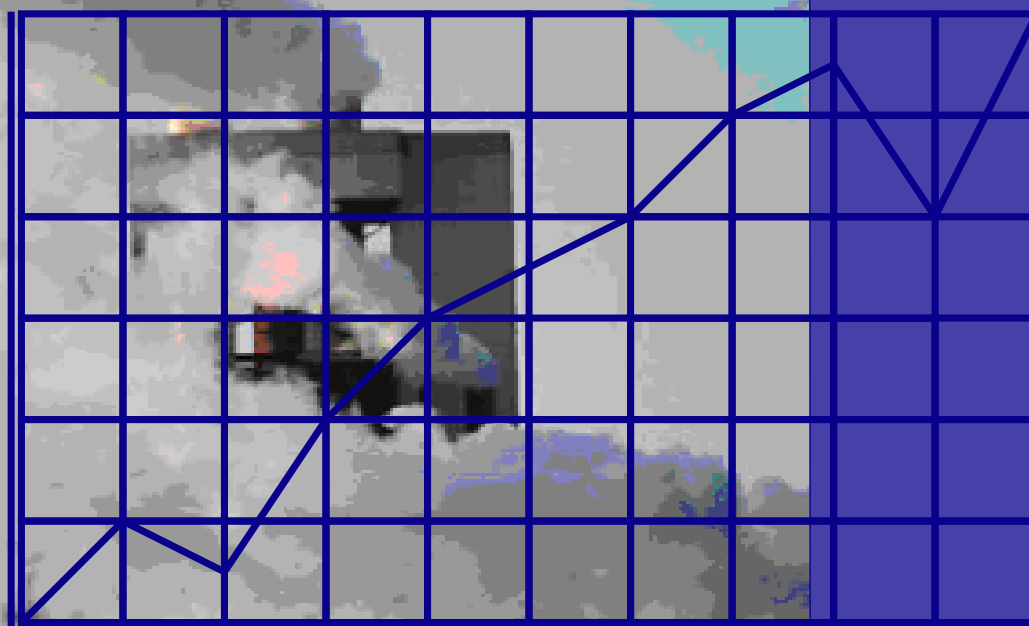


Statistics for Industry Groups and Industries: 2004

Issued December 2005

M04(AS)-1

Annual Survey of Manufactures



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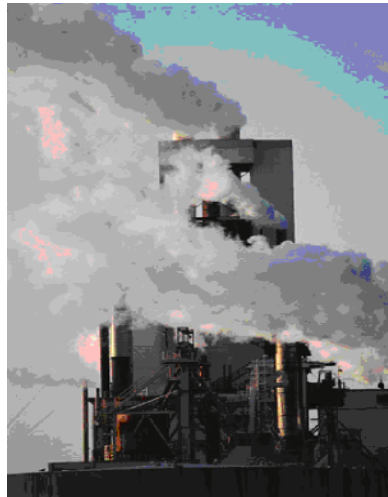
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CONTENTS

Introduction	v
Tables	
1. Statistics for All Manufacturing Establishments: 2004 and Earlier Years.....	1
2. Statistics for Industry Groups and Industries: 2004 and Earlier Years	2
3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years	34
4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years ...	60
5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years	91
6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year ..	118
7. Value of Shipments for Subsectors: 2004 and Earlier Years ...	155
Appendixes	
A. Explanation of Terms	A-1
B. NAICS Codes, Titles, and Descriptions	B-1
C. Methodology.....	C-1
D. Geographic Notes	--
E. Metropolitan and Micropolitan Statistical Areas	--
F. Comparability of NAICS Codes and NAICS-based Codes	F-1
-- Not applicable for this report.	

Introduction

SCOPE

The Annual Survey of Manufactures (ASM) provides sample estimates of statistics for all manufacturing establishments with one or more paid employees. The Manufacturing sector (sector 31-33) comprises establishments engaged in the mechanical, physical, or chemical transformation of materials, substances, or components into new products. The assembling of component parts of manufactured products is considered manufacturing, except in cases where the activity is appropriately classified in Sector 23, Construction. This report presents manufacturing establishment statistics from the 2004 ASM.

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 the North American Industry Classification System (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.

Exclusions. There are activities that are sometimes considered manufacturing, but for the North American Industry Classification System (NAICS) are classified in another sector. These activities include logging, classified in Sector 11, Agriculture, Forestry, Fishing and Hunting is considered a harvesting operation; the beneficiating of ores and other minerals, classified in Sector 21, Mining, is considered part of the activity of mining; the construction of structures and fabricating operations performed at the site of construction by contractors, is classified in Sector 23, Construction; establishments engaged in breaking of bulk and redistribution in smaller lots, including packaging, repackaging, or bottling products, such as liquors or chemicals; the customized assembly of computers; sorting of scrap; mixing paints to customer order; and cutting metals to customer order, classified in Sector 42, Wholesale Trade or Sector 44-45, Retail Trade, produce a modified version of the same product, not a new product; and publishing and the combined activity of publishing and printing, classified in Sector 51, Information, perform the transformation of information into a product where as the value of the product to the consumer lies in the information content, not in the format in which it is distributed (i.e., the book or software diskette).

The tabulations for this sector do not include central administrative offices, warehouses, or other establishments that serve manufacturing establishments within the same organization. Data for such establishments are classified according to the nature of the service they provide. For example, separate headquarters establishments are reported in NAICS Sector 55, Management of Companies and Enterprises.

The reports described below exclude establishments of firms with no paid employees. These “nonemployers” typically self-employed individuals or partnerships operating businesses that they have not chosen to incorporate, are reported separately in *Nonemployer Statistics*. The contribution of nonemployers, relatively small for this sector, may be examined at www.census.gov/nonemployerimpact.

Definitions. Terms are defined in Appendix A, Explanation of Terms.

REPORTS

The Annual Survey of Manufactures (ASM) consists of manufacturing establishment statistics from the 2004 ASM. Three reports are issued from this survey. Each of the following ASM reports provide sample estimates of statistics on all manufacturing establishments with one or more paid employees.

AS-1 — Statistics for Industry Groups and Industries. This report presents manufacturing establishments statistics for industry groups and industries from the Annual Survey of Manufactures (ASM). This ASM report presents 2004 through 2002 data at the three-through six-digit North American Industry Classification System (NAICS) levels. The 2003 data are from the 2003 ASM and include revisions made to the data since its initial release. This report also includes a historic table with data for the all-manufacturing level back to 1977. This report includes such statistics as number of establishments, employment, payroll, value added by manufacture, cost of materials consumed, detailed capital expenditures, supplemental labor costs, fuels and electric energy used, inventories by stage of fabrication, value of shipments, detailed miscellaneous receipts, and interplant transfers.

AS-2 — Value of Product Shipments. This report presents value of product shipments from the Annual Survey of Manufactures (ASM). This ASM report presents 2004 through 2002 shipments data for the 473 six-digit North American Industry Classification System (NAICS) product groups, 1,450 seven-digit NAICS product classes, and products primary to more than one industry.

AS-3 — Geographic Area Statistics. This report presents similar statistics at the “all manufacturing” level for the United States, each state, and the District of Columbia. This Annual Survey of Manufactures (ASM) report presents 2004 data at the three-digit North American Industry Classification System (NAICS) level for employment, payroll, value added by manufacture, cost of materials consumed, value of shipments, and total capital expenditures. Data for detailed capital expenditures, supplemental labor costs, fuels and electric energy used, and inventories by stage of fabrication are presented at the US and state levels.

Other reports. Data for this sector are also included in the 2002 Economic Census — Manufacturing and reports with multisector coverage, including *Nonemployer Statistics*, *Comparative Statistics*, *Bridge Between 2002 NAICS and 1997 NAICS*, *Business Expenses*, and the Survey of Business Owners reports.

GEOGRAPHIC AREAS COVERED

1. The United States as a whole.
2. States and the District of Columbia.

DOLLAR VALUES

All dollar values presented are expressed in current dollars; i.e., 2003 data are expressed in 2003 dollars. Consequently, when making comparisons with prior years, users of the data should consider the changes in prices that have occurred.

All dollar values are shown in thousands of dollars.

COMPARABILITY OF THE 2004 AND PRIOR YEARS ANNUAL SURVEY OF MANUFACTURES

The 2004 Annual Survey of Manufactures (ASM) and prior years ASM, present data based on the North American Industry Classification System (NAICS). While there were revisions to selected industries for the 2002 Economic Census, this sector was not affected by those revisions.

However for the historical data, the adoption of NAICS in the 1997 Economic Census — Manufacturing has had a major impact on the comparability of current and historic data. 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.

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 that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Another change resulting from the conversion to NAICS is that data for auxiliaries and central administrative offices (CAOs) associated with manufacturers are not presented with the manufacturing data.

It should also be noted that while the U.S. Census Bureau published “new capital expenditures” in the past, starting with the 1997 Economic Census — Manufacturing, it began publishing “total capital expenditures.” The historic data presented in this report have been adjusted to be consistent with the new policy.

For 2003, several additional data tables were added, which did not exist in prior years ASM. These tables for 2003 include value of shipments for industry groups and industries, and products primary to more than one industry. Also for the industry groups and industries table, a new industry grouping (NAICS five-digit) is published for certain industries.

RELIABILITY OF DATA

All data compiled for this sector are subject to sampling errors as well as nonsampling errors. Nonsampling errors can be attributed to many sources: inability to identify all cases in the actual universe; definition and classification difficulties; differences in the interpretation of questions; errors in recording or coding the data obtained; and other errors of collection, response, coverage, processing, and estimation for missing or misreported data.

No direct measurement of these effects has been obtained except for estimation for missing or misreported data, as by the percentages shown in the tables. Precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize the effects of nonsampling errors. More information on the reliability of the data is included in Appendix C, Methodology.

DISCLOSURE

In accordance with federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or company. However, the number of establishments in a specific industry or geographic area is not considered a disclosure; therefore, this information may be released even though other information is withheld. Techniques employed to limit disclosure are discussed at www.census.gov/epcd/ec02/disclosure.htm.

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

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

The U.S. Census Bureau conducts the Annual Survey of Manufactures (ASM) in each of the 4 years between the Economic Censuses, which is collected for years ending in 2 and 7. The ASM is a probability-based sample of approximately 55,000 establishments and collects many of the same industry statistics (including employment, payroll, value of shipments, etc.) as the Economic Census — Manufacturing. 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 sub-state geographic data. In addition to the Economic Census — Manufacturing, the Census Bureau conducts the Current Industrial Reports (CIR) program. The CIR program publishes selected detailed product statistics for selected manufacturing industries at the U.S. level annually and, in some cases, monthly and/or quarterly. The Census Bureau also conducts the monthly Manufacturers’ Shipments, Inventories, and Orders (M3) Program, which publishes detailed statistics for manufacturing industries at the U.S. level.

In addition, the County Business Patterns (CBP) program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county, and Statistics of U.S. Businesses provides annual statistics classified by the employment size of the enterprise, further classified by industry for the United States, and by broader categories for states and metropolitan areas.

CONTACTS FOR DATA USERS

Questions about these data may be directed to the U.S. Census Bureau, Manufacturing & Construction Division, Information Services Center, 301-763-4673 or ask.census.gov.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with these data:

A	Standard error of 100 percent or more
D	Withheld to avoid disclosing data of individual companies; data are included in higher level totals
N	Not available or not comparable
S	Withheld because estimates did not meet publication standards
X	Not applicable
f	950 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
r	Revised
nsk	Not specified by kind
-	Represents zero (page image/print only)

Table 1. Statistics for All Manufacturing Establishments: 2004 and Earlier Years

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

Year ¹	Establishments ²		All employees ³		Production workers			Value added ⁵ (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ⁶ (\$1,000)	Total capital expenditures ⁷ (\$1,000)
	Total	With 20 employees or more	Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
2004	N	N	13 404 292	569 413 966	9 357 120	19 277 358	331 881 342	2 031 438 811	2 247 844 770	4 265 784 041	115 112 783
2003	N	N	13 878 170	567 704 487	9 800 118	19 867 183	330 545 442	1 926 388 030	2 091 585 057	4 015 080 847	112 133 156
2002	350 735	108 650	14 664 850	575 112 493	10 319 607	20 430 601	336 397 474	1 888 050 250	2 023 312 870	3 914 623 710	125 466 651
2001	N	N	15 845 612	591 558 514	11 212 063	22 384 367	342 268 242	1 850 709 351	2 105 337 943	3 967 698 457	142 984 511
2000	N	N	16 651 904	617 211 426	11 943 646	23 954 395	363 380 819	1 973 622 421	2 245 839 293	4 208 582 047	154 478 902
1999	N	N	16 685 639	601 472 998	11 977 196	24 209 596	355 790 664	1 954 498 206	2 084 316 398	4 031 884 590	150 325 065
1998	N	N	16 944 977	586 957 735	12 189 519	24 582 584	348 953 570	1 891 265 885	2 018 054 521	3 899 809 755	152 708 100
1997	362 829	119 748	16 805 127	569 808 845	12 065 257	24 183 271	338 267 197	1 825 688 027	2 015 424 556	3 834 700 920	151 510 757
1996	N	N	17 326 300	560 518 300	12 167 800	25 010 500	324 495 800	1 749 661 900	1 975 362 100	3 715 428 200	146 467 500
1995	N	N	17 419 200	545 362 700	12 253 100	25 072 000	317 767 500	1 711 442 300	1 897 570 700	3 594 359 600	134 318 100
1994	N	N	17 059 400	522 565 700	11 947 100	24 560 100	304 663 000	1 605 980 000	1 752 735 100	3 348 019 200	118 664 700
1993	N	N	16 943 500	504 363 100	11 726 200	23 845 100	290 293 200	1 483 054 100	1 647 492 600	3 127 620 400	108 628 500
1992	370 912	118 967	16 948 900	494 108 900	11 640 900	23 563 100	281 538 200	1 424 699 700	1 571 773 500	3 004 722 800	110 643 800
1991	N	N	17 081 200	477 174 600	11 652 000	23 383 000	270 601 000	1 341 386 200	1 531 221 300	2 878 164 800	103 152 900
1990	N	N	17 796 200	480 223 500	12 232 700	24 463 300	275 208 400	1 346 970 100	1 574 617 300	2 912 228 500	106 462 800
1989	N	N	18 045 700	470 479 200	12 535 500	24 933 900	273 119 900	1 325 433 600	1 532 330 000	2 840 376 000	101 894 300
1988	N	N	17 989 600	453 309 400	12 438 700	24 815 400	265 147 100	1 269 313 000	1 444 500 900	2 695 432 300	84 706 100
1987	358 952	120 822	17 718 000	428 480 000	12 280 400	24 302 700	251 449 500	1 165 740 800	1 319 844 600	2 475 939 100	85 662 100
1986	N	N	17 086 800	402 466 700	11 765 400	23 178 200	236 599 400	1 035 437 400	1 217 608 600	2 260 314 600	80 795 100
1985	N	N	17 508 300	396 610 500	12 174 400	23 731 600	235 790 800	1 000 142 000	1 276 009 600	2 280 183 800	91 244 900
1984	N	N	17 854 900	384 921 500	12 572 800	24 637 100	231 783 900	983 227 700	1 288 413 600	2 253 429 300	80 659 900
1983	N	N	17 453 100	354 232 200	12 203 000	23 611 600	212 416 400	882 014 500	1 170 237 800	2 045 853 300	67 479 800
1982	348 385	117 959	17 818 100	341 406 200	12 400 600	23 538 300	204 787 200	824 117 700	1 130 142 700	1 960 205 800	77 045 700
1981	N	N	18 919 800	341 319 800	13 542 800	26 233 100	212 200 900	837 506 500	1 193 969 600	2 017 542 500	83 767 000
1980	N	N	19 311 400	316 494 500	13 900 100	26 745 700	198 164 000	773 831 300	1 093 567 600	1 852 668 300	74 624 600
1979	N	N	19 756 500	298 529 100	14 537 800	28 324 300	192 881 500	747 480 500	999 157 500	1 727 214 600	65 796 600
1978	N	N	19 239 400	271 540 900	14 228 700	27 676 500	176 416 800	657 412 000	877 424 700	1 522 937 300	58 346 000
1977	350 757	113 843	18 515 900	242 031 900	13 691 000	26 686 700	157 163 700	585 165 600	782 417 700	1 358 526 400	51 907 300

¹Statistics presented for years ending in 2 and 7 are census data. Interim years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM). Also, in census year 1997, collection and publication of census and subsequent ASM data changed from the Standard Industrial Classification (SIC) basis to the North American Industry Classification System (NAICS) basis. For a discussion of the impact of this change on the data, see introductory text.

²Includes establishments with payroll at any time during year. Beginning in census year 1997, auxiliary establishments associated with manufacturing companies are classified separately. For 1996 and earlier years, establishment counts for auxiliaries are included.

³Figures include employment and payroll data for employees at manufacturing establishments engaged in nonmanufacturing activities (such as distribution and construction). Beginning in census year 1997, auxiliary establishments associated with manufacturing companies are classified separately. For 1996 and earlier years, employment and payroll data for auxiliaries are included.

⁴Figures represent average number of production workers for the payroll period that includes the 12th of March, May, August, and November, plus other employees for the payroll period that includes the 12th of March.

⁵Beginning in 1982, all respondents were requested to report their inventories at cost or market prior to adjustment to LIFO cost. This is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, 1982 data for value added are not comparable to prior years.

⁶Data represent total value of shipments for most industries. For industries 311411, 311412, 311421, 311422, 311711, 311712, 311941, 311999, 312140, 312210, 312221, and 312229 value of production is shown. For industry 336611, value of work done is shown.

⁷Beginning in 1997, the data shown are for total capital expenditures (new and used). Prior to 1997, only data for new capital expenditures were shown in this table. For 1996 and earlier years, data have been adjusted to show total capital expenditures.

Note 1: Previous years' data may differ from that published in the 2003 Annual Survey of Manufactures (ASM) because of changes encountered in subsequent review of the 2004 ASM.

Note 2: The data in this table are based on the 2004 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The data in this table contain sampling errors and nonsampling errors. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
31-33	Manufacturing	2004.. 13 404 292	569 413 966	9 357 120	19 277 358	331 881 342	2 031 438 811	2 247 844 770	4 265 784 041	1	1
		2003.. 13 878 170	567 704 487	9 800 118	19 867 183	330 545 442	1 926 388 030	2 091 585 057	4 015 080 847	1	1
		2002.. 14 664 850	575 112 493	10 319 607	20 430 601	336 397 474	1 888 050 250	2 023 312 870	3 914 623 710	X	X
311	Food manufacturing	2004.. 1 448 130	46 562 503	1 097 473	2 249 744	31 234 868	223 432 740	288 359 887	511 450 172	1	1
		2003.. 1 471 151	45 901 859	1 122 358	2 282 401	30 742 180	211 618 793	272 596 719	483 225 641	1	1
		2002.. 1 505 737	45 472 595	1 139 700	2 282 034	30 269 652	203 304 455	255 409 426	458 073 651	X	X
3111	Animal food manufacturing	2004.. 43 339	1 741 258	28 301	60 166	1 034 542	12 473 864	19 402 661	31 866 641	2	1
		2003.. 46 273	1 783 544	31 042	66 109	1 058 490	10 587 236	18 045 617	28 335 129	2	5
		2002.. 46 974	1 759 231	31 106	64 113	1 033 123	10 567 535	17 530 444	27 985 648	X	X
31111	Animal food manufacturing	2004.. 43 339	1 741 258	28 301	60 166	1 034 542	12 473 864	19 402 661	31 866 641	2	1
		2003.. 46 273	1 783 544	31 042	66 109	1 058 490	10 587 236	18 045 617	28 335 129	2	5
		2002.. 46 974	1 759 231	31 106	64 113	1 033 123	10 567 535	17 530 444	27 985 648	X	X
311111	Dog and cat food manufacturing	2004.. 13 065	620 654	10 139	22 068	440 160	6 725 799	5 395 491	12 120 371	3	1
		2003.. 14 164	627 731	11 060	23 777	436 708	6 269 972	4 713 664	11 006 899	3	1
		2002.. 14 371	629 395	10 976	23 326	435 111	5 910 513	4 742 189	10 606 443	X	X
311119	Other animal food manufacturing	2004.. 30 274	1 120 604	18 162	38 098	594 381	5 748 065	14 007 170	19 746 270	2	3
		2003.. 32 109	1 155 812	19 982	42 331	621 782	4 317 264	13 331 953	17 328 240	2	13
		2002.. 32 603	1 129 836	20 130	40 787	598 012	4 657 022	12 788 255	17 379 205	X	X
3112	Grain and oilseed milling	2004.. 51 786	2 511 658	38 298	85 176	1 695 913	21 703 429	37 089 199	58 791 035	1	1
		2003.. 53 595	2 474 590	40 081	89 897	1 669 133	20 220 989	33 750 099	53 853 057	1	1
		2002.. 54 899	2 458 461	40 696	87 528	1 664 219	17 634 556	29 715 349	47 198 757	X	X
31121	Flour milling and malt manufacturing	2004.. 15 071	613 701	11 120	25 487	403 140	3 303 909	6 953 855	10 224 288	1	1
		2003.. 15 267	618 486	11 609	26 310	404 867	3 108 354	6 727 574	9 815 019	1	1
		2002.. 15 957	608 798	11 754	25 168	391 826	2 653 657	6 420 521	9 048 106	X	X
31121M	Flour milling and malt manufacturing	2004.. 15 071	613 701	11 120	25 487	403 140	3 303 909	6 953 855	10 224 288	1	1
		2003.. 15 267	618 486	11 609	26 310	404 867	3 108 354	6 727 574	9 815 019	1	1
		2002.. 15 957	608 798	11 754	25 168	391 826	2 653 657	6 420 521	9 048 106	X	X
31122	Starch and vegetable fats and oils manufacturing	2004.. 24 421	1 168 451	17 090	37 587	729 048	9 763 045	27 596 200	37 357 008	1	1
		2003.. 25 726	1 156 398	18 164	39 004	724 609	9 005 004	24 639 099	33 554 002	2	1
		2002.. 26 328	1 159 082	18 621	40 062	733 501	8 235 076	20 912 320	29 048 124	X	X
311221	Wet corn milling	2004.. 8 776	497 870	5 760	12 988	299 533	3 523 362	5 141 148	8 676 444	1	1
		2003.. 8 942	487 525	5 949	13 073	300 648	3 343 471	4 943 870	8 288 335	3	2
		2002.. 9 112	484 465	6 168	13 259	304 841	3 181 182	4 810 685	7 961 922	X	X
311225	Fats and oils refining and blending	2004.. 6 995	309 161	5 163	11 250	205 109	1 923 114	7 786 996	9 657 428	1	4
		2003.. 7 040	283 514	5 290	11 217	188 823	1 598 628	5 947 832	7 505 487	1	1
		2002.. 8 267	326 088	6 100	12 996	213 759	1 683 171	5 518 782	7 190 231	X	X
31122N	Soybean and other oilseed processing	2004.. 8 650	361 420	6 167	13 349	224 406	4 316 568	14 668 056	19 023 136	2	1
		2003.. 9 744	385 360	6 926	14 713	235 138	4 062 905	13 747 398	17 760 180	6	2
		2002.. 8 949	348 529	6 353	13 807	214 901	3 370 723	10 582 853	13 895 971	X	X
31123	Breakfast cereal manufacturing	2004.. 12 294	729 506	10 088	22 102	563 726	8 636 475	2 539 143	11 209 740	1	1
		2003.. 12 603	699 706	10 308	24 583	539 657	8 107 631	2 383 426	10 484 037	1	1
		2002.. 12 614	690 581	10 321	22 298	538 892	6 745 823	2 382 508	9 102 527	X	X
311230	Breakfast cereal manufacturing	2004.. 12 294	729 506	10 088	22 102	563 726	8 636 475	2 539 143	11 209 740	1	1
		2003.. 12 603	699 706	10 308	24 583	539 657	8 107 631	2 383 426	10 484 037	1	1
		2002.. 12 614	690 581	10 321	22 298	538 892	6 745 823	2 382 508	9 102 527	X	X
3113	Sugar and confectionery product manufacturing	2004.. 69 953	2 676 342	54 327	110 852	1 886 973	14 183 238	12 607 181	26 684 107	1	1
		2003.. 76 726	2 805 598	59 504	122 968	1 957 718	13 793 618	12 717 499	26 491 752	1	2
		2002.. 80 351	2 732 023	61 093	122 577	1 939 392	13 530 717	11 864 949	25 490 835	X	X
31131	Sugar manufacturing	2004.. 13 864	590 164	10 937	24 463	425 314	2 303 453	4 774 872	7 073 398	1	1
		2003.. 14 623	646 201	11 431	28 284	476 277	2 591 708	4 952 281	7 527 823	7	11
		2002.. 14 644	564 153	11 230	25 450	419 275	2 164 122	4 376 657	6 630 273	X	X
311313	Beet sugar manufacturing	2004.. 6 432	249 179	5 477	11 104	195 284	1 043 846	1 601 711	2 645 765	1	1
		2003.. 6 532	281 061	5 555	13 582	224 590	1 263 463	1 576 950	2 821 056	15	23
		2002.. 5 738	221 896	4 936	10 562	175 577	1 012 875	1 287 200	2 269 448	X	X
31131N	Sugar cane mills and refining	2004.. 7 432	340 986	5 460	13 359	230 030	1 259 607	3 173 161	4 427 633	1	2
		2003.. 8 091	365 140	5 876	14 702	251 687	1 328 246	3 375 331	4 706 767	1	2
		2002.. 8 906	342 257	6 294	14 888	243 698	1 151 247	3 089 457	4 360 825	X	X
31132	Chocolate and confectionery manufacturing from cacao beans	2004.. 8 308	372 797	6 778	13 793	275 962	1 743 836	2 396 558	4 075 139	1	1
		2003.. 8 999	372 625	7 336	14 967	274 608	1 437 546	2 573 000	4 017 150	1	8
		2002.. 8 789	378 456	7 101	14 773	290 149	1 903 829	2 187 510	4 078 568	X	X
311320	Chocolate and confectionery manufacturing from cacao beans	2004.. 8 308	372 797	6 778	13 793	275 962	1 743 836	2 396 558	4 075 139	1	1
		2003.. 8 999	372 625	7 336	14 967	274 608	1 437 546	2 573 000	4 017 150	1	8
		2002.. 8 789	378 456	7 101	14 773	290 149	1 903 829	2 187 510	4 078 568	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
		A	B	C	D	E	F	G	H	A	F
311	Food manufacturing—Con.										
3113	Sugar and confectionery product manufacturing—Con.										
31133	Confectionery manufacturing from purchased chocolate	2004.. 28 041	964 745	21 826	42 878	699 701	6 589 949	3 278 509	9 817 646	3	1
		2003.. 31 580	1 005 533	24 049	46 752	709 301	6 318 570	3 120 807	9 486 642	2	1
		2002.. 32 881	1 004 206	23 705	45 918	702 213	5 708 718	3 103 099	8 833 323	X	X
311330	Confectionery manufacturing from purchased chocolate	2004.. 28 041	964 745	21 826	42 878	699 701	6 589 949	3 278 509	9 817 646	3	1
		2003.. 31 580	1 005 533	24 049	46 752	709 301	6 318 570	3 120 807	9 486 642	2	1
		2002.. 32 881	1 004 206	23 705	45 918	702 213	5 708 718	3 103 099	8 833 323	X	X
31134	Nonchocolate confectionery manufacturing	2004.. 19 740	748 637	14 785	29 718	485 996	3 546 000	2 157 242	5 717 924	3	1
		2003.. 21 523	781 239	16 688	32 965	497 531	3 445 794	2 071 412	5 460 137	1	1
		2002.. 24 037	785 208	19 057	36 436	527 755	3 754 048	2 197 683	5 948 671	X	X
311340	Nonchocolate confectionery manufacturing	2004.. 19 740	748 637	14 785	29 718	485 996	3 546 000	2 157 242	5 717 924	3	1
		2003.. 21 523	781 239	16 688	32 965	497 531	3 445 794	2 071 412	5 460 137	1	1
		2002.. 24 037	785 208	19 057	36 436	527 755	3 754 048	2 197 683	5 948 671	X	X
3114	Fruit and vegetable preserving and specialty food manufacturing	2004.. 164 100	5 209 395	135 623	276 210	3 805 438	27 838 439	25 110 276	53 083 377	1	1
		2003.. 170 997	5 403 446	142 911	286 974	3 971 085	28 631 813	24 474 167	53 016 710	1	2
		2002.. 178 951	5 440 965	148 581	297 261	3 949 274	29 628 205	24 054 117	53 667 899	X	X
31141	Frozen food manufacturing	2004.. 83 546	2 450 876	70 101	139 630	1 828 994	11 410 064	10 316 816	21 724 869	2	1
		2003.. 86 859	2 536 488	73 162	144 787	1 879 619	11 832 689	10 131 232	21 959 918	1	1
		2002.. 90 389	2 517 029	76 098	151 495	1 873 930	12 020 657	9 844 172	21 834 659	X	X
31141M	Frozen food manufacturing	2004.. 83 546	2 450 876	70 101	139 630	1 828 994	11 410 064	10 316 816	21 724 869	2	1
		2003.. 86 859	2 536 488	73 162	144 787	1 879 619	11 832 689	10 131 232	21 959 918	1	1
		2002.. 90 389	2 517 029	76 098	151 495	1 873 930	12 020 657	9 844 172	21 834 659	X	X
31142	Fruit and vegetable canning, pickling, and drying	2004.. 80 554	2 758 519	65 522	136 580	1 976 444	16 428 376	14 793 460	31 358 508	2	2
		2003.. 84 138	2 866 958	69 749	142 186	2 091 466	16 799 124	14 342 935	31 056 792	3	3
		2002.. 88 562	2 923 936	72 483	145 766	2 075 344	17 607 548	14 209 945	31 833 240	X	X
31142M	Fruit and vegetable canning, pickling, and drying	2004.. 80 554	2 758 519	65 522	136 580	1 976 444	16 428 376	14 793 460	31 358 508	2	2
		2003.. 84 138	2 866 958	69 749	142 186	2 091 466	16 799 124	14 342 935	31 056 792	3	3
		2002.. 88 562	2 923 936	72 483	145 766	2 075 344	17 607 548	14 209 945	31 833 240	X	X
3115	Dairy product manufacturing	2004.. 125 602	5 063 239	86 890	181 219	3 168 951	24 422 459	48 751 558	73 037 644	1	1
		2003.. 129 588	5 013 575	88 917	188 998	3 157 834	22 686 255	45 177 305	67 786 704	1	1
		2002.. 129 682	4 860 690	87 745	179 260	2 977 962	22 285 973	43 984 811	66 143 822	X	X
31151	Dairy product (except frozen) manufacturing	2004.. 107 802	4 366 484	72 778	153 712	2 674 501	20 141 800	45 163 282	65 138 034	1	1
		2003.. 110 295	4 299 968	74 332	160 157	2 654 098	18 735 321	41 685 287	60 355 942	1	1
		2002.. 109 186	4 131 227	72 309	149 631	2 474 449	17 875 056	40 182 519	57 937 845	X	X
311513	Cheese manufacturing	2004.. 36 655	1 359 108	30 614	62 914	1 033 262	5 796 462	20 144 639	25 824 521	1	1
		2003.. 36 883	1 318 666	30 664	64 887	1 000 043	5 075 218	17 808 762	22 837 272	2	3
		2002.. 37 120	1 271 810	30 519	60 740	953 698	4 996 709	17 009 352	21 973 968	X	X
311514	Dry, condensed, and evaporated dairy product manufacturing	2004.. 13 109	603 918	9 053	19 496	377 869	4 513 652	5 114 940	9 678 326	1	1
		2003.. 14 186	612 222	9 835	21 702	395 519	4 371 862	4 995 620	9 377 025	4	3
		2002.. 13 901	598 025	9 598	20 757	375 138	4 242 248	5 208 274	9 470 187	X	X
31151N	Fluid milk and butter manufacturing	2004.. 58 038	2 403 458	33 112	71 303	1 263 370	9 831 687	19 903 704	29 635 186	1	2
		2003.. 59 226	2 369 080	33 834	73 569	1 258 536	9 288 241	18 880 905	28 141 645	1	2
		2002.. 58 165	2 261 392	32 192	68 134	1 145 613	8 636 099	17 964 893	26 493 690	X	X
31152	Ice cream and frozen dessert manufacturing	2004.. 17 799	696 755	14 112	27 506	494 449	4 280 659	3 588 275	7 899 610	2	1
		2003.. 19 293	713 607	14 584	28 841	503 736	3 950 934	3 492 018	7 430 762	2	1
		2002.. 20 496	729 463	15 436	29 629	503 513	4 410 917	3 802 292	8 205 977	X	X
311520	Ice cream and frozen dessert manufacturing	2004.. 17 799	696 755	14 112	27 506	494 449	4 280 659	3 588 275	7 899 610	2	1
		2003.. 19 293	713 607	14 584	28 841	503 736	3 950 934	3 492 018	7 430 762	2	1
		2002.. 20 496	729 463	15 436	29 629	503 513	4 410 917	3 802 292	8 205 977	X	X
3116	Animal slaughtering and processing	2004.. 493 376	13 176 138	422 357	905 266	10 160 435	47 810 695	95 394 092	143 146 901	2	1
		2003.. 494 003	12 680 651	425 218	891 424	9 751 112	43 900 444	90 764 191	134 418 657	1	1
		2002.. 505 345	12 634 004	435 083	903 930	9 774 415	40 599 008	82 505 322	122 852 747	X	X
31161	Animal slaughtering and processing	2004.. 493 376	13 176 138	422 357	905 266	10 160 435	47 810 695	95 394 092	143 146 901	2	1
		2003.. 494 003	12 680 651	425 218	891 424	9 751 112	43 900 444	90 764 191	134 418 657	1	1
		2002.. 505 345	12 634 004	435 083	903 930	9 774 415	40 599 008	82 505 322	122 852 747	X	X
311615	Poultry processing	2004.. 229 031	5 157 822	201 774	419 833	4 199 627	22 923 230	19 777 528	42 686 776	1	2
		2003.. 231 857	5 010 529	205 993	409 547	4 074 372	20 571 059	18 832 357	39 304 873	1	1
		2002.. 242 774	5 124 349	216 615	427 825	4 222 594	19 032 642	18 813 058	37 659 987	X	X
31161N	Animal (except poultry) slaughtering and processing	2004.. 264 345	8 018 316	220 583	485 432	5 960 808	24 887 465	75 616 563	100 460 125	3	2
		2003.. 262 146	7 670 123	219 226	481 878	5 676 739	23 329 385	71 931 834	95 113 784	1	1
		2002.. 262 571	7 509 655	218 468	476 105	5 551 821	21 566 366	63 692 264	85 192 760	X	X

