f	D	D	D	D	D	D	D	D
332321	Metal window & door mfg	-	1	1	f	D	D	D	D	D	D	D	D
LIMERICK TOWNSHIP, PA													
31-33	Manufacturing	-	11	8	507	20 162	389	846	12 110	76 422	37 286	113 522	2 814
LITITZ, PA													
31-33	Manufacturing	-	23	14	1 880	59 832	1 415	2 724	39 087	141 996	321 528	471 425	13 700
311	Food mfg	-	3	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	4	4	f	D	D	D	D	D	D	D	D
LITTLESTOWN, PA													
31-33	Manufacturing	-	12	7	1 080	26 931	920	1 902	21 021	94 822	49 638	145 152	2 008
337	Furniture & related product mfg	-	2	2	f	D	D	D	D	D	D	D	D

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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
LOGAN TOWNSHIP, PA													
31-33	Manufacturing	-	6	2	f	D	D	D	D	D	D	D	D
LOWER GWYNEDD TOWNSHIP, PA													
31-33	Manufacturing	1	9	2	g	D	D	D	D	D	D	D	3 012
334	Computer & electronic product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	1	1	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	1	1	f	D	D	D	D	D	D	D	D
334513	Industrial process control instrument mfg	-	1	1	f	D	D	D	D	D	D	D	D
LOWER MERION TOWNSHIP, PA													
31-33	Manufacturing	2	53	10	831	22 029	576	1 044	13 424	48 584	96 243	147 778	5 325
LOWER MORELAND TOWNSHIP, PA													
31-33	Manufacturing	1	53	17	1 221	47 323	773	1 665	25 619	141 714	100 746	240 077	6 841
LOWER PROVIDENCE TOWNSHIP, PA													
31-33	Manufacturing	-	25	8	1 100	43 322	725	1 503	21 668	81 911	42 213	124 132	7 050
LOWER SALFORD TOWNSHIP, PA													
31-33	Manufacturing	-	17	9	579	20 317	384	877	9 950	51 325	44 446	95 119	2 482
LOWER SOUTHAMPTON TOWNSHIP, PA													
31-33	Manufacturing	2	85	22	1 572	56 641	1 070	2 178	31 870	137 826	117 155	255 846	7 046
MCKEESPORT, PA													
31-33	Manufacturing	1	24	9	827	30 700	602	1 135	20 636	67 127	44 080	110 955	6 036
MCKEES ROCKS, PA													
31-33	Manufacturing	-	30	13	953	28 556	590	1 182	16 706	87 657	87 991	176 423	4 026
MACUNGIE, PA													
31-33	Manufacturing	-	8	5	2 095	94 280	1 169	2 779	68 735	339 675	407 388	742 180	D
336	Transportation equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
3361	Motor vehicle mfg	-	1	1	g	D	D	D	D	D	D	D	D
33612	Heavy duty truck mfg ...	-	1	1	g	D	D	D	D	D	D	D	D
336120	Heavy duty truck mfg .	-	1	1	g	D	D	D	D	D	D	D	D
MALVERN, PA													
31-33	Manufacturing	1	32	17	1 884	71 966	1 201	2 781	39 160	197 319	203 457	400 087	11 666

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MANCHESTER TOWNSHIP, PA													
31-33	Manufacturing	-	66	41	4 894	167 105	3 417	7 311	100 685	343 303	404 200	743 630	27 784
323	Printing & related support activities.....	-	6	4	789	24 650	522	1 086	13 279	41 812	26 066	67 217	2 841
3231	Printing & related support activities.....	-	6	4	789	24 650	522	1 086	13 279	41 812	26 066	67 217	2 841
32312	Support activities for printing.....	-	2	2	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	14	9	1 543	56 559	944	2 036	28 986	91 725	142 450	235 355	8 229
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	-	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	-	6	4	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.....	2	6	4	613	20 513	464	1 045	15 119	43 461	27 661	70 502	D
3399	Other miscellaneous mfg ..	2	4	3	f	D	D	D	D	D	D	D	D
MANHEIM, PA													
31-33	Manufacturing	2	22	8	914	31 084	632	1 157	17 850	71 224	51 991	125 547	5 736
MANHEIM TOWNSHIP, PA													
31-33	Manufacturing	-	50	24	3 055	116 251	2 054	4 103	71 318	265 430	457 113	705 399	39 663
323	Printing & related support activities.....	-	9	5	562	19 512	369	785	11 491	58 355	11 152	69 474	2 936
3231	Printing & related support activities.....	-	9	5	562	19 512	369	785	11 491	58 355	11 152	69 474	2 936
32311	Printing	-	8	5	f	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 ..	-	1	1	g	D	D	D	D	D	D	D	D
33131	Alumina & aluminum production & processing.....	-	1	1	g	D	D	D	D	D	D	D	D
331315	Aluminum sheet, plate, & foil mfg	-	1	1	g	D	D	D	D	D	D	D	D
MARCUS HOOK, PA													
31-33	Manufacturing	-	7	4	g	D	D	D	D	D	D	D	D
324	Petroleum & coal products mfg	-	1	1	f	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	-	1	1	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries ...	-	1	1	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	-	1	1	f	D	D	D	D	D	D	D	D
MARIETTA, PA													
31-33	Manufacturing	-	5	5	g	D	D	D	D	D	D	D	D
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
327	Nonmetallic mineral product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3279	Other nonmetallic mineral product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32799	All other nonmetallic mineral product mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
327993	Mineral wool mfg	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MEADVILLE, PA													
31-33	Manufacturing	-	103	42	3 770	130 930	2 767	5 263	80 253	345 762	159 098	502 873	25 315
332	Fabricated metal product mfg	-	24	5	809	24 884	647	1 290	16 095	61 900	19 010	80 607	3 205
3322	Cutlery & handtool mfg	-	2	1	f	D	D	D	D	D	D	D	D
33221	Cutlery & handtool mfg	-	2	1	f	D	D	D	D	D	D	D	D
332212	Hand & edge tool mfg	-	2	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	52	26	1 353	53 407	1 000	2 015	34 512	96 088	41 418	135 007	7 215
3335	Metalworking machinery mfg	-	46	23	1 079	44 690	861	1 810	31 361	75 251	23 972	96 699	D
33351	Metalworking machinery mfg	-	46	23	1 079	44 690	861	1 810	31 361	75 251	23 972	96 699	D
333514	Special die & tool, die set, jig, & fixture mfg	-	29	15	668	28 670	531	1 160	20 074	46 428	13 839	60 159	4 424
MECHANICSBURG, PA													
31-33	Manufacturing	-	24	10	1 861	59 097	1 104	3 161	40 791	116 324	110 274	229 344	D
323	Printing & related support activities.....	-	7	4	g	D	D	D	D	D	D	D	D
3231	Printing & related support activities.....	-	7	4	g	D	D	D	D	D	D	D	D
32311	Printing	-	7	4	g	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing	-	3	1	g	D	D	D	D	D	D	D	D
MIDDLETOWN TOWNSHIP, PA (BUCKS COUNTY)													
31-33	Manufacturing	2	29	14	948	36 685	527	1 069	15 949	119 874	141 648	258 517	5 213
MIDDLETOWN TOWNSHIP, PA (DELAWARE COUNTY)													
31-33	Manufacturing	7	13	4	560	21 868	389	888	13 091	82 097	108 990	191 180	4 639
MIDLAND, PA													
31-33	Manufacturing	-	9	4	f	D	D	D	D	D	D	D	1 070
331	Primary metal mfg	-	2	2	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
MIFFLINBURG, PA													
31-33	Manufacturing	4	11	4	892	20 711	756	1 557	15 621	50 840	44 393	95 100	D
MILLCREEK TOWNSHIP, PA													
31-33	Manufacturing	1	128	58	6 082	204 933	4 434	9 039	125 410	413 260	291 859	720 082	27 234
326	Plastics & rubber products mfg	-	14	11	1 695	47 845	1 510	3 039	35 217	109 446	103 910	214 499	6 377
3261	Plastics product mfg	-	14	11	1 695	47 845	1 510	3 039	35 217	109 446	103 910	214 499	6 377
32619	Other plastics product mfg	-	9	7	1 438	38 990	1 325	2 656	29 612	91 440	88 560	180 959	5 063
326199	All other plastics product mfg	-	9	7	1 438	38 990	1 325	2 656	29 612	91 440	88 560	180 959	5 063
332	Fabricated metal product mfg	1	32	18	1 268	34 625	938	1 894	21 499	79 283	47 929	126 870	6 465
333	Machinery mfg	1	34	15	g	D	D	D	D	D	D	D	7 059
3335	Metalworking machinery mfg	2	26	13	862	44 112	683	1 616	31 277	77 906	45 088	122 408	4 330
33351	Metalworking machinery mfg	2	26	13	862	44 112	683	1 616	31 277	77 906	45 088	122 408	4 330
333511	Industrial mold mfg ...	-	18	10	624	34 275	518	1 279	25 587	59 065	32 381	90 869	3 190
339	Miscellaneous mfg	-	8	4	g	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	-	6	2	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	6	2	f	D	D	D	D	D	D	D	D
339111	Laboratory apparatus & furniture mfg	-	1	1	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
MILLERSBURG, PA													
31-33	Manufacturing	-	11	6	1 039	22 067	885	1 487	17 409	53 204	36 994	86 614	2 074
333	Machinery mfg	-	4	2	f	D	D	D	D	D	D	D	D
3335	Metalworking machinery mfg	-	4	2	f	D	D	D	D	D	D	D	D
33351	Metalworking machinery mfg	-	4	2	f	D	D	D	D	D	D	D	D
333515	Cutting tool & machine tool accessory mfg ..	-	4	2	f	D	D	D	D	D	D	D	D
MILTON, PA													
31-33	Manufacturing	7	16	11	2 963	93 279	2 300	4 366	76 908	487 539	280 462	769 220	20 231
311	Food mfg	9	1	1	g	D	D	D	D	D	D	D	D
3114	Fruit & vegetable preserving & specialty food mfg	9	1	1	g	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	9	1	1	g	D	D	D	D	D	D	D	D
311422	Specialty canning.....	9	1	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
3365	Railroad rolling stock mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	-	1	1	f	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	-	1	1	f	D	D	D	D	D	D	D	D
MONACA, PA													
31-33	Manufacturing	-	16	9	1 510	66 567	998	2 171	38 635	234 929	279 814	518 697	37 914
327	Nonmetallic mineral product mfg	-	1	1	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .	-	1	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	1	1	f	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	-	1	1	f	D	D	D	D	D	D	D	D
MONTGOMERY TOWNSHIP, PA													
31-33	Manufacturing	3	56	31	2 662	96 356	1 817	3 181	54 630	191 592	189 559	381 394	12 066
334	Computer & electronic product mfg	1	6	4	896	31 186	581	624	18 276	35 910	53 346	88 327	4 793
3342	Communications equipment mfg	-	2	1	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	-	2	1	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	-	2	1	f	D	D	D	D	D	D	D	D
MONTOURSVILLE, PA													
31-33	Manufacturing	-	27	11	1 034	23 755	875	1 538	15 441	43 454	66 678	112 016	4 415
MOOSIC, PA													
31-33	Manufacturing	-	13	4	610	17 307	468	912	11 744	60 792	105 900	162 763	D
MOUNT JOY, PA													
31-33	Manufacturing	1	16	10	1 209	40 472	1 033	1 913	27 608	104 707	96 356	206 254	8 869
MOUNT PLEASANT TOWNSHIP, PA													
31-33	Manufacturing	-	20	10	2 486	79 928	1 744	3 426	48 279	182 868	437 328	618 404	D
334	Computer & electronic product mfg	-	1	1	g	D	D	D	D	D	D	D	D
3343	Audio & video equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
33431	Audio & video equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
334310	Audio & video equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D

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MOUNT UNION, PA													
31-33	Manufacturing	-	4	4	859	19 101	745	1 296	15 360	142 264	68 840	216 098	D
MUHLENBERG TOWNSHIP, PA													
31-33	Manufacturing	1	36	13	2 024	76 256	1 244	2 642	39 694	175 188	234 769	408 000	18 363
326	Plastics & rubber products mfg	-	4	2	508	16 406	402	893	11 390	31 495	32 454	63 998	D
3261	Plastics product mfg	-	4	2	508	16 406	402	893	11 390	31 495	32 454	63 998	D
339	Miscellaneous mfg	-	1	1	f	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	-	1	1	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	1	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
MUNCY, PA													
31-33	Manufacturing	-	8	6	g	D	D	D	D	D	D	D	9 053
333	Machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333291	Paper industry machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
MUNICIPALITY OF MONROEVILLE, PA													
31-33	Manufacturing	3	26	8	687	19 624	422	784	9 547	42 987	40 344	82 202	2 371
MUNICIPALITY OF MURRYSVILLE, PA													
31-33	Manufacturing	-	20	9	1 931	68 705	1 168	2 495	32 463	210 100	136 061	344 376	14 533
339	Miscellaneous mfg	-	5	3	1 080	43 907	450	1 027	13 149	122 332	86 950	208 375	D
3391	Medical equipment & supplies mfg	-	2	2	g	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	-	2	2	g	D	D	D	D	D	D	D	D
339113	Surgical appliance & supplies mfg	-	2	2	g	D	D	D	D	D	D	D	D
MYERSTOWN, PA													
31-33	Manufacturing	-	8	3	f	D	D	D	D	D	D	D	D
NAZARETH, PA													
31-33	Manufacturing	-	22	10	1 429	42 556	1 132	2 228	28 545	193 411	89 374	283 969	8 320
NESQUEHONING, PA													
31-33	Manufacturing	9	8	5	1 197	27 241	931	1 867	19 658	53 918	54 925	108 801	3 662
336	Transportation equipment mfg	9	2	1	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	9	1	1	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	9	1	1	f	D	D	D	D	D	D	D	D
336211	Motor vehicle body mfg	9	1	1	f	D	D	D	D	D	D	D	D
NEW BRITAIN TOWNSHIP, PA													
31-33	Manufacturing	-	15	6	938	37 907	638	1 435	23 534	122 738	52 464	175 220	7 556
323	Printing & related support activities	-	2	1	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	2	1	f	D	D	D	D	D	D	D	D
32311	Printing	-	2	1	f	D	D	D	D	D	D	D	D
323110	Commercial lithographic printing ..	-	1	1	f	D	D	D	D	D	D	D	D

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
NEW CASTLE, PA													
31-33	Manufacturing	1	89	35	2 483	76 032	1 860	3 726	47 992	201 272	238 888	436 878	23 418
326	Plastics & rubber products mfg	1	5	4	569	12 780	451	912	8 701	26 406	27 800	54 053	2 089
3261	Plastics product mfg	1	5	4	569	12 780	451	912	8 701	26 406	27 800	54 053	2 089
332	Fabricated metal product mfg	1	24	9	588	16 259	438	856	10 772	41 377	34 814	76 438	D
NEW FREEDOM, PA													
31-33	Manufacturing	-	13	6	570	17 058	409	861	11 456	25 267	20 352	45 756	6 577
NEW HOLLAND, PA													
31-33	Manufacturing	-	15	11	3 331	103 910	2 604	5 169	78 955	191 005	331 518	509 405	12 956
311	Food mfg	-	3	3	1 340	30 441	1 053	2 230	25 370	62 600	164 326	226 099	D
3116	Meat product mfg	-	1	1	f	D	D	D	D	D	D	D	D
31161	Animal slaughtering & processing	-	1	1	f	D	D	D	D	D	D	D	D
311615	Poultry processing	-	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	4	3	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	2	1	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg	-	2	1	f	D	D	D	D	D	D	D	D
33311	Agricultural implement mfg	-	2	1	f	D	D	D	D	D	D	D	D
333111	Farm machinery & equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
NEW KENSINGTON, PA													
31-33	Manufacturing	1	36	11	805	22 683	543	1 010	11 567	41 339	30 822	71 716	2 297
NEWTOWN, PA													
31-33	Manufacturing	-	7	3	523	22 483	250	557	7 585	41 629	19 147	60 348	1 493
NEWTOWN TOWNSHIP, PA (BUCKS COUNTY)													
31-33	Manufacturing	3	22	13	1 080	45 161	633	1 419	20 518	87 285	78 057	166 793	14 286
NORRISTOWN, PA													
31-33	Manufacturing	3	63	25	1 517	48 808	998	1 940	25 742	113 434	82 765	196 618	6 066
NORTHAMPTON, PA													
31-33	Manufacturing	-	9	7	575	13 227	489	937	9 283	36 497	12 320	48 076	6 597
NORTHAMPTON TOWNSHIP, PA													
31-33	Manufacturing	2	79	27	1 985	67 587	1 156	2 225	31 575	133 943	115 489	256 041	7 784
334	Computer & electronic product mfg	-	11	5	508	22 136	179	356	5 329	29 517	49 214	84 087	D
NORTH EAST, PA													
31-33	Manufacturing	1	15	10	1 786	56 031	1 303	2 864	37 883	190 497	191 645	380 441	D
NORTH HUNTINGDON TOWNSHIP, PA													
31-33	Manufacturing	-	35	10	897	24 227	608	1 116	14 723	51 315	35 069	86 472	3 814
OAKMONT, PA													
31-33	Manufacturing	-	14	10	1 218	39 833	761	1 479	19 641	89 718	77 828	167 737	11 877
326	Plastics & rubber products mfg	-	3	3	764	27 459	446	855	12 073	68 438	59 661	128 204	10 459
3261	Plastics product mfg	-	3	3	764	27 459	446	855	12 073	68 438	59 661	128 204	10 459
OLD FORGE, PA													
31-33	Manufacturing	-	16	10	942	24 552	741	1 488	16 540	49 097	38 162	86 989	1 634

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ORWIGSBURG, PA													
31-33	Manufacturing	4	25	17	872	19 750	725	1 422	14 188	51 324	44 750	95 564	1 746
PALMER TOWNSHIP, PA													
31-33	Manufacturing	3	23	14	1 332	34 790	1 028	1 993	21 108	66 357	76 874	141 565	10 555
326	Plastics & rubber products mfg	3	5	5	813	20 294	669	1 238	13 725	42 271	58 287	99 978	8 888
3261	Plastics product mfg	3	5	5	813	20 294	669	1 238	13 725	42 271	58 287	99 978	8 888
32619	Other plastics product mfg	3	5	5	813	20 294	669	1 238	13 725	42 271	58 287	99 978	8 888
326199	All other plastics product mfg	3	5	5	813	20 294	669	1 238	13 725	42 271	58 287	99 978	8 888
PALMERTON, PA													
31-33	Manufacturing	-	9	7	835	15 135	708	1 297	13 305	48 025	40 435	88 836	D
PEN ARGYL, PA													
31-33	Manufacturing	-	12	8	943	18 640	783	1 339	12 380	44 445	36 276	80 274	855
315	Apparel mfg	-	6	5	f	D	D	D	D	D	D	D	322
3152	Cut & sew apparel mfg	-	6	5	f	D	D	D	D	D	D	D	322
31523	Women's & girls' cut & sew apparel mfg	-	4	3	f	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	-	2	2	f	D	D	D	D	D	D	D	D
PENN HILLS TOWNSHIP, PA													
31-33	Manufacturing	5	39	9	507	16 263	310	593	7 990	40 186	54 926	94 715	2 289
PERKASIE, PA													
31-33	Manufacturing	1	24	5	522	14 929	354	634	7 892	33 587	28 769	63 034	1 505
PHILADELPHIA, PA													
31-33	Manufacturing	1	1 342	430	47 928	1 582 403	33 884	68 133	926 012	3 997 488	7 090 128	11 098 092	317 324
311	Food mfg	1	191	49	7 524	251 354	4 999	9 436	145 432	857 770	708 346	1 552 278	47 890
3116	Meat product mfg	2	24	14	1 906	57 826	1 437	2 816	35 910	137 674	303 227	440 146	D
31161	Animal slaughtering & processing	2	24	14	1 906	57 826	1 437	2 816	35 910	137 674	303 227	440 146	D
311612	Meat processed from carcasses	2	15	10	g	D	D	D	D	D	D	D	8 100
3118	Bakeries & tortilla mfg	-	119	20	h	D	D	D	D	D	D	D	29 542
31181	Bread & bakery product mfg	-	108	17	h	D	D	D	D	D	D	D	D
311811	Retail bakeries	3	76	5	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries ..	-	31	12	h	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	-	11	3	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg ..	-	6	3	f	D	D	D	D	D	D	D	D
3119	Other food mfg	5	24	8	577	23 136	376	746	12 318	50 990	51 828	102 645	4 878
312	Beverage & tobacco product mfg	2	9	4	1 110	40 836	272	595	8 773	136 481	167 807	304 076	D
3121	Beverage mfg	2	9	4	1 110	40 836	272	595	8 773	136 481	167 807	304 076	D
31211	Soft drink & ice mfg	-	6	2	f	D	D	D	D	D	D	D	D
312111	Soft drink mfg	-	2	2	f	D	D	D	D	D	D	D	D
313	Textile mills	2	41	20	g	D	D	D	D	D	D	D	D
3132	Fabric mills	3	19	10	f	D	D	D	D	D	D	D	D
314	Textile product mills	2	41	8	662	13 772	537	922	8 413	33 123	29 943	62 857	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
31-33	PHILADELPHIA, PA—Con. Manufacturing—Con.												
315	Apparel mfg	4	138	54	5 269	105 481	4 483	8 302	75 327	229 600	238 267	456 836	D
3152	Cut & sew apparel mfg	5	113	46	4 737	96 454	4 041	7 564	68 847	215 009	224 317	428 227	D
31521	Cut & sew apparel contractors	3	62	26	1 143	16 077	1 089	1 938	13 405	30 681	6 979	37 402	D
315212	Women's, girls' & infants' cut & sew apparel contractors ..	5	56	24	1 051	13 783	1 005	1 760	11 920	20 896	4 480	25 348	D
31522	Men's & boys' cut & sew apparel mfg	5	19	10	2 356	59 994	1 872	3 650	37 921	128 586	176 549	296 011	D
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	4	7	7	1 883	49 418	1 450	2 814	29 410	104 925	154 519	250 452	D
31523	Women's & girls' cut & sew apparel mfg	6	25	9	g	D	D	D	D	D	D	D	D
315232	Women's & girls' cut & sew blouse & shirt mfg	9	7	4	f	D	D	D	D	D	D	D	D
322	Paper mfg	2	48	31	2 926	106 649	2 197	4 359	64 196	269 662	375 100	649 825	18 897
3222	Converted paper product mfg	2	45	28	2 454	85 443	1 794	3 429	48 171	211 525	314 313	531 153	D
32221	Paperboard container mfg	-	22	17	1 329	42 807	1 023	1 990	26 609	94 211	147 259	240 903	7 560
322211	Corrugated & solid fiber box mfg	-	7	6	688	23 514	500	903	13 273	51 967	87 383	139 375	D
32222	Paper bag & coated & treated paper mfg	3	11	5	f	D	D	D	D	D	D	D	5 971
323	Printing & related support activities	3	185	44	4 420	170 826	3 125	5 959	96 736	334 864	198 692	533 425	23 158
3231	Printing & related support activities	3	185	44	4 420	170 826	3 125	5 959	96 736	334 864	198 692	533 425	23 158
32311	Printing	3	152	39	3 932	151 367	2 776	5 197	84 280	298 284	189 640	488 050	D
323110	Commercial lithographic printing ..	3	84	23	2 362	98 235	1 678	3 046	54 822	189 005	112 193	302 220	12 612
324	Petroleum & coal products mfg	-	10	7	g	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	-	10	7	g	D	D	D	D	D	D	D	D
32411	Petroleum refineries	-	2	2	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries ..	-	2	2	f	D	D	D	D	D	D	D	D
325	Chemical mfg	2	52	29	2 432	105 531	1 419	3 078	49 354	500 370	703 594	1 186 622	58 234
3251	Basic chemical mfg	1	7	3	522	27 372	294	616	14 589	204 445	337 307	531 320	D
3254	Pharmaceutical & medicine mfg	5	8	6	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	5	8	6	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	2	44	18	1 135	36 763	834	1 702	19 673	60 766	74 609	135 125	4 786
3261	Plastics product mfg	2	33	14	f	D	D	D	D	D	D	D	D
32619	Other plastics product mfg	1	22	9	698	23 578	493	996	11 521	34 305	47 086	80 862	3 126
326199	All other plastics product mfg	1	22	9	698	23 578	493	996	11 521	34 305	47 086	80 862	3 126
331	Primary metal mfg	2	14	5	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	174	42	3 495	112 896	2 584	5 121	64 512	269 367	232 340	491 764	10 275
3323	Architectural & structural metals mfg	1	55	13	1 425	41 653	1 119	2 287	23 324	98 096	78 349	169 139	3 394
33232	Ornamental & architectural metal products mfg	1	46	10	1 166	29 679	938	1 908	17 301	66 907	57 028	122 129	2 101
332322	Sheet metal work mfg ..	1	17	3	702	16 971	605	1 279	10 775	40 125	32 633	71 056	1 571
3329	Other fabricated metal product mfg	1	18	11	677	23 603	421	794	12 384	67 882	64 247	130 825	2 760
33299	All other fabricated metal product mfg	1	17	10	f	D	D	D	D	D	D	D	D
333	Machinery mfg	2	62	23	2 080	73 900	1 365	2 680	42 048	136 176	102 996	240 628	D
3339	Other general-purpose machinery mfg	-	12	6	602	24 350	356	760	13 298	50 898	35 379	86 719	3 708
334	Computer & electronic product mfg	2	33	10	g	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	1	11	6	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	1	11	6	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
	PHILADELPHIA, PA—Con.												
31-33	Manufacturing—Con.												
335	Electrical equipment, appliance, & component mfg	-	26	14	2 231	81 242	1 509	3 088	48 402	223 284	246 864	482 289	6 954
3351	Electric lighting equipment mfg	1	17	9	1 047	23 367	818	1 608	14 683	69 532	103 053	177 501	2 573
33512	Lighting fixture mfg	1	17	9	1 047	23 367	818	1 608	14 683	69 532	103 053	177 501	2 573
335121	Residential electric lighting fixture mfg ...	-	11	6	f	D	D	D	D	D	D	D	D
3353	Electrical equipment mfg ..	-	6	2	f	D	D	D	D	D	D	D	D
33531	Electrical equipment mfg	-	6	2	f	D	D	D	D	D	D	D	D
335313	Switchgear & switchboard apparatus mfg	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	1	31	17	6 145	205 133	4 237	11 018	133 874	509 087	365 171	868 722	26 998
3363	Motor vehicle parts mfg ...	-	25	16	i	D	D	D	D	D	D	D	D
33633	Motor vehicle steering & suspension component (except spring) mfg	-	2	2	f	D	D	D	D	D	D	D	D
336330	Motor vehicle steering & suspension component (except spring) mfg	-	2	2	f	D	D	D	D	D	D	D	D
33634	Motor vehicle brake system mfg	-	4	4	h	D	D	D	D	D	D	D	D
336340	Motor vehicle brake system mfg	-	4	4	h	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	-	2	1	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	-	2	1	f	D	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	4	6	3	535	15 291	469	772	11 231	34 505	32 685	67 291	D
336399	All other motor vehicle parts mfg	4	6	3	535	15 291	469	772	11 231	34 505	32 685	67 291	D
337	Furniture & related product mfg	1	71	20	1 730	43 497	1 382	2 319	27 293	91 238	77 691	169 309	D
3371	Household & institutional furniture & kitchen cabinet mfg	1	37	5	881	19 886	742	1 125	14 386	40 052	35 634	76 538	D
33712	Household & institutional furniture mfg	1	26	4	788	16 948	670	965	12 467	35 448	31 721	67 966	1 802
337124	Metal household furniture mfg	-	5	4	f	D	D	D	D	D	D	D	D
3372	Office furniture (including fixtures) mfg	2	23	12	683	19 723	523	977	10 847	37 642	30 990	68 075	D
33721	Office furniture (including fixtures) mfg	2	23	12	683	19 723	523	977	10 847	37 642	30 990	68 075	D
339	Miscellaneous mfg	3	137	29	2 288	64 957	1 719	3 008	36 910	165 679	140 599	302 142	8 628
3391	Medical equipment & supplies mfg	2	56	15	887	23 560	665	997	13 013	48 111	25 027	72 174	D
33911	Medical equipment & supplies mfg	2	56	15	887	23 560	665	997	13 013	48 111	25 027	72 174	D
3399	Other miscellaneous mfg ..	3	81	14	1 401	41 397	1 054	2 011	23 897	117 568	115 572	229 968	D
	PHILIPSBURG, PA												
31-33	Manufacturing	4	18	7	722	14 522	585	1 009	9 746	40 955	17 795	59 467	1 424
	PHOENIXVILLE, PA												
31-33	Manufacturing	1	25	6	558	19 668	402	797	11 896	45 222	47 313	92 671	4 244

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
PITTSBURGH, PA													
31-33	Manufacturing	1	479	137	13 924	471 562	9 652	19 107	289 183	1 183 746	1 211 502	2 395 020	69 833
311	Food mfg	-	43	12	1 891	62 918	1 435	3 234	46 642	341 167	179 705	519 526	18 847
3114	Fruit & vegetable preserving & specialty food mfg	-	1	1	f	D	D	D	D	D	D	D	D
31142	Fruit & vegetable canning, pickling, & drying	-	1	1	f	D	D	D	D	D	D	D	D
311422	Specialty canning	-	1	1	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	22	6	707	23 641	469	993	16 129	37 502	31 263	68 548	2 906
323	Printing & related support activities	1	106	31	2 054	66 975	1 565	2 821	43 976	136 630	69 155	205 207	14 000
3231	Printing & related support activities	1	106	31	2 054	66 975	1 565	2 821	43 976	136 630	69 155	205 207	14 000
32311	Printing	1	81	25	1 579	54 224	1 156	1 997	34 033	105 980	62 556	168 030	12 752
323110	Commercial lithographic printing ..	1	37	16	1 054	37 081	782	1 251	22 577	68 830	45 908	114 320	11 268
324	Petroleum & coal products mfg	-	4	2	f	D	D	D	D	D	D	D	1 429
3241	Petroleum & coal products mfg	-	4	2	f	D	D	D	D	D	D	D	1 429
32419	Other petroleum & coal products mfg	-	2	2	f	D	D	D	D	D	D	D	D
324199	All other petroleum & coal products mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	6	4	733	24 387	478	977	13 883	58 234	40 856	96 818	2 453
3315	Foundries	-	4	3	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	65	22	1 864	62 987	1 325	2 689	39 936	168 793	398 950	570 996	9 284
3323	Architectural & structural metals mfg	1	20	6	690	23 699	525	1 084	17 193	32 021	30 870	62 603	931
33232	Ornamental & architectural metal products mfg	1	13	3	505	17 320	381	792	13 107	18 620	20 071	38 650	314
333	Machinery mfg	1	34	10	866	31 198	531	1 026	16 058	69 774	62 882	131 108	2 621
334	Computer & electronic product mfg	4	31	7	1 387	49 654	689	1 272	18 907	70 289	52 275	123 771	7 135
3342	Communications equipment mfg	-	2	1	f	D	D	D	D	D	D	D	D
33429	Other communications equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
334290	Other communications equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg	1	45	10	1 179	37 173	718	1 178	21 177	75 767	50 140	125 341	2 184
3399	Other miscellaneous mfg ..	-	30	5	939	29 569	563	928	17 110	61 828	42 933	104 102	1 818
33995	Sign mfg	-	12	3	591	20 470	422	685	12 005	42 761	24 851	67 363	660
339950	Sign mfg	-	12	3	591	20 470	422	685	12 005	42 761	24 851	67 363	660
PITTSTON, PA													
31-33	Manufacturing	-	19	6	g	D	D	D	D	D	D	D	D
327	Nonmetallic mineral product mfg	-	1	1	g	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	1	1	g	D	D	D	D	D	D	D	D
327212	Other pressed & blown glass & glassware mfg	-	1	1	g	D	D	D	D	D	D	D	D
PLUM, PA													
31-33	Manufacturing	-	36	11	1 523	48 055	929	1 740	20 883	104 443	89 577	194 206	4 709
PLYMOUTH TOWNSHIP, PA													
31-33	Manufacturing	1	23	6	526	21 164	294	578	7 015	41 577	40 061	82 630	2 968