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		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
		A	B	C	D	E				F	G
311	Food manufacturing—Con.										
3117	Seafood product preparation and packaging	2004.. 38 804	1 078 826	32 220	61 995	735 072	3 510 554	5 503 725	9 008 357	2	2
		2003.. 42 764	1 129 140	36 825	69 891	795 383	3 380 113	5 433 027	8 827 274	4	2
		2002.. 41 301	1 058 106	34 170	63 313	702 295	3 264 610	5 521 473	8 797 171	X	X
31171	Seafood product preparation and packaging	2004.. 38 804	1 078 826	32 220	61 995	735 072	3 510 554	5 503 725	9 008 357	2	2
		2003.. 42 764	1 129 140	36 825	69 891	795 383	3 380 113	5 433 027	8 827 274	4	2
		2002.. 41 301	1 058 106	34 170	63 313	702 295	3 264 610	5 521 473	8 797 171	X	X
31171M	Seafood product preparation and packaging	2004.. 38 804	1 078 826	32 220	61 995	735 072	3 510 554	5 503 725	9 008 357	2	2
		2003.. 42 764	1 129 140	36 825	69 891	795 383	3 380 113	5 433 027	8 827 274	4	2
		2002.. 41 301	1 058 106	34 170	63 313	702 295	3 264 610	5 521 473	8 797 171	X	X
3118	Bakeries and tortilla manufacturing	2004.. 286 814	8 992 717	174 740	323 592	5 042 631	34 097 870	17 515 912	51 632 802	1	2
		2003.. 294 581	8 969 186	177 776	327 625	4 909 307	32 174 376	16 827 063	48 916 323	1	1
		2002.. 307 765	9 246 308	185 314	340 328	5 046 674	32 104 360	17 045 828	49 062 387	X	X
31181	Bread and bakery product manufacturing	2004.. 225 430	6 825 980	127 114	229 608	3 552 789	20 958 417	10 349 021	31 252 527	2	2
		2003.. 230 207	6 724 911	125 653	227 778	3 377 338	19 128 301	9 887 568	28 981 587	2	2
		2002.. 239 823	6 947 056	131 991	235 449	3 459 386	20 746 411	10 220 634	30 943 119	X	X
31181M	Bread and bakery product manufacturing	2004.. 225 430	6 825 980	127 114	229 608	3 552 789	20 958 417	10 349 021	31 252 527	2	2
		2003.. 230 207	6 724 911	125 653	227 778	3 377 338	19 128 301	9 887 568	28 981 587	2	2
		2002.. 239 823	6 947 056	131 991	235 449	3 459 386	20 746 411	10 220 634	30 943 119	X	X
31182	Cookie, cracker, and pasta manufacturing	2004.. 49 397	1 856 177	37 932	76 992	1 267 402	11 916 810	6 450 976	18 444 784	1	3
		2003.. 51 651	1 940 837	41 442	79 899	1 305 400	11 966 016	6 339 805	18 284 206	2	1
		2002.. 55 348	1 989 643	42 799	86 144	1 356 841	10 386 980	6 262 980	16 587 001	X	X
31182M	Cookie, cracker, and pasta manufacturing	2004.. 49 397	1 856 177	37 932	76 992	1 267 402	11 916 810	6 450 976	18 444 784	1	3
		2003.. 51 651	1 940 837	41 442	79 899	1 305 400	11 966 016	6 339 805	18 284 206	2	1
		2002.. 55 348	1 989 643	42 799	86 144	1 356 841	10 386 980	6 262 980	16 587 001	X	X
31183	Tortilla manufacturing	2004.. 11 988	310 560	9 694	16 992	222 439	1 222 643	715 915	1 935 491	3	4
		2003.. 12 723	303 438	10 681	19 948	226 569	1 080 059	599 690	1 650 529	5	3
		2002.. 12 594	309 609	10 524	18 735	230 447	970 969	562 214	1 532 267	X	X
311830	Tortilla manufacturing	2004.. 11 988	310 560	9 694	16 992	222 439	1 222 643	715 915	1 935 491	3	4
		2003.. 12 723	303 438	10 681	19 948	226 569	1 080 059	599 690	1 650 529	5	3
		2002.. 12 594	309 609	10 524	18 735	230 447	970 969	562 214	1 532 267	X	X
3119	Other food manufacturing	2004.. 174 355	6 112 929	124 718	245 268	3 704 914	37 392 191	26 985 283	64 199 308	1	1
		2003.. 162 623	5 642 128	120 085	238 515	3 472 119	36 243 949	25 407 752	61 580 034	1	1
		2002.. 160 469	5 282 807	115 912	223 724	3 182 298	33 689 491	23 187 133	56 874 385	X	X
31191	Snack food manufacturing	2004.. 45 827	1 365 800	31 202	52 996	779 422	12 220 917	6 689 174	18 797 352	2	1
		2003.. 44 829	1 391 215	33 220	64 123	890 252	11 498 301	7 095 507	18 649 359	1	1
		2002.. 45 346	1 371 463	33 445	62 656	868 240	10 466 701	6 520 814	17 047 428	X	X
31191M	Snack food manufacturing	2004.. 45 827	1 365 800	31 202	52 996	779 422	12 220 917	6 689 174	18 797 352	2	1
		2003.. 44 829	1 391 215	33 220	64 123	890 252	11 498 301	7 095 507	18 649 359	1	1
		2002.. 45 346	1 371 463	33 445	62 656	868 240	10 466 701	6 520 814	17 047 428	X	X
31192	Coffee and tea manufacturing	2004.. 11 163	510 470	7 285	15 093	288 304	3 315 964	2 537 869	5 847 963	2	1
		2003.. 11 600	514 707	7 365	15 215	281 062	3 114 283	2 775 659	5 846 765	1	2
		2002.. 11 431	482 463	6 960	13 500	250 277	2 879 879	2 647 977	5 542 276	X	X
311920	Coffee and tea manufacturing	2004.. 11 163	510 470	7 285	15 093	288 304	3 315 964	2 537 869	5 847 963	2	1
		2003.. 11 600	514 707	7 365	15 215	281 062	3 114 283	2 775 659	5 846 765	1	2
		2002.. 11 431	482 463	6 960	13 500	250 277	2 879 879	2 647 977	5 542 276	X	X
31193	Flavoring syrup and concentrate manufacturing	2004.. 5 482	247 922	3 685	7 162	147 301	6 718 107	1 461 592	8 136 332	4	2
		2003.. 5 704	235 538	4 103	7 722	142 013	7 133 374	1 346 070	8 464 067	5	1
		2002.. 5 184	215 017	3 250	6 386	115 911	6 965 186	1 188 448	8 153 955	X	X
311930	Flavoring syrup and concentrate manufacturing	2004.. 5 482	247 922	3 685	7 162	147 301	6 718 107	1 461 592	8 136 332	4	2
		2003.. 5 704	235 538	4 103	7 722	142 013	7 133 374	1 346 070	8 464 067	5	1
		2002.. 5 184	215 017	3 250	6 386	115 911	6 965 186	1 188 448	8 153 955	X	X
31194	Seasoning and dressing manufacturing	2004.. 29 931	1 326 108	20 088	42 633	703 874	6 191 323	6 090 244	12 267 399	1	1
		2003.. 29 666	1 247 644	20 219	41 707	679 502	6 322 560	5 603 084	11 885 543	1	1
		2002.. 29 455	1 194 212	19 806	38 992	640 111	5 816 542	5 539 705	11 305 762	X	X
31194M	Seasoning and dressing manufacturing	2004.. 29 931	1 326 108	20 088	42 633	703 874	6 191 323	6 090 244	12 267 399	1	1
		2003.. 29 666	1 247 644	20 219	41 707	679 502	6 322 560	5 603 084	11 885 543	1	1
		2002.. 29 455	1 194 212	19 806	38 992	640 111	5 816 542	5 539 705	11 305 762	X	X
31199	All other food manufacturing	2004.. 81 951	2 662 629	62 459	127 384	1 786 014	8 945 879	10 206 405	19 150 263	1	1
		2003.. 70 824	2 253 024	55 177	109 749	1 479 290	8 175 431	8 587 432	16 734 300	2	1
		2002.. 69 053	2 019 652	52 451	102 190	1 307 759	7 561 183	7 290 189	14 824 964	X	X
31199M	All other food manufacturing	2004.. 81 951	2 662 629	62 459	127 384	1 786 014	8 945 879	10 206 405	19 150 263	1	1
		2003.. 70 824	2 253 024	55 177	109 749	1 479 290	8 175 431	8 587 432	16 734 300	2	1
		2002.. 69 053	2 019 652	52 451	102 190	1 307 759	7 561 183	7 290 189	14 824 964	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—		
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F	
												A
312	Beverage and tobacco product manufacturing	2004..	144 910	6 879 401	80 663	165 049	3 298 813	71 699 661	40 658 380	112 270 099	1	1
		2003..	148 482	6 883 857	84 573	173 913	3 403 036	71 075 237	37 919 953	108 806 338	2	1
		2002..	159 611	6 924 137	86 861	173 011	3 368 632	66 693 916	39 206 741	105 710 679	X	X
3121	Beverage manufacturing	2004..	122 966	5 589 248	64 325	133 180	2 536 051	38 258 844	35 284 431	73 457 399	1	1
		2003..	123 966	5 485 669	66 699	138 338	2 573 716	37 379 058	32 609 493	69 807 882	3	1
		2002..	134 568	5 523 470	69 738	139 029	2 539 435	32 898 698	33 400 034	66 097 271	X	X
31211	Soft drink and ice manufacturing	2004..	70 247	2 827 925	33 086	71 779	1 167 847	16 613 571	21 672 418	38 227 855	1	2
		2003..	70 570	2 736 123	33 901	72 928	1 153 923	15 534 268	20 016 114	35 530 948	4	3
		2002..	76 434	2 767 557	35 250	71 888	1 118 601	14 026 919	20 768 124	34 762 757	X	X
31211M	Soft drink and ice manufacturing	2004..	70 247	2 827 925	33 086	71 779	1 167 847	16 613 571	21 672 418	38 227 855	1	2
		2003..	70 570	2 736 123	33 901	72 928	1 153 923	15 534 268	20 016 114	35 530 948	4	3
		2002..	76 434	2 767 557	35 250	71 888	1 118 601	14 026 919	20 768 124	34 762 757	X	X
31212	Breweries	2004..	24 471	1 390 075	17 113	32 936	837 279	13 349 286	7 006 892	20 369 302	2	1
		2003..	24 960	1 446 838	18 040	35 833	837 311	13 594 746	6 816 183	20 406 507	1	1
		2002..	28 347	1 463 189	19 582	38 395	897 981	10 972 084	6 886 337	17 864 107	X	X
312120	Breweries	2004..	24 471	1 390 075	17 113	32 936	837 279	13 349 286	7 006 892	20 369 302	2	1
		2003..	24 960	1 446 838	18 040	35 833	837 311	13 594 746	6 816 183	20 406 507	1	1
		2002..	28 347	1 463 189	19 582	38 395	897 981	10 972 084	6 886 337	17 864 107	X	X
31213	Wineries	2004..	23 163	1 116 838	10 724	21 466	390 567	5 454 001	4 626 219	10 055 403	3	3
		2003..	23 116	1 051 228	11 210	22 042	4 958 667	4 254 159	9 158 206	2 2	2	
		2002..	24 182	1 039 303	11 204	21 180	386 545	5 197 127	4 341 745	9 413 154	X	X
312130	Wineries	2004..	23 163	1 116 838	10 724	21 466	390 567	5 454 001	4 626 219	10 055 403	3	3
		2003..	23 116	1 051 228	11 210	22 042	4 958 667	4 254 159	9 158 206	2 2	2	
		2002..	24 182	1 039 303	11 204	21 180	386 545	5 197 127	4 341 745	9 413 154	X	X
31214	Distilleries	2004..	5 085	254 410	3 401	6 998	140 358	2 841 987	1 978 903	4 804 839	1	2
		2003..	5 320	251 480	3 547	7 535	135 440	3 291 378	1 523 038	4 712 221	3	1
		2002..	5 605	253 421	3 702	7 566	136 308	2 702 568	1 403 828	4 057 253	X	X
312140	Distilleries	2004..	5 085	254 410	3 401	6 998	140 358	2 841 987	1 978 903	4 804 839	1	2
		2003..	5 320	251 480	3 547	7 535	135 440	3 291 378	1 523 038	4 712 221	3	1
		2002..	5 605	253 421	3 702	7 566	136 308	2 702 568	1 403 828	4 057 253	X	X
3122	Tobacco manufacturing	2004..	21 944	1 290 153	16 338	31 869	762 762	33 440 817	5 373 949	38 812 700	1	1
		2003..	24 516	1 398 187	17 875	35 575	829 320	33 696 179	5 310 460	38 998 456	1	1
		2002..	25 043	1 400 667	17 123	33 982	829 197	33 795 218	5 806 707	39 613 408	X	X
31221	Tobacco stemming and redrying	2004..	2 302	67 262	1 742	3 229	33 957	230 778	623 752	856 033	1	1
		2003..	2 549	75 006	1 929	3 862	42 275	187 663	784 115	962 602	1	1
		2002..	2 592	71 791	1 991	3 754	38 274	257 399	809 293	1 077 004	X	X
312210	Tobacco stemming and redrying	2004..	2 302	67 262	1 742	3 229	33 957	230 778	623 752	856 033	1	1
		2003..	2 549	75 006	1 929	3 862	42 275	187 663	784 115	962 602	1	1
		2002..	2 592	71 791	1 991	3 754	38 274	257 399	809 293	1 077 004	X	X
31222	Tobacco product manufacturing	2004..	19 642	1 222 891	14 596	28 640	728 805	33 210 039	4 750 197	37 956 667	1	1
		2003..	21 967	1 323 181	15 946	31 713	787 045	33 508 516	4 526 345	38 035 854	1	1
		2002..	22 451	1 328 876	15 132	30 228	790 923	33 537 819	4 997 414	38 536 404	X	X
31222M	Tobacco product manufacturing	2004..	19 642	1 222 891	14 596	28 640	728 805	33 210 039	4 750 197	37 956 667	1	1
		2003..	21 967	1 323 181	15 946	31 713	787 045	33 508 516	4 526 345	38 035 854	1	1
		2002..	22 451	1 328 876	15 132	30 228	790 923	33 537 819	4 997 414	38 536 404	X	X
313	Textile mills	2004..	215 714	6 632 439	181 092	375 728	4 934 494	16 276 188	23 742 054	40 257 714	1	1
		2003..	247 871	7 198 509	210 810	421 503	5 413 710	18 617 108	24 013 109	42 587 897	1	1
		2002..	268 394	7 649 865	226 943	454 967	5 638 284	18 976 642	26 207 179	45 492 432	X	X
3131	Fiber, yarn, and thread mills	2004..	51 875	1 419 607	46 472	100 232	1 182 683	3 571 169	7 150 154	10 735 459	2	1
		2003..	59 008	1 516 125	53 390	105 697	1 261 191	3 637 730	6 637 298	10 246 803	1	1
		2002..	62 338	1 603 804	55 883	112 335	1 304 655	3 608 535	6 932 277	10 630 053	X	X
31311	Fiber, yarn, and thread mills	2004..	51 875	1 419 607	46 472	100 232	1 182 683	3 571 169	7 150 154	10 735 459	2	1
		2003..	59 008	1 516 125	53 390	105 697	1 261 191	3 637 730	6 637 298	10 246 803	1	1
		2002..	62 338	1 603 804	55 883	112 335	1 304 655	3 608 535	6 932 277	10 630 053	X	X
31311M	Fiber, yarn, and thread mills	2004..	51 875	1 419 607	46 472	100 232	1 182 683	3 571 169	7 150 154	10 735 459	2	1
		2003..	59 008	1 516 125	53 390	105 697	1 261 191	3 637 730	6 637 298	10 246 803	1	1
		2002..	62 338	1 603 804	55 883	112 335	1 304 655	3 608 535	6 932 277	10 630 053	X	X
3132	Fabric mills	2004..	110 566	3 528 260	92 820	189 297	2 626 134	8 700 078	10 512 498	19 339 172	1	1
		2003..	129 558	3 902 080	109 970	218 039	2 923 589	10 305 201	10 775 983	21 090 447	1	1
		2002..	141 835	4 152 195	118 983	237 289	3 053 722	10 113 121	12 208 220	22 475 928	X	X
31321	Broadwoven fabric mills	2004..	60 455	1 748 071	52 398	103 960	1 371 300	4 065 312	5 260 170	9 332 361	1	1
		2003..	72 475	2 001 029	63 621	123 690	1 581 800	4 695 653	5 667 234	10 400 549	1	1
		2002..	81 071	2 251 153	70 417	140 092	1 762 298	5 085 509	6 224 835	11 408 319	X	X
313210	Broadwoven fabric mills	2004..	60 455	1 748 071	52 398	103 960	1 371 300	4 065 312	5 260 170	9 332 361	1	1
		2003..	72 475	2 001 029	63 621	123 690	1 581 800	4 695 653	5 667 234	10 400 549	1	1
		2002..	81 071	2 251 153	70 417	140 092	1 762 298	5 085 509	6 224 835	11 408 319	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
313	Textile mills—Con.										
3132	Fabric mills—Con.										
31322	Narrow fabric mills and schiffli machine embroidery	2004.. 11 484	354 063	9 148	19 023	225 144	809 567	556 109	1 379 138	3	3
		2003.. 12 859	364 538	10 456	21 142	245 342	791 963	534 567	1 330 665	1	3
		2002.. 14 283	376 826	11 490	22 697	252 646	785 742	602 599	1 396 950	X	X
31322M	Narrow fabric mills and schiffli machine embroidery.....	2004.. 11 484	354 063	9 148	19 023	225 144	809 567	556 109	1 379 138	3	3
		2003.. 12 859	364 538	10 456	21 142	245 342	791 963	534 567	1 330 665	1	3
		2002.. 14 283	376 826	11 490	22 697	252 646	785 742	602 599	1 396 950	X	X
31323	Nonwoven fabric mills	2004.. 20 039	882 706	15 887	34 035	641 616	2 531 092	3 048 439	5 658 541	1	1
		2003.. 21 044	889 187	16 358	33 785	625 765	3 314 321	2 651 510	5 914 984	2	1
		2002.. 21 720	857 228	16 423	33 204	562 076	2 660 417	3 288 402	5 921 838	X	X
313230	Nonwoven fabric mills	2004.. 20 039	882 706	15 887	34 035	641 616	2 531 092	3 048 439	5 658 541	1	1
		2003.. 21 044	889 187	16 358	33 785	625 765	3 314 321	2 651 510	5 914 984	2	1
		2002.. 21 720	857 228	16 423	33 204	562 076	2 660 417	3 288 402	5 921 838	X	X
31324	Knit fabric mills	2004.. 18 587	543 420	15 387	32 279	388 075	1 294 107	1 647 779	2 969 132	4	2
		2003.. 23 180	647 327	19 535	39 422	470 682	1 503 263	1 922 672	3 444 249	2	5
		2002.. 24 761	666 988	20 653	41 296	476 702	1 581 453	2 112 384	3 748 821	X	X
31324M	Knit fabric mills	2004.. 18 587	543 420	15 387	32 279	388 075	1 294 107	1 647 779	2 969 132	4	2
		2003.. 23 180	647 327	19 535	39 422	470 682	1 503 263	1 922 672	3 444 249	2	5
		2002.. 24 761	666 988	20 653	41 296	476 702	1 581 453	2 112 384	3 748 821	X	X
3133	Textile and fabric finishing and fabric coating mills	2004.. 53 273	1 684 573	41 801	86 200	1 125 676	4 004 941	6 079 402	10 183 083	2	3
		2003.. 59 305	1 780 304	47 449	97 768	1 228 930	4 674 178	6 599 828	11 250 647	1	3
		2002.. 64 221	1 893 866	52 077	105 343	1 279 907	5 254 986	7 066 682	12 386 451	X	X
31331	Textile and fabric finishing mills.....	2004.. 44 192	1 323 912	35 487	72 061	914 029	3 159 800	4 653 328	7 924 310	2	4
		2003.. 50 191	1 426 241	40 988	83 365	1 025 212	3 854 421	5 339 545	9 178 600	2	3
		2002.. 55 043	1 544 914	45 374	91 651	1 082 202	4 512 792	5 870 852	10 438 536	X	X
31331M	Textile and fabric finishing mills.....	2004.. 44 192	1 323 912	35 487	72 061	914 029	3 159 800	4 653 328	7 924 310	2	4
		2003.. 50 191	1 426 241	40 988	83 365	1 025 212	3 854 421	5 339 545	9 178 600	2	3
		2002.. 55 043	1 544 914	45 374	91 651	1 082 202	4 512 792	5 870 852	10 438 536	X	X
31332	Fabric coating mills	2004.. 9 081	360 661	6 314	14 139	211 648	845 141	1 426 074	2 258 772	3	4
		2003.. 9 114	354 063	6 461	14 403	203 717	819 757	1 260 833	2 072 047	2	3
		2002.. 9 178	348 952	6 703	13 692	197 705	742 194	1 195 830	1 947 915	X	X
313320	Fabric coating mills	2004.. 9 081	360 661	6 314	14 139	211 648	845 141	1 426 074	2 258 772	3	4
		2003.. 9 114	354 063	6 461	14 403	203 717	819 757	1 260 833	2 072 047	2	3
		2002.. 9 178	348 952	6 703	13 692	197 705	742 194	1 195 830	1 947 915	X	X
314	Textile product mills	2004.. 165 721	4 693 632	127 454	261 101	3 057 002	14 538 451	18 481 777	33 254 443	1	1
		2003.. 170 510	4 626 080	135 988	276 608	3 102 487	13 546 054	17 841 952	31 260 586	1	1
		2002.. 182 455	4 746 009	146 703	287 003	3 184 767	13 160 872	18 320 417	32 086 580	X	X
3141	Textile furnishings mills	2004.. 89 134	2 501 658	70 676	146 783	1 709 846	9 412 888	13 327 754	22 961 206	1	1
		2003.. 94 437	2 514 616	77 408	160 903	1 779 733	8 856 916	13 170 428	21 930 815	1	1
		2002.. 101 126	2 600 667	83 686	167 293	1 839 866	8 350 749	13 353 433	22 995 458	X	X
31411	Carpet and rug mills	2004.. 41 041	1 299 376	33 441	71 794	928 205	6 054 855	8 921 874	14 993 036	2	2
		2003.. 41 971	1 289 558	34 734	75 388	944 741	5 337 714	8 701 789	13 992 698	1	1
		2002.. 44 166	1 301 833	36 883	77 819	961 889	4 618 705	8 760 284	13 958 654	X	X
314110	Carpet and rug mills.....	2004.. 41 041	1 299 376	33 441	71 794	928 205	6 054 855	8 921 874	14 993 036	2	2
		2003.. 41 971	1 289 558	34 734	75 388	944 741	5 337 714	8 701 789	13 992 698	1	1
		2002.. 44 166	1 301 833	36 883	77 819	961 889	4 618 705	8 760 284	13 958 654	X	X
31412	Curtain and linen mills	2004.. 48 092	1 202 282	37 235	74 989	781 642	3 358 033	4 405 880	7 968 170	2	2
		2003.. 52 466	1 225 058	42 673	85 514	834 992	3 519 202	4 468 640	7 938 117	1	2
		2002.. 56 960	1 298 834	46 803	89 474	877 977	3 732 044	4 593 149	8 336 804	X	X
31412M	Curtain and linen mills	2004.. 48 092	1 202 282	37 235	74 989	781 642	3 358 033	4 405 880	7 968 170	2	2
		2003.. 52 466	1 225 058	42 673	85 514	834 992	3 519 202	4 468 640	7 938 117	1	2
		2002.. 56 960	1 298 834	46 803	89 474	877 977	3 732 044	4 593 149	8 336 804	X	X
3149	Other textile product mills	2004.. 76 587	2 191 974	56 778	114 318	1 347 155	5 125 563	5 154 024	10 293 236	2	2
		2003.. 76 073	2 111 464	58 580	115 706	1 322 754	4 689 138	4 671 523	9 329 771	2	4
		2002.. 81 329	2 145 342	63 017	119 710	1 344 901	4 810 123	4 966 984	9 791 122	X	X
31491	Textile bag and canvas mills	2004.. 26 216	751 428	19 411	38 710	428 354	1 617 089	1 550 509	3 177 401	3	4
		2003.. 25 621	696 830	19 535	36 997	399 915	1 346 310	1 235 032	2 551 899	2	3
		2002.. 25 206	678 096	19 271	35 355	399 303	1 372 735	1 150 302	2 519 760	X	X
31491M	Textile bag and canvas mills.....	2004.. 26 216	751 428	19 411	38 710	428 354	1 617 089	1 550 509	3 177 401	3	4
		2003.. 25 621	696 830	19 535	36 997	399 915	1 346 310	1 235 032	2 551 899	2	3
		2002.. 25 206	678 096	19 271	35 355	399 303	1 372 735	1 150 302	2 519 760	X	X
31499	All other textile product mills	2004.. 50 372	1 440 546	37 367	75 608	918 801	3 508 473	3 603 514	7 115 836	3	3
		2003.. 50 452	1 414 634	39 046	78 708	922 839	3 342 827	3 436 491	6 777 872	3	5
		2002.. 56 123	1 467 246	43 746	84 355	945 598	3 437 388	3 816 682	7 271 362	X	X
314991	Rope, cordage, and twine mills.....	2004.. 4 196	144 339	3 081	6 037	75 825	372 534	394 195	777 038	6	7
		2003.. 4 449	143 309	3 301	6 791	78 903	278 427	387 863	666 312	6	5
		2002.. 5 167	156 117	3 805	7 440	82 945	303 890	415 878	716 103	X	X
314992	Tire cord and tire fabric mills.....	2004.. 4 137	158 293	3 451	7 183	123 096	382 444	796 297	1 173 597	1	1
		2003.. 4 695	170 118	3 859	8 148	130 254	369 594	855 177	1 222 023	1	1
		2002.. 4 595	153 564	3 808	7 660	116 280	348 471	805 256	1 166 858	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
314	Textile product mills—Con.										
3149	Other textile product mills—Con.										
31499	All other textile product mills—Con.										
314999	All other miscellaneous textile product mills.....	2004.. 42 039	1 137 913	30 835	62 389	719 880	2 753 496	2 413 023	5 165 200	3	3
		2003.. 41 308	1 101 207	31 885	63 769	713 682	2 694 806	2 193 451	4 889 537	3	6
		2002.. 46 361	1 157 565	36 133	69 255	746 373	2 785 027	2 595 548	5 388 401	X	X
315	Apparel manufacturing	2004.. 254 598	5 937 138	195 448	371 075	3 690 374	16 763 499	16 451 949	33 495 296	1	1
		2003.. 294 645	6 629 981	233 197	438 545	4 203 344	19 606 318	19 164 301	38 668 387	1	1
		2002.. 337 513	7 350 432	269 495	488 441	4 666 366	20 374 467	21 341 954	41 935 931	X	X
3151	Apparel knitting mills	2004.. 35 917	868 018	29 646	57 693	631 730	2 089 548	2 090 310	4 360 763	4	3
		2003.. 43 027	1 042 730	35 915	73 288	758 762	2 518 773	2 534 972	5 049 935	1	4
		2002.. 50 660	1 170 420	42 433	82 322	853 496	2 838 560	3 058 641	5 959 865	X	X
31511	Hosiery and sock mills.....	2004.. 26 455	642 410	22 240	44 100	478 231	1 588 743	1 472 921	3 166 210	1	3
		2003.. 29 535	714 270	24 862	51 384	528 255	1 762 728	1 644 732	3 411 658	1	5
		2002.. 33 214	762 023	28 243	55 175	570 763	1 747 105	1 725 775	3 509 872	X	X
31511M	Hosiery and sock mills.....	2004.. 26 455	642 410	22 240	44 100	478 231	1 588 743	1 472 921	3 166 210	1	3
		2003.. 29 535	714 270	24 862	51 384	528 255	1 762 728	1 644 732	3 411 658	1	5
		2002.. 33 214	762 023	28 243	55 175	570 763	1 747 105	1 725 775	3 509 872	X	X
31519	Other apparel knitting mills	2004.. 9 462	225 608	7 406	13 594	153 500	500 805	617 389	1 194 554	14	9
		2003.. 13 492	328 459	11 052	21 905	230 508	756 045	890 240	1 638 277	3	2
		2002.. 17 446	408 397	14 190	27 147	282 733	1 091 455	1 332 866	2 449 993	X	X
31519M	Other apparel knitting mills	2004.. 9 462	225 608	7 406	13 594	153 500	500 805	617 389	1 194 554	14	9
		2003.. 13 492	328 459	11 052	21 905	230 508	756 045	890 240	1 638 277	3	2
		2002.. 17 446	408 397	14 190	27 147	282 733	1 091 455	1 332 866	2 449 993	X	X
3152	Cut and sew apparel manufacturing	2004.. 194 485	4 496 576	148 904	282 411	2 740 532	13 495 944	13 038 399	26 592 244	2	1
		2003.. 225 767	4 957 798	178 118	330 044	3 077 601	15 747 251	15 201 051	30 839 899	1	1
		2002.. 259 113	5 533 114	205 821	367 037	3 420 931	16 189 662	16 758 600	33 093 699	X	X
31521	Cut and sew apparel contractors.....	2004.. 77 546	1 362 471	66 131	122 266	1 019 721	2 383 008	841 131	3 207 689	4	3
		2003.. 86 583	1 364 083	77 519	139 908	1 084 258	2 272 009	680 137	2 960 403	2	3
		2002.. 98 837	1 532 312	88 794	151 766	1 224 018	2 699 238	744 933	3 453 301	X	X
31521M	Cut and sew apparel contractors.....	2004.. 77 546	1 362 471	66 131	122 266	1 019 721	2 383 008	841 131	3 207 689	4	3
		2003.. 86 583	1 364 083	77 519	139 908	1 084 258	2 272 009	680 137	2 960 403	2	3
		2002.. 98 837	1 532 312	88 794	151 766	1 224 018	2 699 238	744 933	3 453 301	X	X
31522	Men's and boys' cut and sew apparel manufacturing.....	2004.. 49 194	1 099 533	39 022	73 804	729 303	4 738 614	4 510 558	9 262 597	2	2
		2003.. 56 946	1 252 903	45 576	85 688	850 563	6 042 756	5 312 252	11 297 761	3	1
		2002.. 68 897	1 472 154	55 423	100 002	991 097	5 752 877	5 529 900	11 305 331	X	X
31522M	Men's and boys' cut and sew apparel manufacturing.....	2004.. 49 194	1 099 533	39 022	73 804	729 303	4 738 614	4 510 558	9 262 597	2	2
		2003.. 56 946	1 252 903	45 576	85 688	850 563	6 042 756	5 312 252	11 297 761	3	1
		2002.. 68 897	1 472 154	55 423	100 002	991 097	5 752 877	5 529 900	11 305 331	X	X
31523	Women's and girls' cut and sew apparel manufacturing.....	2004.. 52 585	1 673 178	33 106	65 113	786 446	5 523 401	7 077 990	12 677 209	2	2
		2003.. 64 734	1 941 830	42 173	80 081	904 976	6 502 918	8 605 601	15 056 642	1	1
		2002.. 72 602	2 126 319	47 674	88 886	968 907	6 830 537	9 782 375	16 716 075	X	X
31523M	Women's and girls' cut and sew apparel manufacturing.....	2004.. 52 585	1 673 178	33 106	65 113	786 446	5 523 401	7 077 990	12 677 209	2	2
		2003.. 64 734	1 941 830	42 173	80 081	904 976	6 502 918	8 605 601	15 056 642	1	1
		2002.. 72 602	2 126 319	47 674	88 886	968 907	6 830 537	9 782 375	16 716 075	X	X
31529	Other cut and sew apparel manufacturing	2004.. 15 161	361 394	10 645	21 229	205 063	850 921	608 720	1 444 749	3	3
		2003.. 17 504	398 983	12 850	24 366	237 804	929 568	603 061	1 525 093	3	3
		2002.. 18 777	402 329	13 930	26 383	236 909	907 010	701 392	1 618 992	X	X
31529M	Other cut and sew apparel manufacturing	2004.. 15 161	361 394	10 645	21 229	205 063	850 921	608 720	1 444 749	3	3
		2003.. 17 504	398 983	12 850	24 366	237 804	929 568	603 061	1 525 093	3	3
		2002.. 18 777	402 329	13 930	26 383	236 909	907 010	701 392	1 618 992	X	X
3159	Apparel accessories and other apparel manufacturing.....	2004.. 24 195	572 544	16 898	30 971	318 111	1 178 008	1 323 239	2 542 289	5	3
		2003.. 25 851	629 453	19 163	35 213	366 981	1 340 293	1 428 278	2 778 553	2	3
		2002.. 27 740	646 898	21 241	39 082	391 939	1 346 245	1 524 713	2 882 367	X	X
31599	Apparel accessories and other apparel manufacturing.....	2004.. 24 195	572 544	16 898	30 971	318 111	1 178 008	1 323 239	2 542 289	5	3
		2003.. 25 851	629 453	19 163	35 213	366 981	1 340 293	1 428 278	2 778 553	2	3
		2002.. 27 740	646 898	21 241	39 082	391 939	1 346 245	1 524 713	2 882 367	X	X
31599M	Apparel accessories and other apparel manufacturing	2004.. 24 195	572 544	16 898	30 971	318 111	1 178 008	1 323 239	2 542 289	5	3
		2003.. 25 851	629 453	19 163	35 213	366 981	1 340 293	1 428 278	2 778 553	2	3
		2002.. 27 740	646 898	21 241	39 082	391 939	1 346 245	1 524 713	2 882 367	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
316	Leather and allied product manufacturing	2004.. 38 690	1 096 891	29 960	56 658	665 747	2 717 044	3 013 798	5 756 974	1	1
		2003.. 40 284	1 103 751	31 800	60 597	678 465	2 888 316	2 880 296	5 784 384	1	2
		2002.. 44 354	1 158 287	35 165	66 134	726 823	2 839 614	2 991 775	5 909 051	X	X
3161	Leather and hide tanning and finishing	2004.. 6 995	235 516	5 428	10 547	158 475	636 391	1 183 234	1 836 332	1	1
		2003.. 7 871	257 977	6 196	12 131	179 514	680 732	1 174 055	1 854 962	1	2
		2002.. 8 837	280 689	7 096	13 664	198 740	712 655	1 167 234	1 910 582	X	X
31611	Leather and hide tanning and finishing	2004.. 6 995	235 516	5 428	10 547	158 475	636 391	1 183 234	1 836 332	1	1
		2003.. 7 871	257 977	6 196	12 131	179 514	680 732	1 174 055	1 854 962	1	2
		2002.. 8 837	280 689	7 096	13 664	198 740	712 655	1 167 234	1 910 582	X	X
316110	Leather and hide tanning and finishing	2004.. 6 995	235 516	5 428	10 547	158 475	636 391	1 183 234	1 836 332	1	1
		2003.. 7 871	257 977	6 196	12 131	179 514	680 732	1 174 055	1 854 962	1	2
		2002.. 8 837	280 689	7 096	13 664	198 740	712 655	1 167 234	1 910 582	X	X
3162	Footwear manufacturing	2004.. 17 263	463 888	14 117	26 500	288 888	1 002 751	987 153	2 018 802	1	1
		2003.. 17 530	462 267	14 225	27 396	292 407	1 153 728	1 040 290	2 212 295	2	5
		2002.. 19 280	485 668	15 594	29 559	307 284	1 101 366	1 155 917	2 302 650	X	X
31621	Footwear manufacturing	2004.. 17 263	463 888	14 117	26 500	288 888	1 002 751	987 153	2 018 802	1	1
		2003.. 17 530	462 267	14 225	27 396	292 407	1 153 728	1 040 290	2 212 295	2	5
		2002.. 19 280	485 668	15 594	29 559	307 284	1 101 366	1 155 917	2 302 650	X	X
31621M	Footwear manufacturing	2004.. 17 263	463 888	14 117	26 500	288 888	1 002 751	987 153	2 018 802	1	1
		2003.. 17 530	462 267	14 225	27 396	292 407	1 153 728	1 040 290	2 212 295	2	5
		2002.. 19 280	485 668	15 594	29 559	307 284	1 101 366	1 155 917	2 302 650	X	X
3169	Other leather and allied product manufacturing	2004.. 14 431	397 487	10 415	19 611	218 385	1 077 903	843 410	1 901 840	3	2
		2003.. 14 883	383 507	11 379	21 070	206 544	1 053 855	665 952	1 717 127	2	2
		2002.. 16 237	391 930	12 475	22 911	220 799	1 025 593	668 624	1 695 819	X	X
31699	Other leather and allied product manufacturing	2004.. 14 431	397 487	10 415	19 611	218 385	1 077 903	843 410	1 901 840	3	2
		2003.. 14 883	383 507	11 379	21 070	206 544	1 053 855	665 952	1 717 127	2	2
		2002.. 16 237	391 930	12 475	22 911	220 799	1 025 593	668 624	1 695 819	X	X
31699M	Other leather and allied product manufacturing	2004.. 14 431	397 487	10 415	19 611	218 385	1 077 903	843 410	1 901 840	3	2
		2003.. 14 883	383 507	11 379	21 070	206 544	1 053 855	665 952	1 717 127	2	2
		2002.. 16 237	391 930	12 475	22 911	220 799	1 025 593	668 624	1 695 819	X	X
321	Wood product manufacturing	2004.. 535 246	17 038 832	428 231	913 721	12 168 534	43 662 261	60 264 689	103 420 207	1	1
		2003.. 514 236	15 705 716	421 966	863 065	11 354 395	37 080 310	55 073 356	92 119 490	1	1
		2002.. 540 346	16 053 153	442 005	877 082	11 559 860	35 147 091	54 011 330	89 071 842	X	X
3211	Sawmills and wood preservation	2004.. 105 538	3 682 963	88 297	197 362	2 863 111	10 861 499	19 594 286	30 227 436	1	2
		2003.. 104 186	3 462 835	89 352	191 379	2 729 519	8 476 511	18 382 755	26 818 934	2	2
		2002.. 108 066	3 496 709	92 201	192 395	2 748 302	7 770 131	18 064 298	25 926 116	X	X
32111	Sawmills and wood preservation	2004.. 105 538	3 682 963	88 297	197 362	2 863 111	10 861 499	19 594 286	30 227 436	1	2
		2003.. 104 186	3 462 835	89 352	191 379	2 729 519	8 476 511	18 382 755	26 818 934	2	2
		2002.. 108 066	3 496 709	92 201	192 395	2 748 302	7 770 131	18 064 298	25 926 116	X	X
32111M	Sawmills and wood preservation	2004.. 105 538	3 682 963	88 297	197 362	2 863 111	10 861 499	19 594 286	30 227 436	1	2
		2003.. 104 186	3 462 835	89 352	191 379	2 729 519	8 476 511	18 382 755	26 818 934	2	2
		2002.. 108 066	3 496 709	92 201	192 395	2 748 302	7 770 131	18 064 298	25 926 116	X	X
3212	Veneer, plywood, and engineered wood product manufacturing	2004.. 110 839	3 869 717	89 064	195 653	2 777 849	10 783 009	13 860 003	24 580 512	1	1
		2003.. 110 897	3 659 663	89 941	194 272	2 627 194	9 013 674	12 648 432	21 725 563	1	1
		2002.. 114 255	3 679 908	93 390	194 081	2 667 369	8 083 979	12 155 870	20 195 136	X	X
32121	Veneer, plywood, and engineered wood product manufacturing	2004.. 110 839	3 869 717	89 064	195 653	2 777 849	10 783 009	13 860 003	24 580 512	1	1
		2003.. 110 897	3 659 663	89 941	194 272	2 627 194	9 013 674	12 648 432	21 725 563	1	1
		2002.. 114 255	3 679 908	93 390	194 081	2 667 369	8 083 979	12 155 870	20 195 136	X	X
321219	Reconstituted wood product manufacturing	2004.. 20 588	839 095	16 410	36 269	611 678	4 109 939	3 672 198	7 760 996	2	1
		2003.. 21 076	803 600	17 198	36 774	584 638	3 048 569	3 605 465	6 685 759	1	2
		2002.. 22 539	830 494	18 145	37 537	604 150	2 506 342	3 336 047	5 828 833	X	X
32121N	Veneer and plywood manufacturing	2004.. 38 652	1 352 297	34 291	76 378	1 117 193	3 299 855	5 310 335	8 591 207	2	2
		2003.. 40 799	1 318 275	36 114	79 488	1 078 403	2 753 668	5 105 502	7 898 872	2	2
		2002.. 44 262	1 424 790	39 381	83 814	1 170 909	2 565 895	5 284 999	7 825 124	X	X
32121P	Engineered wood product manufacturing	2004.. 51 599	1 678 325	38 364	83 006	1 048 978	3 373 215	4 877 470	8 228 309	2	2
		2003.. 49 021	1 537 788	36 628	78 009	964 153	3 211 437	3 937 464	7 140 932	2	2
		2002.. 47 454	1 424 624	35 864	72 730	892 310	3 011 742	3 534 824	6 541 179	X	X
3219	Other wood product manufacturing	2004.. 318 869	9 486 152	250 871	520 706	6 527 575	22 017 753	26 810 399	48 612 260	1	1
		2003.. 299 153	8 583 218	242 674	477 415	5 997 682	19 590 125	24 042 169	43 574 993	1	2
		2002.. 318 025	8 876 536	256 414	490 606	6 144 189	19 292 981	23 791 162	42 950 590	X	X
32191	Millwork	2004.. 157 781	4 926 609	124 819	266 987	3 444 167	11 705 991	15 656 639	27 190 479	1	2
		2003.. 148 971	4 401 322	121 987	240 790	3 120 015	10 262 442	13 760 765	24 019 942	2	2
		2002.. 151 335	4 420 217	122 120	236 331	3 074 638	9 567 619	13 096 018	22 575 937	X	X
32191M	Millwork	2004.. 157 781	4 926 609	124 819	266 987	3 444 167	11 705 991	15 656 639	27 190 479	1	2
		2003.. 148 971	4 401 322	121 987	240 790	3 120 015	10 262 442	13 760 765	24 019 942	2	2
		2002.. 151 335	4 420 217	122 120	236 331	3 074 638	9 567 619	13 096 018	22 575 937	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
321	Wood product manufacturing—Con.										
3219	Other wood product manufacturing—Con.										
32192	Wood container and pallet manufacturing	2004.. 50 170	1 202 780	39 539	82 053	840 295	2 505 129	2 863 358	5 378 131	3	4
		2003.. 46 546	1 120 226	38 842	78 347	823 897	2 356 605	2 628 098	4 963 200	2	3
		2002.. 50 921	1 153 747	42 708	80 521	838 565	2 405 697	2 671 559	5 054 000	X	X
321920	Wood container and pallet manufacturing	2004.. 50 170	1 202 780	39 539	82 053	840 295	2 505 129	2 863 358	5 378 131	3	4
		2003.. 46 546	1 120 226	38 842	78 347	823 897	2 356 605	2 628 098	4 963 200	2	3
		2002.. 50 921	1 153 747	42 708	80 521	838 565	2 405 697	2 671 559	5 054 000	X	X
32199	All other wood product manufacturing	2004.. 110 918	3 356 764	86 512	171 667	2 243 113	7 806 634	8 290 402	16 043 650	1	1
		2003.. 103 636	3 061 670	81 844	158 278	2 053 771	6 971 079	7 653 306	14 591 851	2	3
		2002.. 115 769	3 302 572	91 586	173 754	2 230 986	7 319 665	8 023 585	15 320 653	X	X
321991	Manufactured home (mobile home) manufacturing	2004.. 47 483	1 342 119	38 087	72 617	931 978	2 759 416	3 581 870	6 326 303	1	1
		2003.. 42 766	1 251 069	34 434	65 548	853 325	2 557 249	3 370 208	5 915 097	1	1
		2002.. 50 277	1 421 340	40 488	75 639	963 854	2 861 012	3 865 032	6 726 900	X	X
321992	Prefabricated wood building manufacturing	2004.. 24 731	891 594	17 787	36 838	525 889	1 929 243	2 283 059	4 196 509	3	3
		2003.. 23 138	768 176	16 263	32 286	437 307	1 674 675	2 124 769	3 773 167	6	11
		2002.. 25 279	786 641	18 506	36 408	464 709	1 796 523	1 949 393	3 740 620	X	X
321999	All other miscellaneous wood product manufacturing	2004.. 38 704	1 123 050	30 638	62 212	785 245	3 117 975	2 425 473	5 520 838	3	2
		2003.. 37 733	1 042 424	31 147	60 444	763 139	2 739 154	2 158 329	4 903 587	3	3
		2002.. 40 213	1 094 591	32 592	61 707	802 423	2 662 130	2 209 160	4 853 133	X	X
322	Paper manufacturing	2004.. 439 989	20 561 103	340 366	735 476	14 151 851	74 016 102	80 087 054	153 969 038	1	1
		2003.. 465 894	20 918 768	361 425	759 280	14 415 129	73 023 701	77 855 824	151 093 714	1	1
		2002.. 491 428	21 491 676	376 676	782 073	14 653 068	75 586 540	78 236 083	153 749 276	X	X
3221	Pulp, paper, and paperboard mills	2004.. 137 044	8 120 833	109 080	235 813	6 054 365	37 026 494	33 425 674	70 505 085	1	1
		2003.. 148 037	8 469 137	117 850	251 233	6 317 684	35 925 211	32 380 039	68 290 433	1	1
		2002.. 158 333	8 842 326	123 423	259 392	6 499 069	38 053 614	32 069 824	69 940 981	X	X
32211	Pulp mills	2004.. 7 686	491 515	5 943	12 990	358 627	1 869 379	2 180 246	4 099 358	1	1
		2003.. 8 058	490 639	6 305	13 264	356 833	1 659 873	2 207 950	3 890 181	1	1
		2002.. 8 043	487 086	6 136	13 143	346 517	1 736 798	1 924 281	3 650 916	X	X
322110	Pulp mills	2004.. 7 686	491 515	5 943	12 990	358 627	1 869 379	2 180 246	4 099 358	1	1
		2003.. 8 058	490 639	6 305	13 264	356 833	1 659 873	2 207 950	3 890 181	1	1
		2002.. 8 043	487 086	6 136	13 143	346 517	1 736 798	1 924 281	3 650 916	X	X
32212	Paper mills	2004.. 89 712	5 290 116	71 872	155 610	4 002 707	24 817 281	20 582 375	45 433 635	1	1
		2003.. 96 979	5 522 393	77 584	163 475	4 173 708	24 050 993	20 131 766	44 092 039	1	1
		2002.. 102 458	5 697 613	80 310	168 099	4 224 411	25 497 054	19 811 862	45 155 817	X	X
32212M	Paper and newsprint mills	2004.. 89 712	5 290 116	71 872	155 610	4 002 707	24 817 281	20 582 375	45 433 635	1	1
		2003.. 96 979	5 522 393	77 584	163 475	4 173 708	24 050 993	20 131 766	44 092 039	1	1
		2002.. 102 458	5 697 613	80 310	168 099	4 224 411	25 497 054	19 811 862	45 155 817	X	X
32213	Paperboard mills	2004.. 39 646	2 339 202	31 266	67 212	1 693 031	10 339 835	10 663 053	20 972 092	1	1
		2003.. 43 000	2 456 105	33 962	74 494	1 787 143	10 214 345	10 040 322	20 308 213	1	1
		2002.. 47 832	2 657 627	36 977	78 150	1 928 141	10 819 762	10 333 681	21 134 248	X	X
322130	Paperboard mills	2004.. 39 646	2 339 202	31 266	67 212	1 693 031	10 339 835	10 663 053	20 972 092	1	1
		2003.. 43 000	2 456 105	33 962	74 494	1 787 143	10 214 345	10 040 322	20 308 213	1	1
		2002.. 47 832	2 657 627	36 977	78 150	1 928 141	10 819 762	10 333 681	21 134 248	X	X
3222	Converted paper product manufacturing	2004.. 302 945	12 440 270	231 286	499 664	8 097 486	36 989 608	46 661 379	83 463 953	1	1
		2003.. 317 857	12 449 631	243 574	508 047	8 097 445	37 098 490	45 475 785	82 803 281	1	1
		2002.. 333 095	12 649 350	253 253	522 681	8 153 999	37 532 926	46 166 259	83 808 295	X	X
32221	Paperboard container manufacturing	2004.. 169 327	7 026 889	128 923	284 387	4 514 109	18 085 562	26 483 352	44 443 993	1	1
		2003.. 178 032	6 990 719	136 310	287 972	4 492 627	17 569 884	25 687 453	43 435 890	1	1
		2002.. 185 053	7 097 102	140 657	293 299	4 516 285	17 483 210	26 072 141	43 530 631	X	X
32221M	Paperboard container manufacturing	2004.. 169 327	7 026 889	128 923	284 387	4 514 109	18 085 562	26 483 352	44 443 993	1	1
		2003.. 178 032	6 990 719	136 310	287 972	4 492 627	17 569 884	25 687 453	43 435 890	1	1
		2002.. 185 053	7 097 102	140 657	293 299	4 516 285	17 483 210	26 072 141	43 530 631	X	X
32222	Paper bag and coated and treated paper manufacturing	2004.. 61 057	2 619 380	45 391	97 576	1 661 776	8 376 709	10 056 060	18 400 588	1	1
		2003.. 64 649	2 645 410	48 149	99 147	1 677 472	8 661 803	9 674 286	18 332 946	1	1
		2002.. 66 666	2 654 210	48 858	100 778	1 654 686	8 366 462	9 890 659	18 327 576	X	X
32222N	Coated and laminated paper and packaging manufacturing	2004.. 39 070	1 780 470	27 833	59 345	1 081 240	6 286 346	7 013 842	13 285 236	1	1
		2003.. 41 708	1 806 338	29 833	60 685	1 105 137	6 522 330	6 549 048	13 087 976	1	1
		2002.. 43 334	1 813 472	30 244	61 699	1 078 064	6 284 011	6 835 613	13 151 708	X	X
32222P	Coated, uncoated, and multiwall bag and packaging manufacturing	2004.. 21 987	838 910	17 558	38 231	580 536	2 090 363	3 042 218	5 115 351	2	2
		2003.. 22 941	839 073	18 316	38 462	572 335	2 139 473	3 125 237	5 244 970	1	1
		2002.. 23 332	840 738	18 614	39 079	576 622	2 082 451	3 055 046	5 175 868	X	X

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		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
322	Paper manufacturing—Con.										
3222	Converted paper product manufacturing—Con.										
32223	Stationery product manufacturing	2004.. 35 647	1 294 685	27 754	56 975	866 215	3 232 528	4 420 950	7 676 986	1	2
		2003.. 36 554	1 286 088	28 683	59 186	863 518	3 275 021	4 406 834	7 666 850	1	1
		2002.. 38 591	1 297 402	30 226	61 170	888 316	3 364 048	4 547 298	7 977 650	X	X
32223M	Stationery product manufacturing	2004.. 35 647	1 294 685	27 754	56 975	866 215	3 232 528	4 420 950	7 676 986	1	2
		2003.. 36 554	1 286 088	28 683	59 186	863 518	3 275 021	4 406 834	7 666 850	1	1
		2002.. 38 591	1 297 402	30 226	61 170	888 316	3 364 048	4 547 298	7 977 650	X	X
32229	Other converted paper product manufacturing	2004.. 36 913	1 499 316	29 218	60 726	1 055 386	7 294 810	5 701 017	12 942 386	1	1
		2003.. 38 622	1 527 414	30 433	61 743	1 063 828	7 591 782	5 707 213	13 367 594	1	1
		2002.. 42 785	1 600 636	33 512	67 434	1 094 712	8 319 206	5 656 161	13 972 438	X	X
322291	Sanitary paper product manufacturing	2004.. 16 450	766 303	13 177	28 620	571 938	4 957 598	3 461 197	8 392 148	2	1
		2003.. 18 324	826 886	14 543	30 881	614 940	5 475 017	3 617 320	9 142 527	1	1
		2002.. 20 053	843 966	15 851	32 421	617 681	6 008 981	3 525 488	9 542 802	X	X
322299	All other converted paper product manufacturing	2004.. 20 464	733 013	16 041	32 106	483 448	2 337 212	2 239 819	4 550 238	2	2
		2003.. 20 298	700 529	15 889	30 862	448 888	2 116 765	2 089 893	4 225 067	3	2
		2002.. 22 732	756 670	17 661	35 013	477 031	2 310 225	2 130 673	4 429 636	X	X
323	Printing and related support activities	2004.. 658 876	24 789 014	465 197	908 258	15 390 206	57 250 345	36 112 413	93 193 054	1	1
		2003.. 676 142	25 128 762	489 305	943 044	15 556 613	56 871 529	35 732 667	92 663 126	1	1
		2002.. 715 435	25 620 372	513 584	969 146	15 901 985	58 992 151	36 565 708	95 603 275	X	X
3231	Printing and related support activities	2004.. 658 876	24 789 014	465 197	908 258	15 390 206	57 250 345	36 112 413	93 193 054	1	1
		2003.. 676 142	25 128 762	489 305	943 044	15 556 613	56 871 529	35 732 667	92 663 126	1	1
		2002.. 715 435	25 620 372	513 584	969 146	15 901 985	58 992 151	36 565 708	95 603 275	X	X
32311	Printing	2004.. 607 933	22 820 736	427 345	832 833	14 139 679	53 313 888	34 907 060	88 046 135	1	1
		2003.. 620 427	23 056 973	446 900	862 557	14 230 247	52 890 248	34 582 424	87 545 927	1	1
		2002.. 659 511	23 502 638	471 433	888 661	14 548 602	54 834 206	35 367 646	90 253 596	X	X
32311M	Printing	2004.. 607 933	22 820 736	427 345	832 833	14 139 679	53 313 888	34 907 060	88 046 135	1	1
		2003.. 620 427	23 056 973	446 900	862 557	14 230 247	52 890 248	34 582 424	87 545 927	1	1
		2002.. 659 511	23 502 638	471 433	888 661	14 548 602	54 834 206	35 367 646	90 253 596	X	X
32312	Support activities for printing	2004.. 50 944	1 968 278	37 852	75 425	1 250 527	3 936 457	1 205 353	5 146 919	2	2
		2003.. 55 715	2 071 789	42 405	80 487	1 326 366	3 981 281	1 150 243	5 117 199	5	4
		2002.. 55 924	2 117 734	42 151	80 485	1 353 383	4 157 945	1 198 062	5 349 679	X	X
32312M	Support activities for printing	2004.. 50 944	1 968 278	37 852	75 425	1 250 527	3 936 457	1 205 353	5 146 919	2	2
		2003.. 55 715	2 071 789	42 405	80 487	1 326 366	3 981 281	1 150 243	5 117 199	5	4
		2002.. 55 924	2 117 734	42 151	80 485	1 353 383	4 157 945	1 198 062	5 349 679	X	X
324	Petroleum and coal products manufacturing	2004.. 96 673	7 016 780	61 393	141 647	3 998 670	61 829 502	253 339 950	312 884 951	1	1
		2003.. 100 696	6 650 773	65 276	145 309	3 939 023	48 502 550	199 653 911	247 316 369	1	1
		2002.. 103 215	6 221 870	66 498	140 359	3 751 746	37 056 042	179 693 793	215 462 504	X	X
3241	Petroleum and coal products manufacturing	2004.. 96 673	7 016 780	61 393	141 647	3 998 670	61 829 502	253 339 950	312 884 951	1	1
		2003.. 100 696	6 650 773	65 276	145 309	3 939 023	48 502 550	199 653 911	247 316 369	1	1
		2002.. 103 215	6 221 870	66 498	140 359	3 751 746	37 056 042	179 693 793	215 462 504	X	X
32411	Petroleum refineries	2004.. 58 331	5 133 828	35 321	85 415	2 839 498	51 643 699	238 632 256	288 084 189	1	1
		2003.. 60 015	4 751 859	37 216	85 643	2 754 066	39 104 166	185 369 457	223 699 709	1	1
		2002.. 61 874	4 385 768	38 198	84 532	2 620 032	28 376 524	166 367 832	193 528 006	X	X
324110	Petroleum refineries	2004.. 58 331	5 133 828	35 321	85 415	2 839 498	51 643 699	238 632 256	288 084 189	1	1
		2003.. 60 015	4 751 859	37 216	85 643	2 754 066	39 104 166	185 369 457	223 699 709	1	1
		2002.. 61 874	4 385 768	38 198	84 532	2 620 032	28 376 524	166 367 832	193 528 006	X	X
32412	Asphalt paving, roofing, and saturated materials manufacturing	2004.. 25 614	1 203 621	18 793	40 766	827 532	6 021 629	9 570 822	15 501 360	1	1
		2003.. 28 252	1 251 519	20 558	43 654	860 480	5 534 414	9 027 547	14 524 364	2	1
		2002.. 27 531	1 160 514	20 143	39 770	797 194	5 432 544	8 242 751	13 593 174	X	X
324121	Asphalt paving mixture and block manufacturing	2004.. 13 444	588 348	9 784	19 747	401 020	2 684 113	5 132 235	7 777 583	2	2
		2003.. 15 382	662 299	11 160	22 457	460 922	2 753 940	5 068 591	7 806 065	3	3
		2002.. 15 431	622 331	11 399	20 946	439 878	2 814 686	4 690 830	7 474 664	X	X
324122	Asphalt shingle and coating materials manufacturing	2004.. 12 170	615 272	9 009	21 020	426 512	3 337 516	4 438 587	7 723 777	1	1
		2003.. 12 870	589 219	9 399	21 197	399 557	2 780 474	3 958 956	6 718 299	1	1
		2002.. 12 100	538 183	8 744	18 824	357 316	2 617 858	3 551 921	6 118 510	X	X
32419	Other petroleum and coal products manufacturing	2004.. 12 728	679 331	7 278	15 466	331 640	4 164 174	5 136 872	9 299 401	3	3
		2003.. 12 428	647 395	7 501	16 012	324 477	3 863 970	5 256 908	9 092 296	3	3
		2002.. 13 810	675 588	8 157	16 057	334 520	3 246 974	5 083 210	8 341 324	X	X
324191	Petroleum lubricating oil and grease manufacturing	2004.. 10 131	548 433	5 296	11 248	237 700	3 551 165	3 936 501	7 475 327	4	3
		2003.. 9 573	506 650	5 325	11 438	224 788	3 235 025	3 897 609	7 102 369	3	3
		2002.. 10 619	527 517	5 747	11 275	232 145	2 607 323	3 839 686	6 445 658	X	X
324199	All other petroleum and coal products manufacturing	2004.. 2 597	130 899	1 983	4 218	93 940	613 009	1 200 371	1 824 074	3	3
		2003.. 2 855	140 745	2 176	4 574	99 688	628 946	1 359 299	1 989 927	2	5
		2002.. 3 191	148 071	2 410	4 782	102 375	639 651	1 243 524	1 895 666	X	X