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NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
POTTSTOWN, PA													
31-33	Manufacturing	-	57	26	3 543	134 271	2 661	5 409	91 174	476 162	352 364	821 236	35 413
311	Food mfg	-	4	3	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	3	2	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	3	2	f	D	D	D	D	D	D	D	D
311813	Frozen cakes, pies, & other pastries mfg ...	-	2	2	f	D	D	D	D	D	D	D	D
336	Transportation equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	2	2	f	D	D	D	D	D	D	D	D
33635	Motor vehicle transmission & power train parts mfg	-	2	2	f	D	D	D	D	D	D	D	D
336350	Motor vehicle transmission & power train parts mfg	-	2	2	f	D	D	D	D	D	D	D	D
POTTSVILLE, PA													
31-33	Manufacturing	-	18	9	1 236	37 003	953	1 753	24 693	123 763	78 994	200 363	7 269
PUNXSUTAWNEY, PA													
31-33	Manufacturing	1	20	8	644	18 679	443	845	10 250	40 038	30 224	69 190	4 122
QUAKERTOWN, PA													
31-33	Manufacturing	2	30	15	1 475	42 263	1 102	2 256	27 049	130 518	130 920	259 043	8 611
RADNOR TOWNSHIP, PA													
31-33	Manufacturing	1	31	11	895	33 464	604	1 223	13 943	144 564	182 716	325 763	5 367
READING, PA													
31-33	Manufacturing	-	160	70	16 969	737 374	12 458	25 028	463 220	1 893 280	1 762 812	3 654 193	193 104
311	Food mfg	2	19	8	2 156	63 319	1 599	2 802	40 720	297 561	187 070	477 740	16 244
3113	Sugar & confectionery product mfg	5	5	2	f	D	D	D	D	D	D	D	D
31133	Confectionery mfg from purchased chocolate...	5	4	2	f	D	D	D	D	D	D	D	D
311330	Confectionery mfg from purchased chocolate	5	4	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	9	3	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	8	3	f	D	D	D	D	D	D	D	D
315	Apparel mfg	7	12	9	959	15 449	805	1 446	12 004	39 993	26 808	65 961	2 561
3152	Cut & sew apparel mfg	6	9	7	f	D	D	D	D	D	D	D	D
325	Chemical mfg	-	12	5	1 001	42 700	556	985	18 279	153 012	140 336	292 086	11 339
3255	Paint, coating, & adhesive mfg	-	3	3	f	D	D	D	D	D	D	D	D
32551	Paint & coating mfg	-	2	2	f	D	D	D	D	D	D	D	D
325510	Paint & coating mfg ...	-	2	2	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	9	4	616	22 969	386	870	9 509	33 306	41 137	74 630	5 940
3261	Plastics product mfg	-	7	4	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	8	7	3 342	210 472	2 283	5 151	131 426	316 077	861 371	1 179 785	D
3311	Iron & steel mills & ferroalloy mfg	-	1	1	h	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	1	1	h	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	1	1	h	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	27	8	1 297	39 181	964	2 055	24 802	107 168	53 000	157 927	5 606
3325	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
33251	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
332510	Hardware mfg	-	1	1	f	D	D	D	D	D	D	D	D
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
334413	Semiconductor & related device mfg ...	-	1	1	g	D	D	D	D	D	D	D	D

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		E ¹	Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)				
READING, PA—Con.												
31-33	Manufacturing—Con.											
336	Transportation equipment mfg	—	1	1	h	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	—	1	1	h	D	D	D	D	D	D	D
33639	Other motor vehicle parts mfg	—	1	1	h	D	D	D	D	D	D	D
336399	All other motor vehicle parts mfg	—	1	1	h	D	D	D	D	D	D	D
339	Miscellaneous mfg	—	15	2	545	17 105	323	615	7 992	41 458	37 098	78 781
												2 095
RED LION, PA												
31-33	Manufacturing	—	30	16	2 049	55 633	1 686	3 149	37 550	142 610	145 118	288 464
332	Fabricated metal product mfg	—	8	5	889	28 854	701	1 214	19 246	84 200	85 598	171 077
337	Furniture & related product mfg	2	8	6	682	16 332	588	1 090	11 659	36 051	30 152	65 469
3371	Household & institutional furniture & kitchen cabinet mfg	3	5	5	f	D	D	D	D	D	D	D
RICHLAND TOWNSHIP, PA												
31-33	Manufacturing	4	8	6	727	23 148	418	696	9 433	52 844	76 942	128 943
RIDGWAY, PA												
31-33	Manufacturing	1	26	15	1 686	54 395	1 394	2 830	38 212	114 362	94 103	212 055
332	Fabricated metal product mfg	—	14	7	694	20 219	601	1 196	13 448	43 420	31 974	75 741
3321	Forging & stamping	—	8	5	f	D	D	D	D	D	D	D
33211	Forging & stamping	—	8	5	f	D	D	D	D	D	D	D
332117	Powder metallurgy part mfg	—	7	5	f	D	D	D	D	D	D	D
RIDLEY PARK, PA												
31-33	Manufacturing	—	2	2	i	D	D	D	D	D	D	D
336	Transportation equipment mfg	—	1	1	i	D	D	D	D	D	D	D
3364	Aerospace product & parts mfg	—	1	1	i	D	D	D	D	D	D	D
33641	Aerospace product & parts mfg	—	1	1	i	D	D	D	D	D	D	D
336411	Aircraft mfg	—	1	1	i	D	D	D	D	D	D	D
ROARING SPRING, PA												
31-33	Manufacturing	—	9	5	1 065	38 830	788	1 692	26 299	141 793	119 227	263 694
322	Paper mfg	—	3	2	f	D	D	D	D	D	D	D
ROCHESTER, PA												
31-33	Manufacturing	—	9	4	524	13 251	407	807	9 118	26 331	21 835	48 185

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
ST. MARYS, PA													
31-33	Manufacturing	-	67	31	5 439	187 948	4 267	9 362	136 488	453 697	370 616	830 942	62 319
332	Fabricated metal product mfg	-	28	11	2 437	70 604	2 034	4 339	55 110	134 817	85 265	222 001	10 550
3321	Forging & stamping	-	5	5	1 162	31 274	988	2 338	26 548	61 481	48 182	109 846	D
33211	Forging & stamping	-	5	5	1 162	31 274	988	2 338	26 548	61 481	48 182	109 846	D
332117	Powder metallurgy part mfg	-	5	5	1 162	31 274	988	2 338	26 548	61 481	48 182	109 846	D
3326	Spring & wire product mfg .	-	4	2	f	D	D	D	D	D	D	D	D
33261	Spring & wire product mfg	-	4	2	f	D	D	D	D	D	D	D	D
332618	Other fabricated wire product mfg	-	2	2	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	8	7	1 986	87 292	1 564	3 736	64 218	258 242	248 336	511 208	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
3359	Other electrical equipment & component mfg	-	7	6	g	D	D	D	D	D	D	D	D
33599	All other electrical equipment & component mfg	-	6	5	g	D	D	D	D	D	D	D	40 686
335991	Carbon & graphite product mfg	-	6	5	g	D	D	D	D	D	D	D	40 686
SALISBURY TOWNSHIP, PA													
31-33	Manufacturing	-	18	11	691	26 483	457	873	12 217	51 437	37 071	89 020	3 885
SAYRE, PA													
31-33	Manufacturing	6	15	6	834	12 335	613	767	6 842	21 322	27 059	49 021	1 526
SCHUYLKILL HAVEN, PA													
31-33	Manufacturing	1	30	16	1 484	44 836	1 158	2 435	28 129	87 360	138 612	223 843	5 814
SCRANTON, PA													
31-33	Manufacturing	1	124	51	4 567	114 099	3 516	6 585	70 197	340 419	250 631	591 181	13 269
311	Food mfg	1	19	8	578	11 213	432	673	6 503	76 264	72 172	148 527	1 200
315	Apparel mfg	4	12	9	856	17 796	743	1 370	12 015	38 553	14 593	53 960	D
3152	Cut & sew apparel mfg	6	9	6	f	D	D	D	D	D	D	D	D
31521	Cut & sew apparel contractors	6	8	6	f	D	D	D	D	D	D	D	D
315211	Men's & boys' cut & sew apparel contractors	6	6	6	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	10	6	685	19 054	528	1 016	11 613	77 291	56 167	131 284	D
3261	Plastics product mfg	-	9	6	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	1	18	7	995	27 073	739	1 291	14 946	61 252	24 818	87 407	D
SELINGSGROVE, PA													
31-33	Manufacturing	-	21	11	1 381	34 254	1 149	2 128	24 244	55 831	88 638	143 320	2 801
SELLERSVILLE, PA													
31-33	Manufacturing	-	16	9	1 605	58 911	1 073	1 964	38 255	52 255	254 381	311 606	D
325	Chemical mfg	-	2	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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
SHALER TOWNSHIP, PA													
31-33	Manufacturing	-	27	8	895	32 862	637	1 317	20 268	69 616	59 846	129 748	3 519
327	Nonmetallic mineral product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3272	Glass & glass product mfg .	-	1	1	f	D	D	D	D	D	D	D	D
32721	Glass & glass product mfg	-	1	1	f	D	D	D	D	D	D	D	D
327213	Glass container mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
SHARON, PA													
31-33	Manufacturing	-	24	9	1 324	46 981	1 081	2 355	36 644	132 316	262 657	388 521	24 747
331	Primary metal mfg	-	2	2	f	D	D	D	D	D	D	D	D
3312	Steel product mfg from purchased steel	-	2	2	f	D	D	D	D	D	D	D	D
33121	Iron & steel pipes & tubes mfg from purchased steel	-	2	2	f	D	D	D	D	D	D	D	D
331210	Iron & steel pipes & tubes mfg from purchased steel	-	2	2	f	D	D	D	D	D	D	D	D
SHARPSVILLE, PA													
31-33	Manufacturing	8	10	6	586	15 760	351	635	8 768	46 961	122 042	169 567	3 712
SHILLINGTON, PA													
31-33	Manufacturing	1	10	7	919	27 783	637	1 120	14 926	69 024	31 618	97 834	6 118
SHIPPENSBURG, PA *													
31-33	Manufacturing	-	21	10	1 791	49 184	1 320	2 776	34 854	145 164	218 317	361 588	8 822
333	Machinery mfg	-	2	2	f	D	D	D	D	D	D	D	D
3331	Agriculture, construction, & mining machinery mfg....	-	1	1	f	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	-	1	1	f	D	D	D	D	D	D	D	D
SHREWSBURY, PA													
31-33	Manufacturing	-	5	1	g	D	D	D	D	D	D	D	D
322	Paper mfg	-	1	1	g	D	D	D	D	D	D	D	D
3221	Pulp, paper, & paperboard mills	-	1	1	g	D	D	D	D	D	D	D	D
32212	Paper mills	-	1	1	g	D	D	D	D	D	D	D	D
322121	Paper (except newsprint) mills	-	1	1	g	D	D	D	D	D	D	D	D
SOMERSET, PA													
31-33	Manufacturing	-	24	9	1 054	29 058	864	1 931	21 476	78 890	61 600	141 876	4 876
333	Machinery mfg	-	5	1	f	D	D	D	D	D	D	D	D
SOMERSET TOWNSHIP, PA													
31-33	Manufacturing	1	22	11	1 432	33 805	1 143	2 010	22 954	78 026	101 015	177 201	3 064
336	Transportation equipment mfg	2	5	4	f	D	D	D	D	D	D	D	D
3362	Motor vehicle body & trailer mfg	2	4	4	f	D	D	D	D	D	D	D	D
33621	Motor vehicle body & trailer mfg	2	4	4	f	D	D	D	D	D	D	D	D
336214	Travel trailer & camper mfg	-	1	1	f	D	D	D	D	D	D	D	D
SOUTH WHITEHALL TOWNSHIP, PA													
31-33	Manufacturing	-	22	7	822	27 361	671	1 288	17 276	109 849	119 784	228 908	11 419
SOUTH WILLIAMSPORT, PA													
31-33	Manufacturing	-	14	6	639	17 511	489	1 062	12 510	34 795	32 817	72 485	D

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31-33	SPRING TOWNSHIP, PA												
	Manufacturing	-	12	6	591	22 856	429	773	12 277	34 446	64 371	98 376	D
	SPRING CITY, PA												
31-33	Manufacturing	7	14	8	681	20 740	531	1 161	12 110	115 466	54 180	167 543	3 597
	SPRINGDALE, PA												
31-33	Manufacturing	-	7	4	557	23 679	366	764	13 000	105 292	120 989	226 107	D
	SPRINGETTSBURY TOWNSHIP, PA												
31-33	Manufacturing	-	48	28	5 581	224 036	4 323	8 117	160 538	643 047	588 025	1 235 564	38 721
323	Printing & related support activities	-	8	3	526	16 550	415	795	12 120	55 196	21 634	75 454	2 420
3231	Printing & related support activities	-	8	3	526	16 550	415	795	12 120	55 196	21 634	75 454	2 420
336	Transportation equipment mfg	-	1	1	h	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	-	1	1	h	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	-	1	1	h	D	D	D	D	D	D	D	D
336991	Motorcycle, bicycle, & parts mfg	-	1	1	h	D	D	D	D	D	D	D	D
	SPRING GARDEN TOWNSHIP, PA												
31-33	Manufacturing	-	29	15	1 642	50 823	1 262	2 476	33 444	148 136	122 670	269 581	12 743
333	Machinery mfg	-	6	3	526	19 744	364	766	11 917	46 381	49 032	94 582	1 102
	STATE COLLEGE, PA												
31-33	Manufacturing	-	38	19	2 140	65 962	1 371	2 566	34 441	172 952	77 874	251 773	D
334	Computer & electronic product mfg	1	11	7	933	28 994	521	912	11 122	50 157	36 213	87 022	1 836
3342	Communications equipment mfg	-	3	2	f	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	-	2	2	f	D	D	D	D	D	D	D	D
	STEELTON, PA												
31-33	Manufacturing	-	3	2	g	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	1	1	g	D	D	D	D	D	D	D	D
3311	Iron & steel mills & ferroalloy mfg	-	1	1	g	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	1	1	g	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	1	1	g	D	D	D	D	D	D	D	D
	SUNBURY, PA												
31-33	Manufacturing	-	20	10	1 614	47 407	932	1 806	24 605	125 470	103 088	230 551	4 717
311	Food mfg	-	3	2	f	D	D	D	D	D	D	D	D
3118	Bakeries & tortilla mfg	-	2	1	f	D	D	D	D	D	D	D	D
31181	Bread & bakery product mfg	-	2	1	f	D	D	D	D	D	D	D	D
311812	Commercial bakeries	-	2	1	f	D	D	D	D	D	D	D	D
	SWATARA TOWNSHIP, PA												
31-33	Manufacturing	6	25	5	517	15 817	396	717	9 847	84 204	36 769	121 046	2 244

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
TAMAQUA, PA													
31-33	Manufacturing	-	14	8	1 715	51 307	1 212	2 588	31 553	167 160	90 854	267 149	27 729
315	Apparel mfg	-	1	1	g	D	D	D	D	D	D	D	D
3151	Apparel knitting mills	-	1	1	g	D	D	D	D	D	D	D	D
31519	Other apparel knitting mills	-	1	1	g	D	D	D	D	D	D	D	D
315192	Underwear & nightwear knitting mills	-	1	1	g	D	D	D	D	D	D	D	D
TAYLOR, PA													
31-33	Manufacturing	-	4	4	526	15 737	416	859	10 134	30 714	22 503	53 357	D
TELFORD, PA *													
31-33	Manufacturing	-	43	14	1 946	71 935	1 157	2 416	33 299	148 986	173 967	319 217	7 238
334	Computer & electronic product mfg.....	-	4	2	f	D	D	D	D	D	D	D	D
THROOP, PA													
31-33	Manufacturing	-	7	3	f	D	D	D	D	D	D	D	1 653
TITUSVILLE, PA													
31-33	Manufacturing	1	31	12	736	19 059	604	1 295	14 225	50 508	50 377	99 527	5 659
TOWAMENCIN TOWNSHIP, PA													
31-33	Manufacturing	6	21	11	1 287	43 524	868	1 832	23 246	101 876	80 161	181 336	6 679
339	Miscellaneous mfg.....	7	5	4	895	28 447	592	1 223	14 148	55 088	36 986	92 813	D
3399	Other miscellaneous mfg ..	8	3	3	f	D	D	D	D	D	D	D	D
33999	All other miscellaneous mfg	7	2	2	f	D	D	D	D	D	D	D	D
339991	Gasket, packing, & sealing device mfg....	7	2	2	f	D	D	D	D	D	D	D	D
TOWANDA, PA													
31-33	Manufacturing	-	6	4	2 474	91 258	2 155	4 452	76 193	265 584	164 458	426 320	D
321	Wood product mfg	-	2	1	f	D	D	D	D	D	D	D	D
3212	Veneer, plywood, & engineered wood product mfg	-	1	1	f	D	D	D	D	D	D	D	D
32121	Veneer, plywood, & engineered wood product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
321219	Reconstituted wood product mfg.....	-	1	1	f	D	D	D	D	D	D	D	D
331	Primary metal mfg	-	1	1	g	D	D	D	D	D	D	D	D
3314	Nonferrous metal (except aluminum) production & processing.....	-	1	1	g	D	D	D	D	D	D	D	D
33149	Other nonferrous metal rolling, drawing, extruding, & alloying ...	-	1	1	g	D	D	D	D	D	D	D	D
331492	Other nonferrous metal secondary smelting, refining, & alloying...	-	1	1	g	D	D	D	D	D	D	D	D
333	Machinery mfg	-	2	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
333991	Power-driven handtool mfg	-	1	1	f	D	D	D	D	D	D	D	D
TYRONE, PA													
31-33	Manufacturing	-	14	6	852	26 843	652	1 366	17 693	98 925	90 027	191 404	9 842
UNION CITY, PA													
31-33	Manufacturing	-	9	7	1 020	23 342	841	1 608	16 751	40 754	36 434	76 040	1 808

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
UNIONTOWN, PA													
31-33	Manufacturing	1	30	12	1 404	42 466	912	1 555	21 043	125 513	125 366	251 200	7 956
334	Computer & electronic product mfg.....	-	3	2	f	D	D	D	D	D	D	D	D
3345	Navigational, measuring, medical, & control instruments mfg	-	2	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	-	2	2	f	D	D	D	D	D	D	D	D
334514	Totalizing fluid meter & counting device mfg .	-	1	1	f	D	D	D	D	D	D	D	D
UPPER DUBLIN TOWNSHIP, PA													
31-33	Manufacturing	1	26	12	1 255	49 562	649	1 266	23 143	205 042	87 418	282 622	5 013
UPPER GWYNEDD TOWNSHIP, PA													
31-33	Manufacturing	-	23	10	h	D	D	D	D	D	D	D	D
325	Chemical mfg	-	4	3	h	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg	-	1	1	h	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	-	1	1	h	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	-	1	1	h	D	D	D	D	D	D	D	D
UPPER MACUNGIE TOWNSHIP, PA													
31-33	Manufacturing	-	34	17	2 025	68 067	1 600	2 951	45 384	270 209	341 312	611 761	26 963
311	Food mfg	-	3	2	f	D	D	D	D	D	D	D	D
3115	Dairy product mfg	-	1	1	f	D	D	D	D	D	D	D	D
31151	Dairy product (except frozen) mfg	-	1	1	f	D	D	D	D	D	D	D	D
311513	Cheese mfg	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	3	5	5	589	19 606	502	986	13 130	24 941	35 332	54 167	3 761
3261	Plastics product mfg	3	5	5	589	19 606	502	986	13 130	24 941	35 332	54 167	3 761
UPPER MERION TOWNSHIP, PA													
31-33	Manufacturing	3	67	26	5 704	276 902	3 159	6 868	134 796	743 921	629 150	1 362 676	77 774
322	Paper mfg	-	3	2	f	D	D	D	D	D	D	D	D
3222	Converted paper product mfg	-	3	2	f	D	D	D	D	D	D	D	D
32229	Other converted paper product mfg	-	2	2	f	D	D	D	D	D	D	D	D
322291	Sanitary paper product mfg	-	2	2	f	D	D	D	D	D	D	D	D
334	Computer & electronic product mfg.....	9	11	3	g	D	D	D	D	D	D	D	D
3342	Communications equipment mfg	9	2	1	g	D	D	D	D	D	D	D	D
33422	Radio & TV broadcasting & wireless communications equipment mfg	9	1	1	g	D	D	D	D	D	D	D	D
334220	Radio & TV broadcasting & wireless communications equipment mfg	9	1	1	g	D	D	D	D	D	D	D	D
UPPER MORELAND TOWNSHIP, PA													
31-33	Manufacturing	-	75	23	4 129	123 404	2 114	4 301	50 885	332 660	381 179	709 986	27 247
333	Machinery mfg	-	10	4	h	D	D	D	D	D	D	D	D
3332	Industrial machinery mfg ..	-	3	2	h	D	D	D	D	D	D	D	D
33329	Other industrial machinery mfg	-	3	2	h	D	D	D	D	D	D	D	D
333295	Semiconductor machinery mfg	-	1	1	g	D	D	D	D	D	D	D	D
UPPER PROVIDENCE TOWNSHIP, PA													
31-33	Manufacturing	1	20	6	611	22 291	409	834	13 574	44 143	31 862	77 088	3 032

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

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
UPPER SAUCON TOWNSHIP, PA													
31-33	Manufacturing	-	14	5	1 304	62 332	478	989	12 992	127 070	127 339	254 465	D
335	Electrical equipment, appliance, & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
3359	Other electrical equipment & component mfg	-	1	1	f	D	D	D	D	D	D	D	D
33593	Wiring device mfg	-	1	1	f	D	D	D	D	D	D	D	D
335931	Current-carrying wiring device mfg	-	1	1	f	D	D	D	D	D	D	D	D
UPPER SOUTHAMPTON TOWNSHIP, PA													
31-33	Manufacturing	2	46	17	1 446	47 051	1 032	2 119	26 846	111 263	105 226	215 115	5 824
UWCHLAN TOWNSHIP, PA													
31-33	Manufacturing	2	17	7	815	32 431	482	1 117	15 536	98 783	71 533	170 214	5 342
VERONA, PA													
31-33	Manufacturing	-	12	5	577	14 978	452	838	8 309	51 296	41 365	91 062	2 405
WARMINSTER TOWNSHIP, PA													
31-33	Manufacturing	2	78	35	3 467	143 893	1 944	3 969	64 764	281 222	402 494	707 971	19 938
333	Machinery mfg	-	13	5	736	38 755	281	623	12 430	46 846	145 664	213 416	5 092
3339	Other general-purpose machinery mfg	-	4	2	f	D	D	D	D	D	D	D	4 228
33399	All other general-purpose machinery mfg	-	4	2	f	D	D	D	D	D	D	D	4 228
333999	All other miscellaneous general-purpose machinery mfg	-	4	2	f	D	D	D	D	D	D	D	4 228
334	Computer & electronic product mfg	7	7	4	807	35 283	342	754	14 096	48 286	73 439	125 539	D
3345	Navigational, measuring, medical, & control instruments mfg	9	4	2	f	D	D	D	D	D	D	D	D
33451	Navigational, measuring, medical, & control instruments mfg	9	4	2	f	D	D	D	D	D	D	D	D
334513	Industrial process control instrument mfg	9	2	2	f	D	D	D	D	D	D	D	D
WARREN, PA													
31-33	Manufacturing	-	41	21	3 073	99 138	2 012	4 028	55 327	267 826	644 123	900 541	21 846
324	Petroleum & coal products mfg	-	3	2	f	D	D	D	D	D	D	D	D
3241	Petroleum & coal products mfg	-	3	2	f	D	D	D	D	D	D	D	D
32411	Petroleum refineries	-	1	1	f	D	D	D	D	D	D	D	D
324110	Petroleum refineries	-	1	1	f	D	D	D	D	D	D	D	D
326	Plastics & rubber products mfg	-	5	5	f	D	D	D	D	D	D	D	D
3261	Plastics product mfg	-	4	4	758	27 148	498	867	15 113	58 653	43 479	101 653	5 428
32619	Other plastics product mfg	-	4	4	758	27 148	498	867	15 113	58 653	43 479	101 653	5 428
326199	All other plastics product mfg	-	4	4	758	27 148	498	867	15 113	58 653	43 479	101 653	5 428
WARRINGTON TOWNSHIP, PA													
31-33	Manufacturing	1	37	13	1 329	45 836	831	1 481	22 075	84 285	44 320	130 624	7 561
WARWICK TOWNSHIP, PA													
31-33	Manufacturing	-	27	5	g	D	D	D	D	D	D	D	21 669
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
325412	Pharmaceutical preparation mfg	-	2	2	f	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WASHINGTON, PA													
31-33	Manufacturing	-	52	17	2 716	112 678	1 999	4 280	79 520	384 068	564 942	943 014	20 459
331	Primary metal mfg	-	4	3	f	D	D	D	D	D	D	D	D
3311	Iron & steel mills & ferroalloy mfg	-	2	2	f	D	D	D	D	D	D	D	D
33111	Iron & steel mills & ferroalloy mfg	-	2	2	f	D	D	D	D	D	D	D	D
331111	Iron & steel mills	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	14	3	523	15 752	374	776	9 570	32 984	26 741	60 385	3 373
WAYNESBORO, PA													
31-33	Manufacturing	1	23	13	2 479	90 420	1 532	3 272	46 562	130 961	228 797	356 659	11 023
323	Printing & related support activities	9	4	1	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	9	4	1	f	D	D	D	D	D	D	D	D
32311	Printing	9	4	1	f	D	D	D	D	D	D	D	D
333	Machinery mfg	-	5	5	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
3335	Metalworking machinery mfg	-	4	4	f	D	D	D	D	D	D	D	2 107
33351	Metalworking machinery mfg	-	4	4	f	D	D	D	D	D	D	D	2 107
WELLSBORO, PA													
31-33	Manufacturing	-	12	5	793	18 907	694	1 356	14 623	85 114	46 005	129 917	D
WEST CHESTER, PA													
31-33	Manufacturing	3	46	13	1 796	77 450	1 241	2 543	42 058	221 308	176 753	402 028	13 366
325	Chemical mfg	4	5	4	812	45 699	566	1 214	22 355	110 047	84 377	194 564	8 139
3254	Pharmaceutical & medicine mfg	5	4	4	f	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	5	4	4	f	D	D	D	D	D	D	D	D
WEST GOSHEN TOWNSHIP, PA													
31-33	Manufacturing	-	49	18	2 440	86 826	1 312	2 448	36 130	400 643	275 449	665 998	30 723
333	Machinery mfg	2	9	4	668	23 471	303	580	9 563	82 019	53 086	130 287	6 760
334	Computer & electronic product mfg	-	3	3	f	D	D	D	D	D	D	D	D
3341	Computer & peripheral equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
33411	Computer & peripheral equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
334119	Other computer peripheral equipment mfg	-	1	1	f	D	D	D	D	D	D	D	D
WEST HAZLETON, PA													
31-33	Manufacturing	3	13	10	1 294	33 214	1 025	2 269	22 848	107 741	99 252	205 424	8 192
313	Textile mills	9	4	4	557	13 127	451	1 152	9 710	38 886	23 973	60 814	D
WEST HEMPFIELD TOWNSHIP, PA													
31-33	Manufacturing	-	13	4	658	20 469	545	1 064	15 601	56 889	52 970	110 664	2 075

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WEST MANCHESTER TOWNSHIP, PA													
31-33	Manufacturing	-	34	13	3 125	114 191	1 966	3 607	61 086	369 434	269 041	638 760	12 335
336	Transportation equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
3369	Other transportation equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
33699	Other transportation equipment mfg	-	1	1	g	D	D	D	D	D	D	D	D
336992	Military armored vehicle, tank, & tank component mfg	-	1	1	g	D	D	D	D	D	D	D	D
WEST MIFFLIN, PA													
31-33	Manufacturing	-	21	7	2 375	120 912	1 170	2 554	59 090	327 381	203 254	374 047	20 021
336	Transportation equipment mfg	-	4	3	g	D	D	D	D	D	D	D	D
3363	Motor vehicle parts mfg ...	-	1	1	f	D	D	D	D	D	D	D	D
33637	Motor vehicle metal stamping	-	1	1	f	D	D	D	D	D	D	D	D
336370	Motor vehicle metal stamping	-	1	1	f	D	D	D	D	D	D	D	D
3365	Railroad rolling stock mfg ..	-	1	1	g	D	D	D	D	D	D	D	D
33651	Railroad rolling stock mfg	-	1	1	g	D	D	D	D	D	D	D	D
336510	Railroad rolling stock mfg	-	1	1	g	D	D	D	D	D	D	D	D
WEST PITTSTON, PA													
31-33	Manufacturing	-	12	3	539	13 154	310	605	4 995	22 243	58 163	79 469	3 208
WEST READING, PA													
31-33	Manufacturing	-	7	2	699	16 046	560	1 089	10 380	35 994	29 060	64 485	2 361
WEST WHITELAND TOWNSHIP, PA													
31-33	Manufacturing	2	64	23	1 996	77 189	1 159	2 348	35 957	175 746	141 811	316 478	13 906
WEST YORK, PA													
31-33	Manufacturing	1	14	7	555	14 916	456	896	9 962	37 929	35 197	72 992	2 216
WHITEHALL TOWNSHIP, PA													
31-33	Manufacturing	-	20	10	931	34 069	708	1 423	23 782	153 567	185 094	341 448	11 568
WHITEMARSH TOWNSHIP, PA													
31-33	Manufacturing	-	30	11	2 056	131 533	740	1 640	28 301	520 619	139 282	672 252	40 113
325	Chemical mfg	-	5	2	g	D	D	D	D	D	D	D	D
3254	Pharmaceutical & medicine mfg	-	3	1	g	D	D	D	D	D	D	D	D
32541	Pharmaceutical & medicine mfg	-	3	1	g	D	D	D	D	D	D	D	D
325412	Pharmaceutical preparation mfg	-	1	1	g	D	D	D	D	D	D	D	D
WHITPAIN TOWNSHIP, PA													
31-33	Manufacturing	-	23	9	969	41 494	586	1 144	20 913	91 655	77 704	168 738	8 213
WILKES-BARRE, PA													
31-33	Manufacturing	-	69	29	3 390	81 284	2 479	4 799	52 280	241 438	178 741	422 363	15 368
332	Fabricated metal product mfg	-	8	3	1 200	24 577	843	1 650	15 199	79 936	43 457	123 553	2 514
3326	Spring & wire product mfg .	-	2	2	g	D	D	D	D	D	D	D	D
33261	Spring & wire product mfg	-	2	2	g	D	D	D	D	D	D	D	D
332618	Other fabricated wire product mfg	-	2	2	g	D	D	D	D	D	D	D	D

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			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
WILLIAMSPORT, PA													
31-33	Manufacturing	-	72	37	6 023	182 695	4 605	8 748	110 613	587 735	708 917	1 284 279	23 541
315	Apparel mfg	-	7	4	f	D	D	D	D	D	D	D	D
3152	Cut & sew apparel mfg	-	7	4	f	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	3	2	f	D	D	D	D	D	D	D	212
315231	Women's & girls' cut/ sew lingerie & nightwear mfg	-	2	2	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	9	5	823	32 428	436	625	11 193	51 205	53 300	100 279	857
334	Computer & electronic product mfg	-	5	3	f	D	D	D	D	D	D	D	D
335	Electrical equipment, appliance, & component mfg	-	2	1	f	D	D	D	D	D	D	D	D
3352	Household appliance mfg..	-	1	1	f	D	D	D	D	D	D	D	D
33521	Small electrical appliance mfg	-	1	1	f	D	D	D	D	D	D	D	D
335212	Household vacuum cleaner mfg	-	1	1	f	D	D	D	D	D	D	D	D
WILSON, PA													
31-33	Manufacturing	-	7	3	g	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	2	1	f	D	D	D	D	D	D	D	D
3231	Printing & related support activities	-	2	1	f	D	D	D	D	D	D	D	D
32311	Printing	-	2	1	f	D	D	D	D	D	D	D	D
WOMELSDORF, PA													
31-33	Manufacturing	-	6	4	1 018	29 498	815	1 534	18 827	76 580	60 989	129 711	4 118
WYOMISSING, PA													
31-33	Manufacturing	-	11	5	1 748	49 881	1 277	3 036	30 962	206 410	217 814	419 024	12 430
YORK, PA													
31-33	Manufacturing	-	123	62	9 253	332 266	6 618	14 204	191 842	1 257 244	670 805	1 923 960	78 292
311	Food mfg	-	7	4	883	20 735	692	1 737	14 638	46 273	68 854	115 407	5 858
3118	Bakeries & tortilla mfg	-	2	1	f	D	D	D	D	D	D	D	D
31182	Cookie, cracker, & pasta mfg	-	1	1	f	D	D	D	D	D	D	D	D
311821	Cookie & cracker mfg ..	-	1	1	f	D	D	D	D	D	D	D	D
315	Apparel mfg	-	10	5	g	D	D	D	D	D	D	D	321
3152	Cut & sew apparel mfg	-	9	5	g	D	D	D	D	D	D	D	D
31523	Women's & girls' cut & sew apparel mfg	-	3	2	f	D	D	D	D	D	D	D	D
315239	Women's & girls' cut & sew other outerwear mfg	-	3	2	f	D	D	D	D	D	D	D	D
323	Printing & related support activities	-	18	10	1 416	43 604	1 116	2 440	31 674	89 869	63 913	153 720	7 432
3231	Printing & related support activities	-	18	10	1 416	43 604	1 116	2 440	31 674	89 869	63 913	153 720	7 432
32311	Printing	-	14	9	1 317	40 352	1 033	2 277	29 033	84 704	63 525	148 166	D
323110	Commercial lithographic printing ..	-	9	7	f	D	D	D	D	D	D	D	D
323117	Book printing	-	1	1	f	D	D	D	D	D	D	D	D
332	Fabricated metal product mfg	-	26	11	1 023	35 074	747	1 311	22 035	56 200	41 800	97 614	2 563
3323	Architectural & structural metals mfg	-	4	3	526	21 830	340	509	12 484	25 598	22 269	47 796	904

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

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

NAICS code	Geographic area and industry	E ¹	All establishments		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials (\$1,000)	Value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Total	With 20 employees or more	Number ²	Payroll (\$1,000)	Number	Hours (1,000)	Wages (\$1,000)				
YORK, PA—Con.													
31-33	Manufacturing—Con.												
333	Machinery mfg	—	14	11	2 385	133 836	1 766	3 815	69 430	747 365	267 508	1 015 582	35 789
3331	Agriculture, construction, & mining machinery mfg. . . .	—	2	2	g	D	D	D	D	D	D	D	D
33312	Construction machinery mfg	—	1	1	f	D	D	D	D	D	D	D	D
333120	Construction machinery mfg	—	1	1	f	D	D	D	D	D	D	D	D
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	4	3	f	D	D	D	D	D	D	D	D
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	—	4	3	f	D	D	D	D	D	D	D	D
333415	AC & warm air heating & commercial/ industrial refig equip mfg	—	4	3	f	D	D	D	D	D	D	D	D
339	Miscellaneous mfg.	—	8	4	f	D	D	D	D	D	D	D	D
3391	Medical equipment & supplies mfg	—	6	3	f	D	D	D	D	D	D	D	D
33911	Medical equipment & supplies mfg	—	6	3	f	D	D	D	D	D	D	D	D
339114	Dental equipment & supplies mfg	—	2	2	f	D	D	D	D	D	D	D	D
YORK TOWNSHIP, PA													
31-33	Manufacturing	2	25	12	1 260	37 585	917	1 607	22 173	100 064	118 262	218 034	5 780
YOUNGWOOD, PA													
31-33	Manufacturing	—	10	4	547	18 489	382	717	11 628	S	S	98 644	3 384
ZELIENOPLE, PA													
31-33	Manufacturing	1	19	8	686	24 152	449	882	13 519	61 665	43 364	104 789	5 689

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

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

Table 5. Detailed Statistics for the State: 1997

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

Item	Value	Item	Value
PENNSYLVANIA		PENNSYLVANIA—Con.	
Companies ¹ number..	15 750	Quantity of electricity purchased for heat and power 1,000 kWh..	34 325 064
All establishments number..	17 128	Quantity of electricity generated less sold for heat and power 1,000 kWh..	3 121 852
Establishments with 1 to 19 employees number..	10 771	Total value of shipments \$1,000..	172 193 216
Establishments with 20 to 99 employees number..	4 495	Value of resales \$1,000..	7 813 952
Establishments with 100 employees or more number..	1 862	Value added \$1,000..	86 212 087
All employees number..	826 521	Total inventories, beginning of year \$1,000..	20 324 457
Total compensation ² \$1,000..	34 924 520	Finished goods inventories, beginning of year \$1,000..	7 603 681
Annual payroll \$1,000..	27 641 293	Work-in-process inventories, beginning of year \$1,000..	6 198 723
Total fringe benefits \$1,000..	7 283 227	Materials and supplies inventories, beginning of year \$1,000..	6 522 053
Production workers, average for year number..	597 544	Total inventories, end of year \$1,000..	21 297 226
Production workers on March 12 number..	593 614	Finished goods inventories, end of year \$1,000..	7 946 460
Production workers on May 12 number..	596 466	Work-in-process inventories, end of year \$1,000..	6 622 062
Production workers on August 12 number..	601 015	Materials and supplies inventories, end of year \$1,000..	6 728 704
Production workers on November 12 number..	599 081	Gross book value of total assets at beginning of year \$1,000..	63 970 684
Production-worker hours 1,000..	1 198 200	Total capital expenditures (new and used) \$1,000..	6 902 381
Production-worker wages \$1,000..	17 045 095	Capital expenditures for buildings and other structures (new and used) \$1,000..	1 080 348
Total cost of materials \$1,000..	86 722 271	Capital expenditures for machinery and equipment (new and used) \$1,000..	5 822 033
Cost of materials, parts, containers, etc., consumed \$1,000..	75 432 815	Total retirements ² \$1,000..	1 847 943
Cost of resales \$1,000..	5 686 053	Gross book value of total assets at end of year \$1,000..	69 039 635
Cost of fuels \$1,000..	1 341 579	Total depreciation during year ² \$1,000..	4 459 630
Cost of purchased electricity \$1,000..	1 915 732	Total rental payments ² \$1,000..	1 185 897
Cost of contract work \$1,000..	2 346 092	Buildings and other structures rental payments ² \$1,000..	554 232
		Machinery and equipment rental payments ² \$1,000..	631 512

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

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

Appendix A.