See footnotes at end of table.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—		
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F	
												A
325	Chemical manufacturing	2004..	768 546	43 663 745	435 484	906 435	20 677 865	295 328 029	237 304 130	528 215 361	1	1
		2003..	829 918	45 079 651	478 845	982 717	21 367 246	266 616 122	221 466 074	486 562 686	1	1
		2002..	853 045	44 677 519	482 962	986 513	21 115 965	255 168 082	206 412 219	461 495 985	X	X
3251	Basic chemical manufacturing	2004..	161 324	10 430 141	93 116	201 460	5 438 858	58 588 612	81 963 363	139 430 969	1	1
		2003..	171 416	10 631 465	99 031	213 903	5 511 547	47 779 231	72 991 589	120 706 939	1	2
		2002..	181 078	10 917 451	103 061	221 486	5 633 018	45 612 129	63 752 610	109 417 414	X	X
32511	Petrochemical manufacturing	2004..	7 590	598 153	4 413	9 646	336 744	13 401 480	22 454 616	35 362 855	1	1
		2003..	8 305	622 461	4 674	10 449	338 531	6 436 625	17 974 640	24 219 168	1	1
		2002..	9 458	660 862	5 184	11 067	349 231	5 983 886	14 339 081	20 348 099	X	X
325110	Petrochemical manufacturing	2004..	7 590	598 153	4 413	9 646	336 744	13 401 480	22 454 616	35 362 855	1	1
		2003..	8 305	622 461	4 674	10 449	338 531	6 436 625	17 974 640	24 219 168	1	1
		2002..	9 458	660 862	5 184	11 067	349 231	5 983 886	14 339 081	20 348 099	X	X
32512	Industrial gas manufacturing	2004..	9 392	524 247	5 380	11 548	294 221	3 769 493	2 992 565	6 755 033	4	2
		2003..	10 483	604 055	5 073	11 208	286 295	3 836 898	2 735 057	6 573 225	2	2
		2002..	10 666	594 567	5 106	10 680	278 729	3 494 440	2 409 916	5 867 733	X	X
325120	Industrial gas manufacturing	2004..	9 392	524 247	5 380	11 548	294 221	3 769 493	2 992 565	6 755 033	4	2
		2003..	10 483	604 055	5 073	11 208	286 295	3 836 898	2 735 057	6 573 225	2	2
		2002..	10 666	594 567	5 106	10 680	278 729	3 494 440	2 409 916	5 867 733	X	X
32513	Synthetic dye and pigment manufacturing	2004..	12 920	724 394	8 095	16 916	418 782	3 333 003	2 876 214	6 301 483	1	1
		2003..	13 152	718 152	8 309	17 587	403 969	3 337 805	2 946 496	6 289 321	2	1
		2002..	14 872	778 060	9 261	19 599	430 691	3 349 807	2 966 656	6 335 562	X	X
32513M	Synthetic dye and pigment manufacturing	2004..	12 920	724 394	8 095	16 916	418 782	3 333 003	2 876 214	6 301 483	1	1
		2003..	13 152	718 152	8 309	17 587	403 969	3 337 805	2 946 496	6 289 321	2	1
		2002..	14 872	778 060	9 261	19 599	430 691	3 349 807	2 966 656	6 335 562	X	X
32518	Other basic inorganic chemical manufacturing	2004..	52 256	3 284 117	27 939	57 546	1 520 095	11 809 743	9 105 544	20 973 978	1	1
		2003..	56 001	3 464 598	30 211	62 030	1 638 124	11 902 500	8 493 949	20 436 856	1	1
		2002..	57 313	3 480 261	31 037	65 838	1 679 616	11 340 748	8 601 624	19 979 652	X	X
325181	Alkalies and chlorine manufacturing	2004..	5 412	357 229	3 740	7 408	228 380	2 016 554	1 961 733	3 975 817	1	1
		2003..	5 819	370 320	4 095	8 025	241 979	1 845 219	1 687 782	3 539 481	1	1
		2002..	6 312	388 341	4 329	9 235	252 155	1 299 762	1 543 555	2 831 314	X	X
325182	Carbon black manufacturing	2004..	1 661	97 914	1 105	2 296	60 921	525 550	651 209	1 194 465	1	1
		2003..	1 619	98 476	1 041	2 305	60 322	540 648	594 172	1 136 506	1	1
		2002..	1 665	99 409	1 111	2 235	60 580	514 981	531 912	1 043 515	X	X
325188	All other basic inorganic chemical manufacturing	2004..	45 183	2 828 974	23 094	47 842	1 230 795	9 267 638	6 492 603	15 803 695	1	1
		2003..	48 563	2 995 801	25 075	51 700	1 335 823	9 516 633	6 211 995	15 760 870	1	1
		2002..	49 336	2 992 511	25 597	54 368	1 366 881	9 526 005	6 526 157	16 104 823	X	X
32519	Other basic organic chemical manufacturing	2004..	79 167	5 299 230	47 289	105 804	2 869 016	26 274 894	44 534 424	70 037 619	1	1
		2003..	83 475	5 222 198	50 764	112 630	2 844 628	22 265 403	40 841 446	63 188 369	1	4
		2002..	88 769	5 403 701	52 473	114 302	2 894 751	21 443 248	35 435 333	56 886 368	X	X
32519M	Other basic organic chemical manufacturing	2004..	79 167	5 299 230	47 289	105 804	2 869 016	26 274 894	44 534 424	70 037 619	1	1
		2003..	83 475	5 222 198	50 764	112 630	2 844 628	22 265 403	40 841 446	63 188 369	1	4
		2002..	88 769	5 403 701	52 473	114 302	2 894 751	21 443 248	35 435 333	56 886 368	X	X
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	2004..	84 663	4 873 391	57 636	127 443	3 010 531	28 554 784	45 211 454	72 919 225	2	1
		2003..	95 227	5 139 909	65 648	141 529	3 139 688	23 962 088	40 690 404	64 660 727	1	1
		2002..	100 295	5 283 637	69 144	145 127	3 269 448	22 614 958	37 869 900	60 270 849	X	X
32521	Resin and synthetic rubber manufacturing	2004..	66 543	4 120 921	42 935	94 393	2 456 941	25 815 834	41 179 021	66 116 750	2	1
		2003..	72 032	4 178 138	47 143	101 775	2 470 302	20 436 089	35 946 144	56 366 464	1	1
		2002..	76 817	4 329 426	50 503	104 253	2 589 714	19 038 566	33 486 518	52 321 610	X	X
325211	Plastics material and resin manufacturing	2004..	57 774	3 616 315	37 116	82 308	2 142 142	23 202 890	37 440 994	59 829 903	2	1
		2003..	61 852	3 583 163	40 355	87 357	2 105 104	17 774 412	32 618 532	50 380 874	1	1
		2002..	67 061	3 810 236	43 903	90 977	2 264 792	16 471 055	30 585 869	46 846 851	X	X
325212	Synthetic rubber manufacturing	2004..	8 769	504 606	5 819	12 085	314 799	2 612 944	3 738 027	6 286 847	1	1
		2003..	10 181	594 975	6 788	14 418	365 198	2 661 677	3 327 613	5 985 590	2	2
		2002..	9 756	519 190	6 600	13 276	324 922	2 567 511	2 900 649	5 474 759	X	X
32522	Artificial and synthetic fibers and filaments manufacturing	2004..	18 120	752 469	14 701	33 050	553 590	2 738 949	4 032 433	6 802 475	1	1
		2003..	23 194	961 771	18 506	39 754	669 386	3 525 999	4 744 260	8 294 262	1	1
		2002..	23 478	954 211	18 641	40 874	679 734	3 576 392	4 383 382	7 949 239	X	X
32522M	Artificial and synthetic fibers and filaments manufacturing	2004..	18 120	752 469	14 701	33 050	553 590	2 738 949	4 032 433	6 802 475	1	1
		2003..	23 194	961 771	18 506	39 754	669 386	3 525 999	4 744 260	8 294 262	1	1
		2002..	23 478	954 211	18 641	40 874	679 734	3 576 392	4 383 382	7 949 239	X	X

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		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F	
		A	B	C	D	E				F	G	H
325 3253	Chemical manufacturing—Con. Pesticide, fertilizer, and other agricultural chemical manufacturing	2004..	28 747	1 490 669	18 244	40 042	810 599	11 899 029	12 058 166	23 927 584	2	1
		2003..	30 488	1 481 299	19 794	42 510	849 342	10 204 212	11 057 182	21 272 257	2	1
		2002..	31 287	1 494 326	19 765	42 264	830 476	9 282 504	9 896 006	19 306 831	X	X
32531	Fertilizer manufacturing	2004..	17 779	881 752	11 996	26 988	547 744	4 417 285	8 195 208	12 571 002	1	2
		2003..	19 688	918 832	13 383	29 278	583 705	3 702 728	7 634 878	11 310 526	1	2
		2002..	20 718	941 557	13 656	29 646	571 896	3 407 370	6 790 576	10 219 830	X	X
325311	Nitrogenous fertilizer manufacturing	2004..	3 563	219 483	2 248	4 922	140 084	1 542 307	2 558 658	4 121 267	1	2
		2003..	4 285	253 040	2 827	6 133	164 984	1 383 592	2 552 121	3 895 723	2	3
		2002..	4 760	282 589	2 971	6 521	166 936	971 247	2 258 835	3 291 075	X	X
325312	Phosphatic fertilizer manufacturing	2004..	6 231	364 827	4 580	11 307	249 146	1 461 005	3 725 434	5 131 841	2	4
		2003..	6 223	346 056	4 670	10 691	243 520	1 137 253	3 167 386	4 339 511	1	2
		2002..	6 306	335 864	4 630	10 766	235 035	1 361 338	2 638 098	3 955 155	X	X
325314	Fertilizer (mixing only) manufacturing	2004..	7 986	297 442	5 168	10 759	158 514	1 413 972	1 911 116	3 317 894	3	2
		2003..	9 180	319 736	5 886	12 454	175 201	1 181 883	1 915 371	3 075 292	3	4
		2002..	9 652	323 104	6 055	12 359	169 925	1 074 785	1 893 643	2 973 600	X	X
32532	Pesticide and other agricultural chemical manufacturing	2004..	10 967	608 918	6 248	13 054	262 855	7 481 744	3 862 957	11 356 582	4	2
		2003..	10 800	562 467	6 410	13 232	265 637	6 501 484	3 422 304	9 961 731	6	2
		2002..	10 569	552 769	6 109	12 618	258 580	5 875 134	3 105 430	9 087 001	X	X
325320	Pesticide and other agricultural chemical manufacturing	2004..	10 967	608 918	6 248	13 054	262 855	7 481 744	3 862 957	11 356 582	4	2
		2003..	10 800	562 467	6 410	13 232	265 637	6 501 484	3 422 304	9 961 731	6	2
		2002..	10 569	552 769	6 109	12 618	258 580	5 875 134	3 105 430	9 087 001	X	X
3254	Pharmaceutical and medicine manufacturing	2004..	231 039	14 208 970	112 864	224 007	5 165 239	120 869 739	38 615 495	157 479 216	1	1
		2003..	243 120	14 354 499	119 670	233 860	5 295 450	114 375 178	37 852 133	150 714 259	1	2
		2002..	249 164	13 800 810	116 368	230 897	4 994 766	103 360 741	38 900 959	142 036 424	X	X
32541	Pharmaceutical and medicine manufacturing	2004..	231 039	14 208 970	112 864	224 007	5 165 239	120 869 739	38 615 495	157 479 216	1	1
		2003..	243 120	14 354 499	119 670	233 860	5 295 450	114 375 178	37 852 133	150 714 259	1	2
		2002..	249 164	13 800 810	116 368	230 897	4 994 766	103 360 741	38 900 959	142 036 424	X	X
325411	Medicinal and botanical manufacturing	2004..	19 263	1 081 074	10 258	20 665	485 608	7 081 366	3 591 251	10 631 536	1	1
		2003..	20 477	1 131 010	11 067	21 880	492 605	7 137 763	3 890 350	10 947 090	1	2
		2002..	20 605	1 100 937	10 938	21 536	495 449	7 955 203	4 313 368	12 242 919	X	X
325412	Pharmaceutical preparation manufacturing	2004..	162 320	10 000 065	81 892	161 808	3 641 541	99 418 875	29 976 319	127 740 654	1	1
		2003..	170 315	10 059 668	86 127	167 047	3 707 601	94 207 680	28 949 162	121 825 357	2	2
		2002..	176 737	9 875 165	82 470	164 961	3 500 805	83 676 711	29 955 836	113 730 479	X	X
325413	In-vitro diagnostic substance manufacturing	2004..	27 021	1 800 524	9 477	19 282	489 725	6 930 322	2 454 437	9 259 187	1	2
		2003..	28 843	1 844 326	10 737	21 483	568 277	6 480 350	2 278 830	8 765 504	1	1
		2002..	27 175	1 518 943	10 245	20 269	465 792	5 723 291	2 046 639	7 804 505	X	X
325414	Biological product (except diagnostic) manufacturing	2004..	22 436	1 327 308	11 237	22 251	548 366	7 439 177	2 593 488	9 847 838	1	5
		2003..	23 485	1 319 495	11 739	23 450	526 966	6 549 385	2 733 791	9 176 308	1	1
		2002..	24 647	1 305 765	12 715	24 131	532 720	6 005 536	2 585 116	8 258 521	X	X
3255	Paint, coating, and adhesive manufacturing	2004..	61 680	3 027 519	34 830	72 678	1 392 943	15 949 823	14 505 431	30 379 230	1	2
		2003..	65 811	3 028 996	38 183	78 473	1 358 284	14 328 262	13 750 512	28 081 226	1	2
		2002..	67 600	2 997 339	38 370	75 922	1 332 203	13 341 216	14 004 638	27 381 892	X	X
32551	Paint and coating manufacturing	2004..	41 025	2 004 601	22 164	45 375	900 988	11 840 576	10 459 750	22 251 486	2	3
		2003..	44 852	2 056 323	24 691	50 593	874 462	10 283 146	9 827 957	20 143 498	1	1
		2002..	46 347	2 051 902	25 261	49 593	876 536	9 533 554	10 321 918	19 917 828	X	X
325510	Paint and coating manufacturing	2004..	41 025	2 004 601	22 164	45 375	900 988	11 840 576	10 459 750	22 251 486	2	3
		2003..	44 852	2 056 323	24 691	50 593	874 462	10 283 146	9 827 957	20 143 498	1	1
		2002..	46 347	2 051 902	25 261	49 593	876 536	9 533 554	10 321 918	19 917 828	X	X
32552	Adhesive manufacturing	2004..	20 655	1 022 918	12 666	27 303	491 955	4 109 246	4 045 681	8 127 743	1	1
		2003..	20 959	972 673	13 492	27 880	483 821	4 045 116	3 922 555	7 937 728	2	5
		2002..	21 253	945 437	13 109	26 329	455 667	3 807 662	3 682 720	7 464 064	X	X
325520	Adhesive manufacturing	2004..	20 655	1 022 918	12 666	27 303	491 955	4 109 246	4 045 681	8 127 743	1	1
		2003..	20 959	972 673	13 492	27 880	483 821	4 045 116	3 922 555	7 937 728	2	5
		2002..	21 253	945 437	13 109	26 329	455 667	3 807 662	3 682 720	7 464 064	X	X
3256	Soap, cleaning compound, and toilet preparation manufacturing	2004..	100 698	4 808 051	62 411	126 017	2 533 073	40 458 573	25 906 823	66 052 898	1	1
		2003..	110 195	5 050 962	71 109	142 760	2 611 086	36 757 599	25 303 838	61 914 830	2	1
		2002..	115 183	4 957 794	71 330	140 191	2 497 412	40 740 222	23 180 592	63 995 501	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
		A	B	C	D	E				F	G
325	Chemical manufacturing—Con.										
3256	Soap, cleaning compound, and toilet preparation manufacturing—Con.										
32561	Soap and cleaning compound manufacturing	2004.. 44 937	2 148 511	26 694	55 903	1 145 395	18 603 416	14 588 696	33 057 118	1	1
		2003.. 48 168	2 271 189	29 311	61 993	1 171 492	16 513 579	13 747 862	30 217 395	3	1
		2002.. 48 428	2 208 259	28 533	57 416	1 134 529	18 051 324	12 702 841	30 801 670	X	X
32561M	Soap and cleaning compound manufacturing	2004.. 44 937	2 148 511	26 694	55 903	1 145 395	18 603 416	14 588 696	33 057 118	1	1
		2003.. 48 168	2 271 189	29 311	61 993	1 171 492	16 513 579	13 747 862	30 217 395	3	1
		2002.. 48 428	2 208 259	28 533	57 416	1 134 529	18 051 324	12 702 841	30 801 670	X	X
32562	Toilet preparation manufacturing	2004.. 55 761	2 659 540	35 717	70 114	1 387 678	21 855 157	11 318 127	32 995 780	2	1
		2003.. 62 027	2 779 773	41 798	80 767	1 439 594	20 244 020	11 555 976	31 697 436	2	1
		2002.. 66 755	2 749 535	42 797	82 775	1 362 883	22 688 898	10 477 751	33 193 831	X	X
325620	Toilet preparation manufacturing	2004.. 55 761	2 659 540	35 717	70 114	1 387 678	21 855 157	11 318 127	32 995 780	2	1
		2003.. 62 027	2 779 773	41 798	80 767	1 439 594	20 244 020	11 555 976	31 697 436	2	1
		2002.. 66 755	2 749 535	42 797	82 775	1 362 883	22 688 898	10 477 751	33 193 831	X	X
3259	Other chemical product and preparation manufacturing	2004.. 100 395	4 825 003	56 384	114 788	2 326 622	19 007 470	19 043 398	38 026 239	3	1
		2003.. 113 662	5 392 521	65 411	129 682	2 601 849	19 209 552	19 820 416	39 212 448	1	1
		2002.. 108 438	5 226 162	64 924	130 626	2 558 642	20 216 312	18 807 514	39 087 074	X	X
32591	Printing ink manufacturing	2004.. 11 581	566 436	6 635	13 984	271 848	1 808 646	2 506 874	4 299 018	2	3
		2003.. 12 085	584 171	6 849	14 501	278 947	1 878 334	2 345 954	4 260 171	3	3
		2002.. 12 394	589 612	6 830	13 962	274 562	2 021 098	2 357 855	4 369 801	X	X
325910	Printing ink manufacturing	2004.. 11 581	566 436	6 635	13 984	271 848	1 808 646	2 506 874	4 299 018	2	3
		2003.. 12 085	584 171	6 849	14 501	278 947	1 878 334	2 345 954	4 260 171	3	3
		2002.. 12 394	589 612	6 830	13 962	274 562	2 021 098	2 357 855	4 369 801	X	X
32592	Explosives manufacturing	2004.. 5 234	233 418	3 707	7 781	143 687	610 341	460 520	1 063 927	2	1
		2003.. 5 534	224 101	3 876	8 068	129 471	607 296	409 552	1 018 023	7	7
		2002.. 5 721	231 263	4 153	7 679	138 587	600 090	414 775	1 027 797	X	X
325920	Explosives manufacturing	2004.. 5 234	233 418	3 707	7 781	143 687	610 341	460 520	1 063 927	2	1
		2003.. 5 534	224 101	3 876	8 068	129 471	607 296	409 552	1 018 023	7	7
		2002.. 5 721	231 263	4 153	7 679	138 587	600 090	414 775	1 027 797	X	X
32599	All other chemical product and preparation manufacturing	2004.. 83 580	4 025 150	46 043	93 023	1 911 087	16 588 484	16 076 003	32 663 295	3	1
		2003.. 96 043	4 584 250	54 686	107 113	2 193 431	16 723 922	17 064 909	33 934 255	1	1
		2002.. 90 323	4 405 287	53 941	108 985	2 145 493	17 595 124	16 034 884	33 689 476	X	X
325991	Custom compounding of purchased resins	2004.. 20 655	953 239	13 467	28 820	511 685	3 132 624	4 983 152	8 079 939	2	2
		2003.. 23 191	1 029 023	15 327	31 385	539 223	2 969 481	4 894 978	7 918 276	1	3
		2002.. 21 463	912 411	13 944	28 714	490 804	3 074 791	4 376 791	7 385 935	X	X
32599N	All other miscellaneous chemical product and preparation manufacturing (including photographic)	2004.. 62 925	3 071 911	32 576	64 204	1 399 402	13 455 860	11 092 852	24 583 356	4	1
		2003.. 72 852	3 555 227	39 359	75 728	1 654 207	13 754 441	12 169 931	26 015 979	1	1
		2002.. 68 860	3 492 876	39 997	80 271	1 654 689	14 520 333	11 658 093	26 303 541	X	X
326	Plastics and rubber products manufacturing	2004.. 882 691	32 121 088	684 961	1 425 764	21 549 367	91 517 338	91 629 402	182 547 111	1	1
		2003.. 944 826	32 586 906	739 593	1 508 864	21 839 340	92 257 976	86 223 005	178 328 039	1	1
		2002.. 985 463	32 665 858	767 398	1 519 764	21 869 453	92 509 146	82 265 742	174 622 350	X	X
3261	Plastics product manufacturing	2004.. 724 860	25 517 185	561 666	1 166 892	16 836 346	74 396 141	74 617 282	148 491 693	1	1
		2003.. 775 452	25 843 278	607 173	1 238 050	17 042 235	74 882 212	70 316 691	144 984 197	1	1
		2002.. 805 355	25 852 640	626 524	1 235 839	17 017 539	75 362 285	66 650 862	141 857 231	X	X
32611	Unsupported plastics film, sheet, and bag manufacturing	2004.. 98 498	4 115 844	74 884	164 807	2 779 695	13 296 103	15 149 025	28 372 714	1	1
		2003.. 109 482	4 321 745	84 464	178 361	2 906 567	13 640 358	15 067 091	28 661 498	2	1
		2002.. 113 822	4 300 033	88 167	177 894	2 879 953	13 868 464	14 256 964	28 112 288	X	X
326111	Plastics bag manufacturing	2004.. 31 952	1 210 259	25 064	55 331	844 826	4 052 550	4 112 556	8 122 205	1	1
		2003.. 34 104	1 214 838	27 125	60 652	863 224	4 057 976	3 975 117	8 046 469	1	2
		2002.. 33 816	1 143 058	27 114	55 849	798 017	3 752 137	3 601 034	7 337 433	X	X
326112	Plastics packaging film and sheet (including laminated) manufacturing	2004.. 22 918	991 067	17 970	38 923	694 668	3 364 462	3 393 751	6 754 534	1	1
		2003.. 23 750	992 374	18 793	40 009	700 060	3 298 716	3 468 991	6 740 174	1	2
		2002.. 24 354	1 012 021	19 161	40 206	714 553	3 205 621	3 246 168	6 463 106	X	X
326113	Unlaminated plastics film and sheet (except packaging) manufacturing	2004.. 43 627	1 914 518	31 850	70 552	1 240 201	5 879 091	7 642 718	13 495 975	2	2
		2003.. 51 628	2 114 534	38 546	77 699	1 343 283	6 283 666	7 622 984	13 874 855	3	2
		2002.. 55 652	2 144 954	41 892	81 839	1 367 383	6 910 706	7 409 762	14 311 749	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
		A	B	C	D	E				F	G
326	Plastics and rubber products manufacturing—Con.										
3261	Plastics product manufacturing—Con.										
32612	Plastics pipe, pipe fitting, and unsupported profile shape manufacturing	2004.. 47 760	1 787 685	36 701	76 524	1 158 512	6 055 349	6 780 192	12 842 279	1	1
		2003.. 48 915	1 718 821	38 013	77 360	1 135 638	5 489 582	6 091 250	11 582 215	1	1
		2002.. 52 166	1 757 503	40 504	79 633	1 166 536	5 231 579	5 686 632	10 945 116	X	X
326121	Unsupported plastics profile shape manufacturing	2004.. 27 659	1 060 964	21 214	44 629	685 360	3 525 756	2 811 529	6 325 254	2	1
		2003.. 28 199	1 030 579	21 763	43 596	672 527	3 200 652	2 547 743	5 722 451	2	2
		2002.. 30 623	1 069 438	23 573	46 224	701 653	3 005 280	2 499 442	5 493 752	X	X
326122	Plastics pipe and pipe fitting manufacturing	2004.. 20 101	726 721	15 487	31 895	473 152	2 529 593	3 968 663	6 517 026	2	2
		2003.. 20 715	688 242	16 249	33 764	463 111	2 288 930	3 543 507	5 859 764	1	1
		2002.. 21 543	688 065	16 931	33 409	464 883	2 226 299	3 187 190	5 451 364	X	X
32613	Laminated plastics plate, sheet, and shape manufacturing	2004.. 10 090	428 702	7 733	16 174	296 940	1 259 793	1 103 710	2 372 379	3	2
		2003.. 11 278	440 087	8 898	17 673	314 708	1 250 311	1 160 861	2 415 732	3	2
		2002.. 11 865	442 189	9 127	17 707	311 910	1 202 258	1 081 647	2 279 873	X	X
326130	Laminated plastics plate, sheet, and shape manufacturing	2004.. 10 090	428 702	7 733	16 174	296 940	1 259 793	1 103 710	2 372 379	3	2
		2003.. 11 278	440 087	8 898	17 673	314 708	1 250 311	1 160 861	2 415 732	3	2
		2002.. 11 865	442 189	9 127	17 707	311 910	1 202 258	1 081 647	2 279 873	X	X
32614	Polystyrene foam product manufacturing	2004.. 32 042	1 072 072	25 170	52 159	752 668	3 636 189	3 432 168	7 031 459	3	4
		2003.. 31 619	1 018 809	24 822	49 273	713 397	3 643 090	3 096 910	6 686 714	4	3
		2002.. 33 301	1 005 581	26 140	51 747	693 815	3 535 701	2 929 170	6 453 491	X	X
326140	Polystyrene foam product manufacturing	2004.. 32 042	1 072 072	25 170	52 159	752 668	3 636 189	3 432 168	7 031 459	3	4
		2003.. 31 619	1 018 809	24 822	49 273	713 397	3 643 090	3 096 910	6 686 714	4	3
		2002.. 33 301	1 005 581	26 140	51 747	693 815	3 535 701	2 929 170	6 453 491	X	X
32615	Urethane and other foam product (except polystyrene) manufacturing	2004.. 34 134	1 142 185	26 973	52 579	744 988	3 344 481	4 356 977	7 684 612	2	2
		2003.. 33 461	1 029 174	26 228	49 080	657 762	3 204 626	4 078 681	7 275 960	3	11
		2002.. 34 601	1 070 036	26 904	51 433	676 638	3 346 176	3 769 333	7 107 447	X	X
326150	Urethane and other foam product (except polystyrene) manufacturing	2004.. 34 134	1 142 185	26 973	52 579	744 988	3 344 481	4 356 977	7 684 612	2	2
		2003.. 33 461	1 029 174	26 228	49 080	657 762	3 204 626	4 078 681	7 275 960	3	11
		2002.. 34 601	1 070 036	26 904	51 433	676 638	3 346 176	3 769 333	7 107 447	X	X
32616	Plastics bottle manufacturing	2004.. 31 208	1 111 558	26 401	55 427	870 522	3 866 560	4 434 413	8 253 046	1	1
		2003.. 32 703	1 145 944	28 268	58 666	912 588	3 830 927	4 387 498	8 235 162	1	1
		2002.. 34 054	1 134 996	29 235	58 024	905 719	3 877 924	4 112 497	7 928 313	X	X
326160	Plastics bottle manufacturing	2004.. 31 208	1 111 558	26 401	55 427	870 522	3 866 560	4 434 413	8 253 046	1	1
		2003.. 32 703	1 145 944	28 268	58 666	912 588	3 830 927	4 387 498	8 235 162	1	1
		2002.. 34 054	1 134 996	29 235	58 024	905 719	3 877 924	4 112 497	7 928 313	X	X
32619	Other plastics product manufacturing	2004.. 471 127	15 859 139	363 804	749 223	10 233 022	42 937 666	39 360 797	81 935 203	1	1
		2003.. 507 995	16 168 697	396 480	807 637	10 401 575	43 823 319	36 434 401	80 126 916	2	1
		2002.. 525 546	16 142 302	406 447	799 401	10 382 968	44 300 183	34 814 619	79 030 703	X	X
32619M	Other plastics product manufacturing	2004.. 471 127	15 859 139	363 804	749 223	10 233 022	42 937 666	39 360 797	81 935 203	1	1
		2003.. 507 995	16 168 697	396 480	807 637	10 401 575	43 823 319	36 434 401	80 126 916	2	1
		2002.. 525 546	16 142 302	406 447	799 401	10 382 968	44 300 183	34 814 619	79 030 703	X	X
3262	Rubber product manufacturing	2004.. 157 831	6 603 903	123 295	258 871	4 713 021	17 121 197	17 012 121	34 055 419	2	1
		2003.. 169 373	6 743 628	132 420	270 814	4 797 105	17 375 764	15 906 314	33 343 842	1	1
		2002.. 180 108	6 813 218	140 874	283 925	4 851 914	17 146 861	15 614 880	32 765 119	X	X
32621	Tire manufacturing	2004.. 62 014	3 092 220	50 069	103 366	2 396 711	7 958 011	7 883 393	15 768 026	1	1
		2003.. 65 862	3 152 233	52 649	105 556	2 419 004	8 009 143	7 325 316	15 351 544	1	1
		2002.. 69 256	3 150 815	55 767	113 179	2 436 618	7 678 355	7 059 788	14 743 481	X	X
32621M	Tire manufacturing	2004.. 62 014	3 092 220	50 069	103 366	2 396 711	7 958 011	7 883 393	15 768 026	1	1
		2003.. 65 862	3 152 233	52 649	105 556	2 419 004	8 009 143	7 325 316	15 351 544	1	1
		2002.. 69 256	3 150 815	55 767	113 179	2 436 618	7 678 355	7 059 788	14 743 481	X	X
32622	Rubber and plastics hoses and belting manufacturing	2004.. 21 689	812 143	16 673	35 108	538 906	2 145 532	2 045 510	4 180 085	1	1
		2003.. 22 376	781 871	17 100	35 305	526 698	2 112 523	1 846 437	3 992 700	1	1
		2002.. 23 597	798 747	18 115	36 059	530 664	2 121 044	1 914 536	4 039 105	X	X
326220	Rubber and plastics hoses and belting manufacturing	2004.. 21 689	812 143	16 673	35 108	538 906	2 145 532	2 045 510	4 180 085	1	1
		2003.. 22 376	781 871	17 100	35 305	526 698	2 112 523	1 846 437	3 992 700	1	1
		2002.. 23 597	798 747	18 115	36 059	530 664	2 121 044	1 914 536	4 039 105	X	X

See footnotes at end of table.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
326	Plastics and rubber products manufacturing—Con.										
3262	Rubber product manufacturing—Con.										
32629	Other rubber product manufacturing	2004.. 74 129	2 699 540	56 552	120 398	1 777 404	7 017 654	7 083 217	14 107 307	3	2
		2003.. 81 136	2 809 523	62 671	129 953	1 851 403	7 254 098	6 734 561	13 999 599	1	1
		2002.. 87 255	2 863 656	66 992	134 687	1 884 632	7 347 462	6 640 556	13 982 533	X	X
32629M	Other rubber product manufacturing	2004.. 74 129	2 699 540	56 552	120 398	1 777 404	7 017 654	7 083 217	14 107 307	3	2
		2003.. 81 136	2 809 523	62 671	129 953	1 851 403	7 254 098	6 734 561	13 999 599	1	1
		2002.. 87 255	2 863 656	66 992	134 687	1 884 632	7 347 462	6 640 556	13 982 533	X	X
327	Nonmetallic mineral product manufacturing	2004.. 455 147	18 106 799	351 409	757 290	12 638 163	58 800 008	43 202 086	101 869 828	1	1
		2003.. 463 078	17 747 827	361 654	761 879	12 521 578	55 161 432	41 730 685	96 922 863	1	1
		2002.. 482 700	17 910 160	375 036	765 193	12 526 549	54 761 611	40 457 598	95 052 390	X	X
3271	Clay product and refractory manufacturing	2004.. 54 014	1 900 181	42 362	86 168	1 308 888	5 568 114	2 907 969	8 455 791	1	1
		2003.. 57 253	1 928 077	45 638	93 062	1 343 441	5 365 745	2 855 173	8 214 091	1	2
		2002.. 60 570	2 033 150	47 765	97 018	1 400 190	5 450 120	2 904 649	8 300 688	X	X
32711	Pottery, ceramics, and plumbing fixture manufacturing	2004.. 24 525	824 439	19 161	37 425	563 459	2 066 489	1 006 608	3 094 266	2	2
		2003.. 26 240	842 085	20 890	41 669	582 546	2 120 550	980 125	3 081 960	2	1
		2002.. 29 637	965 849	23 512	47 816	661 933	2 208 533	1 128 270	3 325 350	X	X
327111	Vitreous china plumbing fixture and china and earthenware bathroom accessories manufacturing ..	2004.. 6 319	217 237	5 165	10 559	165 823	720 404	229 428	966 791	2	2
		2003.. 7 153	236 279	6 096	12 586	192 853	824 806	244 130	1 048 918	1	1
		2002.. 8 054	282 537	6 717	14 010	220 410	835 905	309 810	1 136 525	X	X
327112	Vitreous china, fine earthenware, and other pottery product manufacturing	2004.. 11 086	324 880	8 531	15 073	219 018	655 750	333 454	989 200	3	5
		2003.. 11 045	296 664	8 892	16 984	204 183	611 367	327 526	926 776	3	4
		2002.. 12 683	336 124	10 197	19 895	236 274	625 926	374 335	1 006 769	X	X
327113	Porcelain electrical supply manufacturing	2004.. 7 121	282 322	5 464	11 792	178 617	690 335	443 725	1 138 275	2	2
		2003.. 8 042	309 142	5 901	12 099	185 510	684 378	408 468	1 106 266	2	2
		2002.. 8 900	347 188	6 598	13 911	205 249	746 702	444 125	1 182 056	X	X
32712	Clay building material and refractories manufacturing	2004.. 29 489	1 075 742	23 202	48 744	745 429	3 501 625	1 901 361	5 361 525	1	1
		2003.. 31 013	1 085 992	24 748	51 393	760 895	3 245 195	1 875 048	5 132 131	1	3
		2002.. 30 933	1 067 301	24 253	49 202	738 257	3 241 587	1 776 379	4 975 338	X	X
327121	Brick and structural clay tile manufacturing	2004.. 12 942	435 517	10 723	23 222	320 942	1 518 188	613 062	2 111 299	1	2
		2003.. 13 465	435 942	11 328	23 893	325 662	1 380 826	555 725	1 938 818	1	2
		2002.. 13 208	429 924	10 788	22 045	314 564	1 383 086	511 589	1 848 490	X	X
327122	Ceramic wall and floor tile manufacturing	2004.. 6 101	204 863	4 953	9 835	144 887	708 395	331 405	1 022 959	1	3
		2003.. 6 650	210 321	5 544	11 207	157 293	654 094	339 400	987 783	1	1
		2002.. 6 482	202 466	5 316	10 604	146 732	659 874	320 685	978 394	X	X
327123	Other structural clay product manufacturing	2004.. 1 468	51 969	1 132	2 626	35 857	141 283	58 114	199 929	1	3
		2003.. 1 585	53 459	1 229	2 658	37 402	143 254	62 358	204 412	1	1
		2002.. 1 628	53 796	1 266	2 657	37 835	139 189	58 764	195 277	X	X
32712N	Refractory manufacturing	2004.. 8 978	383 393	6 394	13 061	243 744	1 133 759	898 779	2 027 338	3	2
		2003.. 9 313	386 269	6 647	13 635	240 538	1 067 022	917 565	2 001 118	4	7
		2002.. 9 615	381 115	6 883	13 896	239 126	1 059 438	885 341	1 953 177	X	X
3272	Glass and glass product manufacturing	2004.. 103 087	4 149 519	83 790	178 112	3 050 800	12 851 939	9 785 887	22 609 052	1	1
		2003.. 107 443	4 188 939	87 317	179 022	3 087 197	12 578 864	9 610 724	22 187 508	2	1
		2002.. 115 532	4 400 391	93 235	188 266	3 204 501	13 086 419	9 282 803	22 434 247	X	X
32721	Glass and glass product manufacturing	2004.. 103 087	4 149 519	83 790	178 112	3 050 800	12 851 939	9 785 887	22 609 052	1	1
		2003.. 107 443	4 188 939	87 317	179 022	3 087 197	12 578 864	9 610 724	22 187 508	2	1
		2002.. 115 532	4 400 391	93 235	188 266	3 204 501	13 086 419	9 282 803	22 434 247	X	X
327211	Flat glass manufacturing	2004.. 11 316	516 544	9 103	18 954	376 685	1 961 723	1 308 109	3 247 674	1	1
		2003.. 10 352	474 938	8 361	17 114	348 012	1 735 619	1 123 124	2 856 396	1	1
		2002.. 10 683	469 781	8 673	17 931	351 418	1 678 192	1 052 028	2 750 510	X	X
327212	Other pressed and blown glass and glassware manufacturing	2004.. 21 955	887 562	18 191	37 826	687 255	2 382 639	1 693 468	4 123 863	1	1
		2003.. 24 689	963 755	20 117	40 797	725 875	2 614 044	1 509 402	4 120 041	1	1
		2002.. 27 814	1 087 129	22 875	46 389	815 332	3 055 589	1 583 549	4 725 931	X	X
327213	Glass container manufacturing	2004.. 14 726	753 690	13 039	27 355	636 125	2 608 322	1 706 911	4 318 853	2	2
		2003.. 15 501	743 860	13 506	28 065	620 176	2 648 499	1 752 232	4 360 733	1	1
		2002.. 16 102	760 453	13 998	29 344	636 999	2 726 755	1 632 380	4 359 939	X	X
327215	Glass product manufacturing made of purchased glass	2004.. 55 089	1 991 722	43 457	93 976	1 350 735	5 899 255	5 077 398	10 918 662	2	1
		2003.. 56 901	2 006 386	45 333	93 046	1 393 134	5 580 702	5 225 966	10 850 338	3	3
		2002.. 60 933	2 083 028	47 689	94 602	1 400 752	5 625 883	5 014 846	10 597 867	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
		A	B	C	D	E				F	G
327	Nonmetallic mineral product manufacturing—Con.										
3273	Cement and concrete product manufacturing	2004.. 211 643	8 417 742	161 026	354 695	5 845 550	26 460 166	21 839 500	48 200 971	1	2
		2003.. 211 966	8 104 579	163 048	351 306	5 704 479	24 895 663	20 909 713	45 812 781	1	1
		2002.. 218 319	8 015 580	167 277	342 479	5 583 900	24 411 113	20 228 536	44 522 447	X	X
32731	Cement manufacturing	2004.. 16 162	888 644	12 248	27 255	628 203	5 382 906	2 935 219	8 342 605	2	2
		2003.. 17 352	902 432	12 973	28 642	622 428	4 750 538	2 980 187	7 779 291	1	1
		2002.. 17 660	890 528	13 178	28 329	614 252	4 542 435	2 921 196	7 407 574	X	X
327310	Cement manufacturing	2004.. 16 162	888 644	12 248	27 255	628 203	5 382 906	2 935 219	8 342 605	2	2
		2003.. 17 352	902 432	12 973	28 642	622 428	4 750 538	2 980 187	7 779 291	1	1
		2002.. 17 660	890 528	13 178	28 329	614 252	4 542 435	2 921 196	7 407 574	X	X
32732	Ready-mix concrete manufacturing	2004.. 99 927	4 010 431	80 448	176 949	3 055 464	11 211 984	12 205 946	23 395 997	2	3
		2003.. 99 004	3 865 209	80 339	173 343	2 985 618	10 840 267	11 875 252	22 691 223	2	2
		2002.. 98 995	3 669 838	79 843	161 107	2 810 987	10 303 912	11 312 899	21 601 732	X	X
327320	Ready-mix concrete manufacturing	2004.. 99 927	4 010 431	80 448	176 949	3 055 464	11 211 984	12 205 946	23 395 997	2	3
		2003.. 99 004	3 865 209	80 339	173 343	2 985 618	10 840 267	11 875 252	22 691 223	2	2
		2002.. 98 995	3 669 838	79 843	161 107	2 810 987	10 303 912	11 312 899	21 601 732	X	X
32733	Concrete pipe, brick, and block manufacturing	2004.. 34 935	1 371 262	23 851	55 004	805 437	4 253 811	3 106 662	7 263 166	1	1
		2003.. 34 624	1 320 697	23 714	54 362	786 984	4 140 313	2 803 367	6 961 778	1	2
		2002.. 35 620	1 293 865	24 927	53 616	786 081	3 988 516	2 745 032	6 694 104	X	X
32733M	Concrete pipe, brick, and block manufacturing	2004.. 34 935	1 371 262	23 851	55 004	805 437	4 253 811	3 106 662	7 263 166	1	1
		2003.. 34 624	1 320 697	23 714	54 362	786 984	4 140 313	2 803 367	6 961 778	1	2
		2002.. 35 620	1 293 865	24 927	53 616	786 081	3 988 516	2 745 032	6 694 104	X	X
32739	Other concrete product manufacturing	2004.. 60 619	2 147 405	44 479	95 488	1 356 446	5 611 465	3 591 672	9 199 203	1	1
		2003.. 60 987	2 016 241	46 021	94 958	1 309 448	5 164 545	3 250 907	8 380 490	2	3
		2002.. 66 044	2 161 349	49 329	99 427	1 372 580	5 576 250	3 249 409	8 819 037	X	X
327390	Other concrete product manufacturing	2004.. 60 619	2 147 405	44 479	95 488	1 356 446	5 611 465	3 591 672	9 199 203	1	1
		2003.. 60 987	2 016 241	46 021	94 958	1 309 448	5 164 545	3 250 907	8 380 490	2	3
		2002.. 66 044	2 161 349	49 329	99 427	1 372 580	5 576 250	3 249 409	8 819 037	X	X
3274	Lime and gypsum product manufacturing	2004.. 15 278	717 075	12 185	27 917	544 286	3 419 538	2 933 529	6 346 992	1	1
		2003.. 15 930	723 122	12 813	29 146	549 999	2 666 814	2 778 280	5 445 437	2	1
		2002.. 15 883	682 166	12 654	28 027	514 191	2 506 680	2 564 104	5 070 045	X	X
32741	Lime manufacturing	2004.. 3 928	181 482	2 867	6 661	125 390	777 566	494 209	1 269 739	1	1
		2003.. 3 673	166 552	2 821	6 629	123 742	455 447	455 447	1 009 391	1	2
		2002.. 3 914	172 619	2 985	6 822	127 196	578 982	437 107	1 015 520	X	X
327410	Lime manufacturing	2004.. 3 928	181 482	2 867	6 661	125 390	777 566	494 209	1 269 739	1	1
		2003.. 3 673	166 552	2 821	6 629	123 742	455 447	455 447	1 009 391	1	2
		2002.. 3 914	172 619	2 985	6 822	127 196	578 982	437 107	1 015 520	X	X
32742	Gypsum product manufacturing	2004.. 11 350	535 594	9 318	21 256	418 896	2 641 972	2 439 320	5 077 253	1	1
		2003.. 12 257	556 570	9 992	22 518	426 257	2 117 632	2 322 833	4 436 046	2	1
		2002.. 11 969	509 547	9 669	21 205	386 995	1 927 698	2 126 997	4 054 525	X	X
327420	Gypsum product manufacturing	2004.. 11 350	535 594	9 318	21 256	418 896	2 641 972	2 439 320	5 077 253	1	1
		2003.. 12 257	556 570	9 992	22 518	426 257	2 117 632	2 322 833	4 436 046	2	1
		2002.. 11 969	509 547	9 669	21 205	386 995	1 927 698	2 126 997	4 054 525	X	X
3279	Other nonmetallic mineral product manufacturing	2004.. 71 125	2 922 282	52 045	110 397	1 888 639	10 500 251	5 735 202	16 257 022	2	2
		2003.. 70 486	2 803 109	52 839	109 344	1 836 462	9 654 346	5 576 796	15 263 045	1	1
		2002.. 72 396	2 778 873	54 105	109 403	1 823 767	9 307 279	5 477 506	14 724 963	X	X
32791	Abrasive product manufacturing	2004.. 16 210	690 671	10 597	21 785	350 019	2 681 969	1 233 485	3 906 011	2	2
		2003.. 15 218	661 954	10 605	21 720	348 158	2 520 116	1 160 212	3 702 312	1	1
		2002.. 16 904	686 274	11 725	23 678	364 624	2 371 290	1 229 065	3 577 578	X	X
327910	Abrasive product manufacturing	2004.. 16 210	690 671	10 597	21 785	350 019	2 681 969	1 233 485	3 906 011	2	2
		2003.. 15 218	661 954	10 605	21 720	348 158	2 520 116	1 160 212	3 702 312	1	1
		2002.. 16 904	686 274	11 725	23 678	364 624	2 371 290	1 229 065	3 577 578	X	X
32799	All other nonmetallic mineral product manufacturing	2004.. 54 916	2 231 611	41 448	88 612	1 538 620	7 818 282	4 501 717	12 351 011	3	2
		2003.. 55 268	2 141 155	42 235	87 624	1 488 304	7 134 230	4 416 584	11 560 733	1	2
		2002.. 55 492	2 092 599	42 380	85 725	1 459 143	6 935 989	4 248 441	11 147 385	X	X
327991	Cut stone and stone product manufacturing	2004.. 22 255	781 340	16 904	34 876	546 240	1 611 934	812 882	2 423 929	4	3
		2003.. 20 630	704 041	16 152	32 972	500 721	1 574 500	734 808	2 298 959	3	3
		2002.. 20 476	683 542	16 042	31 651	488 918	1 527 618	725 655	2 239 181	X	X
327992	Ground or treated mineral and earth manufacturing	2004.. 5 809	266 137	3 770	7 925	158 133	1 460 311	725 665	2 208 823	4	4
		2003.. 7 355	308 979	5 145	10 487	197 664	1 539 216	746 902	2 281 074	4	4
		2002.. 6 736	274 424	4 633	9 484	172 342	1 400 218	654 848	2 044 083	X	X
327993	Mineral wool manufacturing	2004.. 18 063	843 906	15 040	33 479	643 009	3 433 234	1 974 253	5 429 878	7	4
		2003.. 18 269	798 628	14 989	32 165	604 299	2 940 905	1 971 668	4 936 592	1	2
		2002.. 19 405	816 527	15 882	33 072	622 796	2 976 712	1 974 044	4 936 657	X	X

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Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
		A	B	C	D	E				F	G
327	Nonmetallic mineral product manufacturing—Con.										
3279	Other nonmetallic mineral product manufacturing—Con.										
32799	All other nonmetallic mineral product manufacturing—Con.										
327999	All other miscellaneous nonmetallic mineral product manufacturing	2004.. 8 788	340 229	5 734	12 332	191 238	1 312 804	988 917	2 288 381	3	3
		2003.. 9 014	329 507	5 948	12 000	185 620	1 079 609	963 205	2 044 108	2	2
		2002.. 8 875	318 106	5 823	11 518	175 087	1 031 441	893 894	1 927 464	X	X
331	Primary metal manufacturing	2004.. 435 152	21 159 193	342 291	746 927	15 442 711	73 010 984	108 551 292	178 995 547	1	1
		2003.. 455 549	20 278 828	357 731	755 968	14 616 741	53 557 843	83 905 719	138 142 483	1	1
		2002.. 490 813	21 406 193	383 436	796 009	15 426 956	57 119 835	82 106 760	139 372 264	X	X
3311	Iron and steel mills and ferroalloy manufacturing	2004.. 109 322	6 757 885	87 183	188 453	5 259 129	31 444 750	43 504 512	73 854 622	1	3
		2003.. 111 752	6 065 296	88 571	184 042	4 628 620	17 667 985	30 695 999	49 113 886	1	1
		2002.. 121 029	6 333 681	94 557	197 977	4 794 625	18 781 088	28 947 414	47 790 804	X	X
33111	Iron and steel mills and ferroalloy manufacturing	2004.. 109 322	6 757 885	87 183	188 453	5 259 129	31 444 750	43 504 512	73 854 622	1	3
		2003.. 111 752	6 065 296	88 571	184 042	4 628 620	17 667 985	30 695 999	49 113 886	1	1
		2002.. 121 029	6 333 681	94 557	197 977	4 794 625	18 781 088	28 947 414	47 790 804	X	X
33111M	Iron and steel mills and ferroalloy manufacturing	2004.. 109 322	6 757 885	87 183	188 453	5 259 129	31 444 750	43 504 512	73 854 622	1	3
		2003.. 111 752	6 065 296	88 571	184 042	4 628 620	17 667 985	30 695 999	49 113 886	1	1
		2002.. 121 029	6 333 681	94 557	197 977	4 794 625	18 781 088	28 947 414	47 790 804	X	X
3312	Steel product manufacturing from purchased steel	2004.. 45 042	2 015 043	34 990	74 780	1 427 364	7 055 848	12 223 099	18 838 498	1	1
		2003.. 48 809	6 065 296	37 974	80 377	1 398 707	5 061 512	8 804 589	13 919 443	1	1
		2002.. 52 787	2 141 798	40 921	86 234	1 507 690	5 643 708	9 040 347	14 671 036	X	X
33121	Iron and steel pipe and tube manufacturing from purchased steel	2004.. 20 259	874 924	15 421	34 338	613 723	2 906 467	4 594 126	7 291 426	1	1
		2003.. 20 953	838 479	16 302	35 042	596 773	1 979 947	3 641 703	5 646 647	2	3
		2002.. 22 301	899 298	17 147	36 834	629 336	2 372 127	3 717 370	6 113 542	X	X
331210	Iron and steel pipe and tube manufacturing from purchased steel	2004.. 20 259	874 924	15 421	34 338	613 723	2 906 467	4 594 126	7 291 426	1	1
		2003.. 20 953	838 479	16 302	35 042	596 773	1 979 947	3 641 703	5 646 647	2	3
		2002.. 22 301	899 298	17 147	36 834	629 336	2 372 127	3 717 370	6 113 542	X	X
33122	Rolling and drawing of purchased steel	2004.. 24 783	1 140 119	19 569	40 441	813 641	4 149 381	7 628 973	11 547 072	2	2
		2003.. 27 856	1 141 101	21 672	45 335	801 935	3 081 565	5 162 887	8 272 795	1	2
		2002.. 30 486	1 242 500	23 774	49 400	878 354	3 271 581	5 322 977	8 557 494	X	X
33122M	Rolling and drawing of purchased steel	2004.. 24 783	1 140 119	19 569	40 441	813 641	4 149 381	7 628 973	11 547 072	2	2
		2003.. 27 856	1 141 101	21 672	45 335	801 935	3 081 565	5 162 887	8 272 795	1	2
		2002.. 30 486	1 242 500	23 774	49 400	878 354	3 271 581	5 322 977	8 557 494	X	X
3313	Alumina and aluminum production and processing	2004.. 63 538	2 942 543	48 825	111 418	2 031 038	9 404 100	22 348 867	31 470 672	1	1
		2003.. 68 297	2 933 753	52 390	116 335	2 011 216	8 460 160	19 296 067	27 524 227	1	1
		2002.. 70 360	3 088 420	53 644	112 738	2 132 182	9 406 420	18 940 725	28 273 349	X	X
33131	Alumina and aluminum production and processing	2004.. 63 538	2 942 543	48 825	111 418	2 031 038	9 404 100	22 348 867	31 470 672	1	1
		2003.. 68 297	2 933 753	52 390	116 335	2 011 216	8 460 160	19 296 067	27 524 227	1	1
		2002.. 70 360	3 088 420	53 644	112 738	2 132 182	9 406 420	18 940 725	28 273 349	X	X
331311	Alumina refining	2004.. 1 538	85 098	1 053	2 336	52 777	365 043	577 882	950 713	1	1
		2003.. 1 644	87 909	1 122	2 730	55 506	140 409	674 336	809 362	1	3
		2002.. 1 554	89 451	1 149	2 633	60 510	260 084	576 901	830 110	X	X
331312	Primary aluminum production	2004.. 10 213	525 300	8 054	17 095	381 437	2 172 239	3 048 416	5 154 953	1	1
		2003.. 11 141	544 077	8 623	18 213	391 119	1 674 860	2 853 279	4 552 419	1	1
		2002.. 12 197	630 139	9 341	19 242	465 738	1 776 932	2 890 663	4 748 435	X	X
331314	Secondary smelting and alloying of aluminum	2004.. 5 947	263 094	4 393	10 461	174 604	840 671	3 414 605	4 231 724	3	7
		2003.. 6 411	257 988	4 841	11 140	174 775	653 848	3 121 046	3 760 272	4	2
		2002.. 5 808	250 839	4 180	9 073	158 284	716 203	2 921 038	3 657 943	X	X
331316	Aluminum extruded product manufacturing	2004.. 25 426	979 981	20 033	45 087	680 101	2 384 626	4 148 259	6 476 458	1	1
		2003.. 27 174	1 003 817	21 417	48 349	687 474	2 218 064	3 496 418	5 709 684	2	2
		2002.. 27 879	1 002 228	21 915	45 354	683 318	2 328 137	3 419 760	5 753 639	X	X
33131N	Aluminum rolling and drawing	2004.. 20 416	1 089 070	15 291	36 438	742 120	3 641 521	11 159 704	14 656 824	1	1
		2003.. 21 926	1 039 962	16 387	35 904	702 343	3 772 980	9 150 988	12 692 490	1	1
		2002.. 22 922	1 115 763	17 059	36 436	764 332	4 325 064	9 132 363	13 283 222	X	X
3314	Nonferrous metal (except aluminum) production and processing	2004.. 56 589	2 654 297	40 632	87 703	1 676 015	9 610 840	17 624 944	26 738 866	1	2
		2003.. 60 830	2 666 517	43 847	93 025	1 694 854	8 032 750	14 053 228	22 123 747	1	2
		2002.. 66 884	2 863 699	48 237	98 933	1 811 513	7 904 084	13 988 247	22 064 424	X	X