Explanation of Terms

BEGINNING- AND END-OF-YEAR INVENTORIES

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

Inventory Data by Stage of Fabrication

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

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

COST OF MATERIALS

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

Included in this item are:

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

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

Duplication in Cost of Materials and Value of Shipment

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

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

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

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

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

DEPRECIATION CHARGES FOR FIXED ASSETS

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

EMPLOYEES

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

Production Workers

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

All Other Employees

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

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

FRINGE BENEFITS

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

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

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

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

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

NUMBER OF ESTABLISHMENTS AND COMPANIES

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

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

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

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

PAYROLL

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

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

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

PRODUCTION-WORKER HOURS

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

QUANTITY OF ELECTRIC ENERGY CONSUMED FOR HEAT AND POWER

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

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

RENTAL PAYMENTS

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

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

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

RETIREMENTS OF DEPRECIABLE ASSETS

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

TOTAL CAPITAL EXPENDITURES (NEW AND USED)

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

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

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

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

VALUE ADDED

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

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

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

VALUE OF SHIPMENTS

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

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

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

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

Duplication in Cost of Materials and Value of Shipment

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

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

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

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

Appendix B.

NAICS Codes, Titles, and Descriptions

SECTOR 31-33 MANUFACTURING

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

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

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

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

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

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

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

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

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

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

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

311 Food Manufacturing

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

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

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

3111 Animal Food Manufacturing

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

31111 Animal Food Manufacturing

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

311111 Dog and Cat Food Manufacturing

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

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

2047 Dog and cat food

311119 Other Animal Food Manufacturing

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

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

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

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

3112 Grain and Oilseed Milling

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

31121 Flour Milling and Malt Manufacturing

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

311211 Flour Milling

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

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

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

2041 Flour and other grain mill products

311212 Rice Milling

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

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

2044 Rice milling

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

311213 Malt Manufacturing

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

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

2083 Malt

31122 Starch and Vegetable Fats and Oils Manufacturing

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

311221 Wet Corn Milling

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

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

2046 Wet corn milling

311222 Soybean Processing

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

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

2075 Soybean oil mills (pt)

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

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

311223 Other Oilseed Processing

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

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

2074 Cottonseed oil mills (pt)

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

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

311225 Fats and Oils Refining and Blending

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

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

2074 Cottonseed oil mills (pt)

2075 Soybean oil mills (pt)

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

2077 Animal and marine fats and oil (pt)

2079 Shortening and cooking oils

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

31123 Breakfast Cereal Manufacturing

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

311230 Breakfast Cereal Manufacturing

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

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

2043 Cereal breakfast foods (pt)

3113 Sugar and Confectionery Product Manufacturing

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

31131 Sugar Manufacturing

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

311311 Sugarcane Mills

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

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

2061 Raw cane sugar

311312 Cane Sugar Refining

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

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

2062 Cane sugar refining

311313 Beet Sugar Manufacturing

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

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

2063 Beet sugar

31132 Chocolate and Confectionery Manufacturing From Cacao Beans

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

311320 Chocolate and Confectionery Manufacturing From Cacao Beans

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

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

2066 Chocolate and cocoa products

31133 Confectionery Manufacturing From Purchased Chocolate

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

311330 Confectionery Manufacturing From Purchased Chocolate

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

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

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

5441 Candy, nut, and confectionery stores (pt)

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

3113301 Chocolate and Chocolate-type Confectionery Retail – Manufacturer

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

3113302 Chocolate and Chocolate-type Confectionery – Manufacturer

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

31134 Nonchocolate Confectionery Manufacturing

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

311340 Nonchocolate Confectionery Manufacturing

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

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

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

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

5441 Candy, nut, and confectionery stores (pt)

3113401 Nonchocolate-Type Confectionery Products Retail – Manufacturer

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

3113402 Nonchocolate-Type Confectionery Products – Manufacturer

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

3114 Fruit and Vegetable Preserving and Specialty Food Manufacturing

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

31141 Frozen Food Manufacturing

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

311411 Frozen Fruit, Juice, and Vegetable Manufacturing

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

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

2037 Frozen fruits and vegetables

311412 Frozen Specialty Food Manufacturing

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

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

2038 Frozen specialties, n.e.c.

31142 Fruit and Vegetable Canning, Pickling, and Drying

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

311421 Fruit and Vegetable Canning

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

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

2033 Canned fruits and vegetables

2035 Pickles, sauces, and salad dressings (pt)

311422 Specialty Canning

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

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

2032 Canned specialties (pt)

311423 Dried and Dehydrated Food Manufacturing

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

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

2034 Dehydrated fruits, vegetables, and soups (pt)

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

3115 Dairy Product Manufacturing

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

31151 Dairy Product (Except Frozen) Manufacturing

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

311511 Fluid Milk Manufacturing

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

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

2026 Fluid milk

311512 Creamery Butter Manufacturing

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

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

2021 Creamery butter

311513 Cheese Manufacturing

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

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

2022 Cheese, natural and processed

311514 Dry, Condensed, and Evaporated Dairy Product Manufacturing

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

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

2023 Dry, condensed and evaporated milk

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

31152 Ice Cream and Frozen Dessert Manufacturing

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

311520 Ice Cream and Frozen Dessert Manufacturing

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

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

2024 Ice cream and frozen desserts

3116 Meat Product Manufacturing

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

31161 Animal Slaughtering and Processing

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

311611 Animal (Except Poultry) Slaughtering

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

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

2011 Meat packing plants

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

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

311612 Meat Processed From Carcasses

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

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

2013 Sausages and other prepared meats

5147 Meat and meat products (pt)

311613 Rendering and Meat Byproduct Processing

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

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

2077 Animal and marine fats and oil (pt)

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

311615 Poultry Processing

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

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

2015 Poultry and egg processing (pt)

3117 Seafood Product Preparation and Packaging

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

31171 Seafood Product Preparation and Packaging

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

311711 Seafood Canning

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

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

2077 Animal and marine fats and oil (pt)

2091 Canned and cured seafood

311712 Fresh and Frozen Seafood Processing

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

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

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

2077 Animal and marine fats and oil (pt)

2092 Prepared fresh or frozen fish and seafood

3118 Bakeries and Tortilla Manufacturing

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

31181 Bread and Bakery Product Manufacturing

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

311811 Retail Bakeries

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

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

5461 Retail bakeries (pt)

311812 Commercial Bakeries

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

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

2051 Bread, cake, and related products

2052 Cookies and crackers (pt)

311813 Frozen Cakes, Pies, and Other Pastries Manufacturing

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

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

2053 Frozen bakery products, except bread

31182 Cookie, Cracker, and Pasta Manufacturing

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

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

311821 Cookie and Cracker Manufacturing

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

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

2052 Cookies and crackers (pt)

311822 Flour Mixes and Dough Manufacturing From Purchased Flour

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

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

2045 Blended and prepared flour

311823 Dry Pasta Manufacturing

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

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

2098 Macaroni and spaghetti

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

31183 Tortilla Manufacturing

This industry comprises establishments primarily engaged in manufacturing tortillas.

311830 Tortilla Manufacturing

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

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

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

3119 Other Food Manufacturing

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

31191 Snack Food Manufacturing

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

311911 Roasted Nuts and Peanut Butter Manufacturing

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

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

2068 Salted and roasted nuts and seeds

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

311919 Other Snack Food Manufacturing

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

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

2052 Cookies and crackers (pt)

2096 Potato chips and similar snacks

31192 Coffee and Tea Manufacturing

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

311920 Coffee and Tea Manufacturing

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

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

2043 Cereal breakfast foods (pt)

2095 Roasted coffee (pt)

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

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

31193 Flavoring Syrup and Concentrate Manufacturing

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

311930 Flavoring Syrup and Concentrate Manufacturing

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

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

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

31194 Seasoning and Dressing Manufacturing

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

311941 Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing

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

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

2035 Pickles, sauces, and salad dressings (pt)

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

311942 Spice and Extract Manufacturing

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

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

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

2095 Roasted coffee (pt)

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

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

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

31199 All Other Food Manufacturing

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

311991 Perishable Prepared Food Manufacturing

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

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

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

311999 All Other Miscellaneous Food Manufacturing

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

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

2015 Poultry slaughtering and processing (pt)

2032 Canned specialties (pt)

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

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

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

312 Beverage and Tobacco Product Manufacturing

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

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

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

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

3121 Beverage Manufacturing

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

31211 Soft Drink and Ice Manufacturing

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

312111 Soft Drink Manufacturing

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

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

2086 Bottled and canned soft drinks (pt)

312112 Bottled Water Manufacturing

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

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

2086 Bottled and canned soft drinks (pt)

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

312113 Ice Manufacturing

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

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

2097 Manufactured ice

31212 Breweries

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

312120 Breweries

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

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

2082 Malt beverages

31213 Wineries

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

312130 Wineries

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

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

2084 Wines, brandy, and brandy spirits

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

31214 Distilleries

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

312140 Distilleries

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

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

2085 Distilled liquor, except brandy

3122 Tobacco Manufacturing

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

31221 Tobacco Stemming and Redrying

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

312210 Tobacco Stemming and Redrying

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

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

2141 Tobacco stemming and redrying (pt)

31222 Tobacco Product Manufacturing

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

312221 Cigarette Manufacturing

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

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

2111 Cigarettes

312229 Other Tobacco Product Manufacturing

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

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

2121 Cigars

2131 Chewing and smoking tobacco

2141 Tobacco stemming and redrying (pt)

313 Textile Mills

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

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

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

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

3131 Fiber, Yarn, and Thread Mills

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

31311 Fiber, Yarn, and Thread Mills

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

313111 Yarn Spinning Mills

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

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

2281 Yarn spinning mills

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

313112 Yarn Texturizing, Throwing, and Twisting Mills

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

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

2282 Yarn throwing and winding mills (pt)

3131121 Yarn Texturing, Throwing, and Twisting Mills – Manufacturer

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

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

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

313113 Thread Mills

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

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

- 2284 Thread mills (pt)
- 2299 Textile goods, n.e.c. (pt)

3132 Fabric Mills

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

31321 Broadwoven Fabric Mills

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

313210 Broadwoven Fabric Mills

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

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

- 2211 Weaving mills, cotton
- 2221 Weaving mills, synthetics
- 2231 Weaving and finishing mills, wool (pt)
- 2299 Textile goods, n.e.c. (pt)

31322 Narrow Fabric Mills and Schiffli Machine Embroidery

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

313221 Narrow Fabric Mills

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

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

- 2241 Narrow fabric mills
- 2299 Textile goods, n.e.c. (pt)

313222 Schiffli Machine Embroidery

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

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

- 2397 Schiffli machine embroideries

31323 Nonwoven Fabric Mills

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

313230 Nonwoven Fabric Mills

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

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

- 2297 Nonwoven fabrics
- 2299 Textile goods, n.e.c. (pt)

31324 Knit Fabric Mills

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

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

313241 Weft Knit Fabric Mills

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

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

2257 Circular knit fabric mills (pt)

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

3132411 Weft Knit Fabric Mills – Manufacturer

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

3132412 Weft Knit Fabric Mills – Jobber

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

3132413 Weft Knit Fabric Mills – Contractor

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

313249 Other Knit Fabric and Lace Mills

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

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

2258 Lace and warp knit fabric mills (pt)

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

3132491 Other Knit Fabric and Lace Mills – Manufacturer

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

3132492 Other Knit Fabric and Lace Mills – Jobber

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

3132493 Other Knit Fabric and Lace Mills – Contractor

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

3133 Textile and Fabric Finishing and Fabric Coating Mills

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

31331 Textile and Fabric Finishing Mills

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

313311 Broadwoven Fabric Finishing Mills

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

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

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

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

3133111 Broadwoven Fabric Finishing Mills – Manufacturer

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

3133112 Broadwoven Fabric Finishing Mills – Converter

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

3133113 Broadwoven Fabric Finishing Mills – Commission Finisher

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

313312 Textile and Fabric Finishing (Except Broadwoven Fabric) Mills

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

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

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

2269 Finishing plants, n.e.c.

2282 Yarn throwing and winding mills (pt)

2284 Thread mills (pt)

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

5131 Piece goods, notions and other dry goods (pt)

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

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

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

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

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

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

31332 Fabric Coating Mills

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

313320 Fabric Coating Mills

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

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

2295 Coated fabrics, not rubberized

3069 Fabricated rubber products, n.e.c. (pt)

314 Textile Product Mills

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

3141 Textile Furnishings Mills

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

31411 Carpet and Rug Mills

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

314110 Carpet and Rug Mills

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

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

2273 Carpets and rugs

31412 Curtain and Linen Mills

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

314121 Curtain and Drapery Mills

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

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

2391 Curtains and draperies

5714 Drapery and upholstery stores (pt)

314129 Other Household Textile Product Mills

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

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

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

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

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

3149 Other Textile Product Mills

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

31491 Textile Bag and Canvas Mills

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

314911 Textile Bag Mills

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

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

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

2393 Textile bags

314912 Canvas and Related Product Mills

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

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

2394 Canvas and related products

31499 All Other Textile Product Mills

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

314991 Rope, Cordage, and Twine Mills

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

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

2298 Cordage and twine

314992 Tire Cord and Tire Fabric Mills

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

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

2296 Tire cord and fabric

314999 All Other Miscellaneous Textile Product Mills

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

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

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

2395 Pleating and stitching (pt)

2396 Automotive and apparel trimmings (pt)

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

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

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

315 Apparel Manufacturing

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

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

3151 Apparel Knitting Mills

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

31511 Hosiery and Sock Mills

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

315111 Sheer Hosiery Mills

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

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

2251 Women's hosiery, except socks

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

315119 Other Hosiery and Sock Mills

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

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

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

31519 Other Apparel Knitting Mills

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

315191 Outerwear Knitting Mills

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

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

2253 Knit outerwear mills

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

3151911 Outerwear Knitting Mills – Manufacturer

Establishments primarily engaged in knitting outerwear clothing.

3151912 Outerwear Knitting Mills – Jobber

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

3151913 Outerwear Knitting Mills – Contractor

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

315192 Underwear and Nightwear Knitting Mills

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

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

2254 Knit underwear mills

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

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

3152 Cut and Sew Apparel Manufacturing

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

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

31521 Cut and Sew Apparel Contractors

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

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

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

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

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

2321 Shirts, men’s and boys’ (pt)

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

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

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

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

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

2384 Robes and dressing gowns (pt)

2385 Waterproof outer garments (pt)

2395 Pleating and stitching (pt)

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

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

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

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

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

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

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

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

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

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

The data published with NAICS code 315221 include the following SIC industries:

- 2322 Men's and boys' underwear and nightwear (pt)
- 2341 Women's and children's underwear (pt)
- 2369 Girls' and children's outerwear, n.e.c. (pt)
- 2384 Robes and dressing gowns (pt)

315222 Men's and Boys' Cut and Sew Suit, Coat, and Overcoat Manufacturing

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

The data published with NAICS code 315222 include the following SIC industries:

- 2311 Men's and boys' suits and coats (pt)
- 2369 Girls' and children's outerwear, n.e.c. (pt)
- 2385 Waterproof outer garments (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 315222 do not include establishments primarily engaged in custom tailoring.

3152221 Men's and Boys' Cut and Sew Suit, Coat, and Overcoat Manufacturing – Manufacturer

Establishments primarily engaged in manufacturing men's and boys' suits, overcoats, sport coats, tuxedos, dress uniforms, and other tailored apparel (except fur and leather) from purchased fabric.

3152222 - Men's and Boys' Cut and Sew Suit, Coat, and Overcoat Manufacturing - Jobber

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

315223 Men's and Boys' Cut and Sew Shirt (Except Work Shirt) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' outerwear shirts from purchased fabric. Men's and boys' shirt (except

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

arranging for apparel to be made from their materials, and marketing finished apparel, are included. Unisex sweat-pants and similar garments that are sized without specific reference to gender (i.e., adult S, M, L, XL) are also included in this industry. Examples of products made by these establishments are athletic clothing (except athletic uniforms), bathing suits, down coats, outerwear shorts, windbreakers and jackets, and jogging suits.

The data published with NAICS code 315228 include the following SIC industries:

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

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

2385 Waterproof outer garments (pt)

3152281 Men's and Boys' Cut and Sew Other Outerwear Manufacturing – Manufacturer

Establishments primarily engaged in manufacturing men's and boys' cut and sew outerwear from purchased fabric (except underwear, nightwear, shirts, suits, overcoats and tailored coats, separate trousers and slacks, and working clothing).

3152282 Men's and Boys' Cut and Sew Other Outerwear Manufacturing – Jobbers

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

31523 Women's and Girls' Cut and Sew Apparel Manufacturing

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

315231 Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing women's and girls' bras, girdles, and other underwear; lingerie; loungewear; and nightwear from purchased fabric. Women's and girls' lingerie, loungewear, and nightwear jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their

materials, and marketing finished apparel, are included. Examples of products made by these establishments are bathrobes, foundation garments, nightgowns, pajamas, panties, and slips.

The data published with NAICS code 315231 include the following SIC industries:

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

2342 Brassieres and allied garments (pt)

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

2384 Robes and dressing gowns (pt)

2389 Apparel and accessories, n.e.c. (pt)

3152311 Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing – Manufacturer

Establishments primarily engaged in manufacturing women's and girls' bras, girdles, and other underwear; lingerie; loungewear; and nightwear from purchased fabric.

3152312 Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing – Jobbers

Establishments engaged as women's and girls' lingerie, loungewear, and nightwear jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel.

315232 Women's and Girls' Cut and Sew Blouse and Shirt Manufacturing

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

The data published with NAICS code 315232 include the following SIC industries:

2331 Women's blouses and waists (pt)

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

3152321 Women's and Girls' Cut and Sew Blouse and Shirt Manufacturing – Manufacturer

Establishments primarily engaged in manufacturing women's and girls' blouses and shirts from purchased fabric.

3152322 Women's and Girls' Cut and Sew Blouse and Shirt Manufacturing – Jobbers

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

315233 Women's and Girls' Cut and Sew Dress Manufacturing

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

The data published with NAICS code 315233 include the following SIC industries:

2335 Women's dresses (pt)

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

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 315233 do not include establishments primarily engaged in custom tailoring.

3152331 Women's and Girls' Cut and Sew Dress Manufacturing – Manufacturer

Establishments primarily engaged in manufacturing women's and girls' dresses from purchased fabric.

3152332 Women's and Girls' Cut and Sew Dress Manufacturing – Jobbers

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

315234 Women's and Girls' Cut and Sew Suit, Coat, Tailored Jacket, and Skirt Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing women's and girls' suits, pantsuits, skirts, tailored jackets, vests, raincoats, and other tailored coats, (except fur and leather coats) from purchased fabric. Women's and girls' suit, coat, tailored jacket, and skirt jobbers, who perform entrepreneurial

functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

The data published with NAICS code 315234 include the following SIC industries:

2337 Women's suits and coats (pt)

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

2385 Waterproof outer garments (pt)

3152341 Women's and Girls' Cut and Sew Suit, Coat, Tailored Jacket, and Skirt Manufacturing – Manufacturer

Establishments primarily engaged in manufacturing women's and girls' suits, pantsuits, skirts, tailored jackets, vests, raincoats, and other tailored coats, (except fur and leather coats) from purchased fabric.

3152342 Women's and Girls' Cut and Sew Suit, Coat, Tailored Jacket, and Skirt Manufacturing – Jobbers

Establishments engaged as women's and girls' suit, coat, tailored jacket, and skirt jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel.

315239 Women's and Girls' Cut and Sew Other Outerwear Manufacturing

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

The data published with NAICS code 315239 include the following SIC industries:

2339 Women's outerwear, n.e.c. (pt)

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

2385 Waterproof outer garments (pt)

3152391 Women's and Girls' Cut and Sew Other Outerwear Manufacturing – Manufacturer

Establishments primarily engaged in manufacturing women's and girls' cut and sew apparel from purchased fabric (except underwear, lingerie, nightwear, blouses, shirts, dresses, suits, tailored coats, tailored jackets, and skirts).

3152392 Women's and Girls' Cut and Sew Other Outerwear Manufacturing – Jobbers

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

31529 Other Cut and Sew Apparel Manufacturing

This industry comprises establishments primarily engaged in manufacturing cut and sew apparel from purchased fabric (except men's, boys', women's, and girls' apparel). This industry includes establishments manufacturing apparel, such as fur apparel, leather apparel, infants' apparel, costumes, and clerical vestments.

315291 Infants' Cut and Sew Apparel Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing infants' dresses, blouses, shirts, and all other infants' wear from purchased fabric. Infants' clothing jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. For the purposes of classification, the term "infants' apparel" includes apparel for young children of an age not exceeding 24 months.

The data published with NAICS code 315291 include the following SIC industries:

- 2341 Women's and children's underwear (pt)
- 2361 Girls' and children's dresses and blouses (pt)
- 2369 Girls' and children's outerwear, n.e.c. (pt)
- 2385 Waterproof outer garments (pt)

3152911 Infants' Cut and Sew Apparel Manufacturing – Manufacturer

Establishments primarily engaged in manufacturing infants' dresses, blouses, shirts, and all other infants' wear from purchased fabric. For the purposes of classification, the term "infants' apparel" includes apparel for young children of an age not exceeding 24 months.

3152912 Infants' Cut and Sew Apparel Manufacturing – Jobbers

Establishments engaged as infants' clothing jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel. For the purposes of classification, the term "infants' apparel" includes apparel for young children of an age not exceeding 24 months.

315292 Fur and Leather Apparel Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing cut and sew fur and leather apparel, and sheep-lined clothing. Fur and leather apparel jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

The data published with NAICS code 315292 include the following SIC industries:

- 2371 Fur goods
- 2386 Leather and sheep-lined clothing

315299 All Other Cut and Sew Apparel Manufacturing

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

The data published with NAICS code 315299 include the following SIC industries:

- 2329 Men's and boys' clothing, n.e.c. (pt)
- 2339 Women's outerwear, n.e.c. (pt)
- 2389 Apparel and accessories, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 315299 do not include establishments primarily engaged in the manufacture of

waterproof rubber and plastic outerwear or rubber pants and raincoats. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3152991 All Other Cut and Sew Apparel Manufacturing – Manufacturer

Establishments primarily engaged in manufacturing cut and sew apparel from purchased fabric (except cut and sew apparel contractors; men's and boys' cut and sew underwear, nightwear, suits, coats, shirts, trousers, work clothing, and other outerwear; women's and girls' lingerie, blouses, shirts, dresses, suits, coats, and other outerwear; infants' apparel; and fur and leather apparel). Examples of products made by these establishments are team athletic uniforms, band uniforms, academic caps and gowns, clerical vestments, and costumes.

3152992 All Other Cut and Sew Apparel Manufacturing – Jobbers

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

3159 Apparel Accessories and Other Apparel Manufacturing

This industry group comprises establishments primarily engaged in manufacturing apparel accessories and other apparel (except apparel knitting mills, apparel contractors, men's and boys' cut and sew apparel, women's and girls' cut and sew apparel, infants' cut and sew apparel, fur and leather apparel, and all other cut and sew apparel). This industry group includes jobbers performing entrepreneurial functions involved in manufacturing apparel accessories.

31599 Apparel Accessories and Other Apparel Manufacturing

This industry comprises establishments primarily engaged in manufacturing apparel and accessories (except apparel knitting mills, cut and sew apparel contractors, men's and boys' cut and sew apparel, women's and girls' cut and sew apparel, and other cut and sew apparel). Jobbers, who perform entrepreneurial functions involved in apparel accessories manufacture, including buying raw materials, designing and preparing samples, arranging for

apparel accessories to be made from their materials, and marketing finished apparel accessories, are included. Examples of products made by these establishments are belts, caps, gloves (except medical, sporting, safety), hats, and neckties.

315991 Hat, Cap, and Millinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing cut and sew hats, caps, millinery, and hat bodies from purchased fabric. Jobbers, who perform entrepreneurial functions involved in hat, cap, and millinery manufacture, including buying raw materials, designing and preparing samples, arranging for hats, caps, and millinery to be made from their materials, and marketing finished hats, caps, and millinery, are included.

The data published with NAICS code 315991 include the following SIC industry:

2353 Hats, caps, and millinery

315992 Glove and Mitten Manufacturing

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

The data published with NAICS code 315992 include the following SIC industries:

2381 Fabric gloves and mittens

3151 Leather gloves and mittens

315993 Men's and Boys' Neckwear Manufacturing

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

The data published with NAICS code 315993 include the following SIC industry:

2323 Men's and boys' neckwear

315999 Other Apparel Accessories and Other Apparel Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing apparel and apparel accessories (except apparel knitting mills; cut and sew apparel contractors; cut and sew apparel; hats and caps; mittens and

gloves; and men's and boys' neckwear). Jobbers for these products, who perform entrepreneurial functions involved in other apparel and accessory manufacture, including buying raw materials, designing and preparing samples, arranging for other apparel and accessories to be made from their materials, and marketing finished other apparel and accessories, are included. Examples of products made by these establishments are apparel trimmings and findings, belts, women's scarves, suspenders, and waterproof outerwear.

The data published with NAICS code 315999 include the following SIC industries:

2339 Women's outerwear, n.e.c. (pt)

2385 Waterproof outer garments (pt)

2387 Apparel belts

2389 Apparel and accessories, n.e.c. (pt)

2396 Automotive and apparel trimmings (pt)

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

5699 Miscellaneous apparel and accessory stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 315999 include establishments primarily engaged in custom tailoring but do not include establishments primarily engaged in the manufacture of rubber bibs, aprons, and bathing caps.

316 Leather and Allied Product Manufacturing

Establishments in the Leather and Allied Product Manufacturing subsector transform hides into leather by tanning or curing and fabricating the leather into products for final consumption. It also includes the manufacture of similar products from other materials, including products (except apparel) made from "leather substitutes," such as rubber, plastics, or textiles. Rubber footwear, textile luggage, and plastics purses or wallets are examples of "leather substitute" products included in this group. The products made from leather substitutes are included in this subsector because they are made in similar ways leather products are made (e.g., luggage). They are made in the same establishments, so it is not practical to separate them.

The inclusion of leather making in this subsector is partly because leather tanning is a relatively small industry that has few close neighbors as a production process, partly because leather is an input to some of the other products classified in this subsector and partly for historical reasons.

3161 Leather and Hide Tanning and Finishing

This NAICS industry group includes establishments classified in NAICS Industry 31611, Leather and Hide Tanning and Finishing.

31611 Leather and Hide Tanning and Finishing

This industry comprises establishments primarily engaged in one or more of the following: (1) tanning, currying, and finishing hides and skins; (2) having others process hides and skins on a contract basis; and (3) dyeing or dressing furs.

316110 Leather and Hide Tanning and Finishing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) tanning, currying, and finishing hides and skins; (2) having others process hides and skins on a contract basis; and (3) dyeing or dressing furs.

The data published with NAICS code 316110 include the following SIC industries:

3111 Leather tanning and finishing

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

3162 Footwear Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 31621, Footwear Manufacturing.

31621 Footwear Manufacturing

This industry comprises establishments primarily engaged in manufacturing footwear (except orthopedic extension footwear).

316211 Rubber and Plastics Footwear Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing rubber and plastics footwear with vulcanized rubber or plastics soles, molded or cemented to rubber, plastics, or fabric uppers, and rubber and plastics protective footwear.

The data published with NAICS code 316211 include the following SIC industry:

Rubber and plastics footwear

316212 House Slipper Manufacturing

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

The data published with NAICS code 316212 include the following SIC industry:

3142 House slippers

316213 Men's Footwear (Except Athletic) Manufacturing

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

The data published with NAICS code 316213 include the following SIC industry:

3143 Men's footwear, except athletic

316214 Women's Footwear (Except Athletic) Manufacturing

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

The data published with NAICS code 316214 include the following SIC industry:

3144 Women's footwear, except athletic

316219 Other Footwear Manufacturing

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

The data published with NAICS code 316219 include the following SIC industry:

3149 Footwear, except rubber, n.e.c.

3169 Other Leather and Allied Product Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 31699, Other Leather and Allied Product Manufacturing.

31699 Other Leather and Allied Product Manufacturing

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

316991 Luggage Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing luggage of any material.

The data published with NAICS code 316991 include the following SIC industry:

3161 Luggage

316992 Women's Handbag and Purse Manufacturing

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

The data published with NAICS code 316992 include the following SIC industry:

3171 Women's handbags and purses

316993 Personal Leather Goods (Except Women's Handbag and Purse) Manufacturing

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

The data published with NAICS code 316993 include the following SIC industry:

3172 Personal leather goods, n.e.c.

316999 All Other Leather Goods Manufacturing

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

The data published with NAICS code 316999 include the following SIC industries:

3131 Footwear cut stock and findings (pt)

3199 Leather goods, n.e.c.

321 Wood Product Manufacturing

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

The Wood Product Manufacturing subsector includes establishments that make wood products from logs and bolts that are sawed and shaped, and establishments that purchase sawed lumber and make wood products. With the exception of sawmills and wood preservation establishments, the establishments are grouped into industries mainly based on the specific products manufactured.

3211 Sawmills and Wood Preservation

This industry group comprises establishments whose primary production process begins with logs or bolts that are transformed into boards, dimension lumber, beams, timbers, poles, ties, shingles, shakes, siding, and wood chips. Establishments that cut and treat round wood and/or treat wood products made in other establishments to prevent rotting by impregnation with creosote or other chemical compounds are also included in this industry group.