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
331	Primary metal manufacturing—Con.										
3314	Nonferrous metal (except aluminum) production and processing—Con.										
33141	Nonferrous metal (except aluminum) smelting and refining	2004.. 7 938	410 736	5 500	12 424	244 521	2 384 947	4 034 089	6 319 913	3	1
		2003.. 8 646	414 340	5 976	12 936	250 754	1 660 482	3 147 567	4 790 900	1	1
		2002.. 10 484	482 516	7 198	15 006	295 098	1 767 883	3 150 549	4 958 460	X	X
331411	Primary smelting and refining of copper	2004.. 1 428	66 580	1 162	2 547	51 812	1 302 582	2 232 416	3 438 879	1	1
		2003.. 1 469	64 482	1 187	2 586	49 810	655 030	1 704 694	2 314 119	1	1
		2002.. 2 672	110 727	2 169	4 443	84 375	787 249	1 772 004	2 615 052	X	X
331419	Primary smelting and refining of nonferrous metal (except copper and aluminum)	2004.. 6 510	344 156	4 338	9 877	192 709	1 082 365	1 801 673	2 881 034	4	3
		2003.. 7 177	349 858	4 789	10 350	200 944	1 005 452	1 442 872	2 476 781	2	2
		2002.. 7 812	371 789	5 029	10 563	210 723	980 634	1 378 545	2 343 408	X	X
33142	Copper rolling, drawing, extruding, and alloying	2004.. 25 133	1 113 262	19 168	41 043	752 411	3 531 922	9 646 409	12 890 476	1	1
		2003.. 27 252	1 141 030	20 577	43 542	755 913	3 266 479	7 192 394	10 411 474	1	2
		2002.. 30 001	1 213 118	22 609	46 254	792 248	3 147 259	7 039 648	10 216 754	X	X
33142M	Copper rolling, drawing, extruding, and alloying	2004.. 25 133	1 113 262	19 168	41 043	752 411	3 531 922	9 646 409	12 890 476	1	1
		2003.. 27 252	1 141 030	20 577	43 542	755 913	3 266 479	7 192 394	10 411 474	1	2
		2002.. 30 001	1 213 118	22 609	46 254	792 248	3 147 259	7 039 648	10 216 754	X	X
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying	2004.. 23 519	1 130 299	15 964	34 235	679 083	3 693 970	3 944 445	7 528 477	2	4
		2003.. 24 933	1 111 146	17 293	36 547	688 186	3 105 789	3 713 268	6 921 373	1	3
		2002.. 26 399	1 168 065	18 430	37 673	724 167	2 988 942	3 798 050	6 889 210	X	X
33149M	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying	2004.. 23 519	1 130 299	15 964	34 235	679 083	3 693 970	3 944 445	7 528 477	2	4
		2003.. 24 933	1 111 146	17 293	36 547	688 186	3 105 789	3 713 268	6 921 373	1	3
		2002.. 26 399	1 168 065	18 430	37 673	724 167	2 988 942	3 798 050	6 889 210	X	X
3315	Foundries	2004.. 160 661	6 789 425	130 662	284 574	5 049 165	15 495 446	12 849 870	28 092 889	1	1
		2003.. 165 861	6 633 682	134 950	282 189	4 883 343	14 335 436	11 055 836	25 461 180	2	1
		2002.. 179 753	6 978 595	146 077	300 127	5 180 946	15 384 535	11 190 027	26 572 651	X	X
33151	Ferrous metal foundries	2004.. 91 034	4 110 780	73 988	165 947	3 103 860	9 192 484	7 872 933	16 828 060	1	1
		2003.. 89 696	3 854 627	72 953	152 600	2 894 703	8 171 990	6 317 133	14 567 853	1	1
		2002.. 99 537	4 118 926	80 791	165 993	3 090 764	8 790 831	6 238 964	15 023 108	X	X
33151M	Ferrous metal foundries	2004.. 91 034	4 110 780	73 988	165 947	3 103 860	9 192 484	7 872 933	16 828 060	1	1
		2003.. 89 696	3 854 627	72 953	152 600	2 894 703	8 171 990	6 317 133	14 567 853	1	1
		2002.. 99 537	4 118 926	80 791	165 993	3 090 764	8 790 831	6 238 964	15 023 108	X	X
33152	Nonferrous metal foundries	2004.. 69 627	2 678 646	56 674	118 627	1 945 306	6 302 962	4 976 937	11 264 829	1	1
		2003.. 76 165	2 779 055	61 997	129 589	1 988 639	6 163 445	4 738 703	10 893 327	3	2
		2002.. 80 216	2 859 669	65 286	134 134	2 090 182	6 593 704	4 951 063	11 549 543	X	X
33152N	Aluminum foundries	2004.. 46 782	1 810 175	38 988	81 488	1 367 509	4 114 454	3 524 697	7 636 866	2	1
		2003.. 51 576	1 892 271	42 412	89 863	1 387 725	4 080 983	3 447 274	7 527 574	5	3
		2002.. 54 490	1 983 195	44 583	93 764	1 479 116	4 477 156	3 686 381	8 151 362	X	X
33152P	Foundries not aluminum	2004.. 22 845	868 471	17 686	37 139	577 796	2 188 508	1 452 240	3 627 963	2	2
		2003.. 24 589	886 784	19 585	39 727	600 914	2 082 462	1 291 429	3 365 752	2	2
		2002.. 25 726	876 474	20 703	40 370	611 066	2 116 548	1 264 682	3 398 181	X	X
332	Fabricated metal product manufacturing	2004.. 1 469 622	57 426 264	1 084 476	2 261 638	36 795 764	143 899 370	117 544 245	259 875 199	1	1
		2003.. 1 488 854	56 112 887	1 111 759	2 277 366	36 011 907	137 560 634	108 099 988	245 550 280	1	1
		2002.. 1 574 108	57 467 528	1 169 158	2 321 905	36 592 490	138 836 481	108 140 249	247 071 873	X	X
3321	Forging and stamping	2004.. 120 315	4 922 968	91 219	197 066	3 213 456	12 127 831	13 047 936	24 892 233	1	1
		2003.. 121 880	4 698 513	93 112	197 325	3 074 508	11 024 700	10 834 461	21 870 675	1	3
		2002.. 127 710	4 822 822	95 913	193 656	3 079 943	10 654 370	10 674 338	21 363 049	X	X
33211	Forging and stamping	2004.. 120 315	4 922 968	91 219	197 066	3 213 456	12 127 831	13 047 936	24 892 233	1	1
		2003.. 121 880	4 698 513	93 112	197 325	3 074 508	11 024 700	10 834 461	21 870 675	1	3
		2002.. 127 710	4 822 822	95 913	193 656	3 079 943	10 654 370	10 674 338	21 363 049	X	X
332114	Custom roll forming	2004.. 16 528	668 613	12 102	25 996	421 658	2 442 375	3 445 396	5 782 018	3	5
		2003.. 16 938	644 117	12 559	27 663	409 122	1 853 147	2 679 852	4 553 991	2	4
		2002.. 17 534	652 213	13 099	27 160	410 112	1 756 419	2 352 345	4 099 807	X	X
332117	Powder metallurgy parts manufacturing	2004.. 8 040	307 829	6 016	12 891	207 076	667 294	472 161	1 142 471	1	2
		2003.. 8 595	307 884	6 650	13 830	218 352	819 131	533 620	1 344 604	3	13
		2002.. 9 102	324 973	6 924	13 701	214 003	721 820	521 470	1 258 507	X	X
33211N	Forging	2004.. 28 262	1 275 861	21 874	51 581	873 437	3 161 075	3 747 149	6 833 411	2	1
		2003.. 28 000	1 227 771	20 849	47 784	801 586	2 671 485	3 296 417	5 972 498	2	2
		2002.. 31 846	1 310 434	23 370	47 288	847 849	2 837 556	3 273 335	6 147 012	X	X
33211P	Crown, closure, and metal stamping manufacturing	2004.. 67 486	2 670 665	51 226	106 598	1 711 286	5 857 087	5 383 230	11 134 334	2	2
		2003.. 68 348	2 518 740	53 054	108 048	1 645 448	5 680 936	4 324 572	9 999 582	1	5
		2002.. 69 228	2 535 202	52 520	105 507	1 607 979	5 338 575	4 527 188	9 857 723	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
		A	B	C	D	E				F	G
332	Fabricated metal product manufacturing—Con.										
3322	Cutlery and handtool manufacturing	2004.. 55 498	2 203 069	40 109	79 404	1 308 911	6 364 134	3 990 762	10 351 489	2	1
		2003.. 60 559	2 278 088	44 673	87 039	1 378 220	6 430 165	4 075 615	10 514 788	1	1
		2002.. 64 686	2 404 792	47 274	93 580	1 439 486	6 754 220	4 324 717	11 051 011	X	X
33221	Cutlery and hand tool manufacturing	2004.. 55 498	2 203 069	40 109	79 404	1 308 911	6 364 134	3 990 762	10 351 489	2	1
		2003.. 60 559	2 278 088	44 673	87 039	1 378 220	6 430 165	4 075 615	10 514 788	1	1
		2002.. 64 686	2 404 792	47 274	93 580	1 439 486	6 754 220	4 324 717	11 051 011	X	X
33221N	Cutlery, kitchen utensil, pot, and pan manufacturing	2004.. 11 227	479 887	8 351	16 335	299 530	1 898 474	1 257 535	3 131 848	1	1
		2003.. 13 065	523 598	10 019	19 341	335 989	1 963 824	1 410 363	3 364 551	2	2
		2002.. 13 083	526 580	9 847	18 954	327 710	1 935 990	1 392 109	3 301 854	X	X
33221P	Hand tool and saw blade manufacturing	2004.. 44 271	1 723 182	31 758	63 069	1 009 381	4 465 660	2 733 227	7 219 641	2	2
		2003.. 47 495	1 754 489	34 655	67 698	1 042 231	4 466 341	2 665 252	7 150 237	1	1
		2002.. 51 603	1 878 212	37 427	74 626	1 111 776	4 818 230	2 932 608	7 749 157	X	X
3323	Architectural and structural metals manufacturing	2004.. 362 088	13 391 593	259 464	532 398	8 213 213	32 004 047	32 118 170	63 681 845	2	1
		2003.. 370 545	13 138 010	266 897	543 914	8 054 133	30 118 992	28 989 208	59 086 743	1	1
		2002.. 386 673	13 449 378	277 690	549 948	8 192 153	31 269 393	28 777 430	59 994 965	X	X
33231	Plate work and fabricated structural product manufacturing	2004.. 149 720	5 848 262	106 416	217 282	3 618 392	14 095 775	15 473 500	29 387 404	4	2
		2003.. 152 843	5 753 344	106 827	218 540	3 494 025	13 420 883	13 918 694	27 268 178	1	2
		2002.. 162 966	6 019 425	114 950	230 826	3 657 272	14 209 482	14 018 554	28 136 749	X	X
33231M	Plate work and fabricated structural product manufacturing	2004.. 149 720	5 848 262	106 416	217 282	3 618 392	14 095 775	15 473 500	29 387 404	4	2
		2003.. 152 843	5 753 344	106 827	218 540	3 494 025	13 420 883	13 918 694	27 268 178	1	2
		2002.. 162 966	6 019 425	114 950	230 826	3 657 272	14 209 482	14 018 554	28 136 749	X	X
33232	Ornamental and architectural metal work manufacturing	2004.. 212 368	7 543 331	153 048	315 116	4 594 821	17 908 272	16 644 670	34 294 442	1	1
		2003.. 217 701	7 384 666	160 070	325 374	4 560 108	16 698 110	15 070 513	31 818 565	1	1
		2002.. 223 707	7 429 953	162 740	319 122	4 534 881	17 059 911	14 758 876	31 858 216	X	X
33232M	Ornamental and architectural metal work manufacturing	2004.. 212 368	7 543 331	153 048	315 116	4 594 821	17 908 272	16 644 670	34 294 442	1	1
		2003.. 217 701	7 384 666	160 070	325 374	4 560 108	16 698 110	15 070 513	31 818 565	1	1
		2002.. 223 707	7 429 953	162 740	319 122	4 534 881	17 059 911	14 758 876	31 858 216	X	X
3324	Boiler, tank, and shipping container manufacturing	2004.. 82 757	3 528 633	61 636	128 161	2 365 184	10 190 648	13 069 383	23 157 073	1	1
		2003.. 84 845	3 538 451	65 184	138 952	2 412 660	10 230 658	12 489 997	22 722 085	1	2
		2002.. 88 617	3 536 363	67 460	139 369	2 397 822	10 181 602	12 712 709	22 982 718	X	X
33241	Power boiler and heat exchanger manufacturing	2004.. 16 879	744 207	11 451	23 518	430 363	1 664 757	1 539 588	3 202 699	5	4
		2003.. 18 824	789 669	13 247	26 911	469 936	1 935 699	1 350 179	3 276 456	2	9
		2002.. 19 798	792 931	13 805	28 435	472 900	1 888 967	1 661 805	3 579 486	X	X
332410	Power boiler and heat exchanger manufacturing	2004.. 16 879	744 207	11 451	23 518	430 363	1 664 757	1 539 588	3 202 699	5	4
		2003.. 18 824	789 669	13 247	26 911	469 936	1 935 699	1 350 179	3 276 456	2	9
		2002.. 19 798	792 931	13 805	28 435	472 900	1 888 967	1 661 805	3 579 486	X	X
33242	Metal tank (heavy gauge) manufacturing	2004.. 29 671	1 205 899	21 440	42 725	767 820	2 681 777	2 280 390	4 887 867	2	2
		2003.. 29 366	1 155 865	21 709	44 012	746 133	2 655 910	2 096 834	4 725 256	2	2
		2002.. 30 545	1 170 155	22 440	44 750	751 346	2 557 282	2 132 947	4 710 587	X	X
332420	Metal tank (heavy gauge) manufacturing	2004.. 29 671	1 205 899	21 440	42 725	767 820	2 681 777	2 280 390	4 887 867	2	2
		2003.. 29 366	1 155 865	21 709	44 012	746 133	2 655 910	2 096 834	4 725 256	2	2
		2002.. 30 545	1 170 155	22 440	44 750	751 346	2 557 282	2 132 947	4 710 587	X	X
33243	Metal can, box, and other metal container (light gauge) manufacturing	2004.. 36 207	1 578 527	28 746	61 918	1 167 001	5 844 114	9 249 404	15 066 508	1	1
		2003.. 36 655	1 592 918	30 228	68 029	1 196 590	5 639 049	9 042 985	14 720 373	1	1
		2002.. 38 274	1 573 277	31 215	66 184	1 173 576	5 735 353	8 917 957	14 692 645	X	X
33243M	Metal can, box, and other metal container (light gauge) manufacturing	2004.. 36 207	1 578 527	28 746	61 918	1 167 001	5 844 114	9 249 404	15 066 508	1	1
		2003.. 36 655	1 592 918	30 228	68 029	1 196 590	5 639 049	9 042 985	14 720 373	1	1
		2002.. 38 274	1 573 277	31 215	66 184	1 173 576	5 735 353	8 917 957	14 692 645	X	X
3325	Hardware manufacturing	2004.. 51 086	1 890 695	38 231	78 281	1 165 242	5 736 294	4 423 622	10 111 299	1	1
		2003.. 56 344	1 986 692	42 208	82 772	1 209 968	5 959 690	4 334 059	10 351 007	1	1
		2002.. 60 986	2 080 576	46 454	91 696	1 293 444	6 034 496	4 374 886	10 414 354	X	X
33251	Hardware manufacturing	2004.. 51 086	1 890 695	38 231	78 281	1 165 242	5 736 294	4 423 622	10 111 299	1	1
		2003.. 56 344	1 986 692	42 208	82 772	1 209 968	5 959 690	4 334 059	10 351 007	1	1
		2002.. 60 986	2 080 576	46 454	91 696	1 293 444	6 034 496	4 374 886	10 414 354	X	X
332510	Hardware manufacturing	2004.. 51 086	1 890 695	38 231	78 281	1 165 242	5 736 294	4 423 622	10 111 299	1	1
		2003.. 56 344	1 986 692	42 208	82 772	1 209 968	5 959 690	4 334 059	10 351 007	1	1
		2002.. 60 986	2 080 576	46 454	91 696	1 293 444	6 034 496	4 374 886	10 414 354	X	X

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Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
		A	B	C	D	E					
332	Fabricated metal product manufacturing—Con.										
3326	Spring and wire product manufacturing	2004.. 56 068	1 923 798	42 721	90 750	1 245 687	4 836 148	4 392 502	9 165 707	2	1
		2003.. 61 458	2 008 326	48 358	98 030	1 330 050	4 939 952	4 058 743	9 006 828	1	2
		2002.. 62 459	1 999 584	48 567	96 461	1 297 731	5 022 449	3 924 846	8 953 179	X	X
33261	Spring and wire product manufacturing	2004.. 56 068	1 923 798	42 721	90 750	1 245 687	4 836 148	4 392 502	9 165 707	2	1
		2003.. 61 458	2 008 326	48 358	98 030	1 330 050	4 939 952	4 058 743	9 006 828	1	2
		2002.. 62 459	1 999 584	48 567	96 461	1 297 731	5 022 449	3 924 846	8 953 179	X	X
33261M	Spring and wire product manufacturing	2004.. 56 068	1 923 798	42 721	90 750	1 245 687	4 836 148	4 392 502	9 165 707	2	1
		2003.. 61 458	2 008 326	48 358	98 030	1 330 050	4 939 952	4 058 743	9 006 828	1	2
		2002.. 62 459	1 999 584	48 567	96 461	1 297 731	5 022 449	3 924 846	8 953 179	X	X
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2004.. 349 771	13 972 741	261 785	552 751	9 466 288	28 749 382	16 750 591	45 564 343	1	2
		2003.. 337 304	13 410 990	257 141	535 584	9 118 602	27 804 870	14 761 043	42 268 411	1	1
		2002.. 361 016	13 577 066	273 141	537 825	9 089 563	28 153 887	14 635 060	42 766 046	X	X
33271	Machine shops	2004.. 238 371	9 397 751	177 279	364 419	6 351 012	18 076 182	10 209 468	28 594 316	1	3
		2003.. 222 808	8 882 410	169 650	342 198	6 016 464	17 744 818	8 711 099	26 256 929	1	2
		2002.. 240 238	8 983 183	180 618	348 768	5 977 126	17 820 897	8 512 175	26 312 546	X	X
332710	Machine shops	2004.. 238 371	9 397 751	177 279	364 419	6 351 012	18 076 182	10 209 468	28 594 316	1	3
		2003.. 222 808	8 882 410	169 650	342 198	6 016 464	17 744 818	8 711 099	26 256 929	1	2
		2002.. 240 238	8 983 183	180 618	348 768	5 977 126	17 820 897	8 512 175	26 312 546	X	X
33272	Turned product and screw, nut, and bolt manufacturing	2004.. 111 399	4 574 990	84 505	188 332	3 115 276	10 673 200	6 541 123	16 970 028	1	1
		2003.. 114 496	4 528 581	87 491	193 385	3 102 138	10 060 052	6 049 944	16 011 482	2	1
		2002.. 120 778	4 593 883	92 523	189 057	3 112 437	10 332 990	6 122 885	16 453 500	X	X
332721	Precision turned product manufacturing	2004.. 71 662	2 873 179	55 571	124 359	2 018 234	5 902 268	3 146 928	8 956 745	2	2
		2003.. 70 341	2 737 875	55 479	122 858	1 951 503	5 674 171	2 805 196	8 425 512	2	2
		2002.. 76 088	2 803 015	59 209	119 677	1 957 069	5 904 896	2 797 528	8 699 588	X	X
332722	Bolt, nut, screw, rivet, and washer manufacturing	2004.. 39 737	1 701 811	28 934	63 972	1 097 043	4 770 932	3 394 195	8 013 283	2	2
		2003.. 44 156	1 790 706	32 011	70 527	1 150 635	4 385 881	3 244 748	7 585 970	1	2
		2002.. 44 690	1 790 868	33 314	69 380	1 155 368	4 428 094	3 325 357	7 753 912	X	X
3328	Coating, engraving, heat treating, and allied activities	2004.. 129 158	4 649 047	98 991	210 875	3 116 883	11 953 380	8 384 256	20 182 669	1	1
		2003.. 128 156	4 452 281	99 567	202 708	2 978 474	10 576 739	7 908 959	18 490 161	2	2
		2002.. 138 241	4 691 773	106 903	210 814	3 113 954	11 147 779	7 859 968	18 940 417	X	X
33281	Coating, engraving, heat treating, and allied activities	2004.. 129 158	4 649 047	98 991	210 875	3 116 883	11 953 380	8 384 256	20 182 669	1	1
		2003.. 128 156	4 452 281	99 567	202 708	2 978 474	10 576 739	7 908 959	18 490 161	2	2
		2002.. 138 241	4 691 773	106 903	210 814	3 113 954	11 147 779	7 859 968	18 940 417	X	X
33281M	Coating, engraving, heat treating, and allied activities	2004.. 129 158	4 649 047	98 991	210 875	3 116 883	11 953 380	8 384 256	20 182 669	1	1
		2003.. 128 156	4 452 281	99 567	202 708	2 978 474	10 576 739	7 908 959	18 490 161	2	2
		2002.. 138 241	4 691 773	106 903	210 814	3 113 954	11 147 779	7 859 968	18 940 417	X	X
3329	Other fabricated metal product manufacturing	2004.. 262 880	10 943 721	190 318	391 954	6 700 900	31 937 506	21 367 023	52 768 540	1	1
		2003.. 267 761	10 601 535	194 618	391 042	6 455 292	30 474 869	20 647 904	51 239 581	1	1
		2002.. 283 720	10 905 174	205 756	408 556	6 688 394	29 618 285	20 856 295	50 606 134	X	X
33291	Metal valve manufacturing	2004.. 99 294	4 334 366	68 189	145 422	2 473 517	13 139 879	9 092 741	22 045 149	1	1
		2003.. 102 166	4 203 320	70 023	141 886	2 357 670	12 535 936	8 853 895	21 414 463	1	1
		2002.. 109 716	4 328 033	75 284	150 903	2 444 829	12 461 428	9 013 625	21 564 138	X	X
332913	Plumbing fixture fitting and trim manufacturing	2004.. 11 461	493 122	8 658	20 471	309 989	1 744 539	1 736 213	3 423 108	5	5
		2003.. 12 410	463 186	9 317	18 324	284 917	1 676 633	1 730 084	3 392 785	1	2
		2002.. 13 961	480 264	10 463	21 058	298 367	1 754 278	1 743 989	3 526 844	X	X
33291N	Valve and fitting (except plumbing) manufacturing	2004.. 87 832	3 841 244	59 531	124 951	2 163 529	11 395 340	7 356 528	18 622 041	1	1
		2003.. 89 756	3 740 134	60 706	123 562	2 072 753	10 859 302	7 123 810	18 021 677	1	1
		2002.. 95 755	3 847 769	64 821	129 845	2 146 462	10 707 150	7 269 636	18 037 294	X	X
33299	All other fabricated metal product manufacturing	2004.. 163 587	6 609 355	122 130	246 532	4 227 383	18 797 627	12 274 282	30 723 392	1	2
		2003.. 165 595	6 398 215	124 595	249 155	4 097 622	17 938 934	11 794 009	29 825 118	1	1
		2002.. 174 004	6 577 141	130 472	257 653	4 243 565	17 156 857	11 842 670	29 041 996	X	X
332991	Ball and roller bearing manufacturing	2004.. 27 217	1 180 544	21 536	42 590	835 655	4 070 395	2 226 207	6 232 753	3	2
		2003.. 27 655	1 111 208	22 717	44 866	831 844	3 699 011	2 058 200	5 802 020	1	1
		2002.. 29 351	1 211 769	24 186	47 997	913 585	3 510 968	2 187 120	5 732 895	X	X
332992	Small arms ammunition manufacturing	2004.. 7 281	330 681	5 851	12 596	233 641	946 639	493 337	1 444 162	1	1
		2003.. 7 304	312 912	5 755	12 287	220 570	880 670	431 858	1 311 418	1	1
		2002.. 6 740	269 205	5 244	10 962	194 921	756 249	387 578	1 099 908	X	X
332993	Ammunition (except small arms) manufacturing	2004.. 7 340	352 840	4 685	9 402	174 353	1 114 276	463 784	1 534 317	2	4
		2003.. 6 270	279 289	3 247	6 404	105 171	731 761	311 239	1 019 836	1	1
		2002.. 6 770	291 149	3 661	6 586	115 462	818 636	337 653	1 157 921	X	X