32111 Sawmills and Wood Preservation

This industry comprises establishments primarily engaged in one or more of the following: (1) sawing dimension lumber, boards, beams, timber, poles, ties, shingles, shakes, siding, and wood chips from logs or bolts; (2) sawing round wood poles, pilings, and posts and treating them with preservatives; and (3) treating wood sawed, planed, or shaped in other establishments with creosote or other preservatives to prevent decay and to protect against fire and insects. Sawmills may plane the rough lumber that they make with a planing machine to achieve smoothness and uniformity of size.

321113 Sawmills

This U.S. industry comprises establishments primarily engaged in sawing dimension lumber, boards, beams, timbers, poles, ties, shingles, shakes, siding, and wood chips from logs or bolts. Sawmills may plane the rough lumber that they make with a planing machine to achieve smoothness and uniformity of size.

The data published with NAICS code 321113 include the following SIC industries:

2421 Sawmills and planing mills, general (pt)

2429 Special product sawmills, n.e.c. (pt)

2439 Structural wood members, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 321113 include establishments primarily engaged in the manufacture of lumber members made from logs and bolts, but do not include establishments primarily engaged in the manufacture of hardwood dimension made from logs and bolts. The NAICS definitions will be fully implemented with the 2002 Economic Census.

321114 Wood Preservation

This U.S. industry comprises establishments primarily engaged in (1) treating wood sawed, planed, or shaped in other establishments with creosote or other preservatives,

such as chromated copper arsenate, to prevent decay and to protect against fire and insects and/or (2) sawing round wood poles, pilings, and posts and treating them with preservatives.

The data published with NAICS code 321114 include the following SIC industry:

2491 Wood preserving

3212 Veneer, Plywood, and Engineered Wood Product Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 32121, Veneer, Plywood, and Engineered Wood Product Manufacturing.

32121 Veneer, Plywood, and Engineered Wood Product Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing veneer and/or plywood; (2) manufacturing engineered wood members; and (3) manufacturing reconstituted wood products. This industry includes manufacturing plywood from veneer made in the same establishment or from veneer made in other establishments, and manufacturing plywood faced with nonwood materials, such as plastics or metal.

321211 Hardwood Veneer and Plywood Manufacturing

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

The data published with NAICS code 321211 include the following SIC industry:

2435 Hardwood veneer and plywood

321212 Softwood Veneer and Plywood Manufacturing

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

The data published with NAICS code 321212 include the following SIC industry:

2436 Softwood veneer and plywood

321213 Engineered Wood Member (Except Truss) Manufacturing

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

The data published with NAICS code 321213 include the following SIC industry:

2439 Structural wood members, n.e.c. (pt)

321214 Truss Manufacturing

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

The data published with NAICS code 321214 include the following SIC industry:

2439 Structural wood members, n.e.c. (pt)

321219 Reconstituted Wood Product Manufacturing

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

The data published with NAICS code 321219 include the following SIC industry:

2493 Reconstituted wood products

3219 Other Wood Product Manufacturing

This industry group comprises establishments primarily engaged in manufacturing wood products (except establishments operating sawmills and wood preservation facilities; and establishments manufacturing veneer, plywood, or engineered wood products).

32191 Millwork

This industry comprises establishments primarily engaged in manufacturing hardwood and softwood cut stock and dimension stock (i.e., shapes); wood windows and wood doors; and other millwork including wood flooring. Dimension stock or cut stock is defined as lumber and worked wood products cut or shaped to specialized sizes. These establishments generally use woodworking machinery, such as jointers, planers, lathes, and routers to shape wood.

321911 Wood Window and Door Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing window and door units, sash, window and door frames, and doors from wood or wood clad with metal or plastics.

The data published with NAICS code 321911 include the following SIC industry:

2431 Millwork (pt)

321912 Cut Stock, Resawing Lumber, and Planing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing dimension lumber from purchased lumber; (2) manufacturing dimension stock (i.e., shapes) or cut stock; (3) resawing the output of sawmills; and (4) planing purchased lumber. These establishments generally use woodworking machinery, such as jointers, planers, lathes, and routers to shape wood.

The data published with NAICS code 321912 include the following SIC industries:

2421 Sawmills and planing mills, general (pt)

2426 Hardwood dimension and flooring mills (pt)

2439 Structural wood members, n.e.c. (pt)

2499 Wood products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 321912 include establishments primarily engaged in the manufacture of hardwood dimension made from logs and bolts, lumber members made from purchased lumber, and semi-machined and fully-machined softwood dimension lumber, but do not include establishments primarily engaged in the manufacture of staves from purchased lumber. The NAICS definitions will be fully implemented with the 2002 Economic Census.

321918 Other Millwork (Including Flooring)

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

The data published with NAICS code 321918 include the following SIC industries:

2421 Sawmills and planing mills, general (pt)

2426 Hardwood dimension and flooring mills (pt)

2431 Millwork (pt)

32192 Wood Container and Pallet Manufacturing

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

321920 Wood Container and Pallet Manufacturing

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

The data published with NAICS code 321920 include the following SIC industries:

2429 Special product sawmills, n.e.c. (pt)

2441 Nailed wood boxes & shoo

2448 Wood pallets and skids

2449 Wood containers, n.e.c.

2499 Wood products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 321920 include establishments primarily engaged in the manufacture of cooperage headings and staves made of purchased lumber. The NAICS definitions will be fully implemented with the 2002 Economic Census.

32199 All Other Wood Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing wood products (except establishments operating sawmills and wood preservation facilities; and establishments manufacturing veneer, plywood, engineered wood products, millwork, wood containers, or pallets).

321991 Manufactured Home (Mobile Home) Manufacturing

This U.S. industry comprises establishments primarily engaged in making manufactured homes (i.e., mobile homes) and nonresidential mobile buildings. Manufactured homes are designed to accept permanent water, sewer, and utility connections and although equipped with wheels, they are not intended for regular highway movement.

The data published with NAICS code 321991 include the following SIC industry:

2451 Mobile homes

321992 Prefabricated Wood Building Manufacturing

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

The data published with NAICS code 321992 include the following SIC industry:

2452 Prefabricated wood buildings

321999 All Other Miscellaneous Wood Product Manufacturing

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

The data published with NAICS code 321999 include the following SIC industries:

2421 Sawmills and planing mills, general (pt)

2429 Special product sawmills, n.e.c. (pt)

2499 Wood products, n.e.c. (pt)

3131 Footwear cut stock and findings (pt)

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

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 321999 include establishments primarily engaged in the manufacture of wood cooling towers, but do not include establishments primarily engaged in the manufacture of finished metal moldings for mirrors and pictures, semi-machined and fully-machined softwood dimension, or cooperage headings. The NAICS definitions will be fully implemented with the 2002 Economic Census.

322 Paper Manufacturing

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

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

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

An important process used in the Paper Bag and Coated and Treated Paper Manufacturing industry is lamination, often combined with coating. Lamination and coating makes a composite material with improved properties of strength, impermeability, and so on. The laminated materials may be paper, metal foil, or plastics film. While paper is often one of the components, it is not always. Lamination of plastics film to plastics film is classified in the NAICS Subsector 326, Plastics and Rubber Products Manufacturing, because establishments that do this often first make the film.

The same situation holds with respect to bags. The manufacturing of bags from plastics only, whether or not laminated, is classified in Subsector 326, Plastics and Rubber Products Manufacturing, but all other bag manufacturing is classified in this subsector.

Excluded from this subsector are photosensitive papers. These papers are chemically treated and are classified in Industry 32599, All Other Chemical Product and Preparation Manufacturing.

3221 Pulp, Paper, and Paperboard Mills

This industry group comprises establishments primarily engaged in manufacturing pulp, paper, or paperboard.

32211 Pulp Mills

This industry comprises establishments primarily engaged in manufacturing pulp without manufacturing paper or paperboard. The pulp is made by separating the cellulose fibers from the other impurities in wood or other materials, such as used or recycled rags, linters, scrap paper, and straw.

322110 Pulp Mills

This U.S. industry comprises establishments primarily engaged in manufacturing pulp without manufacturing paper or paperboard. The pulp is made by separating the cellulose fibers from the other impurities in wood or other materials, such as used or recycled rags, linters, scrap paper, and straw.

The data published with NAICS code 322110 include the following SIC industry:

2611 Pulp mills

32212 Paper Mills

This industry comprises establishments primarily engaged in manufacturing paper from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may convert the paper they make. The activity of making paper classifies an establishment into this industry regardless of the output.

322121 Paper (Except Newsprint) Mills

This U.S. industry comprises establishments primarily engaged in manufacturing paper (except newsprint and uncoated groundwood paper) from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paper they make.

The data published with NAICS code 322121 include the following SIC industries:

2621 Paper mills (pt)

2676 Sanitary paper products (pt)

3842 Surgical appliances and supplies (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 322121 include paper mills which convert sanitary paper stock into sanitary paper products, but do not include paper mills which are primarily engaged in the manufacture of other converted paper products. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3221211 Paper (Except Newsprint) Mills – Integrated Producer

Establishments primarily engaged in manufacturing paper (except newsprint and uncoated groundwood paper) from pulp in combination with pulp manufacture.

3221212 Paper (Except Newsprint) Mills – Nonintegrated Producer

Establishments primarily engaged in manufacturing paper (except newsprint and uncoated groundwood paper) from pulp not in combination with pulp manufacture.

322122 Newsprint Mills

This U.S. industry comprises establishments primarily engaged in manufacturing newsprint and uncoated groundwood paper from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paper they make.

The data published with NAICS code 322122 include the following SIC industry:

2621 Paper mills (pt)

3221221 Newsprint Mills – Integrated Producer

Establishments primarily engaged in manufacturing newsprint and uncoated groundwood paper from pulp in combination with pulp manufacture.

3221222 Newsprint Mills – Nonintegrated Producer

Establishments primarily engaged in manufacturing newsprint and uncoated groundwood paper from pulp not in combination with pulp manufacture.

32213 Paperboard Mills

This industry comprises establishments primarily engaged in manufacturing paperboard from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paperboard they make.

322130 Paperboard Mills

This U.S. industry comprises establishments primarily engaged in manufacturing paperboard from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paperboard they make.

The data published with NAICS code 322130 include the following SIC industry:

2631 Paperboard mills

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 322130 do not include paperboard mills primarily engaged in converting paperboard into paperboard products. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3221301 Paperboard Mills – Integrated Producer

Establishments primarily engaged in manufacturing paperboard from pulp in combination with pulp manufacture.

3221302 Paperboard Mills – Nonintegrated Producer

Establishments primarily engaged in manufacturing paperboard from pulp not in combination with pulp manufacture or paperboard converting.

3222 Converted Paper Product Manufacturing

This industry group comprises establishments primarily engaged in converting paper or paperboard without manufacturing paper or paperboard.

32221 Paperboard Container Manufacturing

This industry comprises establishments primarily engaged in converting paperboard into containers without manufacturing paperboard. These establishments use corrugating, cutting, and shaping machinery to form paperboard into containers. Products made by these establishments include boxes; corrugated sheets, pads, and pallets; paper dishes; and fiber drums and reels.

322211 Corrugated and Solid Fiber Box Manufacturing

This U.S. industry comprises establishments primarily engaged in laminating purchased paper or paperboard into corrugated or solid fiber boxes and related products, such as pads, partitions, pallets, and corrugated paper without manufacturing paperboard. These boxes are generally used for shipping.

The data published with NAICS code 322211 include the following SIC industry:

2653 Corrugated and solid fiber boxes

322212 Folding Paperboard Box Manufacturing

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

The data published with NAICS code 322212 include the following SIC industry:

2657 Folding paperboard boxes

322213 Setup Paperboard Box Manufacturing

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

The data published with NAICS code 322213 include the following SIC industry:

2652 Setup paperboard boxes

322214 Fiber Can, Tube, Drum, and Similar Products Manufacturing

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

The data published with NAICS code 322214 include the following SIC industry:

2655 Fiber cans, drums, and similar products

322215 Nonfolding Sanitary Food Container Manufacturing

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

The data published with NAICS code 322215 include the following SIC industry:

2656 Sanitary food containers

32222 Paper Bag and Coated and Treated Paper Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) cutting and coating paper and paperboard; (2) cutting and laminating paper and paperboard and other flexible materials (except plastics film to plastics film); (3) manufacturing bags or multiwall bags or sacks of paper, metal foil, coated paper, or laminates or coated combinations of paper and foil with plastics film; (4) manufacturing laminated aluminum and other converted metal foils from purchased foils; and (5) surface coating paper or paperboard.

322221 Coated and Laminated Packaging Paper and Plastics Film Manufacturing

This U.S. industry comprises establishments primarily engaged in performing one or more of the following activities associated with the manufacturing of packaging materials: (1) cutting and coating paper; and (2) cutting and laminating paper with other flexible materials (except plastics to plastics or foil to paper laminates). The products made in this industry are made from purchased sheet materials and may be printed in the same establishment.

The data published with NAICS code 322221 include the following SIC industry:

2671 Paper - coated and laminated, packaging (pt)

322222 Coated and Laminated Paper Manufacturing

This U.S. industry comprises establishments primarily engaged in performing one or more of the following activities associated with making products designed for purposes other than packaging: (1) cutting and coating paper; (2) cutting and laminating paper and other flexible materials (except plastics film to plastics film); and (3) manufacturing converted aluminum and other metal foils for non-packaging uses from purchased foils. The products made in this industry are made from purchased sheet materials and may be printed in the same establishment.

The data published with NAICS code 322222 include the following SIC industries:

2672 Paper - coated and laminated, n.e.c.

2679 Converted paper products, n.e.c. (pt)

322223 Plastics, Foil, and Coated Paper Bag Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing bags of coated paper, of metal foil, or of laminated or coated combinations of plastics, foil, and paper, whether or not printed.

The data published with NAICS code 322223 include the following SIC industry:

2673 Bags - plastics, laminated, and coated (pt)

322224 Uncoated Paper and Multiwall Bag Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing uncoated paper bags or multiwall bags and sacks.

The data published with NAICS code 322224 include the following SIC industry:

2674 Bags - uncoated paper and multiwall

322225 Laminated Aluminum Foil Manufacturing for Flexible Packaging Uses

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

The data published with NAICS code 322225 include the following SIC industry:

3497 Metal foil and leaf (pt)

322226 Surface-Coated Paperboard Manufacturing

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

The data published with NAICS code 322226 include the following SIC industry:

2675 Die-cut paper and board (pt)

32223 Stationery Product Manufacturing

This industry comprises establishments primarily engaged in converting paper or paperboard into products used for writing, filing, art work, and similar applications.

322231 Die-Cut Paper and Paperboard Office Supplies Manufacturing

This U.S. industry comprises establishments primarily engaged in converting paper rollstock or paperboard into die-cut paper or paperboard office supplies. For the purpose of this industry, office supplies are defined as office products, such as filing folders, index cards, rolls for adding machines, file separators and dividers, tabulating cards, and other paper and paperboard office supplies.

The data published with NAICS code 322231 include the following SIC industries:

2675 Die-cut paper and board (pt)

2679 Converted paper products, n.e.c. (pt)

322232 Envelope Manufacturing

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

The data published with NAICS code 322232 include the following SIC industry:

2677 Envelopes

322233 Stationery, Tablet, and Related Product Manufacturing

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

The data published with NAICS code 322233 include the following SIC industry:

2678 Stationery products

32229 Other Converted Paper Product Manufacturing

This industry comprises establishments primarily engaged in (1) converting paper and paperboard into products (except containers, bags, coated and treated paper and paperboard, and stationery products), or (2) converting pulp into pulp products, such as disposable diapers, or molded pulp egg cartons, food trays, and dishes. Processes used include laminating or lining purchased paper or paperboard.

322291 Sanitary Paper Product Manufacturing

This U.S. industry comprises establishments primarily engaged in converting purchased sanitary paper stock or wadding into sanitary paper products, such as facial tissues and handkerchiefs, table napkins, toilet paper, towels, disposable diapers, sanitary napkins, and tampons.

The data published with NAICS code 322291 include the following SIC industries:

2676 Sanitary paper products (pt)

3842 Surgical appliances and supplies (pt)

322299 All Other Converted Paper Product Manufacturing

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

The data published with NAICS code 322299 include the following SIC industries:

2675 Die-cut paper and board (pt)

2679 Converted paper products, n.e.c. (pt)

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

323 Printing and Related Support Activities

Industries in the Printing and Related Support Activities subsector print products, such as newspapers, books, periodicals, business forms, greeting cards, and other materials, and perform support activities, such as book-binding, platemaking services, and data imaging. The support activities included here are an integral part of the printing industry, and a product (a printing plate, a bound book, or a computer disk or file) that is an integral part of the printing industry is almost always provided by these operations.

Processes used in printing include a variety of methods used to transfer an image from a plate, screen, or computer file to some medium, such as paper, plastics, metal, textile articles, or wood. The most prominent of these methods is to transfer the image from a plate or screen to the medium (lithographic, gravure, screen, and flexographic printing). A rapidly growing new technology uses a computer file to directly “drive” the printing mechanism to create the image and new electrostatic and other types of equipment (digital or nonimpact printing).

In contrast to many other classification systems that locate publishing of printed materials in manufacturing, NAICS classifies the publishing of printed products in Subsector 511, Publishing Industries. Though printing and publishing are often carried out by the same enterprise (a newspaper, for example), it is less and less the case that these distinct activities are carried out in the same establishment. When publishing and printing are done in the same establishment, the establishment is classified in Sector 51, Information, in the appropriate NAICS industry even if the receipts for printing exceed those for publishing.

This subsector includes printing on clothing because the production process for that activity is printing, not clothing manufacturing. For instance, the printing of T-shirts is included in this subsector. In contrast, printing on fabric (or grey goods) is not included. This activity is part of the process of finishing the fabric and is included in the NAICS Textile Mills subsector in Industry 31331, Textile and Fabric Finishing Mills.

3231 Printing and Related Support Activities

This NAICS industry group includes establishments classified in the following NAICS Industries: 32311, Printing; and 32312, Support Activities for Printing.

32311 Printing

This industry comprises establishments primarily engaged in printing on apparel and textile products, paper, metal, glass, plastics, and other materials, except fabric (grey goods). The printing processes employed include, but are not limited to, lithographic, gravure, screen, flexographic, digital, and letterpress. Establishments in this industry do not manufacture the stock that they print but may perform postprinting activities, such as bending, cutting, or laminating the materials they print, and mailing.

323110 Commercial Lithographic Printing

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

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

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

323111 Commercial Gravure Printing

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

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

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

323112 Commercial Flexographic Printing

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

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

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

323113 Commercial Screen Printing

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

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

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

323114 Quick Printing

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

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

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

323115 Digital Printing

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

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

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

323116 Manifold Business Form Printing

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

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

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

323117 Book Printing

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

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

- 2732 Book printing

323118 Blankbook, Looseleaf Binders, and Devices Manufacturing

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

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

2782 Blankbooks and looseleaf binders (pt)

323119 Other Commercial Printing

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

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

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

2771 Greeting cards (pt)

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

32312 Support Activities for Printing

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

323121 Tradebinding and Related Work

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

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

2789 Bookbinding and related work

323122 Prepress Services

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

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

2791 Typesetting

2796 Platemaking services

324 Petroleum and Coal Products Manufacturing

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

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

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

3241 Petroleum and Coal Products Manufacturing

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

32411 Petroleum Refineries

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

324110 Petroleum Refineries

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

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

2911 Petroleum refining

32412 Asphalt Paving, Roofing, and Saturated Materials Manufacturing

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

32412 Asphalt Paving, Roofing, and Saturated Materials Manufacturing

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

324121 Asphalt Paving Mixture and Block Manufacturing

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

The data published with NAICS code 324121 include the following SIC industry:

2951 Asphalt paving mixtures and blocks

324122 Asphalt Shingle and Coating Materials Manufacturing

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

The data published with NAICS code 324122 include the following SIC industry:

2952 Asphalt felts and coatings

32419 Other Petroleum and Coal Products Manufacturing

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

324191 Petroleum Lubricating Oil and Grease Manufacturing

This U.S. industry comprises establishments primarily engaged in blending or compounding refined petroleum to make lubricating oils and greases and/or re-refining used petroleum lubricating oils.

The data published with NAICS code 324191 include the following SIC industry:

2992 Lubricating oils and greases

324199 All Other Petroleum and Coal Products Manufacturing

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

The data published with NAICS code 324199 include the following SIC industries:

2999 Petroleum and coal products, n.e.c.

3312 Blast furnaces and steel mills (pt)

325 Chemical Manufacturing

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

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

3251 Basic Chemical Manufacturing

This industry group comprises establishments primarily engaged in manufacturing chemicals using basic processes, such as thermal cracking and distillation. Chemicals manufactured in this industry group are usually separate chemical elements or separate chemically-defined compounds.

32511 Petrochemical Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing acyclic (i.e., aliphatic) hydrocarbons such as ethylene, propylene, and butylene made from refined petroleum or liquid hydrocarbon and/or (2) manufacturing cyclic aromatic hydrocarbons such as benzene, toluene, styrene, xylene, ethyl benzene, and cumene made from refined petroleum or liquid hydrocarbons.

325110 Petrochemical Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing acyclic (i.e., aliphatic) hydrocarbons such as ethylene, propylene, and butylene made from refined petroleum or liquid hydrocarbon and/or (2) manufacturing cyclic aromatic hydrocarbons such as benzene, toluene, styrene, xylene, ethyl benzene, and cumene made from refined petroleum or liquid hydrocarbons.

The data published with NAICS code 325110 include the following SIC industries:

2865 Cyclic crudes and intermediates (pt)

2869 Industrial organic chemicals, n.e.c. (pt)

32512 Industrial Gas Manufacturing

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

325120 Industrial Gas Manufacturing

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

The data published with NAICS code 325120 include the following SIC industries:

2813 Industrial gases

2869 Industrial organic chemicals, n.e.c. (pt)

32513 Synthetic Dye and Pigment Manufacturing

This industry comprises establishments primarily engaged in manufacturing synthetic organic and inorganic dyes and pigments, such as lakes and toners (except electrostatic and photographic).

325131 Inorganic Dye and Pigment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing inorganic dyes and pigments.

The data published with NAICS code 325131 include the following SIC industries:

2816 Inorganic pigments (pt)

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

325132 Synthetic Organic Dye and Pigment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing synthetic organic dyes and pigments, such as lakes and toners (except electrostatic and photographic).

The data published with NAICS code 325132 include the following SIC industry:

2865 Cyclic crudes and intermediates (pt)

32518 Other Basic Inorganic Chemical Manufacturing

This industry comprises establishments primarily engaged in manufacturing basic inorganic chemicals (except industrial gases and synthetic dyes and pigments).

325181 Alkalies and Chlorine Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing chlorine, sodium hydroxide (i.e., caustic soda), and other alkalies often using an electrolysis process.

The data published with NAICS code 325181 include the following SIC industry:

2812 Alkalies and chlorine

325182 Carbon Black Manufacturing

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

The data published with NAICS code 325182 include the following SIC industries:

2816 Inorganic pigments (pt)

2895 Carbon black

325188 All Other Basic Inorganic Chemical Manufacturing

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

The data published with NAICS code 325188 include the following SIC industries:

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

2869 Industrial organic chemicals, n.e.c. (pt)

32519 Other Basic Organic Chemical Manufacturing

This industry comprises establishments primarily engaged in manufacturing basic organic chemicals (except petrochemicals, industrial gases, and synthetic dyes and pigments).

325191 Gum and Wood Chemical Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) distilling wood or gum into products, such as tall oil and wood distillates, and (2) manufacturing wood or gum chemicals, such as naval stores, natural tanning materials, charcoal briquettes, and charcoal (except activated).

The data published with NAICS code 325191 include the following SIC industry:

2861 Gum and wood chemicals

325192 Cyclic Crude and Intermediate Manufacturing

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

The data published with NAICS code 325192 include the following SIC industry:

2865 Cyclic crudes and intermediates (pt)

325193 Ethyl Alcohol Manufacturing

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

The data published with NAICS code 325193 include the following SIC industry:

2869 Industrial organic chemicals, n.e.c. (pt)

325199 All Other Basic Organic Chemical Manufacturing

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

The data published with NAICS code 325199 include the following SIC industries:

2869 Industrial organic chemicals, n.e.c. (pt)

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

3252 Resin, Synthetic Rubber, and Artificial and Synthetic Fibers and Filaments Manufacturing

32521 Resin and Synthetic Rubber Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing synthetic resins, plastics materials, and nonvulcanizable elastomers and mixing and blending resins on a custom basis; (2) manufacturing noncustomized synthetic resins; and (3) manufacturing synthetic rubber.

325211 Plastics Material and Resin Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing resins, plastics materials, and nonvulcanizable thermoplastic elastomers and mixing and blending resins on a custom basis and/or (2) manufacturing noncustomized synthetic resins.

The data published with NAICS code 325211 include the following SIC industry:

2821 Plastics materials and resins

325212 Synthetic Rubber Manufacturing

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

The data published with NAICS code 325212 include the following SIC industry:

2822 Synthetic rubber

32522 Artificial and Synthetic Fibers and Filaments Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing cellulosic (i.e., rayon and acetate) and noncellulosic (i.e., nylon, polyolefin, and polyester) fibers and filaments in the form of monofilament, filament yarn, staple, or tow or (2) manufacturing and texturing cellulosic and noncellulosic fibers and filaments.

325221 Cellulosic Organic Fiber Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing cellulosic (i.e., rayon and acetate) fibers and filaments in the form of monofilament, filament yarn, staple, or tow or (2) manufacturing and texturing cellulosic fibers and filaments.

The data published with NAICS code 325221 include the following SIC industry:

2823 Cellulosic manmade fibers

325222 Noncellulosic Organic Fiber Manufacturing

This U.S. industry consists of establishments primarily engaged in (1) manufacturing noncellulosic (i.e., nylon, polyolefin, and polyester) fibers and filaments in the form of monofilament, filament yarn, staple, or tow or (2) manufacturing and texturing noncellulosic fibers and filaments.

The data published with NAICS code 325222 include the following SIC industry:

2824 Organic fibers, noncellulosic

3253 Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32531, Fertilizer Manufacturing; and 32532, Pesticide and Other Agricultural Chemical Manufacturing.

32531 Fertilizer Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing nitrogenous or phosphatic fertilizer materials; (2) manufacturing fertilizers from sewage or animal waste; (3) manufacturing nitrogenous or phosphatic materials and mixing with other ingredients into fertilizers; and (4) mixing ingredients made elsewhere into fertilizers.

325311 Nitrogenous Fertilizer Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing nitrogenous fertilizer materials and mixing ingredients

into fertilizers; (2) manufacturing fertilizers from sewage or animal waste; and (3) manufacturing nitrogenous materials and mixing them into fertilizers.

The data published with NAICS code 325311 include the following SIC industry:

2873 Nitrogenous fertilizers

325312 Phosphatic Fertilizer Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing phosphatic fertilizer materials or (2) manufacturing phosphatic materials and mixing them into fertilizers.

The data published with NAICS code 325312 include the following SIC industry:

2874 Phosphatic fertilizers

325314 Fertilizer (Mixing Only) Manufacturing

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

The data published with NAICS code 325314 include the following SIC industry:

2875 Fertilizers, mixing only

32532 Pesticide and Other Agricultural Chemical Manufacturing

This industry comprises establishments primarily engaged in the formulation and preparation of agricultural and household pest control chemicals (except fertilizers).

325320 Pesticide and Other Agricultural Chemical Manufacturing

This U.S. industry comprises establishments primarily engaged in the formulation and preparation of agricultural and household pest control chemicals (except fertilizers).

The data published with NAICS code 325320 include the following SIC industry:

2879 Agricultural chemicals, n.e.c.

3254 Pharmaceutical and Medicine Manufacturing

This NAICS industry group includes establishments classified in Industry 32541, Pharmaceutical and Medicine Manufacturing.

32541 Pharmaceutical and Medicine Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing biological and medicinal products; (2) processing (i.e., grading, grinding, and milling) botanical drugs and herbs; (3) isolating active medicinal principals from botanical drugs and herbs; and (4) manufacturing pharmaceutical

products intended for internal and external consumption in such forms as ampoules, tablets, capsules, vials, ointments, powders, solutions, and suspensions.

325411 Medicinal and Botanical Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing uncompounded medicinal chemicals and their derivatives (i.e., generally for use by pharmaceutical preparation manufacturers) and/or (2) grading, grinding, and milling uncompounded botanicals.

The data published with NAICS code 325411 include the following SIC industry:

2833 Medicinals and botanicals

325412 Pharmaceutical Preparation Manufacturing

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

The data published with NAICS code 325412 include the following SIC industries:

2834 Pharmaceutical preparations

2835 Diagnostic substances (pt)

325413 In-Vitro Diagnostic Substance Manufacturing

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

The data published with NAICS code 325413 include the following SIC industry:

2835 Diagnostic substances (pt)

325414 Biological Product (Except Diagnostic) Manufacturing

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

The data published with NAICS code 325414 include the following SIC industry:

2836 Biological products, except diagnostic

3255 Paint, Coating, and Adhesive Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32551, Paint and Coating Manufacturing; and 32552, Adhesive Manufacturing.

32551 Paint and Coating Manufacturing

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

325510 Paint and Coating Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) mixing pigments, solvents, and binders into paints and other coatings, such as stains, varnishes, lacquers, enamels, shellacs, and water repellent coatings for concrete and masonry, and/or (2) manufacturing allied paint products, such as putties, paint and varnish removers, paint brush cleaners, and frit.

The data published with NAICS code 325510 include the following SIC industries:

2851 Paints and allied products

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

32552 Adhesive Manufacturing

This industry comprises establishments primarily engaged in manufacturing adhesives, glues, and caulking compounds.

325520 Adhesive Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing adhesives, glues, and caulking compounds.

The data published with NAICS code 325520 include the following SIC industry:

2891 Adhesives and sealants

3256 Soap, Cleaning Compound, and Toilet Preparation Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32561, Soap and Cleaning Compound Manufacturing; and 32562, Toilet Preparation Manufacturing.

32561 Soap and Cleaning Compound Manufacturing

This industry comprises establishments primarily engaged in manufacturing and packaging soap and other cleaning compounds, surface active agents, and textile and leather finishing agents used to reduce tension or speed the drying process.

325611 Soap and Other Detergent Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and packaging soaps and other detergents, such as laundry detergents; dishwashing detergents; toothpaste gels and tooth powders; and natural glycerin.

The data published with NAICS code 325611 include the following SIC industries:

2841 Soap and other detergents

2844 Toilet preparations (pt)

325612 Polish and Other Sanitation Good Manufacturing

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

The data published with NAICS code 325612 include the following SIC industry:

2842 Polishes and sanitation goods

325613 Surface Active Agent Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing bulk surface active agents for use as wetting agents, emulsifiers, and penetrants, and/or (2) manufacturing textiles and leather finishing agents used to reduce tension or speed the drying process.

The data published with NAICS code 325613 include the following SIC industry:

2843 Surface active agents

32562 Toilet Preparation Manufacturing

This industry comprises establishments primarily engaged in preparing, blending, compounding, and packaging toilet preparations, such as perfumes, shaving preparations, hair preparations, face creams, lotions (including sunscreens), and other cosmetic preparations.

325620 Toilet Preparation Manufacturing

This U.S. industry comprises establishments primarily engaged in preparing, blending, compounding, and packaging toilet preparations, such as perfumes, shaving preparations, hair preparations, face creams, lotions (including sunscreens), and other cosmetic preparations.

The data published with NAICS code 325620 include the following SIC industry:

2844 Toilet preparations (pt)

3259 Other Chemical Product Manufacturing

This industry group comprises establishments primarily engaged in manufacturing chemical products (except basic chemicals; resins, synthetic rubber, cellulosic and

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

32591 Printing Ink Manufacturing

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

325910 Printing Ink Manufacturing

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

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

2893 Printing ink

32592 Explosives Manufacturing

This industry comprises establishments primarily engaged in manufacturing explosives.

325920 Explosives Manufacturing

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

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

2892 Explosives

32599 All Other Chemical Product and Preparation Manufacturing

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

325991 Custom Compounding of Purchased Resins

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

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

3087 Custom compound purchased resins

325992 Photographic Film, Paper, Plate, and Chemical Manufacturing

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

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

3861 Photographic equipment and supplies (pt)

325998 All Other Miscellaneous Chemical Product and Preparation Manufacturing

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

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

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

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

3952 Lead pencils and art goods (pt)

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

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

326 Plastics and Rubber Products Manufacturing

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

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

involves more than one material. In these cases, technologies that allow disparate materials to be formed and combined are of central importance in describing the manufacturing activity. In NAICS, such activities (the footwear and furniture manufacturing) are not classified in the Plastics and Rubber Products Manufacturing subsector because the core technologies for these activities are diverse and involve multiple materials.

Within the Plastics and Rubber Products Manufacturing subsector, a distinction is made between plastics and rubber products at the industry group level, although it is not a rigid distinction, as can be seen from the definition of Industry 32622, Rubber and Plastics Hose and Belting Manufacturing. As materials technology progresses, plastics are increasingly being used as a substitute for rubber; and eventually, the distinction may disappear as a basis for establishment classification.

In keeping with the core technology focus of plastics, lamination of plastics film to plastics film as well as the production of bags from plastics only is classified in this subsector. Lamination and bag production involving plastics and materials other than plastics are classified in the NAICS Subsector 322, Paper Manufacturing.

3261 Plastics Product Manufacturing

This industry group comprises establishments primarily engaged in processing new or spent (i.e., recycled) plastics resins into intermediate or final products, using such processes as compression molding; extrusion molding; injection molding; blow molding; and casting. Within most of these industries, the production process is such that a wide variety of products can be made.

32611 Unsupported Plastics Film, Sheet, and Bag Manufacturing

This industry comprises establishments primarily engaged in (1) converting plastics resins into unsupported plastics film and sheet and/or (2) forming, coating, or laminating plastics film and sheet into plastics bags.

326111 Unsupported Plastics Bag Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) converting plastics resins into plastics bags or (2) forming, coating, or laminating plastics film and sheet into single wall or multiwall plastics bags. Establishments in this industry may print on the bags they manufacture.

The data published with NAICS code 326111 include the following SIC industry:

2673 Bags - plastics, laminated, and coated (pt)

326112 Unsupported Plastics Packaging Film and Sheet Manufacturing

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

The data published with NAICS code 326112 include the following SIC industry:

2671 Paper - coated and laminated, packaging (pt)

326113 Unsupported Plastics Film and Sheet (Except Packaging) Manufacturing

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

The data published with NAICS code 326113 include the following SIC industry:

3081 Unsupported plastics film and sheet

32612 Plastics Pipe, Pipe Fitting, and Unsupported Profile Shape Manufacturing

This industry comprises establishments primarily engaged in manufacturing plastics pipes and pipe fittings, and plastics profile shapes such as rod, tube, and sausage casings.

326121 Unsupported Plastics Profile Shapes Manufacturing

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

The data published with NAICS code 326121 include the following SIC industry:

3082 Unsupported plastics profile shapes

326122 Plastics Pipe and Pipe Fitting Manufacturing

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

The data published with NAICS code 326122 include the following SIC industries:

3084 Plastics pipe

3089 Plastics products, n.e.c. (pt)

32613 Laminated Plastics Plate, Sheet, and Shape Manufacturing

This industry comprises establishments primarily engaged in laminating plastics profile shapes such as plate, sheet (except packaging), and rod. The lamination process generally involves bonding or impregnating profiles with plastics resins and compressing them under heat.

326130 Laminated Plastics Plate, Sheet, and Shape Manufacturing

This U.S. industry comprises establishments primarily engaged in laminating plastics profile shapes such as plate, sheet (except packaging), and rod. The lamination process generally involves bonding or impregnating profiles with plastics resins and compressing them under heat.

The data published with NAICS code 326130 include the following SIC industry:

3083 Laminated plastics plate and sheet

32614 Polystyrene Foam Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing polystyrene foam products.

326140 Polystyrene Foam Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing polystyrene foam products.

The data published with NAICS code 326140 include the following SIC industry:

3086 Plastics foam products (pt)

32615 Urethane and Other Foam Product (Except Polystyrene) Manufacturing

This industry comprises establishments primarily engaged in manufacturing plastics foam products (except polystyrene).

326150 Urethane and Other Foam Product (Except Polystyrene) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing plastics foam products (except polystyrene).

The data published with NAICS code 326150 include the following SIC industry:

3086 Plastics foam products (pt)

32616 Plastics Bottle Manufacturing

This industry comprises establishments primarily engaged in manufacturing plastics bottles.

326160 Plastics Bottle Manufacturing

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

The data published with NAICS code 326160 include the following SIC industry:

3085 Plastics bottles

32619 Other Plastics Product Manufacturing

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

326191 Plastics Plumbing Fixture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing plastics or fiberglass plumbing fixtures. Examples of products made by these establishments are plastics or fiberglass bathtubs, hot tubs, portable toilets, and shower stalls.

The data published with NAICS code 326191 include the following SIC industry:

3088 Plastics plumbing fixtures

326192 Resilient Floor Covering Manufacturing

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

The data published with NAICS code 326192 include the following SIC industries:

3069 Fabricated rubber products, n.e.c. (pt)

3996 Hard surface floor coverings

326199 All Other Plastics Product Manufacturing

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

The data published with NAICS code 326199 include the following SIC industries:

3089 Plastics products, n.e.c. (pt)

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

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 326199 include establishments primarily engaged in the manufacture of plastic furniture parts. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3262 Rubber Product Manufacturing

This industry group comprises establishments primarily engaged in processing natural and synthetic or reclaimed rubber materials into intermediate or final products using processes such as vulcanizing, cementing, molding, extruding, and lathe-cutting.

32621 Tire Manufacturing

This industry comprises establishments primarily engaged in manufacturing tires and inner tubes from natural and synthetic rubber and retreading or rebuilding tires.

326211 Tire Manufacturing (Except Retreading)

This U.S. industry comprises establishments primarily engaged in manufacturing tires and inner tubes from natural and synthetic rubber.

The data published with NAICS code 326211 include the following SIC industry:

3011 Tires and inner tubes

326212 Tire Retreading

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

The data published with NAICS code 326212 include the following SIC industry:

7534 Tire retreading and repair shops (pt)

32622 Rubber and Plastics Hoses and Belting Manufacturing

This industry comprises establishments primarily engaged in manufacturing rubber hose and/or plastics (reinforced) hose and belting from natural and synthetic rubber and/or plastics resins. Establishments manufacturing garden hoses from purchased hose are included in this industry.

326220 Rubber and Plastics Hoses and Belting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing rubber hose and/or plastics (reinforced) hose and belting from natural and synthetic rubber and/or plastics resins. Establishments manufacturing garden hoses from purchased hose are included in this industry.

The data published with NAICS code 326220 include the following SIC industry:

3052 Rubber and plastics hose and belting

32629 Other Rubber Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing rubber products (except tires, hoses, and belting) from natural and synthetic rubber.

326291 Rubber Product Manufacturing for Mechanical Use

This U.S. industry comprises establishments primarily engaged in molding, extruding, or lathe-cutting rubber to manufacture rubber goods (except tubing) for mechanical applications. Products of this industry are generally parts for motor vehicles, machinery, and equipment.

The data published with NAICS code 326291 include the following SIC industry:

3061 Mechanical rubber goods

326299 All Other Rubber Product Manufacturing

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

The data published with NAICS code 326299 include the following SIC industry:

3069 Fabricated rubber products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 326299 include establishments primarily engaged in the manufacture of rubber products including gloves, toys, pants, raincoats, bibs, aprons, bathing caps, life jackets, and wet suits. The NAICS definitions will be fully implemented with the 2002 Economic Census.

327 Nonmetallic Mineral Product Manufacturing

The Nonmetallic Mineral Product Manufacturing subsector transforms mined or quarried nonmetallic minerals, such as sand, gravel, stone, clay, and refractory materials, into products for intermediate or final consumption. Processes used include grinding, mixing, cutting, shaping, and honing. Heat often is used in the process and chemicals are frequently mixed to change the composition, purity, and chemical properties for the intended product. For example, glass is produced by heating silica sand to the melting point (sometimes combined with cullet or recycled glass) and then drawn, floated, or blow molded to the desired shape or thickness. Refractory materials are heated and then formed into bricks or other shapes for use in industrial applications.

The Nonmetallic Mineral Product Manufacturing subsector includes establishments that manufacture products, such as bricks, refractories, ceramic products, and glass and glass products, such as plate glass and containers. Also included are cement and concrete products, lime, gypsum and other nonmetallic mineral products including abrasive products, ceramic plumbing fixtures, statuary, cut stone products, and mineral wool. The products are used in a wide range of activities from construction and heavy and light manufacturing to articles for personal use.

Mining, beneficiating, and manufacturing activities often occur in a single location. Separate receipts will be collected for these activities whenever possible. When receipts cannot be broken out between mining and manufacturing, establishments that mine or quarry nonmetallic minerals, beneficiate the nonmetallic minerals and further

process the nonmetallic minerals into a more finished manufactured product are classified based on the primary activity of the establishment. A mine that manufactures a small amount of finished products will be classified in Sector 21, Mining. An establishment that mines whose primary output is a more-finished manufactured product will be classified in the Manufacturing Sector.

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

3271 Clay Product and Refractory Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32711, Pottery, Ceramics, and Plumbing Fixture Manufacturing; and 32712, Clay Building Material and Refractories Manufacturing.

32711 Pottery, Ceramics, and Plumbing Fixture Manufacturing

This industry comprises establishments primarily engaged in shaping, molding, glazing, and firing pottery, ceramics, and plumbing fixtures made entirely or partly of clay or other ceramic materials.

327111 Vitreous China Plumbing Fixture and China and Earthenware Bathroom Accessories Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing vitreous china plumbing fixtures and china and earthenware bathroom accessories, such as faucet handles, towel bars, and soap dishes.

The data published with NAICS code 327111 include the following SIC industry:

3261 Vitreous plumbing fixtures

327112 Vitreous China, Fine Earthenware, and Other Pottery Product Manufacturing

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

The data published with NAICS code 327112 include the following SIC industries:

3262 Vitreous china table and kitchen articles

3263 Fine earthenware table and kitchen articles

3269 Pottery products, n.e.c.

3299 Nonmetallic mineral products, n.e.c. (pt)

327113 Porcelain Electrical Supply Manufacturing

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

The data published with NAICS code 327113 include the following SIC industry:

3264 Porcelain electrical supplies

32712 Clay Building Material and Refractories Manufacturing

This industry comprises establishments primarily engaged in shaping, molding, baking, burning, or hardening clay refractories, nonclay refractories, ceramic tile, structural clay tile, brick, and other structural clay building materials.

327121 Brick and Structural Clay Tile Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing brick and structural clay tiles.

The data published with NAICS code 327121 include the following SIC industry:

3251 Brick and structural clay tile

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 327121 include establishments primarily engaged in the manufacture of slumped brick. The NAICS definitions will be fully implemented with the 2002 Economic Census.

327122 Ceramic Wall and Floor Tile Manufacturing

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

The data published with NAICS code 327122 include the following SIC industry:

3253 Ceramic wall and floor tile

327123 Other Structural Clay Product Manufacturing

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

The data published with NAICS code 327123 include the following SIC industry:

3259 Structural clay products, n.e.c.

327124 Clay Refractory Manufacturing

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

The data published with NAICS code 327124 include the following SIC industry:

3255 Clay refractories

327125 Nonclay Refractory Manufacturing

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

The data published with NAICS code 327125 include the following SIC industry:

3297 Nonclay refractories

3272 Glass and Glass Product Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 32721, Glass and Glass Product Manufacturing.

32721 Glass and Glass Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing glass and/or glass products. Establishments in this industry may manufacture glass and/or glass products by melting silica sand or cullet, or purchasing glass.

327211 Flat Glass Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing flat glass by melting silica sand or cullet or (2) manufacturing both flat glass and laminated glass by melting silica sand or cullet.

The data published with NAICS code 327211 include the following SIC industry:

3211 Flat glass

327212 Other Pressed and Blown Glass and Glassware Manufacturing

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

The data published with NAICS code 327212 include the following SIC industry:

3229 Pressed and blown glass, n.e.c.

327213 Glass Container Manufacturing

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

The data published with NAICS code 327213 include the following SIC industry:

3221 Glass containers

327215 Glass Product Manufacturing Made of Purchased Glass

This U.S. industry comprises establishments primarily engaged in remelting, pressing, blowing, or shaping purchased glass.

The data published with NAICS code 327215 include the following SIC industry:

3231 Products of purchased glass

3273 Cement and Concrete Product Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32731, Cement Manufacturing; 32732, Ready-Mix Concrete Manufacturing; 32733, Concrete Pipe, Brick, and Block Manufacturing; and 32739, Other Concrete Product Manufacturing.

32731 Cement Manufacturing

This industry comprises establishments primarily engaged in manufacturing portland, natural, masonry, pozzalanic, and other hydraulic cements. Cement manufacturing establishments may calcine earths or mine, quarry, manufacture, or purchase lime.

327310 Cement Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing portland, natural, masonry, pozzalanic, and other hydraulic cements. Cement manufacturing establishments may calcine earths or mine, quarry, manufacture, or purchase lime.

The data published with NAICS code 327310 include the following SIC industry:

3241 Cement, hydraulic

32732 Ready-Mix Concrete Manufacturing

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

327320 Ready-Mix Concrete Manufacturing

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

The data published with NAICS code 327320 include the following SIC industry:

3273 Ready-mixed concrete

32733 Concrete Pipe, Brick, and Block Manufacturing

This industry comprises establishments primarily engaged in manufacturing concrete pipe, brick, and block

327331 Concrete Block and Brick Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing concrete block and brick.

The data published with NAICS code 327331 include the following SIC industry:

3271 Concrete brick and block

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 327331 do not include establishments primarily engaged in the manufacture of slumped brick. The NAICS definitions will be fully implemented with the 2002 Economic Census.

327332 Concrete Pipe Manufacturing

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

The data published with NAICS code 327332 include the following SIC industry:

3272 Concrete products, n.e.c. (pt)

32739 Other Concrete Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing concrete products (except block, brick, and pipe).

327390 Other Concrete Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing concrete products (except block, brick, and pipe).

The data published with NAICS code 327390 include the following SIC industry:

3272 Concrete products, n.e.c. (pt)

3274 Lime and Gypsum Product Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 32741, Lime Manufacturing; and 32742, Gypsum Product Manufacturing.

32741 Lime Manufacturing

This industry comprises establishments primarily engaged in manufacturing lime from calcitic limestone, dolomitic limestone, or other calcareous materials, such as coral, chalk, and shells. Lime manufacturing establishments may mine, quarry, collect, or purchase the sources of calcium carbonate.

327410 Lime Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing lime from calcitic limestone, dolomitic limestone, or other calcareous materials, such as coral, chalk, and shells. Lime manufacturing establishments may mine, quarry, collect, or purchase the sources of calcium carbonate.

The data published with NAICS code 327410 include the following SIC industry:

3274 Lime

32742 Gypsum Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing gypsum products such as wall-board, plaster, plasterboard, molding, ornamental moldings, statuary, and architectural plaster work. Gypsum product manufacturing establishments may mine, quarry, or purchase gypsum.

327420 Gypsum Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing gypsum products, such as wall-board, plaster, plasterboard, molding, ornamental moldings, statuary, and architectural plaster work. Gypsum product manufacturing establishments may mine, quarry, or purchase gypsum.

The data published with NAICS code 327420 include the following SIC industries:

3275 Gypsum products

3299 Nonmetallic mineral products, n.e.c. (pt)

3279 Other Nonmetallic Mineral Product Manufacturing

The Other Nonmetallic Mineral Product Manufacturing industry group comprises establishments manufacturing nonmetallic mineral products (except clay products, refractory products, glass products, cement and concrete products, lime, and gypsum products).

32791 Abrasive Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, abrasive-coated products, and other abrasive products

327910 Abrasive Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, abrasive-coated products, and other abrasive products.

The data published with NAICS code 327910 include the following SIC industry:

3291 Abrasive products (pt)

32799 All Other Nonmetallic Mineral Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing nonmetallic mineral products (except pottery, ceramics, and plumbing fixtures; clay building materials and refractories; glass and glass products; cement; ready-mix concrete; concrete products; lime; gypsum products; and abrasive products).

327991 Cut Stone and Stone Product Manufacturing

This U.S. industry comprises establishments primarily engaged in cutting, shaping, and finishing granite, marble, limestone, slate, and other stone for building and miscellaneous uses. Stone product manufacturing establishments may mine, quarry, or purchase stone.

The data published with NAICS code 327991 include the following SIC industry:

3281 Cut stone and stone products

327992 Ground or Treated Mineral and Earth Manufacturing

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

The data published with NAICS code 327992 include the following SIC industry:

3295 Minerals, ground or treated

327993 Mineral Wool Manufacturing

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

The data published with NAICS code 327993 include the following SIC industry:

3296 Mineral wool

327999 All Other Miscellaneous Nonmetallic Mineral Product Manufacturing

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

The data published with NAICS code 327999 include the following SIC industries:

3272 Concrete products, n.e.c. (pt)

3292 Asbestos products (pt)

3299 Nonmetallic mineral products, n.e.c. (pt)

331 Primary Metal Manufacturing

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

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

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

3311 Iron and Steel Mills and Ferroalloy Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33111, Iron and Steel Mills and Ferroalloy Manufacturing.

33111 Iron and Steel Mills and Ferroalloy Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) direct reduction of iron ore; (2) manufacturing pig iron in molten or solid form; (3) converting pig iron into steel; (4) manufacturing ferroalloys; (5) making steel; (6) making steel and manufacturing shapes (e.g., bar, plate, rod, sheet, strip, wire); and (7) making steel and forming pipe and tube.

331111 Iron and Steel Mills

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) direct reduction of iron ore; (2) manufacturing pig iron in molten or solid form; (3) converting pig iron into steel; (4) making steel; (5) making steel and manufacturing shapes (e.g., bar, plate, rod, sheet, strip, wire); and (6) making steel and forming tube and pipe.

The data published with NAICS code 331111 include the following SIC industries:

3312 Blast furnaces and steel mills (pt)

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

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 331111 include establishments primarily engaged in the manufacture of ferrous metal powder, paste, and flake. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3311111 Iron and Steel Mills – Fully Integrated

Establishments primarily engaged in smelting iron ore in a blast furnace to produce pig iron in molten or solid form; then converting pig iron into steel by removal of the carbon in the iron through combustion in a basic oxygen or electric furnace; then producing iron and steel basic shapes, such as plates, sheets, strips, and bars, and other related products, such as pipes, tubes, and wire.

3311112 Iron and Steel Mills – Partially Integrated With a Blast Furnace

Establishments primarily engaged in smelting iron ore in a blast furnace to produce pig iron in molten or solid form; then converting pig iron into steel by removal of the carbon in the iron through combustion in a basic oxygen or electric furnace; then producing ingots and/or semifinished shapes, such as blooms, billets, and rods.

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

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

3311114 Iron and Steel Mills – Nonintegrated

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

331112 Electrometallurgical Ferroalloy Product Manufacturing

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

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

3313 Electrometallurgical products (pt)

3312 Steel Product Manufacturing From Purchased Steel

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

33121 Iron and Steel Pipes and Tubes Manufacturing From Purchased Steel

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

331210 Iron and Steel Pipes and Tubes Manufacturing From Purchased Steel

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

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

3317 Steel pipe and tubes

33122 Rolling and Drawing of Purchased Steel

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

331221 Rolled Steel Shape Manufacturing

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

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

3316 Cold finishing of steel shapes

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

331222 Steel Wire Drawing

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

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

3315 Steel wire and related products (pt)

3313 Alumina and Aluminum Production and Processing

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

33131 Alumina and Aluminum Production and Processing

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

331311 Alumina Refining

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

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

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

331312 Primary Aluminum Production

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

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

3334 Primary aluminum

331314 Secondary Smelting and Alloying of Aluminum

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

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

3341 Secondary nonferrous metals (pt)

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

331315 Aluminum Sheet, Plate, and Foil Manufacturing

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

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

3353 Aluminum sheet, plate, and foil (pt)

331316 Aluminum Extruded Product Manufacturing

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

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

3354 Aluminum extruded products

331319 Other Aluminum Rolling and Drawing

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

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

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

3357 Nonferrous wire drawing and insulating (pt)

3314 Nonferrous Metal (Except Aluminum) Production and Processing

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

33141 Nonferrous Metal (Except Aluminum) Smelting and Refining

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

331411 Primary Smelting and Refining of Copper

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

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

3331 Primary copper

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

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

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

3339 Primary nonferrous metals, n.e.c.

33142 Copper Rolling, Drawing, Extruding, and Alloying

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

331421 Copper Rolling, Drawing, and Extruding

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

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

3351 Copper rolling and drawing

331422 Copper Wire (Except Mechanical) Drawing

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

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

3357 Nonferrous wire drawing and insulating (pt)

331423 Secondary Smelting, Refining, and Alloying of Copper

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

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

3341 Secondary nonferrous metals (pt)

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

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

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

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

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

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

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

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

3357 Nonferrous wire drawing and insulating (pt)

331492 Secondary Smelting, Refining, and Alloying of Nonferrous Metal (Except Copper and Aluminum)

This U.S. industry comprises establishments primarily engaged in (1) alloying purchased nonferrous metals and/or (2) recovering nonferrous metals from scrap. Establishments in this industry make primary forms (e.g., bar, billet, bloom, cake, ingot, slab, slug, wire) using smelting or refining processes.

The data published with NAICS code 331492 include the following SIC industries:

3313 Electrometallurgical products (pt)

3341 Secondary nonferrous metals (pt)

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

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 331492 include establishments primarily engaged in the manufacture of other nonferrous additive alloys. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3315 Foundries

This industry group comprises establishments primarily engaged in pouring molten metal into molds or dies to form castings. Establishments making castings and further manufacturing, such as machining or assembling, a specific manufactured product are classified in the industry of the finished product. Foundries may perform operations, such as cleaning and deburring, on the castings they manufacture. More involved processes, such as tapping,

threading, milling, or machining to tight tolerances, that transform castings into more finished products are classified elsewhere in the manufacturing sector based on the product being made.

Establishments in this industry group make castings from purchased metals or in integrated secondary smelting and casting facilities. When the production of primary metals is combined with making castings, the establishment is classified in 331 with the primary metal being made.

33151 Ferrous Metal Foundries

This industry comprises establishments primarily engaged in pouring molten iron and steel into molds of a desired shape to make castings. Establishments in this industry purchase iron and steel made in other establishments.

331511 Iron Foundries

This U.S. industry comprises establishments primarily engaged in pouring molten pig iron or iron alloys into molds to manufacture castings, (e.g., cast iron man-hole covers, cast iron pipe, cast iron skillets). Establishments in this industry purchase iron made in other establishments.

The data published with NAICS code 331511 include the following SIC industries:

3321 Gray iron foundries

3322 Malleable iron foundries

331512 Steel Investment Foundries

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

The data published with NAICS code 331512 include the following SIC industry:

3324 Steel investment foundries

331513 Steel Foundries (Except Investment)

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

The data published with NAICS code 331513 include the following SIC industry:

3325 Steel foundries, n.e.c.

33152 Nonferrous Metal Foundries

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

331521 Aluminum Die-Casting Foundries

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

The data published with NAICS code 331521 include the following SIC industry:

3363 Aluminum die-castings

331522 Nonferrous (Except Aluminum) Die-Casting Foundries

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

The data published with NAICS code 331522 include the following SIC industry:

3364 Nonferrous die-casting, except aluminum

331524 Aluminum Foundries (Except Die-Casting)

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

The data published with NAICS code 331524 include the following SIC industry:

3365 Aluminum foundries

331525 Copper Foundries (Except Die-Casting)

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

The data published with NAICS code 331525 include the following SIC industry:

3366 Copper foundries

331528 Other Nonferrous Foundries (Except Die-Casting)

This U.S. industry comprises establishments primarily engaged in pouring molten nonferrous metals (except aluminum and copper) into molds to manufacture nonferrous castings (except aluminum die-castings, nonferrous

(except aluminum) die-castings, aluminum castings, and copper castings). Establishments in this industry purchase nonferrous metals, such as nickel, lead, and zinc, made in other establishments.

The data published with NAICS code 331528 include the following SIC industry:

3369 Nonferrous foundries, n.e.c.

332 Fabricated Metal Product Manufacturing

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

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

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

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

3321 Forging and Stamping

This NAICS industry group includes establishments classified in NAICS Industry 33211, Forging and Stamping.

33211 Forging and Stamping

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing forgings from purchased metals; (2) manufacturing metal custom roll forming products; (3) manufacturing metal stamped and spun products (except automotive, cans, coins); and (4) manufacturing powder metallurgy products. Establishments making metal forgings, metal stampings, and metal spun products and further manufacturing (e.g., machining, assembling) a specific manufactured product are classified in the industry of the finished

product. Metal forging, metal stamping, and metal spun products establishments may perform surface finishing operations, such as cleaning and deburring, on the products they manufacture.

332111 Iron and Steel Forging

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

The data published with NAICS code 332111 include the following SIC industry:

3462 Iron and steel forgings

332112 Nonferrous Forging

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

The data published with NAICS code 332112 include the following SIC industry:

3463 Nonferrous forgings

332114 Custom Roll Forming

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

The data published with NAICS code 332114 include the following SIC industry:

3449 Miscellaneous metal work (pt)

332115 Crown and Closure Manufacturing

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

The data published with NAICS code 332115 include the following SIC industry:

3466 Crowns and closures

332116 Metal Stamping

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

The data published with NAICS code 332116 include the following SIC industry:

3469 Metal stampings, n.e.c. (pt)

332117 Powder Metallurgy Parts Manufacturing

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

The data published with NAICS code 332117 include the following SIC industry:

3499 Fabricated metal products, n.e.c. (pt)

3322 Cutlery and Handtool Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33221, Cutlery and Handtool Manufacturing.

33221 Cutlery and Handtool Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing nonprecious and precious plated metal cutlery and flatware; (2) manufacturing nonpowered hand and edge tools; (3) manufacturing nonpowered handsaws; (4) manufacturing saw blades, all types (including those for sawing machines); and (5) manufacturing metal kitchen utensils (except cutting-type) and pots and pans (except those manufactured by casting (e.g., cast iron skillets) or stamped without further fabrication).

332211 Cutlery and Flatware (Except Precious) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonprecious and precious plated metal cutlery and flatware.

The data published with NAICS code 332211 include the following SIC industries:

3421 Cutlery

3914 Silverware and plated ware (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census–Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332211 do not include establishments primarily engaged in the manufacture of hand-operated clippers for human hair. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332212 Hand and Edge Tool Manufacturing

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

The data published with NAICS code 332212 include the following SIC industries:

- 3423 Hand and edge tools, n.e.c.
- 3523 Farm machinery and equipment (pt)
- 3524 Lawn and garden equipment (pt)
- 3545 Machine tool accessories (pt)
- 3699 Electrical equipment and supplies, n.e.c. (pt)
- 3799 Transportation equipment, n.e.c. (pt)
- 3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332212 include establishments primarily engaged in the manufacture of wheelbarrows or quality control laser equipment but do not include establishments primarily engaged in the manufacture of tool-type shears or fish wire, an electrical wiring tool. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332213 Saw Blade and Handsaw Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing nonpowered handsaws and/or (2) manufacturing saw blades, all types (including those for power sawing machines).

The data published with NAICS code 332213 include the following SIC industry:

- 3425 Saw blades and handsaws

332214 Kitchen Utensil, Pot, and Pan Manufacturing

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

The data published with NAICS code 332214 include the following SIC industry:

- 3469 Metal stampings, n.e.c. (pt)

3323 Architectural and Structural Metals Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33231, Plate Work and Fabricated Structural Product Manufacturing; and 33232, Ornamental and Architectural Metal Products Manufacturing.

33231 Plate Work and Fabricated Structural Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following: (1) prefabricated metal buildings, panels, and sections; (2) structural metal products; and (3) metal plate work products.

332311 Prefabricated Metal Building and Component Manufacturing

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

The data published with NAICS code 332311 include the following SIC industry:

- 3448 Prefabricated metal buildings

332312 Fabricated Structural Metal Manufacturing

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

The data published with NAICS code 332312 include the following SIC industries:

- 3441 Fabricated structural metal
- 3449 Miscellaneous metal work (pt)

332313 Plate Work Manufacturing

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

The data published with NAICS code 332313 include the following SIC industry:

- 3443 Fabricated plate work, boiler shops (pt)

33232 Ornamental and Architectural Metal Products Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following: (1) metal framed windows (i.e., typically using purchased glass) and metal doors; (2) sheet metal work; and (3) ornamental and architectural metal products.

332321 Metal Window and Door Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal framed windows (i.e., typically using purchased glass) and metal doors. Examples of products made by these establishments are metal door frames; metal framed window and door screens; metal molding and trim (except automotive); and metal curtain walls.

The data published with NAICS code 332321 include the following SIC industries:

- 2499 Wood products, n.e.c. (pt)
- 3442 Metal doors, sash, and trim
- 3449 Miscellaneous metal work (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332321 include establishments primarily engaged in the manufacture of metal finished moldings for mirrors and pictures. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332322 Sheet Metal Work Manufacturing

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

The data published with NAICS code 332322 include the following SIC industry:

- 3444 Sheet metal work (pt)

332323 Ornamental and Architectural Metal Work Manufacturing

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

The data published with NAICS code 332323 include the following SIC industries:

- 3446 Architectural metal work
- 3449 Miscellaneous metal work (pt)
- 3523 Farm machinery and equipment (pt)

3324 Boiler, Tank, and Shipping Container Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33241, Power Boiler and Heat Exchanger Manufacturing; 33242, Metal Tank (Heavy Gauge) Manufacturing; and 33243, Metal Can, Box, and Other Metal Container (Light Gauge) Manufacturing.

33241 Power Boiler and Heat Exchanger Manufacturing

This industry comprises establishments primarily engaged in manufacturing power boilers and heat exchangers. Establishments in this industry may perform installation in addition to manufacturing power boilers and heat exchangers.

332410 Power Boiler and Heat Exchanger Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing power boilers and heat exchangers. Establishments in this industry may perform installation in addition to manufacturing power boilers and heat exchangers.

The data published with NAICS code 332410 include the following SIC industry:

- 3443 Fabricated plate work, boiler shops (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332410 do not include establishments primarily engaged in the manufacture of nuclear control drive mechanisms. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33242 Metal Tank (Heavy Gauge) Manufacturing

This industry comprises establishments primarily engaged in cutting, forming, and joining heavy gauge metal to manufacture tanks, vessels, and other containers.

332420 Metal Tank (Heavy Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in cutting, forming, and joining heavy gauge metal to manufacture tanks, vessels, and other containers.

The data published with NAICS code 332420 include the following SIC industry:

- 3443 Fabricated plate work, boiler shops (pt)

33243 Metal Can, Box, and Other Metal Container (Light Gauge) Manufacturing

This industry comprises establishments primarily engaged in forming light gauge metal containers.

332431 Metal Can Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal cans, lids, and ends.

The data published with NAICS code 332431 include the following SIC industry:

- 3411 Metal cans

332439 Other Metal Container Manufacturing

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

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

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

3325 Hardware Manufacturing

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

33251 Hardware Manufacturing

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

332510 Hardware Manufacturing

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

The data published with NAICS code 332510 include the following SIC industries:

- 3429 Hardware, n.e.c. (pt)
- 3499 Fabricated metal products, n.e.c. (pt)

3326 Spring and Wire Product Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33261, Spring and Wire Product Manufacturing.

33261 Spring and Wire Product Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing steel springs by forming, such as cutting, bending, and heat winding metal rod or strip stock and/or (2) manufacturing wire springs and fabricated wire products from wire drawn elsewhere (except watch and clock springs).

332611 Spring (Heavy Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing heavy gauge springs by forming, such as cutting, bending, and heat winding rod or strip stock.

The data published with NAICS code 332611 include the following SIC industry:

- 3493 Steel springs, except wire

332612 Spring (Light Gauge) Manufacturing

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

The data published with NAICS code 332612 include the following SIC industry:

- 3495 Wire springs (pt)

332618 Other Fabricated Wire Product Manufacturing

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

The data published with NAICS code 332618 include the following SIC industries:

- 3315 Steel wire and related products (pt)
- 3399 Primary metal products, n.e.c. (pt)
- 3496 Miscellaneous fabricated wire products

3327 Machine Shops; Turned Product; and Screw, Nut, and Bolt Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33271, Machine Shops; and 33272, Turned Product and Screw, Nut, and Bolt Manufacturing.

33271 Machine Shops

This industry comprises establishments known as machine shops primarily engaged in machining metal parts on a job or order basis. Generally machine shop jobs are low volume using machine tools, such as lathes (including computer numerically controlled); automatic screw machines; and machines for boring, grinding, and milling.

332710 Machine Shops

This U.S. industry comprises establishments known as machine shops primarily engaged in machining metal parts on a job or order basis. Generally machine shop jobs are low volume using machine tools, such as lathes (including computer numerically controlled); automatic screw machines; and machines for boring, grinding, and milling.

The data published with NAICS code 332710 include the following SIC industry:

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

33272 Turned Product and Screw, Nut, and Bolt Manufacturing

This industry comprises establishments primarily engaged in (1) machining precision turned products or (2) manufacturing metal bolts, nuts, screws, rivets, and other industrial fasteners. Included in this industry are establishments primarily engaged manufacturing parts for machinery and equipment on a customized basis.

332721 Precision Turned Product Manufacturing

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

The data published with NAICS code 332721 include the following SIC industry:

3451 Screw machine products

332722 Bolt, Nut, Screw, Rivet, and Washer Manufacturing

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

The data published with NAICS code 332722 include the following SIC industry:

3452 Bolts, nuts, rivets, and washers

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332722 do not include establishments primarily engaged in the manufacture of turnbuckles and hose clamps. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3328 Coating, Engraving, Heat Treating, and Allied Activities

This NAICS industry group includes establishments classified in NAICS Industry 33281, Coating, Engraving, Heat Treating, and Allied Activities.

33281 Coating, Engraving, Heat Treating, and Allied Activities

This industry comprises establishments primarily engaged in one or more of the following: (1) heat treating metals and metal products; (2) enameling, lacquering, varnishing metals and metal products; (3) hot dip galvanizing metals and metal products; (4) engraving, chasing, or

etching metals and metal products (except jewelry; personal goods carried on or about the person, such as compacts and cigarette cases; precious metal products (except precious plated flatware and other plated ware); and printing plates); (5) powder coating metals and metal products; (6) electroplating, plating, anodizing, coloring, and finishing metals and metal products; and (7) providing other metal surfacing services for the trade. Establishments in this industry coat engravings and heat treat metals and metal formed products fabricated elsewhere.

332811 Metal Heat Treating

This U.S. industry comprises establishments primarily engaged in heat treating, such as annealing, tempering, and brazing, metals and metal products for the trade.