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
332	Fabricated metal product manufacturing—Con.										
3329	Other fabricated metal product manufacturing—Con.										
33299	All other fabricated metal product manufacturing—Con.										
332994	Small arms manufacturing	2004.. 11 018	479 184	8 029	16 800	271 800	1 340 240	604 600	1 931 204	1	3
		2003.. 11 069	439 289	8 180	16 106	251 977	1 414 743	595 846	2 093 908	1	1
		2002.. 10 020	399 902	7 597	15 249	238 952	1 133 551	465 686	1 611 067	X	X
332995	Other ordnance and accessories manufacturing	2004.. 4 584	280 256	2 094	4 064	90 803	1 019 614	468 412	1 517 110	1	1
		2003.. 4 440	268 242	1 967	3 840	79 833	1 017 890	546 259	1 524 451	1	1
		2002.. 5 271	296 436	2 114	4 241	84 829	828 628	443 493	1 247 366	X	X
332996	Fabricated pipe and pipe fitting manufacturing	2004.. 23 935	859 460	18 565	35 993	568 987	2 013 666	1 855 255	3 883 396	3	3
		2003.. 23 926	837 237	18 408	38 715	550 698	1 949 065	1 711 994	3 679 007	4	4
		2002.. 26 499	894 198	20 486	40 294	596 710	2 097 905	1 738 425	3 857 321	X	X
33299N	Other fabricated metal products manufacturing	2004.. 82 212	3 126 390	61 370	125 087	2 052 144	8 292 796	6 162 688	14 180 450	2	3
		2003.. 84 930	3 150 040	64 322	126 937	2 057 529	8 245 794	6 138 613	14 394 478	2	1
		2002.. 89 353	3 214 482	67 184	132 324	2 099 106	8 010 920	6 282 715	14 335 518	X	X
333	Machinery manufacturing	2004.. 1 053 956	48 224 627	666 413	1 376 657	25 004 415	133 825 950	136 580 258	269 203 232	1	1
		2003.. 1 097 572	48 158 439	697 716	1 406 753	24 810 793	126 706 166	129 755 374	257 374 593	1	1
		2002.. 1 166 699	49 510 764	734 524	1 443 209	25 437 573	129 149 879	124 841 709	255 272 758	X	X
3331	Agriculture, construction, and mining machinery manufacturing	2004.. 167 183	7 265 180	110 363	227 936	4 194 446	26 918 377	33 969 936	60 292 737	1	1
		2003.. 168 911	6 974 502	113 246	229 447	3 964 152	20 894 221	30 326 413	51 326 376	1	1
		2002.. 170 123	7 037 280	113 624	226 374	3 960 680	20 622 468	27 399 714	48 401 708	X	X
33311	Agricultural implement manufacturing	2004.. 74 103	2 925 771	52 618	108 643	1 850 908	10 827 100	14 453 469	25 108 642	1	1
		2003.. 76 449	2 816 431	54 438	107 658	1 722 225	9 945 999	13 464 945	23 409 967	2	2
		2002.. 75 500	2 799 965	54 933	109 894	1 734 647	9 468 791	12 268 894	21 862 765	X	X
333111	Farm machinery and equipment manufacturing	2004.. 51 762	2 181 612	34 837	72 518	1 348 393	8 282 419	9 323 328	17 412 431	2	1
		2003.. 53 862	2 113 031	36 119	71 809	1 250 669	7 285 621	8 108 044	15 504 715	3	2
		2002.. 53 051	2 109 761	36 972	74 359	1 283 242	6 952 765	7 788 030	14 781 379	X	X
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing	2004.. 22 341	744 159	17 780	36 125	502 515	2 544 681	5 130 141	7 696 211	2	2
		2003.. 22 587	703 400	18 320	35 848	471 556	2 660 378	5 356 901	7 905 252	1	2
		2002.. 22 449	690 204	17 961	35 535	451 405	2 516 026	4 480 864	7 081 386	X	X
33312	Construction machinery manufacturing	2004.. 55 325	2 471 603	35 514	72 787	1 455 159	11 773 195	15 081 772	26 506 356	1	1
		2003.. 54 050	2 363 050	34 562	70 734	1 355 777	7 421 301	12 634 056	20 185 025	2	2
		2002.. 56 935	2 515 298	35 787	70 053	1 367 525	7 567 053	11 212 272	19 058 771	X	X
333120	Construction machinery manufacturing	2004.. 55 325	2 471 603	35 514	72 787	1 455 159	11 773 195	15 081 772	26 506 356	1	1
		2003.. 54 050	2 363 050	34 562	70 734	1 355 777	7 421 301	12 634 056	20 185 025	2	2
		2002.. 56 935	2 515 298	35 787	70 053	1 367 525	7 567 053	11 212 272	19 058 771	X	X
33313	Mining and oil and gas field machinery manufacturing	2004.. 37 755	1 867 805	22 231	46 506	888 379	4 318 081	4 434 695	8 677 739	2	2
		2003.. 38 412	1 795 020	24 246	51 055	886 150	3 526 922	4 227 412	7 731 384	4	4
		2002.. 37 688	1 722 017	22 904	46 427	858 508	3 586 624	3 918 548	7 480 172	X	X
33313M	Mining and oil and gas field machinery manufacturing	2004.. 37 755	1 867 805	22 231	46 506	888 379	4 318 081	4 434 695	8 677 739	2	2
		2003.. 38 412	1 795 020	24 246	51 055	886 150	3 526 922	4 227 412	7 731 384	4	4
		2002.. 37 688	1 722 017	22 904	46 427	858 508	3 586 624	3 918 548	7 480 172	X	X
3332	Industrial machinery manufacturing	2004.. 132 667	6 991 819	70 464	142 975	2 711 630	18 836 822	15 009 832	33 659 672	2	1
		2003.. 137 473	7 052 204	72 729	142 403	2 737 528	16 450 425	14 336 319	31 252 342	1	1
		2002.. 153 894	7 449 145	79 412	154 560	2 879 588	18 123 302	15 009 528	33 037 247	X	X
33321	Sawmill and woodworking machinery manufacturing	2004.. 6 383	277 394	4 022	8 349	138 544	610 327	452 540	1 073 344	4	7
		2003.. 6 587	263 861	3 901	7 895	127 105	596 247	456 238	1 040 199	3	3
		2002.. 6 806	262 382	4 094	8 064	128 897	536 360	471 070	1 031 410	X	X
333210	Sawmill and woodworking machinery manufacturing	2004.. 6 383	277 394	4 022	8 349	138 544	610 327	452 540	1 073 344	4	7
		2003.. 6 587	263 861	3 901	7 895	127 105	596 247	456 238	1 040 199	3	3
		2002.. 6 806	262 382	4 094	8 064	128 897	536 360	471 070	1 031 410	X	X
33322	Plastics and rubber industry machinery manufacturing	2004.. 14 507	707 833	8 127	15 784	304 297	1 578 726	1 476 068	3 070 597	6	4
		2003.. 14 401	688 840	7 787	15 497	290 513	1 501 825	1 340 384	2 843 683	3	2
		2002.. 16 530	744 981	9 014	17 517	318 448	1 545 928	1 439 025	3 046 474	X	X
333220	Plastics and rubber industry machinery manufacturing	2004.. 14 507	707 833	8 127	15 784	304 297	1 578 726	1 476 068	3 070 597	6	4
		2003.. 14 401	688 840	7 787	15 497	290 513	1 501 825	1 340 384	2 843 683	3	2
		2002.. 16 530	744 981	9 014	17 517	318 448	1 545 928	1 439 025	3 046 474	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
333	Machinery manufacturing—Con.										
3332	Industrial machinery manufacturing—Con.										
33329	Other industrial machinery manufacturing	2004.. 111 777	6 006 592	58 315	118 842	2 268 789	16 647 769	13 081 223	29 515 731	2	1
		2003.. 116 485	6 099 502	61 042	119 012	2 319 910	14 352 352	12 539 698	27 368 460	1	1
		2002.. 130 558	6 441 782	66 304	128 979	2 432 243	16 041 014	13 099 433	28 959 363	X	X
333295	Semiconductor machinery manufacturing	2004.. 27 212	1 961 807	11 648	23 821	474 762	8 145 387	5 458 600	13 411 898	3	1
		2003.. 30 723	2 025 510	13 344	25 727	556 303	5 747 067	4 917 003	11 100 864	1	1
		2002.. 34 998	2 137 501	14 564	28 761	583 613	6 979 822	5 520 987	12 234 067	X	X
33329N	Other machinery manufacturing	2004.. 84 565	4 044 785	46 667	95 021	1 794 027	8 502 382	7 622 623	16 103 833	2	2
		2003.. 85 762	4 073 992	47 698	93 285	1 763 607	8 605 286	7 622 695	16 267 597	1	1
		2002.. 95 560	4 304 281	51 740	100 218	1 848 630	9 061 192	7 578 446	16 725 296	X	X
3333	Commercial and service industry machinery manufacturing	2004.. 88 274	3 972 168	50 814	102 258	1 709 565	11 216 179	9 467 137	20 584 806	1	1
		2003.. 93 492	4 067 948	53 628	107 374	1 738 318	10 978 167	8 983 272	19 974 303	1	1
		2002.. 100 943	4 227 904	57 445	112 927	1 799 422	11 078 142	9 514 083	20 548 592	X	X
33331	Commercial and service industry machinery manufacturing	2004.. 88 274	3 972 168	50 814	102 258	1 709 565	11 216 179	9 467 137	20 584 806	1	1
		2003.. 93 492	4 067 948	53 628	107 374	1 738 318	10 978 167	8 983 272	19 974 303	1	1
		2002.. 100 943	4 227 904	57 445	112 927	1 799 422	11 078 142	9 514 083	20 548 592	X	X
333313	Office machinery manufacturing	2004.. 7 054	350 491	2 822	5 366	85 151	1 241 995	932 582	2 173 644	2	4
		2003.. 7 049	332 805	2 964	5 498	85 847	1 064 362	871 511	1 940 699	2	3
		2002.. 10 118	449 184	3 862	7 143	125 731	1 434 022	1 101 418	2 554 334	X	X
333314	Optical instrument and lens manufacturing	2004.. 16 358	873 518	9 612	19 959	411 008	1 942 850	1 191 487	3 079 397	2	3
		2003.. 17 918	900 445	10 323	21 983	423 855	1 804 117	1 179 659	3 011 765	4	4
		2002.. 17 395	852 704	10 149	21 092	388 538	1 772 270	1 067 103	2 826 308	X	X
333315	Photographic and photocopying equipment manufacturing	2004.. 6 917	291 843	4 055	7 954	135 753	1 016 382	1 054 025	2 083 681	3	3
		2003.. 7 724	332 625	4 608	8 941	151 455	1 048 817	996 843	2 020 699	4	4
		2002.. 8 873	367 579	5 265	9 720	161 906	932 342	1 034 094	1 965 240	X	X
33331N	All other commercial and service industry machinery manufacturing	2004.. 57 946	2 456 316	34 324	68 979	1 077 652	7 014 953	6 289 043	13 248 084	1	1
		2003.. 60 801	2 502 074	35 733	70 951	1 077 161	7 060 871	5 935 259	13 001 140	2	2
		2002.. 64 557	2 558 437	38 169	74 972	1 123 247	6 939 508	6 311 468	13 202 710	X	X
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2004.. 145 037	5 342 835	104 811	210 569	3 156 417	16 964 391	16 937 085	33 758 679	1	1
		2003.. 150 971	5 425 388	109 243	215 973	3 213 904	16 989 125	15 858 749	32 737 412	1	1
		2002.. 157 811	5 500 279	113 982	221 532	3 257 476	16 583 587	15 443 981	32 182 650	X	X
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2004.. 145 037	5 342 835	104 811	210 569	3 156 417	16 964 391	16 937 085	33 758 679	1	1
		2003.. 150 971	5 425 388	109 243	215 973	3 213 904	16 989 125	15 858 749	32 737 412	1	1
		2002.. 157 811	5 500 279	113 982	221 532	3 257 476	16 583 587	15 443 981	32 182 650	X	X
333414	Heating equipment (except warm air furnaces) manufacturing	2004.. 20 536	774 624	13 693	27 721	384 007	2 571 519	1 897 661	4 430 593	2	2
		2003.. 20 291	745 618	13 023	26 562	370 190	2 360 283	1 692 891	4 121 889	1	2
		2002.. 22 265	763 148	14 270	28 894	375 761	2 265 448	1 733 250	4 016 955	X	X
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing	2004.. 99 669	3 707 969	73 559	146 724	2 288 470	12 348 073	13 186 629	25 451 059	1	1
		2003.. 104 646	3 775 799	77 471	151 423	2 337 419	12 272 649	12 411 974	24 535 103	1	1
		2002.. 108 252	3 815 129	80 400	154 467	2 364 877	12 061 236	11 879 456	24 065 204	X	X
33341N	Ventilation equipment manufacturing	2004.. 24 832	860 242	17 559	36 124	483 940	2 044 799	1 852 795	3 877 027	2	2
		2003.. 26 033	903 971	18 749	37 988	506 294	2 356 193	1 753 884	4 080 420	2	2
		2002.. 27 294	922 002	19 312	38 171	516 838	2 256 903	1 831 275	4 100 491	X	X
3335	Metalworking machinery manufacturing	2004.. 166 856	8 003 183	114 764	244 688	4 924 283	15 496 015	9 094 535	24 596 091	1	1
		2003.. 172 453	7 900 005	119 596	246 513	4 864 378	15 241 123	8 593 125	24 068 771	1	1
		2002.. 190 335	8 331 386	131 224	261 582	5 093 406	15 900 250	8 788 069	24 898 015	X	X
33351	Metalworking machinery manufacturing	2004.. 166 856	8 003 183	114 764	244 688	4 924 283	15 496 015	9 094 535	24 596 091	1	1
		2003.. 172 453	7 900 005	119 596	246 513	4 864 378	15 241 123	8 593 125	24 068 771	1	1
		2002.. 190 335	8 331 386	131 224	261 582	5 093 406	15 900 250	8 788 069	24 898 015	X	X
333511	Industrial mold manufacturing	2004.. 41 141	1 890 686	30 948	66 136	1 329 725	3 422 109	1 660 078	5 130 475	2	1
		2003.. 41 392	1 888 524	31 601	64 873	1 311 295	3 586 840	1 542 112	5 196 173	1	3
		2002.. 45 864	2 004 741	34 821	70 006	1 380 876	3 774 860	1 611 232	5 404 216	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
		A	B	C	D	E				F	G
333	Machinery manufacturing—Con.										
3335	Metalworking machinery manufacturing—Con.										
33351	Metalworking machinery manufacturing—Con.										
333512	Machine tool (metal cutting types) manufacturing	2004.. 16 058	862 852	8 172	17 555	367 094	1 639 744	1 803 174	3 442 389	2	2
		2003.. 16 267	821 641	7 998	17 495	344 410	1 437 970	1 577 029	3 060 422	1	4
		2002.. 18 129	863 280	9 320	18 508	366 147	1 479 823	1 553 185	3 106 018	X	X
333513	Machine tool (metal forming types) manufacturing	2004.. 7 084	368 446	4 446	9 463	196 166	709 315	534 672	1 231 695	4	3
		2003.. 7 649	368 707	4 451	9 174	185 284	654 440	510 681	1 168 194	2	3
		2002.. 7 578	355 905	4 357	8 748	180 172	666 950	497 692	1 165 067	X	X
333514	Special die and tool, die set, jig, and fixture manufacturing	2004.. 53 516	2 610 969	39 012	86 833	1 780 561	4 698 443	2 199 535	6 968 821	1	2
		2003.. 54 878	2 563 092	41 049	85 311	1 756 389	4 746 602	2 189 573	7 005 149	1	2
		2002.. 60 697	2 653 233	44 670	89 044	1 775 262	4 781 317	2 176 155	6 970 527	X	X
333515	Cutting tool and machine tool accessory manufacturing	2004.. 33 934	1 447 801	23 582	46 741	848 460	3 056 717	1 514 448	4 544 893	2	2
		2003.. 36 400	1 455 502	25 398	50 566	876 230	3 057 713	1 409 744	4 498 995	1	2
		2002.. 39 704	1 544 034	27 561	53 292	944 835	3 330 331	1 497 478	4 862 358	X	X
333516	Rolling mill machinery and equipment manufacturing	2004.. 2 423	127 557	1 463	3 246	66 214	278 090	209 927	479 062	2	4
		2003.. 2 477	123 572	1 406	2 985	60 007	270 113	232 853	510 722	2	4
		2002.. 2 673	136 635	1 545	3 386	64 399	268 072	230 867	508 048	X	X
333518	Other metalworking machinery manufacturing	2004.. 12 700	694 872	7 142	14 715	336 065	1 691 598	1 172 702	2 798 757	4	12
		2003.. 13 390	678 966	7 693	16 109	330 763	1 487 444	1 131 133	2 629 116	2	3
		2002.. 15 690	773 558	8 950	18 598	381 715	1 598 897	1 221 460	2 881 781	X	X
3336	Engine, turbine, and power transmission equipment manufacturing	2004.. 85 603	4 263 899	59 743	123 229	2 603 867	13 563 317	21 030 105	34 447 486	1	1
		2003.. 88 608	4 236 499	62 696	126 339	2 541 647	16 242 057	22 411 653	38 915 312	1	1
		2002.. 97 397	4 367 295	66 411	130 182	2 620 680	17 297 643	20 510 318	38 473 891	X	X
33361	Engine, turbine, and power transmission equipment manufacturing	2004.. 85 603	4 263 899	59 743	123 229	2 603 867	13 563 317	21 030 105	34 447 486	1	1
		2003.. 88 608	4 236 499	62 696	126 339	2 541 647	16 242 057	22 411 653	38 915 312	1	1
		2002.. 97 397	4 367 295	66 411	130 182	2 620 680	17 297 643	20 510 318	38 473 891	X	X
333611	Turbine and turbine generator set unit manufacturing	2004.. 15 159	860 462	8 313	17 295	450 851	3 067 238	3 126 735	6 255 056	2	2
		2003.. 16 029	924 540	9 882	21 132	497 109	7 011 594	6 478 142	13 631 033	3	1
		2002.. 19 486	1 004 848	11 579	23 420	564 440	7 673 779	6 693 267	14 966 426	X	X
333612	Speed changer, industrial high-speed drive, and gear manufacturing	2004.. 11 350	493 612	8 175	16 369	311 629	1 081 180	806 194	1 865 654	1	3
		2003.. 12 356	522 927	8 584	16 465	314 267	1 204 464	787 106	1 986 164	1	2
		2002.. 13 237	547 444	9 200	17 608	327 774	1 260 881	761 649	2 036 388	X	X
333613	Mechanical power transmission equipment manufacturing	2004.. 15 264	684 219	10 525	21 619	404 415	1 744 682	1 060 926	2 822 613	3	1
		2003.. 15 603	649 667	11 084	21 686	373 137	1 616 593	982 691	2 601 812	2	2
		2002.. 16 752	674 527	11 749	23 947	409 137	1 646 655	1 170 677	2 838 584	X	X
333618	Other engine equipment manufacturing	2004.. 43 829	2 225 606	32 731	67 947	1 436 970	7 670 217	16 036 250	23 504 163	2	1
		2003.. 44 620	2 139 364	33 146	67 057	1 357 134	6 409 405	14 163 715	20 696 303	1	1
		2002.. 47 922	2 140 476	33 883	65 207	1 319 329	6 716 328	11 884 725	18 632 493	X	X
3339	Other general purpose machinery manufacturing	2004.. 268 335	12 385 543	155 455	325 002	5 704 208	30 830 849	31 071 628	61 863 760	1	1
		2003.. 285 665	12 501 894	166 577	338 705	5 750 867	29 911 049	29 245 842	59 100 077	1	1
		2002.. 296 196	12 597 475	172 426	336 052	5 826 321	29 544 487	28 176 016	57 730 655	X	X
33391	Pump and compressor manufacturing	2004.. 53 297	2 556 465	28 245	58 418	1 078 201	7 259 260	7 304 605	14 541 244	1	2
		2003.. 58 517	2 567 169	30 516	63 340	1 096 599	6 780 486	6 999 634	13 731 986	6	2
		2002.. 55 913	2 468 234	30 793	60 290	1 078 787	6 204 183	6 499 056	12 691 176	X	X
333911	Pump and pumping equipment manufacturing	2004.. 31 177	1 445 295	16 895	35 476	674 878	4 261 406	3 898 871	8 167 480	1	1
		2003.. 31 010	1 393 270	17 872	38 343	631 571	4 130 806	3 737 392	7 834 210	2	1
		2002.. 31 805	1 392 912	18 046	35 743	637 814	3 582 830	3 351 065	6 962 635	X	X
333912	Air and gas compressor manufacturing	2004.. 18 294	927 168	9 560	19 252	337 149	2 523 269	2 895 835	5 372 111	3	5
		2003.. 23 495	989 491	10 509	20 940	394 788	2 098 200	2 792 078	4 974 902	15	7
		2002.. 20 060	898 632	10 580	20 426	371 383	2 164 362	2 684 430	4 795 611	X	X
333913	Measuring and dispensing pump manufacturing	2004.. 3 826	184 003	1 790	3 691	66 174	474 586	509 899	1 001 653	1	2
		2003.. 4 012	184 407	2 135	4 057	70 241	551 480	470 165	1 022 875	2	1
		2002.. 4 048	176 690	2 167	4 121	69 590	456 991	463 561	932 930	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
		A	B	C	D	E					
333	Machinery manufacturing—Con.										
3339	Other general purpose machinery manufacturing—Con.										
33392	Material handling equipment manufacturing	2004.. 73 867	3 271 687	45 606	97 283	1 656 904	7 718 211	10 365 586	17 928 558	2	2
		2003.. 76 905	3 290 900	48 107	97 914	1 615 287	7 129 925	9 410 774	16 606 760	1	1
		2002.. 82 148	3 333 596	49 682	99 226	1 654 120	7 048 515	8 926 355	16 056 903	X	X
33392M	Material handling equipment manufacturing	2004.. 73 867	3 271 687	45 606	97 283	1 656 904	7 718 211	10 365 586	17 928 558	2	2
		2003.. 76 905	3 290 900	48 107	97 914	1 615 287	7 129 925	9 410 774	16 606 760	1	1
		2002.. 82 148	3 333 596	49 682	99 226	1 654 120	7 048 515	8 926 355	16 056 903	X	X
33399	All other general purpose machinery manufacturing	2004.. 141 172	6 557 390	81 604	169 301	2 969 103	15 853 378	13 401 438	29 393 958	1	1
		2003.. 150 242	6 643 825	87 954	177 451	3 038 980	16 000 638	12 835 435	28 761 331	1	1
		2002.. 158 135	6 795 645	91 951	176 536	3 093 414	16 291 789	12 750 605	28 982 576	X	X
333991	Power-driven hand tool manufacturing	2004.. 9 618	402 680	6 927	13 910	223 676	1 243 703	1 545 699	2 771 352	2	4
		2003.. 11 475	445 997	8 142	15 175	245 989	1 600 166	1 658 124	3 270 718	1	1
		2002.. 11 675	425 521	8 549	16 185	247 393	1 781 615	1 784 564	3 576 065	X	X
333993	Packaging machinery manufacturing	2004.. 21 717	1 087 699	10 552	21 598	410 737	2 324 875	1 594 304	3 889 755	2	2
		2003.. 23 976	1 138 336	12 061	24 578	449 928	2 460 904	1 680 213	4 112 992	3	4
		2002.. 24 753	1 169 062	11 828	23 768	453 033	2 457 324	1 749 197	4 227 241	X	X
333994	Industrial process furnace and oven manufacturing	2004.. 9 667	441 003	5 677	11 399	185 178	903 891	659 738	1 560 711	3	3
		2003.. 10 710	466 050	6 324	12 760	204 998	930 196	682 227	1 607 118	3	4
		2002.. 11 514	475 032	6 598	12 951	204 531	933 633	689 504	1 632 897	X	X
33399N	Fluid power equipment manufacturing	2004.. 30 416	1 394 679	19 520	42 954	765 778	3 783 642	2 969 971	6 655 874	2	2
		2003.. 32 244	1 403 775	20 762	43 841	753 217	3 397 811	2 615 174	6 028 852	1	1
		2002.. 32 188	1 374 352	20 674	41 062	734 833	3 279 831	2 445 271	5 751 108	X	X
33399P	All other miscellaneous general purpose machinery manufacturing	2004.. 69 754	3 231 329	38 927	79 439	1 383 734	7 597 268	6 631 724	14 516 267	2	2
		2003.. 71 837	3 189 668	40 665	81 098	1 384 849	7 611 560	6 199 696	13 741 651	1	1
		2002.. 78 005	3 351 678	44 302	82 570	1 453 624	7 839 386	6 082 069	13 795 265	X	X
334	Computer and electronic product manufacturing	2004.. 1 060 813	61 151 529	473 138	968 337	18 255 820	214 650 087	148 586 659	361 937 573	1	2
		2003.. 1 145 372	63 520 438	522 839	1 051 980	19 142 973	203 288 184	150 339 649	352 635 677	1	1
		2002.. 1 259 612	64 403 889	591 334	1 160 247	20 968 836	200 386 744	154 643 517	357 552 866	X	X
3341	Computer and peripheral equipment manufacturing	2004.. 118 450	7 383 272	35 570	75 855	1 561 753	32 344 115	32 706 886	64 894 067	1	1
		2003.. 142 943	9 423 951	43 036	83 633	1 823 754	30 206 500	38 715 653	69 090 536	1	1
		2002.. 150 907	8 273 134	49 368	96 806	1 911 482	34 347 074	39 212 454	73 727 065	X	X
33411	Computer and peripheral equipment manufacturing	2004.. 118 450	7 383 272	35 570	75 855	1 561 753	32 344 115	32 706 886	64 894 067	1	1
		2003.. 142 943	9 423 951	43 036	83 633	1 823 754	30 206 500	38 715 653	69 090 536	1	1
		2002.. 150 907	8 273 134	49 368	96 806	1 911 482	34 347 074	39 212 454	73 727 065	X	X
334111	Electronic computer manufacturing	2004.. 53 650	3 391 289	12 091	28 578	610 924	21 735 728	21 009 206	42 727 063	1	1
		2003.. 66 220	4 870 203	15 871	30 565	768 712	19 543 734	26 285 412	45 876 248	1	1
		2002.. 62 227	3 270 196	18 464	36 963	744 241	20 937 780	26 606 317	47 730 226	X	X
334112	Computer storage device manufacturing	2004.. 15 319	915 018	7 655	15 911	278 768	3 166 499	3 471 342	6 679 726	2	2
		2003.. 19 981	1 319 603	9 405	19 697	344 410	3 564 953	4 775 248	8 443 309	1	2
		2002.. 26 396	1 593 139	10 114	20 397	372 573	4 734 197	4 765 477	9 458 043	X	X
334113	Computer terminal manufacturing	2004.. 1 568	75 974	652	1 261	23 305	151 528	121 532	274 999	4	5
		2003.. 2 017	93 904	896	1 672	28 123	188 035	151 164	350 652	1	4
		2002.. 2 109	84 420	953	2 048	29 814	235 979	167 184	407 507	X	X
334119	Other computer peripheral equipment manufacturing	2004.. 47 913	3 000 992	15 173	30 104	648 756	7 290 360	8 104 806	15 212 279	3	2
		2003.. 54 725	3 140 240	16 864	31 700	682 510	6 909 779	7 523 828	14 420 328	2	3
		2002.. 60 175	3 325 379	19 837	37 398	764 854	8 439 118	7 673 476	16 131 289	X	X
3342	Communications equipment manufacturing	2004.. 143 097	8 417 436	53 348	104 824	2 006 768	30 347 152	28 331 077	58 212 705	2	1
		2003.. 161 587	9 274 500	60 092	117 467	2 062 266	30 952 497	30 281 531	60 987 617	3	1
		2002.. 191 337	10 337 587	72 119	136 583	2 574 986	32 454 029	32 154 772	65 122 475	X	X
33421	Telephone apparatus manufacturing	2004.. 39 701	2 283 887	10 653	20 946	446 100	11 946 797	8 867 151	20 944 543	5	2
		2003.. 45 833	2 944 910	13 195	27 475	507 244	13 156 890	8 454 881	21 539 130	5	2
		2002.. 64 576	3 751 265	18 675	35 320	729 300	14 558 960	11 729 619	27 279 908	X	X
334210	Telephone apparatus manufacturing	2004.. 39 701	2 283 887	10 653	20 946	446 100	11 946 797	8 867 151	20 944 543	5	2
		2003.. 45 833	2 944 910	13 195	27 475	507 244	13 156 890	8 454 881	21 539 130	5	2
		2002.. 64 576	3 751 265	18 675	35 320	729 300	14 558 960	11 729 619	27 279 908	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
		A	B	C	D	E				F	G
334	Computer and electronic product manufacturing—Con.										
3342	Communications equipment manufacturing—Con.										
33422	Radio and television broadcasting and wireless communications equipment manufacturing	2004.. 84 595	5 229 830	34 048	67 158	1 280 063	15 731 155	17 588 337	32 718 282	2	1
		2003.. 93 469	5 326 135	37 327	70 607	1 265 406	15 061 832	19 729 541	34 574 036	4	2
		2002.. 101 078	5 432 571	41 973	79 159	1 507 723	14 625 558	18 110 212	32 296 504	X	X
334220	Radio and television broadcasting and wireless communications equipment manufacturing	2004.. 84 595	5 229 830	34 048	67 158	1 280 063	15 731 155	17 588 337	32 718 282	2	1
		2003.. 93 469	5 326 135	37 327	70 607	1 265 406	15 061 832	19 729 541	34 574 036	4	2
		2002.. 101 078	5 432 571	41 973	79 159	1 507 723	14 625 558	18 110 212	32 296 504	X	X
33429	Other communications equipment manufacturing	2004.. 18 801	903 719	8 647	16 720	280 606	2 669 200	1 875 589	4 549 890	2	1
		2003.. 22 285	1 003 455	9 570	19 385	289 615	2 733 776	2 097 110	4 874 451	1	1
		2002.. 25 683	1 153 751	11 471	22 104	337 963	3 269 511	2 314 941	5 546 063	X	X
334290	Other communications equipment manufacturing	2004.. 18 801	903 719	8 647	16 720	280 606	2 669 200	1 875 589	4 549 890	2	1
		2003.. 22 285	1 003 455	9 570	19 385	289 615	2 733 776	2 097 110	4 874 451	1	1
		2002.. 25 683	1 153 751	11 471	22 104	337 963	3 269 511	2 314 941	5 546 063	X	X
3343	Audio and video equipment manufacturing	2004.. 21 059	911 054	12 359	25 742	361 657	3 414 070	7 387 637	10 718 423	3	2
		2003.. 23 851	936 594	14 649	28 874	380 438	3 529 219	4 818 794	8 361 701	1	3
		2002.. 25 258	955 561	15 722	32 122	399 833	3 309 828	5 366 738	8 651 893	X	X
33431	Audio and video equipment manufacturing	2004.. 21 059	911 054	12 359	25 742	361 657	3 414 070	7 387 637	10 718 423	3	2
		2003.. 23 851	936 594	14 649	28 874	380 438	3 529 219	4 818 794	8 361 701	1	3
		2002.. 25 258	955 561	15 722	32 122	399 833	3 309 828	5 366 738	8 651 893	X	X
334310	Audio and video equipment manufacturing	2004.. 21 059	911 054	12 359	25 742	361 657	3 414 070	7 387 637	10 718 423	3	2
		2003.. 23 851	936 594	14 649	28 874	380 438	3 529 219	4 818 794	8 361 701	1	3
		2002.. 25 258	955 561	15 722	32 122	399 833	3 309 828	5 366 738	8 651 893	X	X
3344	Semiconductor and other electronic component manufacturing	2004.. 354 752	17 815 119	201 069	413 440	7 154 021	77 874 265	39 117 980	116 660 008	1	1
		2003.. 387 248	18 496 521	223 237	460 222	7 739 267	73 436 629	39 997 378	113 219 470	1	1
		2002.. 438 210	19 898 761	258 542	512 327	8 694 542	69 209 643	40 484 466	110 298 444	X	X
33441	Semiconductor and other electronic component manufacturing	2004.. 354 752	17 815 119	201 069	413 440	7 154 021	77 874 265	39 117 980	116 660 008	1	1
		2003.. 387 248	18 496 521	223 237	460 222	7 739 267	73 436 629	39 997 378	113 219 470	1	1
		2002.. 438 210	19 898 761	258 542	512 327	8 694 542	69 209 643	40 484 466	110 298 444	X	X
334411	Electron tube manufacturing	2004.. 6 382	287 293	4 529	9 535	186 586	558 492	681 391	1 264 348	1	1
		2003.. 9 155	381 211	6 949	13 413	261 546	769 833	988 182	1 757 005	1	1
		2002.. 11 332	479 824	8 822	18 596	335 600	898 751	1 501 151	2 426 460	X	X
334412	Bare printed circuit board manufacturing	2004.. 37 605	1 442 527	26 500	52 327	801 352	3 539 720	2 238 461	5 758 635	2	2
		2003.. 40 134	1 440 319	28 764	59 171	846 727	3 345 089	2 326 930	5 651 888	3	2
		2002.. 47 067	1 665 534	33 313	66 354	945 644	3 546 093	2 858 058	6 409 568	X	X
334413	Semiconductor and related device manufacturing	2004.. 136 266	8 738 831	64 228	135 839	2 985 400	56 245 248	16 598 346	72 693 312	2	1
		2003.. 149 810	9 094 480	72 121	146 228	3 255 493	49 654 590	17 197 285	66 627 879	1	1
		2002.. 169 520	9 811 316	87 544	171 466	3 876 299	44 818 733	16 527 807	61 455 028	X	X
334414	Electronic capacitor manufacturing	2004.. 8 069	305 482	5 550	11 294	157 005	639 321	618 908	1 251 275	3	3
		2003.. 9 016	322 991	6 343	13 295	178 588	648 290	625 368	1 291 790	4	8
		2002.. 10 937	383 510	7 272	14 222	185 762	734 069	839 200	1 640 150	X	X
334415	Electronic resistor manufacturing	2004.. 5 413	185 706	3 519	7 265	95 484	479 988	272 065	747 572	2	3
		2003.. 5 654	186 338	3 925	7 368	97 124	452 891	240 998	704 072	2	3
		2002.. 5 435	172 240	3 730	7 115	89 606	393 932	213 149	625 683	X	X
334416	Electronic coil, transformer, and other inductor manufacturing	2004.. 10 456	334 628	7 753	16 185	186 616	696 250	486 777	1 163 449	3	4
		2003.. 11 196	344 276	8 454	16 938	194 379	706 988	450 954	1 153 829	4	3
		2002.. 11 265	329 666	8 217	15 745	179 716	641 423	485 438	1 135 121	X	X
334417	Electronic connector manufacturing	2004.. 21 884	878 216	16 035	32 272	513 081	2 417 597	1 279 283	3 715 682	3	3
		2003.. 22 881	889 859	16 437	33 772	523 328	2 462 695	1 191 667	3 684 056	1	2
		2002.. 24 480	915 948	17 455	34 461	528 776	2 263 117	1 234 785	3 548 502	X	X
334418	Printed circuit assembly (electronic assembly) manufacturing	2004.. 69 427	3 171 176	35 940	75 267	1 103 700	7 909 253	13 386 416	21 183 525	2	2
		2003.. 77 616	3 391 532	42 816	93 615	1 286 256	10 044 061	13 240 023	23 244 937	2	3
		2002.. 88 341	3 522 350	49 467	100 612	1 369 039	10 248 676	12 993 227	23 478 376	X	X
334419	Other electronic component manufacturing	2004.. 59 249	2 471 260	37 016	73 456	1 124 797	5 388 398	3 556 334	8 882 211	2	2
		2003.. 61 789	2 445 516	37 428	76 421	1 095 826	5 352 192	3 735 971	9 104 014	1	2
		2002.. 69 833	2 618 373	42 722	83 756	1 184 100	5 664 849	3 831 651	9 579 556	X	X

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Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

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		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
		A	B	C	D	E				F	G
334	Computer and electronic product manufacturing—Con.										
3345	Navigational, measuring, electromedical, and control instruments manufacturing	2004.. 389 226	25 060 848	146 792	297 850	6 327 651	66 470 186	37 328 763	103 508 799	1	5
		2003.. 393 205	23 974 416	154 775	306 622	6 243 374	60 515 547	33 556 064	93 345 261	1	1
		2002.. 415 996	23 571 769	167 856	324 546	6 541 530	56 409 846	34 557 718	92 203 268	X	X
33451	Navigational, measuring, medical, and control instruments manufacturing	2004.. 389 226	25 060 848	146 792	297 850	6 327 651	66 470 186	37 328 763	103 508 799	1	5
		2003.. 393 205	23 974 416	154 775	306 622	6 243 374	60 515 547	33 556 064	93 345 261	1	1
		2002.. 415 996	23 571 769	167 856	324 546	6 541 530	56 409 846	34 557 718	92 203 268	X	X
334510	Electromedical and electrotherapeutic apparatus manufacturing	2004.. 55 012	3 508 261	24 761	53 586	1 076 816	11 580 245	6 511 310	18 179 327	2	2
		2003.. 54 955	3 214 300	25 981	55 176	1 034 228	10 696 196	5 785 782	16 587 903	1	1
		2002.. 58 354	3 108 203	27 364	55 118	974 110	9 731 759	5 852 485	15 680 811	X	X
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	2004.. 147 489	10 549 276	42 817	82 613	2 219 237	27 206 350	12 141 395	39 001 897	2	12
		2003.. 144 218	9 910 978	44 026	85 514	2 205 866	23 779 893	10 174 245	33 023 795	1	1
		2002.. 142 775	9 142 067	47 281	87 570	2 220 691	21 190 101	10 150 186	32 258 082	X	X
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use	2004.. 13 608	524 815	8 517	18 078	249 588	1 749 976	957 092	2 744 971	2	2
		2003.. 15 971	583 936	10 345	21 406	286 772	1 661 148	1 120 419	2 806 732	1	2
		2002.. 17 401	636 173	11 066	21 850	308 356	1 662 199	1 216 779	2 912 971	X	X
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables	2004.. 35 719	1 859 672	16 239	33 476	596 050	4 299 143	2 810 917	7 110 369	1	1
		2003.. 37 425	1 866 908	16 684	33 411	559 745	4 295 818	2 652 681	6 950 522	2	1
		2002.. 39 929	1 892 380	18 008	35 543	597 355	4 323 460	2 647 585	7 044 047	X	X
334514	Totalizing fluid meter and counting device manufacturing	2004.. 15 909	732 765	10 166	20 139	374 192	2 102 464	3 141 976	5 244 860	1	3
		2003.. 15 200	667 871	9 128	17 702	336 662	2 142 671	2 743 042	4 934 729	5	2
		2002.. 16 398	725 718	10 572	19 958	382 232	1 969 887	2 852 850	4 820 321	X	X
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	2004.. 46 636	3 197 897	14 415	28 787	622 599	7 565 012	3 542 587	11 175 166	2	2
		2003.. 46 708	3 134 294	16 164	28 529	620 361	6 612 215	3 472 652	10 130 232	2	1
		2002.. 56 153	3 415 349	18 966	37 478	805 663	6 010 197	3 680 207	9 903 743	X	X
334516	Analytical laboratory instrument manufacturing	2004.. 31 057	2 076 242	10 359	21 013	388 441	4 973 707	3 146 611	8 080 947	2	3
		2003.. 32 326	1 984 971	11 418	22 611	425 679	4 932 893	2 898 010	7 810 420	1	2
		2002.. 34 128	2 007 485	11 555	22 564	432 333	4 958 699	3 283 795	8 187 465	X	X
334517	Irradiation apparatus manufacturing	2004.. 13 008	939 251	4 951	10 290	232 990	2 711 241	2 453 305	5 149 683	5	4
		2003.. 12 816	903 922	4 705	9 756	203 741	2 391 065	2 237 524	4 631 396	1	1
		2002.. 13 470	825 993	4 586	9 352	195 003	2 516 308	2 294 012	4 736 157	X	X
334518	Watch, clock, and parts manufacturing	2004.. 2 605	102 342	1 803	3 648	56 978	397 001	243 711	630 267	2	3
		2003.. 2 686	96 964	1 778	3 634	47 396	348 600	226 684	579 079	5	4
		2002.. 3 466	120 479	2 350	4 662	61 212	408 301	276 741	677 031	X	X
334519	Other measuring and controlling device manufacturing	2004.. 28 182	1 570 327	12 763	26 219	510 759	3 885 048	2 379 859	6 191 312	2	2
		2003.. 30 901	1 610 272	14 546	28 885	522 923	3 655 048	2 245 026	5 890 452	2	2
		2002.. 33 922	1 697 922	16 108	30 451	564 575	3 638 935	2 303 078	5 982 640	X	X
3346	Manufacturing and reproducing magnetic and optical media	2004.. 34 228	1 563 799	24 000	50 626	843 969	4 200 298	3 714 315	7 943 570	2	2
		2003.. 36 537	1 414 455	27 051	55 163	893 873	4 647 792	2 970 229	7 631 093	2	3
		2002.. 37 904	1 367 077	27 727	57 863	846 463	4 656 324	2 867 369	7 549 721	X	X
33461	Manufacturing and reproducing magnetic and optical media	2004.. 34 228	1 563 799	24 000	50 626	843 969	4 200 298	3 714 315	7 943 570	2	2
		2003.. 36 537	1 414 455	27 051	55 163	893 873	4 647 792	2 970 229	7 631 093	2	3
		2002.. 37 904	1 367 077	27 727	57 863	846 463	4 656 324	2 867 369	7 549 721	X	X
334611	Software reproducing	2004.. 2 639	118 331	1 664	3 216	64 749	298 658	176 331	474 599	5	4
		2003.. 2 822	110 054	2 379	4 183	80 572	295 474	175 681	471 676	12	11
		2002.. 2 783	120 737	1 848	3 322	63 983	290 470	187 205	477 921	X	X
334612	Prerecorded compact disc (except software), tape, and record reproducing	2004.. 22 171	804 661	16 782	36 701	523 664	2 723 277	1 534 358	4 261 060	3	2
		2003.. 26 616	909 084	19 936	41 688	588 569	3 032 851	1 673 504	4 702 971	2	5
		2002.. 28 447	952 295	21 249	44 580	607 847	2 887 709	1 597 425	4 480 372	X	X
334613	Magnetic and optical recording media manufacturing	2004.. 9 419	640 807	5 555	10 709	255 556	1 178 363	2 003 626	3 207 911	1	1
		2003.. 7 099	395 317	4 736	9 291	224 732	1 319 466	1 121 044	2 456 445	2	2
		2002.. 6 674	294 045	4 630	9 961	174 633	1 478 145	1 082 739	2 591 428	X	X