The data published with NAICS code 332811 include the following SIC industry:

3398 Metal heat treating

332812 Metal Coating, Engraving (Except Jewelry and Silverware), and Allied Services to Manufacturers

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) enameling, lacquering, and varnishing metals and metal products; (2) hot dip galvanizing metals and metal products; (3) engraving, chasing, or etching metals and metal products (except jewelry; personal goods carried on or about the person, such as compacts and cigarette cases; precious metal products (except precious plated flatware and other plated ware); and printing plates); (4) powder coating metals and metal products; and (5) providing other metal surfacing services for the trade.

The data published with NAICS code 332812 include the following SIC industry:

3479 Metal coating and allied services (pt)

332813 Electroplating, Plating, Polishing, Anodizing, and Coloring

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

The data published with NAICS code 332813 include the following SIC industry:

3471 Plating and polishing

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332813 do not include establishments primarily engaged in laminating steel. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3329 Other Fabricated Metal Product Manufacturing

This industry group comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metals, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, and nuts and bolts).

33291 Metal Valve Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following metal valves: (1) industrial valves; (2) fluid power valves and hose fittings; (3) plumbing fixture fittings and trim; and (4) other metal valves and pipe fittings.

332911 Industrial Valve Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial valves and valves for water works and municipal water systems.

The data published with NAICS code 332911 include the following SIC industries:

3491 Industrial valves

332912 Fluid Power Valve and Hose Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power valves and hose fittings.

The data published with NAICS code 332912 include the following SIC industries:

3492 Fluid power valves and hose fittings

3728 Aircraft parts and equipment, n.e.c. (pt)

332913 Plumbing Fixture Fitting and Trim Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal and plastics plumbing fixture fittings and trim, such as faucets, flush valves, and shower heads.

The data published with NAICS code 332913 include the following SIC industry:

3432 Plumbing fittings and brass goods (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332913 include establishments primarily engaged in the manufacture of lawn hose nozzels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332919 Other Metal Valve and Pipe Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal valves (except industrial valves, fluid power valves, fluid power hose fittings, and plumbing fixture fittings and trim).

The data published with NAICS code 332919 include the following SIC industries:

3429 Hardware, n.e.c. (pt)

3494 Valves and pipe fittings, n.e.c. (pt)

3499 Fabricated metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332919 do not include establishments primarily engaged in manufacturing lawn hose nozzels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33299 All Other Fabricated Metal Product Manufacturing

This industry comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metal products, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, nuts and bolts, and metal valves).

332991 Ball and Roller Bearing Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ball and roller bearings of all materials.

The data published with NAICS code 332991 include the following SIC industry:

3562 Ball and roller bearings

332992 Small Arms Ammunition Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small arms ammunition.

The data published with NAICS code 332992 include the following SIC industry:

3482 Small arms ammunition

332993 Ammunition (Except Small Arms) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ammunition (except small arms). Examples of products made by these establishments are bombs, depth charges, rockets (except guided missiles), grenades, mines, and torpedoes.

The data published with NAICS code 332993 include the following SIC industry:

3483 Ammunition, except small arms, n.e.c.

332994 Small Arms Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small firearms that are carried and fired by the individual.

The data published with NAICS code 332994 include the following SIC industry:

3484 Small arms

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332994 do not include establishments primarily engaged in the manufacture of tranquilizer guns. The NAICS definitions will be fully implemented with the 2002 Economic Census.

332995 Other Ordnance and Accessories Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ordnance (except small arms) and accessories.

The data published with NAICS code 332995 include the following SIC industry:

3489 Ordnance and accessories, n.e.c.

332996 Fabricated Pipe and Pipe Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in fabricating (such as cutting, threading and bending) metal pipes and pipe fittings made from purchased metal pipe.

The data published with NAICS code 332996 include the following SIC industries:

3353 Aluminum sheet, plate, and foil (pt)

3498 Fabricated pipe and fittings

332997 Industrial Pattern Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial patterns.

The data published with NAICS code 332997 include the following SIC industry:

3543 Industrial patterns

332998 Enameled Iron and Metal Sanitary Ware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing enameled iron and metal sanitary ware.

The data published with NAICS code 332998 include the following SIC industry:

3431 Metal sanitary ware

332999 All Other Miscellaneous Fabricated Metal Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metals, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, nuts, and bolts, metal valves, ball and roller bearings, ammunition, small arms and other ordnances, fabricated pipes and pipe fittings, industrial patterns, and enameled iron and metal sanitary ware).

The data published with NAICS code 332999 include the following SIC industries:

3291 Abrasive products (pt)

3432 Plumbing fixture fittings and trim

3494 Valves and pipe fittings, n.e.c. (pt)

3497 Metal foil and leaf (pt)

3499 Fabricated metal products, n.e.c. (pt)

3537 Industrial trucks and tractors (pt)

3599 Industrial machinery, n.e.c. (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332999 do not include establishments primarily engaged in manufacturing fire-place fixtures, traps, handcuffs and leg irons, ladder jacks, or other like metal products, or primarily engaged in manufacturing precious metal hollowware. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333 Machinery Manufacturing

Industries in the Machinery Manufacturing subsector create end products that apply mechanical force, for example, the application of gears and levers, to perform work. Some important processes for the manufacture of machinery are forging, stamping, bending, forming, and machining that are used to shape individual pieces of metal. Processes, such as welding and assembling are used to join separate parts together. Although these processes are similar to those used in metal fabricating establishments, machinery manufacturing is different because it

typically employs multiple metal forming processes in manufacturing the various parts of the machine. Moreover, complex assembly operations are an inherent part of the production process.

In general, design considerations are very important in machinery production. Establishments specialize in making machinery designed for particular applications. Thus, design is considered to be part of the production process for the purpose of implementing NAICS. The NAICS structure reflects this by defining industries and industry groups that make machinery for different applications. A broad distinction exists between machinery that is generally used in a variety of industrial applications (i.e., general-purpose machinery) and machinery that is designed to be used in a particular industry (i.e., special-purpose machinery). Three industry groups consist of special-purpose machinery—Agricultural, Construction, and Mining Machinery Manufacturing; Industrial Machinery Manufacturing; and Commercial and Service Industry Machinery Manufacturing. The other industry groups make general-purpose machinery: Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing; Metalworking Machinery Manufacturing; Engine, Turbine, and Power Transmission Equipment Manufacturing; and Other General-Purpose Machinery Manufacturing.

3331 Agriculture, Construction, and Mining Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33311, Agricultural Implement Manufacturing; 33312, Construction Machinery Manufacturing; and 33313, Mining and Oil and Gas Field Machinery Manufacturing.

33311 Agricultural Implement Manufacturing

This industry comprises establishments primarily engaged in manufacturing farm machinery and equipment, powered mowing equipment, and other powered home lawn and garden equipment.

333111 Farm Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing agricultural and farm machinery and equipment, and other turf and grounds care equipment, including planting, harvesting, and grass mowing equipment (except lawn and garden-type).

The data published with NAICS code 333111 include the following SIC industry:

3523 Farm machinery and equipment (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to

NAICS. Data for NAICS industry 333111 do not include establishments primarily engaged in manufacturing cotton ginning machinery. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333112 Lawn and Garden Tractor and Home Lawn and Garden Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing powered lawnmowers, lawn and garden tractors, and other home lawn and garden equipment, such as tillers, shredders, and yard vacuums and blowers.

The data published with NAICS code 333112 include the following SIC industry:

3524 Lawn and garden equipment (pt)

33312 Construction Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing construction machinery, surface mining machinery, and logging equipment.

333120 Construction Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing construction machinery, surface mining machinery, and logging equipment.

The data published with NAICS code 333120 include the following SIC industry:

3531 Construction machinery (pt)

33313 Mining and Oil and Gas Field Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing oil and gas field and underground mining machinery and equipment.

333131 Mining Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing underground mining machinery and equipment, such as coal breakers, mining cars, core drills, coal cutters, rock drills and (2) manufacturing mineral beneficiating machinery and equipment used in surface or underground mines.

The data published with NAICS code 333131 include the following SIC industry:

3532 Mining machinery

333132 Oil and Gas Field Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing oil and gas field machinery and equipment, such as oil and gas field drilling machinery and equipment; oil and gas field production machinery and equipment; and oil and gas field derricks and (2) manufacturing water well drilling machinery.

The data published with NAICS code 333132 include the following SIC industry:

3533 Oil field machinery

3332 Industrial Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33321, Sawmill and Woodworking Machinery Manufacturing; 33322, Plastics and Rubber Industry Machinery Manufacturing; and 33329, Other Industrial Machinery Manufacturing.

33321 Sawmill and Woodworking Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing sawmill and woodworking machinery (except handheld), such as circular and band sawing equipment, planing machinery, and sanding machinery.

333210 Sawmill and Woodworking Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sawmill and woodworking machinery (except handheld), such as circular and band sawing equipment, planing machinery, and sanding machinery.

The data published with NAICS code 333210 include the following SIC industry:

3553 Woodworking machinery

33322 Plastics and Rubber Industry Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing plastics and rubber products making machinery, such as plastics compression, extrusion and injection molding machinery and equipment, and tire building and recapping machinery and equipment.

333220 Plastics and Rubber Industry Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing plastics and rubber products making machinery, such as plastics compression, extrusion and injection molding machinery and equipment, and tire building and recapping machinery and equipment.

The data published with NAICS code 333220 include the following SIC industry:

3559 Special industry machinery, n.e.c. (pt)

33329 Other Industrial Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing industrial machinery (except agricultural and farm-type, construction, mining, sawmill and woodworking, and plastics and rubber products making machinery).

333291 Paper Industry Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing paper industry machinery for making paper and paper products, such as pulp making machinery, paper and paperboard making machinery, and paper and paperboard converting machinery.

The data published with NAICS code 333291 include the following SIC industry:

3554 Paper industries machinery

333292 Textile Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing textile machinery for making thread, yarn, and fiber.

The data published with NAICS code 333292 include the following SIC industries:

3552 Textile machinery

3699 Electrical equipment and supplies, n.e.c. (pt)

333293 Printing Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing printing and bookbinding machinery and equipment, such as printing presses, type-setting machinery, and bindery machinery.

The data published with NAICS code 333293 include the following SIC industries:

3555 Printing trades machinery

3699 Electrical equipment and supplies, n.e.c. (pt)

333294 Food Product Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing food and beverage manufacturing-type machinery and equipment, such as dairy product plant machinery and equipment (e.g., homogenizers, pasteurizers, ice cream freezers), bakery machinery and equipment (e.g., dough mixers, bake ovens, pastry rolling machines), meat and poultry processing and preparation machinery, and other commercial food products machinery (e.g., slicers, choppers, and mixers).

The data published with NAICS code 333294 include the following SIC industry:

3556 Food products machinery

333295 Semiconductor Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wafer processing equipment, semiconductor assembly and packaging equipment, and other semiconductor making machinery.

The data published with NAICS code 333295 include the following SIC industry:

3559 Special industry machinery, n.e.c. (pt)

333298 All Other Industrial Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial machinery (except agricultural and farm-type, construction and mining machinery, sawmill and woodworking machinery, plastics and rubber making machinery, paper and paperboard making machinery, textile machinery, printing machinery and equipment, food manufacturing-type machinery, and semiconductor making machinery).

The data published with NAICS code 333298 include the following SIC industries:

3559 Special industry machinery, n.e.c. (pt)

3639 Household appliances, n.e.c. (pt)

3333 Commercial and Service Industry Machinery Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33331, Commercial and Service Industry Machinery Manufacturing.

33331 Commercial and Service Industry Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing commercial and service machinery, such as automatic vending machinery, commercial laundry and drycleaning machinery, office machinery, photographic and photocopying machinery, optical instruments and machinery, automotive maintenance equipment (except mechanic's handtools), industrial vacuum cleaners, and commercial-type cooking equipment.

333311 Automatic Vending Machine Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing coin, token, currency, or magnetic card operated vending machines and/or (2) manufacturing coin operated mechanism for machines, such as vending machines, lockers, and laundry machines.

The data published with NAICS code 333311 include the following SIC industry:

3581 Automatic merchandising machines

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333311 do not include establishments primarily engaged in the manufacture of change making machines. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333312 Commercial Laundry, Drycleaning, and Pressing Machine Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing commercial and industrial laundry and drycleaning equipment and pressing machines.

The data published with NAICS code 333312 include the following SIC industry:

3582 Commercial laundry equipment

333313 Office Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing office machinery (except computers and photocopying equipment), such as mail-handling machinery and equipment, calculators, typewriters, and dedicated word processing equipment.

The data published with NAICS code 333313 include the following SIC industries:

3578 Calculating and accounting equipment (pt)

3579 Office machines, n.e.c. (pt)

333314 Optical Instrument and Lens Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing optical instruments and lens, such as binoculars, microscopes (except electron, proton), telescopes, prisms, and lenses (except ophthalmic); (2) coating or polishing lenses (except ophthalmic); and (3) mounting lenses (except ophthalmic).

The data published with NAICS code 333314 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3827 Optical instruments and lenses

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333314 include establishments primarily engaged in the manufacture of sighting and tracking laser products.

333315 Photographic and Photocopying Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing photographic and photocopying equipment, such as cameras (except television, video, digital projectors, film developing equipment, photocopying equipment, and microfilm equipment).

The data published with NAICS code 333315 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3861 Photographic equipment and supplies (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333315 include establishments primarily engaged in the manufacture of photographic laser products.

333319 Other Commercial and Service Industry Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing commercial and service industry equipment (except automatic vending machines, commercial laundry, drycleaning and pressing machines, office machinery, optical instruments and lenses, and photographic and photocopying equipment).

The data published with NAICS code 333319 include the following SIC industries:

3559 Special industry machinery, n.e.c. (pt)

3589 Service industry machinery, n.e.c.

3599 Industrial machinery, n.e.c. (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333319 do not include establishments primarily engaged in the manufacture of beauty and barbershop equipment, except chairs. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3334 Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33341, Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing.

33341 Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing ventilating, heating, air-conditioning, and commercial and industrial refrigeration and freezer equipment.

333411 Air Purification Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing stationary air purification equipment, such as industrial dust and fume collection equipment, electrostatic precipitation equipment, warm air furnace filters, air washers, and other dust collection equipment.

The data published with NAICS code 333411 include the following SIC industry:

3564 Blowers and fans (pt)

333412 Industrial and Commercial Fan and Blower Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing attic fans and industrial and commercial fans and blowers, such as commercial exhaust fans and commercial ventilating fans.

The data published with NAICS code 333412 include the following SIC industry:

3564 Blowers and fans (pt)

333414 Heating Equipment (Except Warm Air Furnaces) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing heating equipment (except electric and warm air furnaces), such as heating boilers, heating stoves, floor and wall furnaces, and wall and baseboard heating units.

The data published with NAICS code 333414 include the following SIC industries:

3433 Heating equipment, except electric

3634 Electric housewares and fans (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 333414 do not include establishments primarily engaged in the manufacture of cooling towers of wood, metal, or sheet metal, or the manufacture of electric swimming pool heaters. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333415 Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing air-conditioning (except motor vehicle) and warm air furnace equipment and/or (2) manufacturing commercial and industrial refrigeration and freezer equipment.

The data published with NAICS code 333415 include the following SIC industries:

3443 Fabricated plate work, boiler shops (pt)

3585 Refrigeration and heating equipment (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to

NAICS. Data for NAICS industry 333415 include establishments primarily engaged in the manufacture of metal cooling towers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3335 Metalworking Machinery Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33351, Metalworking Machinery Manufacturing.

33351 Metalworking Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing metalworking machinery, such as metal cutting and metal forming machine tools; cutting tools; and accessories for metalworking machinery; special dies, tools, jigs, and fixtures; industrial molds; rolling mill machinery; assembly machinery; coil handling, conversion, or straightening equipment; and wire drawing and fabricating machines.

333511 Industrial Mold Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial molds for casting metals or forming other materials, such as plastics, glass, or rubber.

The data published with NAICS code 333511 include the following SIC industry:

3544 Special dies, tools, jigs, and fixtures (pt)

333512 Machine Tool (Metal Cutting Types) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal cutting machine tools (except handtools).

The data published with NAICS code 333512 include the following SIC industries:

3541 Machine tools, metal cutting types

3699 Electrical equipment and supplies, n.e.c. (pt)

333513 Machine Tool (Metal Forming Types) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal forming machine tools (except handtools), such as punching, sheering, bending, forming, pressing, forging and die-casting machines.

The data published with NAICS code 333513 include the following SIC industries:

3542 Machine tools, metal forming types

333514 Special Die and Tool, Die Set, Jig, and Fixture Manufacturing

This U.S. industry comprises establishments, known as tool and die shops, primarily engaged in manufacturing special tools and fixtures, such as cutting dies and jigs.

The data published with NAICS code 333514 include the following SIC industry:

3544 Special dies, tools, jigs, and fixtures (pt)

333515 Cutting Tool and Machine Tool Accessory Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing accessories and attachments for metal cutting and metal forming machine tools.

The data published with NAICS code 333515 include the following SIC industry:

3545 Machine tool accessories (pt)

333516 Rolling Mill Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing rolling mill machinery and equipment for metal production.

The data published with NAICS code 333516 include the following SIC industry:

3547 Rolling mill machinery

333518 Other Metalworking Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal working machinery (except industrial molds; metal cutting machine tools; metal forming machine tools; special dies and tools, die sets, jigs, and fixtures; cutting tools and machine tool accessories; and rolling mill machinery and equipment).

The data published with NAICS code 333518 include the following SIC industry:

3549 Metalworking machinery, n.e.c.

3336 Engine, Turbine, and Power Transmission Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33361, Engine, Turbine, and Power Transmission Equipment Manufacturing.

33361 Engine, Turbine, and Power Transmission Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing turbines, power transmission equipment, and internal combustion engines (except automotive gasoline and aircraft).

333611 Turbine and Turbine Generator Set Units Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing turbines (except aircraft); and complete turbine generator set units, such as steam, hydraulic, gas, and wind.

The data published with NAICS code 333611 include the following SIC industry:

3511 Turbines and turbine generator sets

333612 Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing gears, speed changers, and industrial high-speed drives (except hydrostatic).

The data published with NAICS code 333612 include the following SIC industry:

3566 Speed changers, drives, and gears

333613 Mechanical Power Transmission Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing mechanical power transmission equipment (except motor vehicle and aircraft), such as plain bearings, brakes and clutches (except motor vehicle and electromagnetic industrial control), couplings, joints, and drive chains.

The data published with NAICS code 333613 include the following SIC industry:

3568 Power transmission equipment, n.e.c.

333618 Other Engine Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing internal combustion engines (except automotive gasoline and aircraft).

The data published with NAICS code 333618 include the following SIC industries:

3519 Internal combustion engines, n.e.c. (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

3339 Other General-Purpose Machinery Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33391, Pump and Compressor Manufacturing; 33392, Material Handling Equipment Manufacturing; and 33399, All Other General-Purpose Machinery Manufacturing.

33391 Pump and Compressor Manufacturing

This industry comprises establishments primarily engaged in manufacturing pumps and compressors, such as general-purpose air and gas compressors, nonagricultural spraying and dusting equipment, general-purpose pumps and pumping equipment (except fluid power pumps and motors), and measuring and dispensing pumps.

333911 Pump and Pumping Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing general-purpose pumps and pumping equipment (except fluid power pumps and motors), such as reciprocating pumps, turbine pumps, centrifugal pumps, rotary pumps, diaphragm pumps, domestic water system pumps, oil well and oil field pumps and sump pumps.

The data published with NAICS code 333911 include the following SIC industries:

3561 Pumps and pumping equipment

3743 Railroad equipment (pt)

333912 Air and Gas Compressor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing general-purpose air and gas compressors, such as reciprocating compressors, centrifugal compressors, vacuum pumps (except laboratory), and nonagricultural spraying and dusting compressors and spray gun units.

The data published with NAICS code 333912 include the following SIC industry:

3563 Air and gas compressors

333913 Measuring and Dispensing Pump Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing measuring and dispensing pumps, such as gasoline pumps and lubricating oil measuring and dispensing pumps.

The data published with NAICS code 333913 include the following SIC industry:

3586 Measuring and dispensing pumps

33392 Material Handling Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing material handling equipment, such as elevators and moving stairs; conveyors and conveying equipment; overhead traveling cranes, hoists, and monorail systems; and industrial trucks, tractors, trailers, and stacker machinery.

333921 Elevator and Moving Stairway Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing elevators and moving stairways.

The data published with NAICS code 333912 include the following SIC industry:

3534 Elevators and moving stairways

333922 Conveyor and Conveying Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing conveyors and conveying equipment, such as gravity conveyors, trolley conveyors, tow conveyors, pneumatic tube conveyors, carousel conveyors, farm conveyors, and belt conveyors.

The data published with NAICS code 333922 include the following SIC industries:

3523 Farm machinery and equipment (pt)

3535 Conveyors and conveying equipment

333923 Overhead Traveling Crane, Hoist, and Monorail System Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing overhead traveling cranes, hoists, and monorail systems.

The data published with NAICS code 333923 include the following SIC industries:

3531 Construction machinery (pt)

3536 Hoists, cranes, and monorails

333924 Industrial Truck, Tractor, Trailer, and Stackers Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, and stackers (i.e., truck-type) such as forklifts, pallet loaders and unloaders, and portable loading docks.

The data published with NAICS code 333924 include the following SIC industry:

3537 Industrial trucks and tractors (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 332994 do not include establishments primarily engaged in the manufacture of tranquilizer guns. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33399 All Other General-Purpose Machinery Manufacturing

This industry comprises establishments primarily engaged in manufacturing general-purpose machinery (except ventilation, heating, air-conditioning, and commercial refrigeration equipment; metal working machinery; engines, turbines, and power transmission equipment; pumps and compressors; and material handling equipment).

333991 Power-Driven Handtool Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing power-driven (e.g., battery, corded, pneumatic) handtools, such as drills, screwguns, circular saws, chain saws, staplers, and nailers.

The data published with NAICS code 333991 include the following SIC industry:

3546 Power-driven handtools

333992 Welding and Soldering Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing welding and soldering equipment and accessories (except transformers), such as arc, resistance, gas, plasma, laser, electron beam, and ultrasonic welding equipment; welding electrodes; coated or cored welding wire; and soldering equipment (except handheld).

The data published with NAICS code 333992 include the following SIC industries:

3548 Welding apparatus (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

333993 Packaging Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing packaging machinery, such as wrapping, bottling, canning, and labeling machinery.

The data published with NAICS code 333993 include the following SIC industry:

3565 Packaging machinery

333994 Industrial Process Furnace and Oven Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial process furnaces, ovens, induction and dielectric heating equipment, and kilns (except cement, chemical, wood).

The data published with NAICS code 333994 include the following SIC industry:

3567 Industrial furnaces and ovens

333995 Fluid Power Cylinder and Actuator Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power (i.e., hydraulic and pneumatic) cylinders and actuators.

The data published with NAICS code 333995 include the following SIC industries:

3593 Fluid power cylinders and actuators

3728 Aircraft parts and equipment, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333995 include establishments primarily engaged in the manufacture of aerospace-type fluid power actuators. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333996 Fluid Power Pump and Motor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power (i.e., hydraulic and pneumatic) pumps and motors.

The data published with NAICS code 333996 include the following SIC industries:

3594 Fluid power pumps and motors

3728 Aircraft parts and equipment, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 333996 include establishments primarily engaged in the manufacture of aerospace-type fluid power actuators. The NAICS definitions will be fully implemented with the 2002 Economic Census.

333997 Scale and Balance (Except Laboratory) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing scales and balances (except laboratory).

The data published with NAICS code 333997 include the following SIC industry:

3596 Scales and balances, except laboratory

333999 All Other Miscellaneous General-Purpose Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing general-purpose machinery (except ventilating, heating, air-conditioning, and commercial refrigeration equipment; metal working machinery;

engines, turbines, and power transmission equipment; pumps and compressors; material handling equipment; power-driven handtools; welding and soldering equipment; packaging machinery; industrial process furnaces and ovens; fluid power cylinders and actuators; fluid power pumps and motors; and scales and balances).

The data published with NAICS code 333999 include the following SIC industries:

3569 General industrial machinery, n.e.c.

3599 Industrial machinery, n.e.c. (pt)

334 Computer and Electronic Product Manufacturing

Industries in the Computer and Electronic Product Manufacturing subsector group establishments that manufacture computers, computer peripherals, communications equipment, and similar electronic products, and establishments that manufacture components for such products. The Computer and Electronic Product Manufacturing industries have been combined in the hierarchy of NAICS because of the economic significance they have attained. Their rapid growth suggests that they will become even more important to the economies of all three North American countries in the future, and in addition their manufacturing processes are fundamentally different from the manufacturing processes of other machinery and equipment. The design and use of integrated circuits and the application of highly specialized miniaturization technologies are common elements in the production technologies of the computer and electronic subsector. Convergence of technology motivates this NAICS subsector. Digitalization of sound recording, for example, causes both the medium (the compact disc) and the equipment to resemble the technologies for recording, storing, transmitting, and manipulating data. Communications technology and equipment have been converging with computer technology. When technologically related components are in the same sector, it makes it easier to adjust the classification for future changes, without needing to redefine its basic structure. The creation of the Computer and Electronic Product Manufacturing subsector will assist in delineating new and emerging industries because the activities that will serve as the probable sources of new industries, such as computer manufacturing and communications equipment manufacturing, or computers and audio equipment are brought together. As new activities emerge, they are less likely, therefore, to cross the subsector boundaries of the classification.

3341 Computer and Peripheral Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33411, Computer and Peripheral Equipment Manufacturing.

33411 Computer and Peripheral Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or assembling electronic computers, such as mainframes, personal computers, workstations, laptops, and computer servers; and computer peripheral equipment, such as storage devices, printers, monitors, input/output devices and terminals. Computers can be analog, digital, or hybrid. Digital computers, the most common type, are devices that do all of the following: (1) store the processing program or programs and the data immediately necessary for the execution of the program; (2) can be freely programmed in accordance with the requirements of the user; (3) perform arithmetical computations specified by the user; and (4) execute, without human intervention, a processing program that requires the computer to modify its execution by logical decision during the processing run. Analog computers are capable of simulating mathematical models and comprise at least analog, control, and programming elements.

334111 Electronic Computer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or assembling electronic computers, such as mainframes, personal computers, workstations, laptops, and computer servers. Computers can be analog, digital, or hybrid. Digital computers, the most common type, are devices that do all of the following: (1) store the processing program or programs and the data immediately necessary for the execution of the program; (2) can be freely programmed in accordance with the requirements of the user; (3) perform arithmetical computations specified by the user; and (4) execute, without human intervention, a processing program that requires the computer to modify its execution by logical decision during the processing run. Analog computers are capable of simulating mathematical models and contain at least analog, control, and programming elements. The manufacture of computers includes the assembly or integration of processors, coprocessors, memory, storage, and input/output devices into a user-programmable final product.

The data published with NAICS code 334111 include the following SIC industry:

3571 Electronic computers

334112 Computer Storage Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing computer storage devices that allow the storage and retrieval of data from a phase change, magnetic, optical, or magnetic/optical media. Examples of products made by these establishments are CD-ROM drives, floppy disk drives, hard disk drives, and tape storage and backup units.

The data published with NAICS code 334112 include the following SIC industry:

3572 Computer storage devices

334113 Computer Terminal Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing computer terminals. Computer terminals are input/output devices that connect with a central computer for processing.

The data published with NAICS code 334113 include the following SIC industry:

3575 Computer terminals

334119 Other Computer Peripheral Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing computer peripheral equipment (except storage devices and computer terminals).

The data published with NAICS code 334119 include the following SIC industries:

3577 Computer peripheral equipment, n.e.c.

3578 Calculating and accounting equipment (pt)

3699 Electrical equipment and supplies, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334119 include establishments primarily engaged in the manufacture of laser products.

3342 Communications Equipment Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33421, Telephone Apparatus Manufacturing; 33422, Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing; and 33429, Other Communications Equipment Manufacturing.

33421 Telephone Apparatus Manufacturing

This industry comprises establishments primarily engaged in manufacturing wire telephone and data communications equipment. These products may be stand-alone or board-level components of a larger system. Examples of products made by these establishments are central office switching equipment, cordless telephones (except cellular), PBX equipment, telephones, telephone answering machines, and data communications equipment, such as bridges, routers, and gateways.

334210 Telephone Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wire telephone and data communications equipment. These products may be stand-alone or board-level components of a larger system. Examples of products made by these establishments are central office switching equipment, cordless telephones (except cellular), PBX equipment, telephones, telephone answering machines, and data communications equipment, such as bridges, routers, and gateways.

The data published with NAICS code 334210 include the following SIC industry:

3661 Telephone and telegraph apparatus (pt)

33422 Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communications equipment. Examples of products made by these establishments are: transmitting and receiving antennas, cable television equipment, GPS equipment, pagers, cellular phones, mobile communications equipment, and radio and television studio and broadcasting equipment.

334220 Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communications equipment. Examples of products made by these establishments are: transmitting and receiving antennas, cable television equipment, GPS equipment, pagers, cellular phones, mobile communications equipment, and radio and television studio and broadcasting equipment.

The data published with NAICS code 334220 include the following SIC industries:

3663 Radio and TV communications equipment

3679 Electronic components, n.e.c. (pt)

33429 Other Communications Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing communications equipment (except telephone apparatus, and radio and television broadcast, and wireless communications equipment).

334290 Other Communications Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing communications equipment (except telephone apparatus, radio and television broadcast, and wireless communications equipment).

The data published with NAICS code 334290 include the following SIC industry:

3669 Communications equipment, n.e.c.

3343 Audio and Video Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33431, Audio and Video Equipment Manufacturing.

33431 Audio and Video Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing electronic audio and video equipment for home entertainment, motor vehicle, public address and musical instrument amplifications. Examples of products made by these establishments are video cassette recorders, televisions, stereo equipment, speaker systems, household-type video cameras, jukeboxes, and amplifiers for musical instruments and public address systems.

334310 Audio and Video Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic audio and video equipment for home entertainment, motor vehicle, public address and musical instrument amplifications. Examples of products made by these establishments are video cassette recorders, televisions, stereo equipment, speaker systems, household-type video cameras, jukeboxes, and amplifiers for musical instruments and public address systems.

The data published with NAICS code 334310 include the following SIC industry:

3651 Household audio and video equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334310 do not include establishments primarily engaged in the manufacture of radio headphones. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3344 Semiconductor and Other Electronic Component Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33441, Semiconductor and Other Electronic Component Manufacturing.

33441 Semiconductor and Other Electronic Component Manufacturing

This industry comprises establishments primarily engaged in manufacturing semiconductors and other components for electronic applications. Examples of products

made by these establishments are capacitors, resistors, microprocessors, bare and loaded printed circuit boards, electron tubes, electronic connectors, and computer modems.

334411 Electron Tube Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electron tubes and parts (except glass blanks). Examples of products made by these establishments are cathode ray tubes (i.e., picture tubes), klystron tubes, magnetron tubes, and traveling wave tubes.

The data published with NAICS code 334411 include the following SIC industries:

3671 Electron tubes

334412 Bare Printed Circuit Board Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing bare (i.e., rigid or flexible) printed circuit boards without mounted electronic components. These establishments print, perforate, plate, screen, etch, or photoprint interconnecting pathways for electric current on laminates.

The data published with NAICS code 334412 include the following SIC industry:

3672 Printed circuit boards

334413 Semiconductor and Related Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing semiconductors and related solid state devices. Examples of products made by these establishments are integrated circuits, memory chips, microprocessors, diodes, transistors, solar cells, and other optoelectronic devices.

The data published with NAICS code 334413 include the following SIC industry:

3674 Semiconductors and related devices

334414 Electronic Capacitor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic fixed and variable capacitors and condensers.

The data published with NAICS code 334414 include the following SIC industry:

3675 Electronic capacitors

334415 Electronic Resistor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic resistors, such as fixed and variable resistors, resistor networks, thermistors, and varistors.

The data published with NAICS code 334415 include the following SIC industry:

3676 Electronic resistors

334416 Electronic Coil, Transformer, and Other Inductor Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic inductors, such as coils and transformers.

The data published with NAICS code 334416 include the following SIC industries:

3661 Telephone and telegraph apparatus (pt)

3677 Electronic coils and transformers

3825 Instruments to measure electricity (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334416 include establishments primarily engaged in the manufacture of telephone transformers or portable instrument transformers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

334417 Electronic Connector Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic connectors, such as coaxial, cylindrical, rack and panel, pin and sleeve, printed circuit and fiber optic.

The data published with NAICS code 334417 include the following SIC industry:

3678 Electronic connectors

334418 Printed Circuit Assembly (Electronic Assembly) Manufacturing

This U.S. industry comprises establishments primarily engaged in loading components onto printed circuit boards or who manufacture and ship loaded printed circuit boards. Also known as printed circuit assemblies, electronics assemblies, or modules, these products are printed circuit boards that have some or all of the semiconductor and electronic components inserted or mounted and are inputs to a wide variety of electronic systems and devices.

The data published with NAICS code 334418 include the following SIC industries:

3661 Telephone and telegraph apparatus (pt)

3679 Electronic components, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334418 do not include

establishments primarily engaged in the manufacture of plotter controllers. The NAICS definitions will be fully implemented with the 2002 Economic Census.

334419 Other Electronic Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electronic components (except electron tubes; bare printed circuit boards; semiconductors and related devices; electronic capacitors; electronic resistors; coils, transformers and other inductors; connectors; and loaded printed circuit boards).

The data published with NAICS code 334419 include the following SIC industry:

3679 Electronic components, n.e.c. (pt)

3345 Navigational, Measuring, Medical, and Control Instruments Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33451, Navigational, Measuring, Medical, and Control Instruments Manufacturing.

33451 Navigational, Measuring, Medical, and Control Instruments Manufacturing

This industry comprises establishments primarily engaged in manufacturing navigational, measuring, electromedical, and control instruments. Examples of products made by these establishments are aeronautical instruments, appliance regulators and controls (except switches), laboratory analytical instruments, navigation and guidance systems, and physical properties testing equipment.

334510 Electromedical and Electrotherapeutic Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electromedical and electrotherapeutic apparatus, such as magnetic resonance imaging equipment, medical ultrasound equipment, pacemakers, hearing aids, electrocardiographs, and electromedical endoscopic equipment.

The data published with NAICS code 334510 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3842 Surgical appliances and supplies (pt)

3845 Electromedical equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334510 include establishments primarily engaged in the manufacture of electro-medical laser products.

334511 Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing search, detection, navigation, guidance, aeronautical, and nautical systems and instruments. Examples of products made by these establishments are aircraft instruments (except engine), flight recorders, navigational instruments and systems, radar systems and equipment, and sonar systems and equipment.

The data published with NAICS code 334511 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3812 Search and navigation equipment

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334511 include establishments primarily engaged in the manufacture of search and detection laser products.

334512 Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use

This U.S. industry comprises establishments primarily engaged in manufacturing automatic controls and regulators for applications, such as heating, air-conditioning, refrigeration and appliances.

The data published with NAICS code 334512 include the following SIC industry:

3822 Environmental controls

334513 Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables

This U.S. industry comprises establishments primarily engaged in manufacturing instruments and related devices for measuring, displaying, indicating, recording, transmitting, and controlling industrial process variables. These instruments measure, display or control (monitor, analyze, and so forth) industrial process variables, such as temperature, humidity, pressure, vacuum, combustion, flow, level, viscosity, density, acidity, concentration, and rotation.

The data published with NAICS code 334513 include the following SIC industry:

3823 Process control instruments

334514 Totalizing Fluid Meter and Counting Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing totalizing (i.e., registering) fluid meters and counting devices. Examples of products made

by these establishments are gas consumption meters, water consumption meters, parking meters, taxi meters, motor vehicle gauges, and fare collection equipment.

The data published with NAICS code 334514 include the following SIC industry:

3824 Fluid meters and counting devices

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334514 do not include establishments primarily engaged in the manufacture of automotive ammeters and voltmeters or motor vehicle gauges. The NAICS definitions will be fully implemented with the 2002 Economic Census.

334515 Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals

This U.S. industry comprises establishments primarily engaged in manufacturing instruments for measuring and testing the characteristics of electricity and electrical signals. Examples of products made by these establishments are circuit and continuity testers, volt meters, ohm meters, wattmeters, multimeters, and semiconductor test equipment.

The data published with NAICS code 334515 include the following SIC industry:

3825 Instruments to measure electricity (pt)

334516 Analytical Laboratory Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing instruments and instrumentation systems for laboratory analysis of the chemical or physical composition or concentration of samples of solid, fluid, gaseous, or composite material.

The data published with NAICS code 334516 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3826 Analytical instruments

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334516 include establishments primarily engaged in the manufacture of analytical and scientific laser products.

334517 Irradiation Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing irradiation apparatus and tubes for applications, such as medical diagnostic, medical therapeutic, industrial, research and scientific evaluation. Irradiation can take the form of beta-rays, gamma-rays, X-rays, or other ionizing radiation.

The data published with NAICS code 334517 include the following SIC industry:

3844 X-ray apparatus and tubes

334518 Watch, Clock, and Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or assembling clocks; watches; timing mechanisms for clockwork operated devices; time clocks; time and date recording devices; and clock and watch parts (except crystals), such as springs, jewels, and modules.

The data published with NAICS code 334518 include the following SIC industries:

3495 Wire springs (pt)

3579 Office machines, n.e.c. (pt)

3873 Watches, clocks, and watchcases

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334518 do not include establishments primarily engaged in the manufacture of electronic chronometers or watch jewels. The NAICS definitions will be fully implemented with the 2002 Economic Census.

334519 Other Measuring and Controlling Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing measuring and controlling devices (except search, detection, navigation, guidance, aeronautical, and nautical instruments and systems; automatic environmental controls for residential, commercial, and appliance use; instruments for measurement, display, and control of industrial process variables; totalizing fluid meters and counting devices; instruments for measuring and testing electricity and electrical signals; analytical laboratory instruments; watches, clocks, and parts; irradiation equipment; and electromedical and electrotherapeutic apparatus).

The data published with NAICS code 334519 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3829 Measuring and controlling devices, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing implemented the conversion to NAICS differently. Data for NAICS industry 334519 include establishments primarily engaged in the manufacture of commercial geophysical, meteorological, survey, and drafting laser products.

3346 Manufacturing and Reproducing Magnetic and Optical Media

This NAICS industry group includes establishments classified in NAICS Industry 33461, Manufacturing and Reproducing Magnetic and Optical Media.

33461 Manufacturing and Reproducing Magnetic and Optical Media

This industry comprises establishments primarily engaged in (1) manufacturing optical and magnetic media, such as blank audio tape, blank video tape, and blank diskettes and/or (2) mass duplicating (i.e., making copies) audio, video, software, and other data on magnetic, optical, and similar media.

334611 Software Reproducing

This U.S. industry comprises establishments primarily engaged in mass reproducing computer software. These establishments do not generally develop any software; they mass reproduce data and programs on magnetic media, such as diskettes, tapes, or cartridges. Establishments in this industry mass reproduce products, such as CD-ROMs and game cartridges.

The data published with NAICS code 334611 include the following SIC industries:

7379 Computer Related Services, n.e.c. (pt)

334612 Prerecorded Compact Disc (Except Software), Tape, and Record Reproducing

This U.S. industry comprises establishments primarily engaged in mass reproducing audio and video material on magnetic or optical media. Examples of products mass reproduced by these establishments are audio compact discs, prerecorded audio and video cassettes, and laser discs.

The data published with NAICS code 334612 include the following SIC industries:

3652 Prerecorded records and tapes

7819 Services allied to motion pictures (pt)

334613 Magnetic and Optical Recording Media Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing magnetic and optical recording media, such as blank magnetic tape, blank diskettes, blank optical discs, hard drive media, and blank magnetic tape cassettes.

The data published with NAICS code 334613 include the following SIC industry:

3695 Magnetic and optical recording media

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 334613 do not include establishments primarily engaged in the manufacture of magnetic tape cleaners. The NAICS definitions will be fully implemented with the 2002 Economic Census.

335 Electrical Equipment, Appliance, and Component Manufacturing

Industries in the Electrical Equipment, Appliance, and Component Manufacturing subsector manufacture products that generate, distribute and use electrical power. Electric lighting equipment manufacturing establishments produce electric lamp bulbs, lighting fixtures, and parts. Household appliance manufacturing establishments make both small and major electrical appliances and parts. Electrical equipment manufacturing establishments make goods, such as electric motors, generators, transformers, and switchgear apparatus. Other electrical equipment and component manufacturing establishments make devices for storing electrical power (e.g., batteries), for transmitting electricity (e.g., insulated wire), and wiring devices (e.g., electrical outlets, fuse boxes, and light switches).

3351 Electric Lighting Equipment Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33511, Electric Lamp Bulb and Parts Manufacturing; and 33512, Lighting Fixture Manufacturing.

33511 Electric Lamp Bulb and Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing electric light bulbs and tubes, and parts and components (except glass blanks for electric light bulbs).

335110 Electric Lamp Bulb and Part Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric light bulbs and tubes, and parts and components (except glass blanks for electric light bulbs).

The data published with NAICS code 335110 include the following SIC industry:

3641 Electric lamps

33512 Lighting Fixture Manufacturing

This industry comprises establishments primarily engaged in manufacturing electric lighting fixtures (except vehicular), nonelectric lighting equipment, lamp shades (except glass and plastics) and lighting fixture components (except current-carrying wiring devices).

335121 Residential Electric Lighting Fixture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fixed or portable residential electric lighting fixtures and lamp shades of metal, paper, or textiles. Residential electric lighting fixtures include those for use both inside and outside the residence.

The data published with NAICS code 335121 include the following SIC industries:

- 3089 Plastics products, n.e.c. (pt)
- 3645 Residential lighting fixtures
- 3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 335121 include establishments primarily engaged in the manufacture of plastic lampshades. The NAICS definitions will be fully implemented with the 2002 Economic Census.

335122 Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing commercial, industrial, and institutional electric lighting fixtures.

The data published with NAICS code 335122 include the following SIC industry:

- 3646 Commercial lighting fixtures

335129 Other Lighting Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric lighting fixtures (except residential, commercial, industrial, institutional, and vehicular electric lighting fixtures) and nonelectric lighting equipment.

The data published with NAICS code 335129 include the following SIC industries:

- 3648 Lighting equipment, n.e.c.
- 3699 Electrical equipment and supplies, n.e.c. (pt)

3352 Household Appliance Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33521, Small Electrical Appliance Manufacturing; and 33522, Major Appliance Manufacturing.

33521 Small Electrical Appliance Manufacturing

This industry comprises establishments primarily engaged in manufacturing small electric appliances and electric housewares, household-type fans, household-type vacuum cleaners, and other electric household-type floor care machines.

335211 Electric Housewares and Household Fan Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small electric appliances and electric housewares for heating, cooking, and other purposes, and electric household-type fans (except attic fans).

The data published with NAICS code 335211 include the following SIC industry:

- 3634 Electric housewares and fans (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 335211 do not include establishments primarily engaged in the manufacture of electric hair clippers for humans. The NAICS definitions will be fully implemented with the 2002 Economic Census.

335212 Household Vacuum Cleaner Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric vacuum cleaners, electric floor waxing machines, and other electric floor care machines typically for household use.

The data published with NAICS code 335212 include the following SIC industries:

- 3635 Household vacuum cleaners
- 3639 Household appliances, n.e.c. (pt)

33522 Major Appliance Manufacturing

This industry comprises establishments primarily engaged in manufacturing household-type cooking appliances, household-type laundry equipment, household-type refrigerators, upright and chest freezers, and other electrical and nonelectrical major household-type appliances, such as dishwashers, water heaters, and garbage disposal units.

335221 Household Cooking Appliance Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type electric and nonelectric cooking equipment (except small electric appliances and electric housewares).

The data published with NAICS code 335221 include the following SIC industry:

- 3631 Household cooking equipment

335222 Household Refrigerator and Home Freezer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type refrigerators and upright and chest freezers.

The data published with NAICS code 335222 include the following SIC industry:

3632 Household refrigerators and freezers

335224 Household Laundry Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type laundry equipment.

The data published with NAICS code 335224 include the following SIC industry:

3633 Household laundry equipment

335228 Other Major Household Appliance Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric and nonelectric major household-type appliances (except cooking equipment, refrigerators, upright and chest freezers, and household-type laundry equipment).

The data published with NAICS code 335228 include the following SIC industry:

3639 Household appliances, n.e.c. (pt)

3353 Electrical Equipment Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33531, Electrical Equipment Manufacturing.

33531 Electrical Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers; electric motors, generators, and motor generator sets; switchgear and switchboard apparatus; relays; and industrial controls.

335311 Power, Distribution, and Specialty Transformer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers (except electronic components). Industrial-type and consumer-type transformers in this industry vary (e.g., step up or step down) voltage but do not convert alternating to direct or direct to alternating current.

The data published with NAICS code 335311 include the following SIC industries:

3548 Welding apparatus (pt)

3612 Transformers

335312 Motor and Generator Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric motors (except internal combustion engine starting motors), power generators (except battery charging alternators for internal combustion engines), and motor generator sets (except turbine generator set units). This industry includes establishments rewinding armatures on a factory basis.

The data published with NAICS code 335312 include the following SIC industries:

3621 Motors and generators

7694 Armature rewinding shops (pt)

335313 Switchgear and Switchboard Apparatus Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing switchgear and switchboard apparatus.

The data published with NAICS code 335313 include the following SIC industry:

3613 Switchgear and switchboard apparatus

335314 Relay and Industrial Control Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing relays, motor starters and controllers, and other industrial controls and control accessories.

The data published with NAICS code 335314 include the following SIC industry:

3625 Relays and industrial controls

3359 Other Electrical Equipment and Component Manufacturing

This industry group comprises establishments manufacturing electrical equipment and components (except electric lighting equipment, household-type appliances, transformers, switchgear, relays, motors, and generators).

33591 Battery Manufacturing

This industry comprises establishments primarily engaged in manufacturing primary and storage batteries.

335911 Storage Battery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing storage batteries.

The data published with NAICS code 335911 include the following SIC industry:

3691 Storage batteries

335912 Primary Battery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wet or dry primary batteries.

The data published with NAICS code 335912 include the following SIC industry:

3692 Primary batteries, dry and wet

33592 Communication and Energy Wire and Cable Manufacturing

This industry comprises establishments insulating fiber-optic cable, and manufacturing insulated nonferrous wire and cable from nonferrous wire drawn in other establishments.

335921 Fiber Optic Cable Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing insulated fiber-optic cable from purchased fiber-optic strand.

The data published with NAICS code 335921 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

335929 Other Communication and Energy Wire Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing insulated wire and cable of nonferrous metals from purchased wire.

The data published with NAICS code 335929 include the following SIC industry:

3357 Nonferrous wire drawing and insulating (pt)

33593 Wiring Device Manufacturing

This industry comprises establishments primarily engaged in manufacturing current-carrying wiring devices and noncurrent-carrying wiring devices for wiring electrical circuits.

335931 Current-Carrying Wiring Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing current-carrying wiring devices.

The data published with NAICS code 335931 include the following SIC industry:

3643 Current-carrying wiring devices

335932 Noncurrent-Carrying Wiring Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing noncurrent-carrying wiring devices.

The data published with NAICS code 335932 include the following SIC industry:

3644 Noncurrent-carrying wiring devices

33599 All Other Electrical Equipment and Component Manufacturing

This industry comprises establishments primarily engaged in manufacturing electrical equipment (except electric lighting equipment, household-type appliances, transformers, motors, generators, switchgear, relays, industrial controls, batteries, communication and energy wire and cable, and wiring devices).

335991 Carbon and Graphite Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing carbon, graphite, and metal-graphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; carbon and graphite fibers; and other carbon, graphite, and metal-graphite products.

The data published with NAICS code 335991 include the following SIC industry:

3624 Carbon and graphite products

335999 All Other Miscellaneous Electrical Equipment and Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial and commercial electric apparatus and other equipment (except lighting equipment, household appliances, transformers, motors, generators, switchgear, relays, industrial controls, batteries, communication and energy wire and cable, wiring devices, and carbon and graphite products). This industry includes power converters (i.e., AC to DC and DC to AC), power supplies, surge suppressors, and similar equipment for industrial-type and consumer-type equipment.

The data published with NAICS code 335999 include the following SIC industries:

3629 Electrical industrial apparatus, n.e.c.

3699 Electrical equipment and supplies, n.e.c. (pt)

336 Transportation Equipment Manufacturing

Industries in the Transportation Equipment Manufacturing subsector produce equipment for transporting people and goods. Transportation equipment is a type of machinery. An entire subsector is devoted to this activity because of the significance of its economic size in all three North American countries.

Establishments in this subsector utilize production processes similar to those of other machinery manufacturing establishments - bending, forming, welding, machining, and assembling metal or plastic parts into components and finished products. However, the assembly of components and subassemblies and their further assembly into finished vehicles tends to be a more common production process in this subsector than in the Machinery Manufacturing subsector.

NAICS has industry groups for the manufacture of equipment for each mode of transport - road, rail, air, and water. Parts for motor vehicles warrant a separate industry group because of their importance and because parts manufacture requires less assembly, and the establishments that manufacture only parts are not as vertically integrated as those that make complete vehicles.

Land use motor vehicle equipment not designed for highway operation (e.g., agricultural equipment, construction equipment, and materials handling equipment) is classified in the appropriate NAICS subsector based on the type and use of the equipment.

3361 Motor Vehicle Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33611, Automobile and Light Duty Motor Vehicle Manufacturing; and 33612, Heavy Duty Truck Manufacturing.

33611 Automobile and Light Duty Motor Vehicle Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing complete automobile and light duty motor vehicles (i.e., body and chassis or unibody) or (2) manufacturing chassis only.

336111 Automobile Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing complete automobiles (i.e., body and chassis or unibody) or (2) manufacturing automobile chassis only.

The data published with NAICS code 336111 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

336112 Light Truck and Utility Vehicle Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing complete light trucks and utility vehicles (i.e., body and chassis) or (2) manufacturing light truck and utility vehicle chassis only. Vehicles made include light duty vans, pick-up trucks, minivans, and sport utility vehicles.

The data published with NAICS code 336112 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

33612 Heavy Duty Truck Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing heavy duty truck chassis and assembling complete heavy duty trucks, buses, heavy duty motor homes, and other special-purpose, heavy duty motor vehicles for highway use or (2) manufacturing heavy duty truck chassis only.

336120 Heavy Duty Truck Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing heavy duty truck chassis and assembling complete heavy duty trucks, buses, heavy duty motor homes, and other special-purpose, heavy duty motor vehicles for highway use or (2) manufacturing heavy duty truck chassis only.

The data published with NAICS code 336120 include the following SIC industry:

3711 Motor vehicles and car bodies (pt)

3362 Motor Vehicle Body and Trailer Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33621, Motor Vehicle Body and Trailer Manufacturing.

33621 Motor Vehicle Body and Trailer Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing motor vehicle bodies and cabs or (2) manufacturing truck, automobile and utility trailers, truck trailer chassis, detachable trailer bodies and detachable trailer chassis. The products made may be sold separately or may be assembled on purchased chassis and sold as complete vehicles.

Motor homes are units where the motor and the living quarters are contained in the same integrated unit, while travel trailers are designed to be towed by a motor unit, such as an automobile or a light truck.

336211 Motor Vehicle Body Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing truck and bus bodies and cabs and automobile bodies. The products made may be sold separately or may be assembled on purchased chassis and sold as complete vehicles.

The data published with NAICS code 336211 include the following SIC industries:

3711 Motor vehicles and car bodies (pt)

3713 Truck and bus bodies

3714 Motor vehicle parts and accessories (pt)

336212 Truck Trailer Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing truck trailers, truck trailer chassis, cargo container chassis, detachable trailer bodies, and detachable trailer chassis for sale separately.

The data published with NAICS code 336212 include the following SIC industry:

3715 Truck trailers

336213 Motor Home Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing motor homes on purchased chassis and/or (2) manufacturing conversion vans on an assembly line basis. Motor homes are units where the motor and the living quarters are integrated in the same unit.

The data published with NAICS code 336213 include the following SIC industry:

3716 Motor homes

336214 Travel Trailer and Camper Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing travel trailers and campers designed to attach to motor vehicles; (2) manufacturing pickup coaches (i.e., campers) and caps (i.e., covers) for mounting on pickup trucks; and (3) manufacturing automobile, utility, and light-truck trailers. Travel trailers do not have their own motor but are designed to be towed by a motor unit, such as an automobile or a light truck.

The data published with NAICS code 336214 include the following SIC industries:

3792 Travel trailer and campers

3799 Transportation equipment, n.e.c. (pt)

3363 Motor Vehicle Parts Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33631, Motor Vehicle Gasoline Engine and Engine Parts Manufacturing; 33632, Motor Vehicle Electrical and Electronic Equipment Manufacturing; 33633, Motor Vehicle Steering and Suspension Component (Except Spring) Manufacturing; 33634, Motor Vehicle Brake System Manufacturing; 33635, Motor Vehicle Transmission and Power Train Parts Manufacturing; 33636, Motor Vehicle Seating and Interior Trim Manufacturing; 33637, Motor Vehicle Metal Stamping; and 33639, Other Motor Vehicle Parts Manufacturing.

33631 Motor Vehicle Gasoline Engine and Engine Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle gasoline engines and engine parts, whether or not for vehicular use.

336311 Carburetor, Piston, Piston Ring, and Valve Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding carburetors, pistons, piston rings, and engine intake and exhaust valves.

The data published with NAICS code 336311 include the following SIC industries:

3592 Carburetors, pistons, rings, and valves

336312 Gasoline Engine and Engine Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding gasoline motor vehicle engines and gasoline motor vehicle engine parts, excluding carburetors, pistons, piston rings, and valves.

The data published with NAICS code 336312 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

33632 Motor Vehicle Electrical and Electronic Equipment Manufacturing

This industry comprises establishments primarily engaged in (1) manufacturing vehicular lighting and/or (2) manufacturing and/or rebuilding motor vehicle electrical and electronic equipment. The products made can be used for all types of transportation equipment (i.e., aircraft, automobiles, trains, ships).

336321 Vehicular Lighting Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing vehicular lighting fixtures.

The data published with NAICS code 336321 include the following SIC industry:

3647 Vehicular lighting equipment

336322 Other Motor Vehicle Electrical and Electronic Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding electrical and electronic equipment for motor vehicles and internal combustion engines.

The data published with NAICS code 336322 include the following SIC industries:

3679 Electronic components, n.e.c. (pt)

3694 Engine electrical equipment

3714 Motor vehicle parts and accessories (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336322 include establishments primarily engaged in the manufacture of electronic control modular chips for motor vehicles. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33633 Motor Vehicle Steering and Suspension Component (Except Spring) Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle steering mechanisms and suspension components (except springs).

336330 Motor Vehicle Steering and Suspension Component (Except Spring) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle steering mechanisms and suspension components (except springs).

The data published with NAICS code 336330 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

33634 Motor Vehicle Brake System Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle brake systems and related components.

336340 Motor Vehicle Brake System Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle brake systems and related components.

The data published with NAICS code 336340 include the following SIC industries:

3292 Asbestos products (pt)

3714 Motor vehicle parts and accessories (pt)

33635 Motor Vehicle Transmission and Power Train Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle transmission and power train parts.

336350 Motor Vehicle Transmission and Power Train Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle transmission and power train parts.

The data published with NAICS code 336350 include the following SIC industry:

3714 Motor vehicle parts and accessories (pt)

33636 Motor Vehicle Seating and Interior Trim Manufacturing

This industry comprises establishments primarily engaged in manufacturing motor vehicle seating, seats, seat frames, seat belts, and interior trimmings.

336360 Motor Vehicle Seating and Interior Trim Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing motor vehicle seating, seats, seat frames, seat belts, and interior trimmings.

The data published with NAICS code 336360 include the following SIC industries:

2396 Automotive and apparel trimmings (pt)

2399 Fabricated textile products, n.e.c. (pt)

2531 Public building and related furniture (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336360 do not include establishments primarily engaged in the manufacture of metal motor vehicle seat frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33637 Motor Vehicle Metal Stamping

This industry comprises establishments primarily engaged in manufacturing motor vehicle stampings, such as fenders, tops, body parts, trim, and molding.

336370 Motor Vehicle Metal Stamping

This U.S. industry comprises establishments primarily engaged in manufacturing motor vehicle stampings, such as fenders, tops, body parts, trim, and molding.

The data published with NAICS code 336370 include the following SIC industry:

3465 Automotive stampings

33639 Other Motor Vehicle Parts Manufacturing

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle parts and accessories (except motor vehicle gasoline engines and engine parts, motor vehicle electrical and electronic equipment, motor vehicle steering and suspension components, motor vehicle brake systems, motor vehicle transmission and power train parts, motor vehicle seating and interior trim, and motor vehicle stampings).

336391 Motor Vehicle Air-Conditioning Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing air-conditioning systems and compressors for motor vehicles, such as automobiles, trucks, buses, aircraft, farm machinery, construction machinery, and other related vehicles.

The data published with NAICS code 336391 include the following SIC industry:

3585 Refrigeration and heating equipment (pt)

336399 All Other Motor Vehicle Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle parts and accessories (except motor vehicle gasoline engines and engine parts, motor vehicle electrical and electronic equipment, motor vehicle steering and suspension components, motor vehicle brake systems, motor vehicle transmission and power train parts, motor vehicle seating and interior trim, motor vehicle stampings, and motor vehicle air-conditioning systems and compressors).

The data published with NAICS code 336399 include the following SIC industries:

3519 Internal combustion engines, n.e.c. (pt)

3714 Motor vehicle parts and accessories (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336399 do not include establishments primarily engaged in the manufacture of luggage and utility racks or trailer hitches. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3364 Aerospace Product and Parts Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33641, Aerospace Product and Parts Manufacturing.

33641 Aerospace Product and Parts Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing complete aircraft, missiles, or space vehicles; (2) manufacturing aerospace engines, propulsion units, auxiliary equipment or parts; (3) developing and making prototypes of aerospace products; (4) aircraft conversion (i.e., major modifications to systems); and (5) complete aircraft or propulsion systems overhaul and rebuilding (i.e., periodic restoration of aircraft to original design specifications).

336411 Aircraft Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing or assembling complete aircraft; (2) developing and making aircraft prototypes; (3) aircraft conversion (i.e., major modifications to systems); and (4) complete aircraft overhaul and rebuilding (i.e., periodic restoration of aircraft to original design specifications).

The data published with NAICS code 336411 include the following SIC industry:

3721 Aircraft

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 336411 do not include establishments primarily engaged in the manufacture of target drones. The NAICS definitions will be fully implemented with the 2002 Economic Census.

336412 Aircraft Engine and Engine Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing aircraft engines and engine parts; (2) developing and making prototypes of aircraft engines and engine parts; (3) aircraft propulsion system conversion (i.e., major modifications to systems); and (4) aircraft propulsion systems overhaul and rebuilding (i.e., periodic restoration of aircraft propulsion system to original design specifications).

The data published with NAICS code 336412 include the following SIC industry:

3724 Aircraft engines and engine parts

336413 Other Aircraft Parts and Auxiliary Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing aircraft parts or auxiliary equipment (except engines and aircraft fluid power subassemblies) and/or (2) developing and making prototypes of aircraft parts and auxiliary equipment. Auxiliary equipment includes such items as crop dusting apparatus, armament racks, inflight refueling equipment, and external fuel tanks.

The data published with NAICS code 336413 include the following SIC industry:

3728 Aircraft parts and equipment, n.e.c. (pt)

336414 Guided Missile and Space Vehicle Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing complete guided missiles and space vehicles and/or (2) developing and making prototypes of guided missile or space vehicles.

The data published with NAICS code 336414 include the following SIC industry:

3761 Guided missiles and space vehicles

336415 Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing guided missile and/or space vehicle propulsion units and propulsion unit parts and/or (2) developing and making prototypes of guided missile and space vehicle propulsion units and propulsion unit parts.

The data published with NAICS code 336415 include the following SIC industry:

3764 Space propulsion units and parts

336419 Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing guided missile and space vehicle parts and auxiliary equipment (except guided missile and space vehicle propulsion units and propulsion unit parts) and/or (2) developing and making prototypes of guided missile and space vehicle parts and auxiliary equipment.

The data published with NAICS code 336419 include the following SIC industry:

3769 Space vehicle equipment, n.e.c.

3365 Railroad Rolling Stock Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33651, Railroad Rolling Stock Manufacturing.

33651 Railroad Rolling Stock Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing and/or rebuilding locomotives, locomotive frames and parts; (2) manufacturing railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and (3) manufacturing rail layers, ballast distributors, rail tamping equipment, and other railway track maintenance equipment.

336510 Railroad Rolling Stock Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing and/or rebuilding locomotives, locomotive frames, and parts; (2) manufacturing railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and (3) manufacturing rail layers, ballast distributors, rail tamping equipment, and other railway track maintenance equipment.

The data published with NAICS code 336510 include the following SIC industries:

3531 Construction machinery (pt)

3743 Railroad equipment (pt)

3366 Ship and Boat Building

This NAICS industry group includes establishments classified in NAICS Industry 33661, Ship and Boat Building.

33661 Ship and Boat Building

This industry comprises establishments primarily engaged in operating shipyards or boat yards (i.e., ship or boat manufacturing facilities). Shipyards are fixed facilities with drydocks and fabrication equipment capable of building a ship, defined as watercraft typically suitable or intended for other than personal or recreational use. Boats are defined as watercraft typically suitable or intended for personal use. Activities of shipyards include the construction of ships, their repair, conversion and alteration, the production of prefabricated ship and barge sections, and specialized services, such as ship scaling.

336611 Ship Building and Repairing

This U.S. industry comprises establishments primarily engaged in operating a shipyard. Shipyards are fixed facilities with drydocks and fabrication equipment capable of building a ship, defined as watercraft typically suitable or intended for other than personal or recreational use. Activities of shipyards include the construction of ships, their repair, conversion and alteration, the production of prefabricated ship and barge sections, and specialized services, such as ship scaling.

The data published with NAICS code 336611 include the following SIC industry:

3731 Ship building and repairing

336612 Boat Building

This U.S. industry comprises establishments primarily engaged in building boats. Boats are defined as watercraft not built in shipyards and typically of the type suitable or intended for personal use.

The data published with NAICS code 336612 include the following SIC industry:

3732 Boat building and repairing (pt)

3369 Other Transportation Equipment Manufacturing

This industry group comprises establishments primarily engaged in manufacturing transportation equipment (except motor vehicles and parts, aerospace products and parts, railroad rolling stock, ship building, and boat manufacturing).

33699 Other Transportation Equipment Manufacturing

This industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, metal tricycles, complete military armored vehicles, tanks, self-propelled weapons, vehicles pulled by draft animals, and other transportation equipment (except motor vehicles, boats, ships, railroad rolling stock, and aerospace products), including parts thereof.

336991 Motorcycle, Bicycle, and Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, tricycles and similar equipment and parts.

The data published with NAICS code 336991 include the following SIC industries:

3751 Motorcycles, bicycles, and parts

3944 Games, toys, and children's vehicles (pt)

336992 Military Armored Vehicle, Tank, and Tank Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing complete military armored vehicles, combat tanks, specialized components for combat tanks, and self-propelled weapons.

The data published with NAICS code 336992 include the following SIC industries:

3711 Motor vehicles and car bodies (pt)

3795 Tanks and tank components

336999 All Other Transportation Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing transportation equipment (except motor vehicles, motor vehicle parts, boats, ships, railroad rolling stock, aerospace products, motorcycles, bicycles, armored vehicles, and tanks).

The data published with NAICS code 336999 include the following SIC industry:

3799 Transportation equipment, n.e.c. (pt)

337 Furniture and Related Product Manufacturing

Industries in the Furniture and Related Product Manufacturing subsector make furniture and related articles, such as mattresses, window blinds, cabinets, and fixtures. The processes used in the manufacture of furniture include the cutting, bending, molding, laminating, and assembly of such materials as wood, metal, glass, plastics, and rattan. However, the production process for furniture is not solely bending metal, cutting and shaping wood, or extruding and molding plastics. Design and fashion trends play an important part in the production of furniture. The integrated design of the article for both esthetic and functional qualities is also a major part of the process of manufacturing furniture. Design services may be performed by the furniture establishment's work force or may be purchased from industrial designers.

Furniture may be made of any material, but the most common ones used in North America are metal and wood. Furniture manufacturing establishments may specialize in making articles primarily from one material. Some of the

equipment required to make a wooden table, for example, is different from that used to make a metal one. However, furniture is usually made from several materials. A wooden table might have metal brackets, and a wooden chair, a fabric or plastics seat. Therefore, in NAICS, furniture initially is classified based on the type of furniture (application for which it is designed) rather than the material used. For example, an upholstered sofa is treated as household furniture, although it may also be used in hotels or offices.

When classifying furniture according to the component material from which it is made, furniture made from more than one material is classified based on the material used in the frame, or if there is no frame, the predominant component material. Upholstered household furniture (excluding kitchen and dining room chairs with upholstered seats) is classified without regard to the frame material. Kitchen or dining room chairs with upholstered seats are classified according to the frame material.

Furniture may be made on a stock or custom basis and may be shipped assembled or unassembled (i.e., knock-down). The manufacture of furniture parts and frames is included in this subsector.

Some of the processes used in furniture manufacturing are similar to processes that are used in other segments of manufacturing. For example, cutting and assembly occurs in the production of wood trusses that are classified in Subsector 321, Wood Product Manufacturing. However, the multiple processes that distinguish wood furniture manufacturing from wood product manufacturing warrant inclusion of wooden furniture manufacturing in the Furniture and Related Product Manufacturing subsector. Metal furniture manufacturing uses techniques that are also employed in the manufacturing of roll-formed products classified in Subsector 332, Fabricated Metal Product Manufacturing. The molding process for plastics furniture is similar to the molding of other plastics products. However, plastics furniture producing establishments tend to specialize in furniture.

NAICS attempts to keep furniture manufacturing together, but there are two notable exceptions: seating for transportation equipment and laboratory and hospital furniture. These exceptions are related to that fact that some of the aspects of the production process for these products, primarily the design, are highly integrated with that of other manufactured goods, namely motor vehicles and health equipment.

3371 Household and Institutional Furniture and Kitchen Cabinet Manufacturing

This industry group comprises establishments manufacturing household-type furniture, such as living room, kitchen, and bedroom furniture, and institutional (i.e., public building) furniture, such as furniture for schools, theaters, and churches.

33711 Wood Kitchen Cabinet and Countertop Manufacturing

This industry comprises establishments primarily engaged in manufacturing wood or plastics laminated on wood kitchen cabinets, bathroom vanities, and countertops (except freestanding). The cabinets and counters may be made on a stock or custom basis.

337110 Wood Kitchen Cabinet and Countertop Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood or plastics laminated on wood kitchen cabinets, bathroom vanities, and countertops (except freestanding). The cabinets and counters may be made on a stock or custom basis.

The data published with NAICS code 3371110 include the following SIC industries:

2434 Wood kitchen cabinets

2541 Wood partitions and fixtures (pt)

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337110 include establishments primarily engaged in manufacturing wood countertops as part of wood office and store fixtures. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33712 Household and Institutional Furniture Manufacturing

This industry comprises establishments primarily engaged in manufacturing household-type and public building furniture (i.e., library, school, theater, and church furniture). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337121 Upholstered Household Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing upholstered household-type furniture. The furniture may be made on a stock or custom basis.

The data published with NAICS code 337121 include the following SIC industries:

2512 Upholstered household furniture

2515 Mattresses and bedsprings (pt)

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337121 do not include establishments primarily engaged in manufacturing upholstered metal household furniture. The NAICS definitions will be fully implemented with the 2002 Economic Census.

337122 Nonupholstered Wood Household Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonupholstered wood household-type furniture and freestanding cabinets (except television, radio, and sewing machine cabinets). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337122 include the following SIC industries:

2511 Wood household furniture

5712 Furniture stores (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337122 include establishments primarily engaged in manufacturing wood box spring frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

337124 Metal Household Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal household-type furniture and freestanding cabinets. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337124 include the following SIC industry:

2514 Metal household furniture

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337124 include establishments primarily engaged in manufacturing upholstered metal household furniture or metal box spring frames. The NAICS definitions will be fully implemented with the 2002 Economic Census.

337125 Household Furniture (Except Wood and Metal) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type furniture of materials other than wood or metal, such as plastics, reed,

rattan, wicker, and fiberglass. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337125 include the following SIC industry:

2519 Household furniture, n.e.c.

337127 Institutional Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing institutional-type furniture (e.g., library, school, theater, and church furniture). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337127 include the following SIC industries:

2531 Public building and related furniture (pt)

2599 Furniture and fixtures, n.e.c. (pt)

3952 Lead pencils and art goods (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337127 do not include establishments primarily engaged in manufacturing wood or nonwood lunchroom tables and chairs. The NAICS definitions will be fully implemented with the 2002 Economic Census.

337129 Wood Television, Radio, and Sewing Machine Cabinet Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood cabinets used as housings by television, stereo, loudspeaker, and sewing machine manufacturers.

The data published with NAICS code 337129 include the following SIC industry:

2517 Wood TV and radio cabinets

3372 Office Furniture (Including Fixtures) Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33721, Office Furniture (Including Fixtures) Manufacturing.

33721 Office Furniture (Including Fixtures) Manufacturing

This industry comprises establishments primarily engaged in manufacturing office furniture and/or office and store fixtures. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337211 Wood Office Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood office-type furniture. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337211 include the following SIC industry:

2521 Wood office furniture

337212 Custom Architectural Woodwork and Millwork Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing custom designed interiors consisting of architectural woodwork and fixtures utilizing wood, wood products, and plastics laminates. All of the industry output is made to individual order on a job shop basis and requires skilled craftsmen as a labor input. A job might include custom manufacturing of display fixtures, gondolas, wall shelving units, entrance and window architectural detail, sales and reception counters, wall paneling, and matching furniture.

The data published with NAICS code 337212 include the following SIC industry:

2541 Wood partitions and fixtures (pt)

337214 Office Furniture (Except Wood) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonwood office-type furniture. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

The data published with NAICS code 337214 include the following SIC industry:

2522 Office furniture, except wood

337215 Showcase, Partition, Shelving, and Locker Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood and nonwood office and store fixtures, shelving, lockers, frames, partitions, and related fabricated products of wood and nonwood materials, including plastics laminated fixture tops. The products are made on a stock basis and may be assembled or unassembled (i.e., knockdown). Establishments exclusively making furniture parts (e.g., frames) are included in this industry.

The data published with NAICS code 337215 include the following SIC industries:

2426 Hardwood dimension and flooring mills (pt)

2541 Wood partitions and fixtures (pt)

2542 Partitions and fixtures, except wood

3499 Fabricated metal products, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 337215 include establishments primarily engaged in manufacturing wood or non-wood lunchroom tables and chairs, but do not include establishments primarily engaged in manufacturing wood or metal box spring frames, finished plastic furniture parts, convertible bed sleeper mechanisms or chair glides. The NAICS definitions will be fully implemented with the 2002 Economic Census.

3379 Other Furniture Related Product Manufacturing

This industry group comprises establishments manufacturing furniture related products, such as mattresses, blinds, and shades.

33791 Mattress Manufacturing

This industry comprises establishments primarily engaged in manufacturing innerspring, box spring, and noninnerspring mattresses, including mattresses for waterbeds.

337910 Mattress Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing innerspring, box spring, and noninnerspring mattresses, including mattresses for waterbeds.

The data published with NAICS code 337910 include the following SIC industry:

2515 Mattresses and bedsprings (pt)

33792 Blind and Shade Manufacturing

This industry comprises establishments primarily engaged in manufacturing one or more of the following: venetian blinds, other window blinds, shades; curtain and drapery rods, poles; and/or curtain and drapery fixtures. The blinds and shades may be made on a stock or custom basis and may be made of any material.

337920 Blind and Shade Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing one or more of the following: venetian blinds, other window blinds, shades; curtain and drapery rods, poles; and/or curtain and drapery fixtures. The blinds and shades may be made on a stock or custom basis and may be made of any material.

The data published with NAICS code 337920 include the following SIC industry:

2591 Drapery hardware, blinds, and shades

339 Miscellaneous Manufacturing

Industries in the Miscellaneous Manufacturing subsector make a wide range of products that cannot readily be classified in specific NAICS subsectors in manufacturing. Processes used by these establishments vary significantly, both among and within industries. For example, a variety of manufacturing processes are used in manufacturing sporting and athletic goods that include products, such as tennis racquets and golf balls. The processes for these products differ from each other, and the processes differ significantly from the fabrication processes used in making dolls or toys, the melting and shaping of precious metals to make jewelry, and the bending, forming, and assembly used in making medical products.

The industries in this subsector are defined by what is made rather than how it is made. Although individual establishments might be appropriately classified elsewhere in the NAICS structure, for historical continuity, these product-based industries were maintained. In most cases, no one process or material predominates for an industry.

Establishments in this subsector manufacture products as diverse as medical equipment and supplies, jewelry, sporting goods, toys, and office supplies.

3391 Medical Equipment and Supplies Manufacturing

This NAICS industry group includes establishments classified in NAICS Industry 33911, Medical Equipment and Supplies Manufacturing.

33911 Medical Equipment and Supplies Manufacturing

This industry comprises establishments primarily engaged in manufacturing medical equipment and supplies. Examples of products made by these establishments are laboratory apparatus and furniture, surgical and medical instruments, surgical appliances and supplies, dental equipment and supplies, orthodontic goods, dentures, and orthodontic appliances.

339111 Laboratory Apparatus and Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing laboratory apparatus and laboratory and hospital furniture (except dental). Examples of products made by these establishments are hospital beds, operating room tables, laboratory balances and scales, furnaces, ovens, centrifuges, cabinets, cases, benches, tables, and stools.

The data published with NAICS code 339111 include the following SIC industry:

3821 Laboratory apparatus and furniture

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339111 do not include establishments primarily engaged in the manufacture of hospital beds or operating tables. The NAICS definitions will be fully implemented with the 2002 Economic Census.

339112 Surgical and Medical Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing medical, surgical, ophthalmic, and veterinary instruments and apparatus (except electrotherapeutic, electromedical, and irradiation apparatus). Examples of products made by these establishments are syringes, hypodermic needles, anesthesia apparatus, blood transfusion equipment, catheters, surgical clamps, and medical thermometers.

The data published with NAICS code 339112 include the following SIC industries:

3829 Measuring and controlling devices, n.e.c. (pt)

3841 Surgical and medical instruments

339113 Surgical Appliance and Supplies Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing surgical appliances and supplies. Examples of products made by these establishments are orthopedic devices, prosthetic appliances, surgical dressings, crutches, surgical sutures, and personal industrial safety devices (except protective eyewear).

The data published with NAICS code 339113 include the following SIC industries:

2599 Furniture and fixtures, n.e.c. (pt)

3842 Surgical appliances and supplies (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339113 do not include establishments primarily engaged in the manufacture of rubber gloves and life jackets. The NAICS definitions will be fully implemented with the 2002 Economic Census.

339114 Dental Equipment and Supplies Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing dental equipment and supplies used by dental laboratories and offices of dentists, such as dental chairs, dental instrument delivery systems, dental hand instruments, and dental impression material.

The data published with NAICS code 339114 include the following SIC industries:

3699 Electrical equipment and supplies, n.e.c. (pt)

3843 Dental equipment and supplies

339115 Ophthalmic Goods Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ophthalmic goods. Examples of products made by these establishments are prescription eyeglasses (except manufactured in a retail setting), contact lenses, sunglasses, eyeglass frames, and reading glasses made to standard powers.

The data published with NAICS code 339115 include the following SIC industry:

3851 Ophthalmic goods

339116 Dental Laboratories

This U.S. industry comprises establishments primarily engaged in manufacturing dentures, crowns, bridges, and orthodontic appliances customized for individual application.

The data published with NAICS code 339116 include the following SIC industry:

8072 Dental laboratories

3399 Other Miscellaneous Manufacturing

This NAICS industry group includes establishments classified in the following NAICS Industries: 33991, Jewelry and Silverware Manufacturing; 33992, Sporting and Athletic Goods Manufacturing; 33993, Doll, Toy, and Game Manufacturing; 33994, Office Supplies (Except Paper) Manufacturing; 33995, Sign Manufacturing; and 33999, All Other Miscellaneous Manufacturing.

33991 Jewelry and Silverware Manufacturing

This industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing, engraving, chasing, or etching jewelry; (2) manufacturing metal personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases); (3) manufacturing, engraving, chasing, or etching precious metal solid, precious metal clad, or pewter cutlery and flatware; (4) manufacturing, engraving, chasing, or etching personal metal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases); (5) stamping coins; (6) manufacturing unassembled jewelry parts and stock shop products, such as sheet, wire, and tubing; (7) cutting, slabbing, tumbling, carving, engraving, polishing, or faceting precious or semiprecious stones and gems; (8) recutting, repolishing, and setting gem stones; and (9) drilling, sawing, and peeling cultured and costume pearls.

339911 Jewelry (Except Costume) Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing, engraving, chasing, or etching precious metal solid or precious metal clad jewelry; (2) manufacturing, engraving, chasing, or etching personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases) made of precious solid or clad metal; and (3) stamping coins.

The data published with NAICS code 339911 include the following SIC industries:

3479 Metal coating and allied services (pt)

3911 Jewelry, precious metal

339912 Silverware and Holloware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing, engraving, chasing, or etching precious metal solid, precious metal clad, or pewter flatware and other plated ware.

The data published with NAICS code 339912 include the following SIC industries:

3479 Metal coating and allied services (pt)

3914 Silverware and plated ware (pt)

339913 Jewelers' Material and Lapidary Work Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following: (1) manufacturing unassembled jewelry parts and stock shop products, such as sheet, wire, and tubing; (2) cutting, slabbing, tumbling, carving, engraving, polishing or faceting precious or semiprecious stones and gems; (3) recutting, repolishing, and setting gem stones; and (4) drilling, sawing, and peeling cultured pearls.

The data published with NAICS code 339913 include the following SIC industry:

3915 Jewelers' materials and lapidary work

339914 Costume Jewelry and Novelty Manufacturing

This U.S. industry comprises establishments primarily engaged in (1) manufacturing, engraving, chasing, and etching costume jewelry; and/or (2) manufacturing, engraving, chasing, or etching nonprecious metal personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases). This industry includes establishments primarily engaged in manufacturing precious plated jewelry and precious plated personal goods.

The data published with NAICS code 339914 include the following SIC industries:

3479 Metal coating and allied services (pt)

3499 Fabricated metal products, n.e.c. (pt)

3961 Costume jewelry

33992 Sporting and Athletic Goods Manufacturing

This industry comprises establishments primarily engaged in manufacturing sporting and athletic goods (except apparel and footwear).

339920 Sporting and Athletic Goods Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sporting and athletic goods (except apparel and footwear).

The data published with NAICS code 339920 include the following SIC industry:

3949 Sporting and athletic goods, n.e.c.

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339920 do not include establishments primarily engaged in the manufacture of wet suits. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33993 Doll, Toy, and Game Manufacturing

This industry comprises establishments primarily engaged in manufacturing dolls, toys, and games, such as complete dolls, doll parts, doll clothes, action figures, toys, games (including electronic), hobby kits, and children's vehicles (except metal bicycles and tricycles).

339931 Doll and Stuffed Toy Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing complete dolls, doll parts, and doll clothes, action figures, and stuffed toys.

The data published with NAICS code 339931 include the following SIC industry:

3942 Dolls

339932 Game, Toy, and Children's Vehicle Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing games (including electronic), toys, and children's vehicles (except bicycles and metal tricycles).

The data published with NAICS code 339932 include the following SIC industry:

3944 Games, toys, and children's vehicles (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339932 do not include

establishments primarily engaged in the manufacture of rubber toys, except dolls or embroidery kits. The NAICS definitions will be fully implemented with the 2002 Economic Census.

33994 Office Supplies (Except Paper) Manufacturing

This industry comprises establishments primarily engaged in manufacturing office supplies. Examples of products made by these establishments are pens, pencils, felt tip markers, crayons, chalk, pencil sharpeners, staplers, hand operated stamps, modeling clay, and inked ribbons.

339941 Pen and Mechanical Pencil Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing pens, ballpoint pen refills and cartridges, mechanical pencils, and felt tipped markers.

The data published with NAICS code 339941 include the following SIC industry:

3951 Pens and mechanical pencils

339942 Lead Pencil and Art Goods Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonmechanical pencils and art goods. Examples of products made by these establishments are pencil leads, crayons, chalk, framed blackboards, pencil sharpeners, staplers, artists' palettes and paints, and modeling clay.

The data published with NAICS code 339942 include the following SIC industries:

2531 Public building and related furniture (pt)

3579 Office machines, n.e.c. (pt)

3952 Lead pencils and art goods (pt)

339943 Marking Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing marking devices, such as hand operated stamps, embossing stamps, stamp pads, and stencils.

The data published with NAICS code 339943 include the following SIC industry:

3953 Marking devices

339944 Carbon Paper and Inked Ribbon Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing carbon paper and inked ribbons.

The data published with NAICS code 339944 include the following SIC industry:

3955 Carbon paper and inked ribbons

33995 Sign Manufacturing

This industry comprises establishments primarily engaged in manufacturing signs and related displays of all materials (except printing paper and paperboard signs, notices, displays).

339950 Sign Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing signs and related displays of all materials (except printing paper and paperboard signs, notices, displays).

The data published with NAICS code 339950 include the following SIC industries:

3993 Signs and advertising specialties

33999 All Other Miscellaneous Manufacturing

This industry comprises establishments primarily engaged in miscellaneous manufacturing (except medical equipment and supplies, jewelry and flatware, sporting and athletic goods, dolls, toys, games, office supplies (except paper), and signs).

339991 Gasket, Packing, and Sealing Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing gaskets, packing, and sealing devices of all materials.

The data published with NAICS code 339991 include the following SIC industry:

3053 Gaskets, packing and sealing devices

339992 Musical Instrument Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing musical instruments (except toys).

The data published with NAICS code 339992 include the following SIC industry:

3931 Musical instruments

339993 Fastener, Button, Needle, and Pin Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fasteners, buttons, needles, pins, and buckles (except precious metals or precious and semiprecious stones and gems).

The data published with NAICS code 339993 include the following SIC industries:

3131 Footwear cut stock and findings (pt)

3965 Fasteners, buttons, needles, and pins

339994 Broom, Brush, and Mop Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing brooms, mops, and brushes.

The data published with NAICS code 339994 include the following SIC industries:

2392 Housefurnishings, n.e.c. (pt)

3991 Brooms and brushes

339995 Burial Casket Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing burial caskets, cases, and vaults (except concrete).

The data published with NAICS code 339995 include the following SIC industry:

3995 Burial caskets

339999 All Other Miscellaneous Manufacturing

This U.S. industry comprises establishments primarily engaged in miscellaneous manufacturing (except medical

equipment and supplies, jewelry and flatware, sporting and athletic goods, dolls, toys, games, office supplies (except paper), musical instruments, fasteners, buttons, needles, pins, brooms, brushes, mops, and burial caskets).

The data published with NAICS code 339999 include the following SIC industries:

2499 Wood products, n.e.c. (pt)

3999 Manufacturing industries, n.e.c. (pt)

This definition comes from the 1997 NAICS Manual. However, for this industry, the 1997 Economic Census – Manufacturing did not fully implement the conversion to NAICS. Data for NAICS industry 339999 do not include establishments primarily engaged in the manufacture of electronic cigarette lighters. The NAICS definitions will be fully implemented with the 2002 Economic Census.

Appendix C.

Coverage and Methodology

MAIL/NONMAIL UNIVERSE

The manufacturing universe includes about 400,000 establishments. This number includes those industries in the North American Industry Classification System (NAICS) definition of manufacturing, but not those industries leaving the manufacturing sector in the classification change. The amounts of information requested from manufacturing establishments were dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the annual survey of manufactures (ASM). The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in the publication are described below:

1. Small single-establishment companies not sent a report form.

Approximately 40 percent of the manufacturing establishments were small single-establishment companies that were excused from filing a census report. Selection of these establishments was based on two factors: annual payroll and our ability to assign the correct six-digit NAICS industry classification to the establishment. For each four-digit Standard Industrial Classification (SIC) industry code, an annual payroll cutoff was determined. These cutoffs were derived so that the establishments with payroll less than the cutoff were expected to account for no more than 3 percent of the value of shipments for the industry. Generally, all single-establishment companies with less than 5 employees were excused, while all establishments with more than 20 employees were mailed forms. Establishments below the cutoff that could not be directly assigned a six-digit NAICS code were mailed a classification report which requested information for assigning NAICS industry codes. Establishments below the cutoff that could be directly assigned a six-digit NAICS code were excused from filing any report. For below cutoff establishments, information on the physical location, payroll, and receipts was obtained from the administrative records of other Federal agencies under special arrangements that safeguarded their confidentiality.

Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials were not distributed among specific products and materials for these

establishments but were included in the product and material “not specified by kind” (nsc) categories.

The industry classification codes included in the administrative-record files were assigned on the basis of brief descriptions of the general activity of the establishment. As a result, an indeterminate number of establishments were erroneously coded to a four-digit SIC industry and then erroneously re-coded to a six-digit NAICS industry. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes the administrative-record cases had only two- or three-digit SIC group classification codes available in the files. For the 1997 Economic Census – Manufacturing, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the appropriate six-digit NAICS level. Establishments that did not return the classification form were coded later to those six-digit NAICS industries identified as “All other” industries within the given subsector.

As a result of these situations, a number of small establishments may have been misclassified by industry. However, such possible misclassification has no significant effect on the statistics other than on the number of companies and establishments.

The total establishment count for individual industries should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 employees or more are far more reliable than the count of total number of establishments.

2. Establishments sent a report form.

The establishments covered in the mail canvass were divided into three groups:

- a. ASM sample establishments.

This group accounts for approximately 15 percent of all manufacturing establishments. The ASM panel covers all the units of large manufacturing establishments as well as a sample of the medium and smaller establishments. The probability of selection was proportionate to size. For more information, see the Description of the ASM Survey Sample.

In an economic census year, the ASM report form (MA-1000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll, and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply additional information on gross book value of assets and capital expenditures. ASM establishments were also requested to provide information on retirements, depreciation, rental payments, and supplemental labor costs. For establishments not included in the ASM, these additional items were estimated using relationships observed in the ASM establishment data. The census statistics for these variables are a sum of the ASM establishment data and the estimated data for non-ASM establishments. ASM establishments were also requested to provide information for selected purchased services. The census statistics for the purchased service items were derived solely from the ASM establishments. See Appendix A, Explanation of Terms for an explanation of these items. The census part of the report form is 1 of 220 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of this many forms to canvass the 480 manufacturing industries. Each form was developed for a group of related industries.

Appearing on each form was a list of products primary to the group of related industries as well as secondary products and miscellaneous services that establishments classified in these industries were likely to perform. Respondents were requested to identify the products, the value of each product, and, in many cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materials-consumed inquiry which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided for the respondent to describe significant materials not identified on the form.

A wide variety of special inquiries was included to measure activities peculiar to a given industry, such as operations performed and equipment used.

b. Large and medium establishments (non-ASM).

Approximately 30 percent of all manufacturing establishments were included in this group. A variable cutoff, based on administrative-record payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive 1 of the 220 economic census – manufacturing regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.

c. Small single-establishment companies (non-ASM).

This group includes approximately 15 percent of all manufacturing establishments. For those industries where application of the variable cutoff for administrative-record cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or short form was used. These establishments received 1 of the 31 versions of the short form, which requested summary product and material data and totals but no details on employment, payroll, cost of materials, inventories, and capital expenditures.

Use of the short form has no adverse effect on published totals for the industry statistics because the same data were collected on the short form as on the long form. However, detailed information on products and materials consumed was not collected on the short form; thus, its use would increase the value of the nsk categories.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the 1997 Economic Census – Manufacturing was classified in 1 of 480 industries (473 manufacturing industries and 7 former manufacturing industries) in accordance with the industry definitions in the 1997 NAICS Manual. This is the first edition of the NAICS Manual and it is a major change from the 1987 SIC Manual that was used previously. Appendix A of the 1997 NAICS Manual notes the comparability between the 1987 SIC and 1997 NAICS classification systems. When applicable, Appendix G of this report shows the product class and product comparability between the two systems for data in this report.

In the NAICS system, an industry is generally defined as a group of establishments that have similar production processes. To the extent practical, the system uses supply-based or production-oriented concepts in defining industries. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees.

The coding system works in such a way that the definitions progressively become narrower with successive additions of numerical digits. In the manufacturing sector for 1997, there are 21 subsectors (three-digit NAICS), 86 industry groups (four-digit NAICS), 184 NAICS industries (five-digit NAICS) that are comparable with Canadian and Mexican classification, and 473 U.S. industries (six-digit NAICS). This represents an expansion of the four-digit SIC-based U.S. industries from 459 in 1987. Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. In the new system, there are about 1,500 product classes (seven-digit codes), about 6,000 census products, and an additional 3,700 CIR products (ten-digit codes). The ten-digit products are considered the primary products of the industry with the same first six digits. These counts do not include the seven former manufacturing industries that are included in the 1997 Economic Census – Manufacturing.

For the 1997 Economic Census – Manufacturing, all establishments were classified in particular industries based on the products they produced. If an establishment made products of more than one industry, it was classified in the industry with the largest product value. For 1997, there were no “resistance rules” or “frozen industries.”

In ASM years, establishments included in the ASM sample with certainty weights are reclassified by industry only if the change in the primary activity from the prior year is significant or if the change has occurred for 2 successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year. However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The results of these rules covering the switching of plants from one industry classification to another are that some industries comprise different mixes of establishments in different survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the six-digit NAICS level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrative-record cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of companies and establishments.

Establishments frequently make products classified both in their industry (primary products) and other industries (secondary products). Industry statistics (employment, payroll, value added by manufacture, value of shipments, etc.) reflect the activities of the establishments which may make both primary and secondary products. Product statistics, however, represent the output of all establishments without regard for the classification of the producing establishment. For this reason, when relating the industry statistics, especially the value of shipments, to the product statistics, the composition of the industry’s output should be considered.

The extent to which industry and product statistics may be matched with each other is measured by the primary product specialization ratio and the coverage ratio. The primary product specialization ratio is the proportion of industry shipments accounted for by the primary products of establishments classified in the industry. The coverage ratio is the proportion of product shipments accounted for by establishments classified in the industry.

ESTABLISHMENT BASIS OF REPORTING

The economic census – manufacturing is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location or establishment. The ASM also is conducted on an establishment basis, but separate reports are filed for just those establishments selected in the sample. Companies engaged in distinctly different lines of activity at one location are requested to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

In 1997, as in earlier years, a minimum size limit was set for inclusion of establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures except for data on number of establishments for a few industries.

The 1997 Economic Census – Manufacturing excludes data for central administrative offices (CAOs). These would include separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company. These data are published in a separate report series.

DESCRIPTION OF THE ASM SURVEY SAMPLE

The annual survey of manufactures (ASM) sample is drawn for the second survey year after a census. The most recent sample was drawn for the 1994 survey year based on the 1992 Census of Manufactures. This sample will be in place through the 1998 ASM.

In 1992, there were approximately 370,000 individual manufacturing establishments. For sample efficiency and cost considerations, the 1992 manufacturing population was partitioned into two components for developing estimates within the ASM; a mail stratum and a nonmail stratum.

Mail stratum. The mail stratum of the survey is comprised of larger single-location manufacturing companies and all manufacturing establishments of multiunit companies (companies that operate at more than one physical location). Approximately 230,000 of the 370,000 establishments in the 1992 census were assigned to the mail stratum. On an annual basis, the mail stratum is supplemented with larger, newly active single-location companies identified from a list provided by the Internal Revenue Service (IRS) and new manufacturing locations of multiunit companies identified from the Census Bureau's Company Organization Survey (COS).

For the 1994 survey, a new sample of approximately 58,000 individual establishments was selected from the mail stratum assembled from the 1992 census. Supplemental samples representing both 1993 and 1994 births (newly active establishments that were not included in the 1992 census) were also selected. Establishments selected for the sample are mailed an ASM survey questionnaire for each year through 1998.

The 1994-98 ASM sample design is similar to the one used since 1984. Companies in the 1992 Census of Manufactures with manufacturing shipments of at least \$500 million were defined as company certainties. For these large companies, each manufacturing establishment is included in the mail sample. For the 1994-98 sample, there are approximately 650 certainty companies collectively accounting for over 18,000 establishments.

For the remaining portion of the mail component of the survey, the establishment was defined as the sample unit. All establishments with 250 employees or more were defined as employment certainties. In addition, all establishments producing products in SIC 3571 (Electronic Computers) were defined as certainties. Across these three arbitrary certainty classes, there were approximately 25,000 establishments included in the sample with certainty. Collectively, these certainty establishments accounted for approximately 80 percent of the total value of shipments in the 1992 Census of Manufactures.

Smaller establishments in the remaining portion of the mail stratum were sampled with probabilities ranging from .02 to 1.00. The initial probabilities of selection assigned to these establishments were proportionate to a measure-of-size determined for each establishment. The measure-of-size was a function of the establishment's 1992 industry classification, its 1992 product class data, and the historical variability of the year-to-year estimates of the product class estimates. For each product class (1,755) and four-digit industry (459), a desired reliability

constraint was specified. Using a technique developed by Dr. James R. Chromy of the Research Triangle Institute, the initial establishment probabilities were optimized such that the expected sample satisfied all industry and product class reliability constraints while the sample size was minimized. This technique reduces the likelihood of selecting nonrepresentative samples for individual product classes or industries.

This method of assigning probabilities based on product class shipments is motivated by our primary desire to produce reliable estimates of both product class and industry shipments. The high correlation between shipments and employment, value-added, and other general statistics assures that these variables will also be well represented by the sample. The actual sample selection procedure uses an independent chance of selection method (Poisson sampling) which permits us to prevent small establishments from being selected in consecutive samples without introducing a bias into the survey estimates.

Nonmail component. The initial nonmail component of the survey was comprised of approximately 140,000 small, single-establishment companies that were tabulated as administrative records in the 1992 Census of Manufactures. The nonmail stratum is also supplemented annually using the list of newly active single-location companies provided by the Internal Revenue Service (IRS) and payroll cutoffs. Companies with payroll below the payroll cutoff are added to the nonmail stratum. For this portion of the population, sampling is not used. The data for this group are estimated based on selected information obtained annually from the administrative records of the IRS and Social Security Administration (SSA). This administrative information, which includes payroll, total employment, industry classification, and physical location, is obtained under conditions which safeguard the confidentiality of both tax and census records.

DESCRIPTION OF THE ASM ESTIMATING PROCEDURE

Most of the ASM estimates derived for the mail stratum are computed using a difference estimator. At the establishment level, there is a strong correlation between the current-year data values and the corresponding 1992 (base) data values. Therefore, within the mailed stratum, for each item at each level of aggregation, an estimate of the "difference" between the current year and the base year is computed from sample cases and added to the corresponding base-year values. For the 1993-1997 ASM estimates, the 1992 Census of Manufactures values serve as the base year. For the 1998 ASM, the base will be updated to be the 1997 Economic Census – Manufacturing.

Due to the positive year-to-year correlation, estimates derived using this methodology are generally more reliable than comparable estimates developed from the current sample data alone. Estimates for the capital expenditures variables are not generated using the difference

estimator because the year-to-year correlations are considerably weaker. The standard linear estimator is used for these variables.

For the nonmail stratum, estimates for payroll and employment are directly tabulated from the administrative-record data provided by IRS and SSA. Estimates of data other than payroll and employment are developed from industry averages. Although the nonmail stratum contains approximately 170,000 individual establishments in 1994, it accounts for less than 2 percent of the estimate for total value of shipments at the total manufacturing level.

Corresponding estimates for the mail and nonmail components are combined to produce the estimates included in this publication.

QUALIFICATIONS OF THE ASM DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sample lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the difference between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of estimates.

The particular sample selected for the ASM is one of many similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretically comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected ASM statistics in this report. They are represented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, complete-coverage value for specified percentages of all the possible samples).

The complete-coverage value would be included in the range:

From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.

From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.

From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown at 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during the Census Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

DATA FROM THE CURRENT INDUSTRIAL REPORTS (CIR)

The CIR program provides product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. When detail product data are collected in the CIR, they are not also collected in the census. However, the annual CIR data are included in the census Product Summary report.

The CIR program uses a unified data collection, processing, and publication system. The Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic

census – manufacturing. The economic census – manufacturing provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. While the CIR program includes both mandatory and voluntary surveys, the annual data are mandatory.

DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

Data for cost of materials and value of shipments include varying amounts of duplication, especially at higher levels of aggregation. This is because the products of one establishment may be the materials of another. The value added statistics avoid this duplication and are, for most purposes, the best measure for comparing the relative economic importance of industries and geographic areas.

VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS

The 1997 Economic Census – Manufacturing shows value of shipments data for industries and products. In the industry statistics tables and files, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in the products statistics tables and files represent the total value of all products shipped that are classified as primary to an industry regardless of the classification of the producing establishment.

Appendix D. Geographic Notes

PENNSYLVANIA

Ashland is in Columbia and Schuylkill Counties; it was erroneously reported as never being in Columbia County for the 1992 Economic Census.

Bethlehem is in Lehigh and Northampton Counties.

Ellwood City is in Beaver and Lawrence Counties.

Shippensburg is in Cumberland and Franklin Counties.

Telford is in Bucks and Montgomery Counties.

Trafford is in Allegheny and Westmoreland Counties.

Appendix E. Metropolitan Areas

PENNSYLVANIA

Allentown—Bethlehem—Easton, PA MSA

Carbon County, PA
Lehigh County, PA
Northampton County, PA

Altoona, PA MSA

Blair County, PA

Erie, PA MSA

Erie County, PA

Harrisburg—Lebanon—Carlisle, PA MSA

Cumberland County, PA
Dauphin County, PA
Lebanon County, PA
Perry County, PA

Johnstown, PA MSA

Cambria County, PA
Somerset County, PA

Lancaster, PA MSA

Lancaster County, PA

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 York—Northern New Jersey—Long Island, NY—NJ—CT—PA CMSA—Con.

Bridgeport, CT PMSA—Con.
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
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 York—Northern New Jersey—Long Island,
NY—NJ—CT—PA CMSA—Con.**

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

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

**New York—Northern New Jersey—Long Island,
NY—NJ—CT—PA CMSA—Con.**

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

Philadelphia, PA—NJ PMSA

Burlington County, NJ

Camden County, NJ

Gloucester County, NJ

Salem County, NJ

Bucks County, PA

Chester County, PA

Delaware County, PA

Montgomery County, PA

Philadelphia County, PA

**Philadelphia—Wilmington—Atlantic City,
PA—NJ—DE—MD CMSA**

Atlantic—Cape May, NJ PMSA

Atlantic County, NJ

Cape May County, NJ

**Philadelphia—Wilmington—Atlantic City,
PA—NJ—DE—MD CMSA—Con.**

Philadelphia, PA—NJ PMSA

Burlington County, NJ

Camden County, NJ

Gloucester County, NJ

Salem County, NJ

Bucks County, PA

Chester County, PA

Delaware County, PA

Montgomery County, PA

Philadelphia County, PA

Vineland—Millville—Bridgeton, NJ PMSA

Cumberland County, NJ

Wilmington—Newark, DE—MD PMSA

New Castle County, DE

Cecil County, MD

Pittsburgh, PA MSA

Allegheny County, PA

Beaver County, PA

Pittsburgh, PA MSA—Con.

Butler County, PA

Fayette County, PA

Washington County, PA

Westmoreland County, PA

Reading, PA MSA

Berks County, PA

Scranton—Wilkes-Barre—Hazleton, PA MSA

Columbia County, PA

Lackawanna County, PA

Luzerne County, PA

Wyoming County, PA

Sharon, PA MSA

Mercer County, PA

State College, PA MSA

Centre County, PA

Williamsport, PA MSA

Lycoming County, PA

York, PA MSA

York County, PA