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		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F	
		A	B	C	D	E				F	G	H
335	Electrical equipment, appliance, and component manufacturing	2004..	432 227	17 165 563	304 043	606 519	9 822 205	52 722 900	51 798 549	104 244 945	1	1
		2003..	447 433	17 016 156	318 600	628 293	9 736 393	51 264 149	48 844 856	100 139 566	1	1
		2002..	491 030	18 010 390	348 644	678 510	10 306 261	52 874 914	49 802 179	103 040 890	X	X
3351	Electric lighting equipment manufacturing	2004..	58 801	2 244 546	41 118	86 299	1 299 096	6 772 871	5 331 445	12 070 459	2	1
		2003..	59 330	2 128 119	42 359	84 626	1 219 316	6 612 117	5 172 549	11 757 741	2	2
		2002..	66 049	2 252 498	47 521	94 312	1 313 650	7 092 620	5 326 057	12 402 230	X	X
33511	Electric lamp bulb and parts manufacturing	2004..	10 653	521 488	8 865	19 347	394 492	1 623 743	897 113	2 516 190	4	3
		2003..	11 045	492 188	9 204	18 058	373 563	1 727 313	950 618	2 654 997	1	1
		2002..	11 552	489 781	9 595	18 774	380 391	1 750 630	891 248	2 626 825	X	X
335110	Electric lamp bulb and parts manufacturing	2004..	10 653	521 488	8 865	19 347	394 492	1 623 743	897 113	2 516 190	4	3
		2003..	11 045	492 188	9 204	18 058	373 563	1 727 313	950 618	2 654 997	1	1
		2002..	11 552	489 781	9 595	18 774	380 391	1 750 630	891 248	2 626 825	X	X
33512	Lighting fixture manufacturing	2004..	48 148	1 723 059	32 253	66 952	904 604	5 149 128	4 434 333	9 554 268	2	1
		2003..	48 285	1 635 932	33 155	66 568	845 754	4 884 804	4 221 931	9 102 744	2	2
		2002..	54 497	1 762 717	37 926	75 538	933 259	5 341 990	4 434 809	9 775 405	X	X
33512M	Lighting fixture manufacturing	2004..	48 148	1 723 059	32 253	66 952	904 604	5 149 128	4 434 333	9 554 268	2	1
		2003..	48 285	1 635 932	33 155	66 568	845 754	4 884 804	4 221 931	9 102 744	2	2
		2002..	54 497	1 762 717	37 926	75 538	933 259	5 341 990	4 434 809	9 775 405	X	X
3352	Household appliance manufacturing	2004..	82 583	2 855 399	68 712	131 104	2 132 728	10 038 646	13 461 926	23 501 067	1	1
		2003..	85 345	2 885 135	70 971	133 979	2 114 761	9 966 047	13 008 777	23 026 196	1	2
		2002..	88 794	2 993 447	73 527	140 400	2 169 220	9 916 603	12 321 844	22 269 541	X	X
33521	Small electrical appliance manufacturing	2004..	14 913	509 143	11 475	21 783	310 956	1 882 397	2 034 045	3 922 874	1	1
		2003..	16 752	556 821	12 682	23 432	332 241	2 084 707	2 223 020	4 304 518	1	2
		2002..	18 781	606 186	14 293	26 722	365 619	2 495 574	2 163 362	4 623 636	X	X
33521M	Small electrical appliance manufacturing	2004..	14 913	509 143	11 475	21 783	310 956	1 882 397	2 034 045	3 922 874	1	1
		2003..	16 752	556 821	12 682	23 432	332 241	2 084 707	2 223 020	4 304 518	1	2
		2002..	18 781	606 186	14 293	26 722	365 619	2 495 574	2 163 362	4 623 636	X	X
33522	Major appliance manufacturing	2004..	67 670	2 346 256	57 237	109 321	1 821 772	8 156 249	11 427 881	19 578 193	1	1
		2003..	68 593	2 328 314	58 289	110 547	1 782 520	7 881 339	10 785 756	18 721 678	1	2
		2002..	70 013	2 387 261	59 234	113 678	1 803 601	7 421 029	10 158 482	17 645 905	X	X
335221	Household cooking appliance manufacturing	2004..	16 700	506 770	14 104	28 389	381 568	1 535 343	3 184 053	4 699 530	1	1
		2003..	17 275	491 283	14 472	27 523	353 760	1 680 279	2 964 382	4 691 713	1	1
		2002..	17 977	498 003	14 672	27 333	344 404	1 549 780	2 793 626	4 327 308	X	X
335222	Household refrigerator and home freezer manufacturing	2004..	23 362	812 871	20 123	36 009	666 177	2 284 540	3 597 173	5 872 206	2	3
		2003..	22 989	797 316	20 162	37 025	650 807	2 548 643	3 265 493	5 834 718	1	1
		2002..	23 487	814 868	20 530	38 486	659 026	2 222 439	3 223 985	5 491 267	X	X
335224	Household laundry equipment manufacturing	2004..	15 140	552 929	12 853	24 505	424 792	2 381 673	2 619 026	5 030 660	1	1
		2003..	15 510	572 109	13 137	25 007	435 924	2 147 338	2 607 267	4 767 139	1	1
		2002..	15 878	617 313	13 460	25 966	453 693	1 908 531	2 462 210	4 404 679	X	X
335228	Other major household appliance manufacturing	2004..	12 468	473 686	10 158	20 418	349 234	1 954 694	2 027 629	3 975 796	1	2
		2003..	12 819	467 606	10 519	20 991	342 029	1 505 079	1 948 614	3 428 108	1	10
		2002..	12 671	457 077	10 572	21 893	346 478	1 740 279	1 678 661	3 422 651	X	X
3353	Electrical equipment manufacturing	2004..	142 692	5 818 206	93 185	185 593	2 975 110	16 781 465	14 682 071	31 438 341	1	1
		2003..	146 969	5 795 934	97 784	192 449	3 003 615	16 233 446	13 910 979	30 069 255	1	1
		2002..	161 646	6 168 286	107 921	205 334	3 214 030	16 580 329	14 623 243	31 384 681	X	X
33531	Electrical equipment manufacturing	2004..	142 692	5 818 206	93 185	185 593	2 975 110	16 781 465	14 682 071	31 438 341	1	1
		2003..	146 969	5 795 934	97 784	192 449	3 003 615	16 233 446	13 910 979	30 069 255	1	1
		2002..	161 646	6 168 286	107 921	205 334	3 214 030	16 580 329	14 623 243	31 384 681	X	X
335311	Power, distribution, and specialty transformer manufacturing	2004..	18 958	748 483	13 825	28 178	444 255	1 846 509	1 971 404	3 841 382	2	2
		2003..	20 506	754 603	14 936	29 055	437 902	2 016 915	1 987 715	4 008 687	1	1
		2002..	21 618	812 940	15 386	28 710	474 678	2 046 610	2 044 399	4 123 277	X	X
335312	Motor and generator manufacturing	2004..	47 602	1 714 780	34 677	68 491	1 088 432	5 339 742	4 924 144	10 178 400	2	2
		2003..	49 201	1 726 713	36 271	72 481	1 104 244	4 863 205	4 472 406	9 271 411	1	3
		2002..	54 698	1 827 367	41 186	79 109	1 168 597	4 780 208	4 294 466	9 142 117	X	X
335313	Switchgear and switchboard apparatus manufacturing	2004..	33 787	1 472 960	23 028	47 616	824 701	4 407 376	3 570 650	7 991 364	3	2
		2003..	34 877	1 474 734	23 900	48 091	837 997	4 505 092	3 484 588	7 976 780	1	1
		2002..	38 202	1 518 716	26 344	51 557	871 810	4 543 576	3 746 682	8 325 928	X	X
335314	Relay and industrial control manufacturing	2004..	42 345	1 881 983	21 655	41 308	617 722	5 187 839	4 215 873	9 427 196	2	2
		2003..	42 386	1 839 885	22 677	42 822	623 472	4 848 234	3 966 270	8 812 377	2	1
		2002..	47 128	2 009 263	25 005	45 958	698 945	5 209 935	4 537 696	9 793 359	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
		A	B	C	D	E				F	G
335	Electrical equipment, appliance, and component manufacturing—Con.										
3359	Other electrical equipment and component manufacturing	2004.. 148 152	6 247 411	101 028	203 522	3 415 271	19 129 917	18 323 106	37 235 078	1	1
		2003.. 155 789	6 206 967	107 487	217 239	3 398 701	18 452 540	16 752 551	35 286 374	1	1
		2002.. 174 541	6 596 159	119 675	238 464	3 609 361	19 285 362	17 531 035	36 984 438	X	X
33591	Battery manufacturing	2004.. 24 692	1 010 583	18 631	37 259	653 280	2 785 466	3 147 999	5 961 146	1	1
		2003.. 25 252	979 769	19 309	39 551	644 006	3 135 317	3 132 491	6 286 337	2	2
		2002.. 26 310	979 629	20 367	41 550	668 268	3 261 888	3 133 391	6 420 666	X	X
335911	Storage battery manufacturing	2004.. 16 828	672 374	12 839	26 359	444 486	1 483 565	1 927 401	3 433 805	1	1
		2003.. 16 625	649 643	12 687	26 872	428 954	1 579 400	1 904 166	3 486 363	1	3
		2002.. 17 781	667 059	13 654	27 877	452 579	1 527 656	1 978 383	3 530 324	X	X
335912	Primary battery manufacturing	2004.. 7 865	338 210	5 792	10 900	208 794	1 301 900	1 220 599	2 527 341	1	2
		2003.. 8 627	330 126	6 622	12 679	215 052	1 555 918	1 228 326	2 799 974	4	2
		2002.. 8 529	312 570	6 713	13 673	215 689	1 734 232	1 155 008	2 890 342	X	X
33592	Communication and energy wire and cable manufacturing	2004.. 35 255	1 437 006	25 530	52 402	900 228	4 716 181	6 993 370	11 533 624	2	1
		2003.. 38 378	1 515 143	27 667	57 111	905 959	4 307 157	5 902 365	10 219 972	2	2
		2002.. 45 933	1 704 265	32 115	64 132	991 707	4 666 494	6 519 172	11 275 728	X	X
33592M	Communication and energy wire and cable manufacturing	2004.. 35 255	1 437 006	25 530	52 402	900 228	4 716 181	6 993 370	11 533 624	2	1
		2003.. 38 378	1 515 143	27 667	57 111	905 959	4 307 157	5 902 365	10 219 972	2	2
		2002.. 45 933	1 704 265	32 115	64 132	991 707	4 666 494	6 519 172	11 275 728	X	X
33593	Wiring device manufacturing	2004.. 46 082	1 836 900	31 474	61 949	1 003 801	6 619 307	4 445 812	10 993 186	2	1
		2003.. 49 080	1 849 547	33 940	66 361	1 032 899	6 099 828	4 119 016	10 259 992	1	1
		2002.. 52 910	1 942 685	36 718	71 984	1 074 747	6 352 030	4 239 718	10 622 897	X	X
33593M	Wiring device manufacturing	2004.. 46 082	1 836 900	31 474	61 949	1 003 801	6 619 307	4 445 812	10 993 186	2	1
		2003.. 49 080	1 849 547	33 940	66 361	1 032 899	6 099 828	4 119 016	10 259 992	1	1
		2002.. 52 910	1 942 685	36 718	71 984	1 074 747	6 352 030	4 239 718	10 622 897	X	X
33599	All other electrical equipment and component manufacturing	2004.. 42 123	1 962 922	25 394	51 912	857 963	5 008 964	3 735 925	8 747 122	1	1
		2003.. 43 078	1 862 507	26 571	54 216	815 838	4 910 238	3 598 679	8 520 073	4	2
		2002.. 49 388	1 969 580	30 475	60 798	874 639	5 004 950	3 638 754	8 665 147	X	X
335991	Carbon and graphite product manufacturing	2004.. 7 643	346 213	5 597	12 052	206 758	1 015 664	795 686	1 814 934	1	2
		2003.. 7 911	327 633	5 842	12 320	199 145	886 701	753 073	1 687 947	2	2
		2002.. 8 583	346 498	6 332	13 452	216 167	933 649	812 424	1 757 785	X	X
335999	All other miscellaneous electrical equipment and component manufacturing	2004.. 34 479	1 616 709	19 797	39 860	651 205	3 993 300	2 940 239	6 932 188	1	1
		2003.. 35 167	1 534 874	20 728	41 895	616 692	4 023 537	2 845 607	6 832 127	5	2
		2002.. 40 805	1 623 082	24 143	47 346	658 472	4 071 301	2 826 330	6 907 362	X	X
336	Transportation equipment manufacturing	2004.. 1 585 183	83 848 089	1 138 780	2 294 749	54 401 481	255 974 003	408 310 013	666 502 920	1	1
		2003.. 1 598 186	82 313 749	1 148 461	2 335 452	53 570 702	261 793 654	398 090 644	661 141 910	1	1
		2002.. 1 665 165	81 768 442	1 205 053	2 389 575	53 738 325	253 433 810	382 972 620	636 715 498	X	X
3361	Motor vehicle manufacturing	2004.. 215 974	14 905 899	189 101	371 273	12 696 395	70 796 140	191 199 535	261 715 826	1	1
		2003.. 210 551	14 315 641	185 170	367 819	12 246 980	79 248 618	184 452 564	263 481 240	1	1
		2002.. 219 427	13 929 628	191 455	380 594	12 013 891	72 087 531	168 581 710	240 754 463	X	X
33611	Automobile and light duty motor vehicle manufacturing	2004.. 186 912	13 589 083	165 854	329 827	11 761 356	67 099 521	174 410 131	241 293 706	1	1
		2003.. 184 698	13 216 135	165 008	331 406	11 494 381	76 509 333	172 089 513	248 459 133	1	1
		2002.. 190 022	12 722 963	169 100	339 018	11 166 574	69 099 815	156 034 648	225 184 035	X	X
336111	Automobile manufacturing	2004.. 74 305	5 305 346	64 074	120 278	4 476 081	23 149 130	63 802 944	86 818 385	1	1
		2003.. 76 031	5 224 123	65 697	126 055	4 410 802	22 305 212	63 960 423	86 218 522	1	1
		2002.. 80 537	5 126 774	70 061	135 362	4 394 625	28 491 908	59 647 014	88 114 403	X	X
336112	Light truck and utility vehicle manufacturing	2004.. 112 607	8 283 737	101 780	209 549	7 285 275	43 950 391	110 607 187	154 475 321	1	1
		2003.. 108 667	7 992 012	99 311	205 351	7 083 579	54 204 121	108 129 090	162 240 611	1	1
		2002.. 109 485	7 596 189	99 039	203 656	6 771 949	40 607 907	96 387 634	137 069 632	X	X
33612	Heavy duty truck manufacturing	2004.. 29 062	1 316 816	23 247	41 446	935 039	3 696 619	16 789 404	20 422 120	1	1
		2003.. 25 853	1 099 506	20 161	36 413	752 599	2 739 285	12 363 051	15 022 107	1	1
		2002.. 29 405	1 206 665	22 355	41 576	847 317	2 987 716	12 547 062	15 570 428	X	X
336120	Heavy duty truck manufacturing	2004.. 29 062	1 316 816	23 247	41 446	935 039	3 696 619	16 789 404	20 422 120	1	1
		2003.. 25 853	1 099 506	20 161	36 413	752 599	2 739 285	12 363 051	15 022 107	1	1
		2002.. 29 405	1 206 665	22 355	41 576	847 317	2 987 716	12 547 062	15 570 428	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
		A	B	C	D	E				F	G
336	Transportation equipment manufacturing—Con.										
3362	Motor vehicle body and trailer manufacturing	2004.. 136 694	4 795 818	108 660	219 281	3 381 046	10 754 212	18 786 005	29 316 486	1	1
		2003.. 128 088	4 343 787	102 423	203 080	3 055 726	9 672 777	16 322 222	25 981 026	1	1
		2002.. 127 255	4 197 176	100 282	194 424	2 886 238	8 858 160	15 528 931	24 328 658	X	X
33621	Motor vehicle body and trailer manufacturing	2004.. 136 694	4 795 818	108 660	219 281	3 381 046	10 754 212	18 786 005	29 316 486	1	1
		2003.. 128 088	4 343 787	102 423	203 080	3 055 726	9 672 777	16 322 222	25 981 026	1	1
		2002.. 127 255	4 197 176	100 282	194 424	2 886 238	8 858 160	15 528 931	24 328 658	X	X
336211	Motor vehicle body manufacturing	2004.. 39 052	1 459 867	29 852	60 810	966 356	3 466 058	5 401 610	8 861 033	2	3
		2003.. 40 710	1 450 470	30 920	63 011	963 638	3 252 791	5 392 936	8 597 499	2	2
		2002.. 41 266	1 420 947	30 973	61 196	936 713	2 776 384	5 189 455	7 963 621	X	X
336212	Truck trailer manufacturing	2004.. 27 133	875 022	22 477	45 507	655 529	1 827 162	3 862 956	5 694 997	2	2
		2003.. 24 191	784 989	20 020	40 750	581 430	1 653 254	2 838 762	4 501 544	2	3
		2002.. 23 732	728 490	19 088	36 942	519 140	1 489 087	2 523 944	4 009 684	X	X
336213	Motor home manufacturing	2004.. 22 557	828 269	18 662	36 157	588 075	2 195 727	4 310 256	6 356 769	1	2
		2003.. 21 775	757 968	18 019	31 947	539 223	2 059 654	4 120 150	6 162 769	1	2
		2002.. 20 776	726 182	16 792	31 535	501 387	1 967 134	3 726 037	5 670 656	X	X
336214	Travel trailer and camper manufacturing	2004.. 47 952	1 632 660	37 670	76 807	1 171 086	3 265 266	5 211 183	8 403 687	1	1
		2003.. 41 412	1 350 360	33 464	67 372	971 434	2 707 079	3 970 374	6 719 212	3	3
		2002.. 41 481	1 321 557	33 429	64 751	928 998	2 625 555	4 089 495	6 684 697	X	X
3363	Motor vehicle parts manufacturing	2004.. 644 045	31 421 553	505 337	1 047 113	22 891 529	84 806 540	118 495 802	203 590 720	1	1
		2003.. 671 817	31 724 962	526 030	1 093 367	23 046 718	84 769 892	117 642 916	202 181 601	1	1
		2002.. 721 469	32 125 818	573 748	1 138 149	23 644 531	86 621 620	118 267 930	204 483 897	X	X
33631	Motor vehicle gasoline engine and engine parts manufacturing	2004.. 81 082	4 500 728	63 348	131 423	3 374 733	14 330 743	21 813 867	36 257 618	3	1
		2003.. 87 729	4 770 707	68 623	144 345	3 558 631	12 670 431	22 102 360	34 786 888	2	1
		2002.. 94 092	4 773 138	76 327	149 143	3 697 507	12 347 505	22 210 128	34 452 486	X	X
33631M	Motor vehicle gasoline engine and engine parts manufacturing	2004.. 81 082	4 500 728	63 348	131 423	3 374 733	14 330 743	21 813 867	36 257 618	3	1
		2003.. 87 729	4 770 707	68 623	144 345	3 558 631	12 670 431	22 102 360	34 786 888	2	1
		2002.. 94 092	4 773 138	76 327	149 143	3 697 507	12 347 505	22 210 128	34 452 486	X	X
33632	Motor vehicle electrical and electronic equipment manufacturing	2004.. 77 496	3 320 235	55 861	109 730	1 973 308	11 479 231	10 823 569	22 274 668	2	1
		2003.. 90 766	3 876 424	66 458	130 372	2 437 286	12 657 109	12 402 841	24 962 146	2	2
		2002.. 97 111	4 030 825	71 455	141 112	2 567 513	12 909 751	12 940 278	25 818 446	X	X
33632M	Motor vehicle electrical and electronic equipment manufacturing	2004.. 77 496	3 320 235	55 861	109 730	1 973 308	11 479 231	10 823 569	22 274 668	2	1
		2003.. 90 766	3 876 424	66 458	130 372	2 437 286	12 657 109	12 402 841	24 962 146	2	2
		2002.. 97 111	4 030 825	71 455	141 112	2 567 513	12 909 751	12 940 278	25 818 446	X	X
33633	Motor vehicle steering and suspension component (except spring) manufacturing	2004.. 38 856	1 918 091	30 904	65 931	1 424 666	4 828 422	6 130 160	10 982 392	2	2
		2003.. 39 696	1 917 837	31 609	70 284	1 439 864	4 986 635	5 752 741	10 696 639	3	3
		2002.. 41 783	2 045 377	33 289	68 957	1 492 554	4 984 666	5 526 106	10 493 720	X	X
336330	Motor vehicle steering and suspension component (except spring) manufacturing	2004.. 38 856	1 918 091	30 904	65 931	1 424 666	4 828 422	6 130 160	10 982 392	2	2
		2003.. 39 696	1 917 837	31 609	70 284	1 439 864	4 986 635	5 752 741	10 696 639	3	3
		2002.. 41 783	2 045 377	33 289	68 957	1 492 554	4 984 666	5 526 106	10 493 720	X	X
33634	Motor vehicle brake system manufacturing	2004.. 39 727	1 587 416	31 463	64 027	1 094 429	5 346 059	8 167 143	13 493 765	1	2
		2003.. 41 097	1 599 864	32 134	66 667	1 087 882	4 895 489	8 331 014	13 227 284	1	1
		2002.. 42 356	1 660 877	33 878	68 285	1 203 347	5 868 521	7 712 370	13 550 927	X	X
336340	Motor vehicle brake system manufacturing	2004.. 39 727	1 587 416	31 463	64 027	1 094 429	5 346 059	8 167 143	13 493 765	1	2
		2003.. 41 097	1 599 864	32 134	66 667	1 087 882	4 895 489	8 331 014	13 227 284	1	1
		2002.. 42 356	1 660 877	33 878	68 285	1 203 347	5 868 521	7 712 370	13 550 927	X	X
33635	Motor vehicle transmission and power train parts manufacturing	2004.. 89 183	5 863 829	72 192	162 561	4 609 334	13 620 793	21 421 727	35 239 701	3	2
		2003.. 91 087	5 493 878	74 143	161 073	4 335 723	13 593 449	20 032 569	33 360 686	3	3
		2002.. 101 917	5 700 823	83 031	179 971	4 534 699	14 407 007	20 754 530	35 063 362	X	X
336350	Motor vehicle transmission and power train parts manufacturing	2004.. 89 183	5 863 829	72 192	162 561	4 609 334	13 620 793	21 421 727	35 239 701	3	2
		2003.. 91 087	5 493 878	74 143	161 073	4 335 723	13 593 449	20 032 569	33 360 686	3	3
		2002.. 101 917	5 700 823	83 031	179 971	4 534 699	14 407 007	20 754 530	35 063 362	X	X

See footnotes at end of table.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
336	Transportation equipment manufacturing—Con.										
3363	Motor vehicle parts manufacturing—Con.										
33636	Motor vehicle seating and interior trim manufacturing	2004.. 49 968	2 028 652	36 854	74 752	1 332 936	4 453 455	11 655 748	16 104 437	1	1
		2003.. 53 032	2 088 261	40 261	79 769	1 407 294	5 282 645	11 301 097	16 580 579	1	1
		2002.. 53 779	1 998 707	41 400	81 786	1 366 864	4 793 368	11 899 163	16 711 277	X	X
336360	Motor vehicle seating and interior trim manufacturing ...	2004.. 49 968	2 028 652	36 854	74 752	1 332 936	4 453 455	11 655 748	16 104 437	1	1
		2003.. 53 032	2 088 261	40 261	79 769	1 407 294	5 282 645	11 301 097	16 580 579	1	1
		2002.. 53 779	1 998 707	41 400	81 786	1 366 864	4 793 368	11 899 163	16 711 277	X	X
33637	Motor vehicle metal stamping ...	2004.. 107 521	5 930 491	88 877	183 931	4 693 022	13 014 620	13 462 420	26 450 587	2	1
		2003.. 108 926	5 897 961	89 202	190 188	4 636 617	12 761 056	13 067 873	25 856 987	2	2
		2002.. 126 040	5 802 725	104 298	191 984	4 553 668	12 508 768	13 226 171	25 670 747	X	X
336370	Motor vehicle metal stamping	2004.. 107 521	5 930 491	88 877	183 931	4 693 022	13 014 620	13 462 420	26 450 587	2	1
		2003.. 108 926	5 897 961	89 202	190 188	4 636 617	12 761 056	13 067 873	25 856 987	2	2
		2002.. 126 040	5 802 725	104 298	191 984	4 553 668	12 508 768	13 226 171	25 670 747	X	X
33639	Other motor vehicle parts manufacturing	2004.. 160 212	6 272 112	125 839	254 759	4 389 101	17 733 217	25 021 168	42 787 551	1	1
		2003.. 159 484	6 080 030	123 601	250 669	4 143 421	17 923 076	24 652 421	42 710 392	1	1
		2002.. 164 391	6 113 346	130 070	256 911	4 228 379	18 802 034	23 999 184	42 722 932	X	X
336391	Motor vehicle air-conditioning manufacturing	2004.. 19 423	954 452	15 246	29 909	674 992	2 221 215	3 804 014	6 008 113	2	3
		2003.. 19 229	947 419	15 273	30 314	665 615	2 399 862	3 951 656	6 355 330	1	1
		2002.. 18 870	932 344	15 224	30 477	679 528	2 757 617	4 063 791	6 825 527	X	X
336399	All other miscellaneous motor vehicle parts manufacturing	2004.. 140 789	5 317 659	110 593	224 850	3 714 108	15 512 002	21 217 154	36 779 438	2	1
		2003.. 140 255	5 132 611	108 328	220 355	3 477 806	15 523 215	20 700 764	36 355 062	1	1
		2002.. 145 521	5 181 002	114 846	226 434	3 548 851	16 044 417	19 935 393	35 897 405	X	X
3364	Aerospace product and parts manufacturing	2004.. 384 605	24 550 129	189 933	368 528	10 330 347	67 594 211	56 030 540	126 129 082	1	1
		2003.. 388 598	23 953 429	191 529	387 793	10 202 165	67 135 349	57 686 419	126 310 205	1	1
		2002.. 394 627	23 687 110	194 331	396 565	10 295 157	64 148 082	59 959 337	124 681 094	X	X
33641	Aerospace product and parts manufacturing	2004.. 384 605	24 550 129	189 933	368 528	10 330 347	67 594 211	56 030 540	126 129 082	1	1
		2003.. 388 598	23 953 429	191 529	387 793	10 202 165	67 135 349	57 686 419	126 310 205	1	1
		2002.. 394 627	23 687 110	194 331	396 565	10 295 157	64 148 082	59 959 337	124 681 094	X	X
336411	Aircraft manufacturing	2004.. 162 810	10 191 161	82 948	150 563	4 583 483	30 195 766	30 661 888	63 474 959	1	1
		2003.. 162 807	10 059 873	79 669	156 894	4 506 480	31 058 467	32 111 216	64 108 490	1	1
		2002.. 164 963	9 992 081	77 356	155 766	4 446 358	29 557 132	34 474 552	64 307 364	X	X
336412	Aircraft engine and engine parts manufacturing	2004.. 66 434	4 077 677	37 492	75 402	1 996 899	12 983 030	11 232 765	24 279 543	1	1
		2003.. 64 981	3 926 635	37 407	76 153	1 894 369	12 804 734	10 624 640	23 538 792	1	1
		2002.. 71 834	4 117 520	40 080	82 793	1 920 444	11 669 394	11 593 866	23 532 038	X	X
336413	Other aircraft parts and auxiliary equipment manufacturing	2004.. 88 965	5 255 054	45 931	93 773	2 320 188	14 253 149	7 526 332	21 598 050	1	1
		2003.. 95 215	5 269 410	51 393	107 188	2 449 396	12 515 031	7 751 493	20 620 579	1	1
		2002.. 98 430	5 337 642	53 954	113 547	2 666 143	13 202 499	7 278 898	20 794 352	X	X
336414	Guided missile and space vehicle manufacturing	2004.. 46 822	3 644 394	15 230	31 232	1 025 563	7 679 663	5 490 341	12 935 759	1	1
		2003.. 46 005	3 409 271	14 974	30 318	977 697	8 163 074	6 278 273	14 558 340	1	1
		2002.. 38 661	2 935 471	14 376	27 212	866 872	7 222 394	5 580 180	12 518 301	X	X
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing	2004.. 13 497	1 026 401	4 765	10 631	261 575	1 859 192	711 593	2 819 545	1	1
		2003.. 13 843	979 602	5 012	10 794	260 680	2 017 113	647 821	2 653 829	2	1
		2002.. 14 512	983 405	5 530	11 080	284 206	1 848 076	725 835	2 601 373	X	X
336419	Other guided missile and space vehicle parts and auxiliary equipment manufacturing	2004.. 6 077	355 441	3 568	6 926	142 639	623 412	407 622	1 021 226	1	1
		2003.. 5 747	308 639	3 074	6 447	113 543	576 930	272 976	830 174	1	1
		2002.. 6 227	320 991	3 035	6 167	111 134	648 587	306 006	927 666	X	X
3365	Railroad rolling stock manufacturing	2004.. 24 077	1 123 054	15 486	30 863	607 699	3 216 704	4 471 997	7 566 129	1	2
		2003.. 24 530	1 156 084	15 399	29 981	587 005	2 909 834	4 269 369	7 404 763	1	1
		2002.. 25 541	1 204 438	15 743	30 968	638 108	3 776 018	4 070 775	7 883 598	X	X
33651	Railroad rolling stock manufacturing	2004.. 24 077	1 123 054	15 486	30 863	607 699	3 216 704	4 471 997	7 566 129	1	2
		2003.. 24 530	1 156 084	15 399	29 981	587 005	2 909 834	4 269 369	7 404 763	1	1
		2002.. 25 541	1 204 438	15 743	30 968	638 108	3 776 018	4 070 775	7 883 598	X	X
336510	Railroad rolling stock manufacturing	2004.. 24 077	1 123 054	15 486	30 863	607 699	3 216 704	4 471 997	7 566 129	1	2
		2003.. 24 530	1 156 084	15 399	29 981	587 005	2 909 834	4 269 369	7 404 763	1	1
		2002.. 25 541	1 204 438	15 743	30 968	638 108	3 776 018	4 070 775	7 883 598	X	X

See footnotes at end of table.

Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
336	Transportation equipment manufacturing—Con.										
3366	Ship and boat building	2004.. 142 208	5 506 343	102 775	205 835	3 524 687	13 148 678	10 569 158	23 717 837	1	1
		2003.. 135 174	5 224 821	99 178	198 633	3 442 696	12 660 931	9 416 610	22 077 541	1	1
		2002.. 137 079	5 085 079	100 752	193 278	3 301 686	12 216 643	9 017 996	21 234 639	X	X
33661	Ship and boat building	2004.. 142 208	5 506 343	102 775	205 835	3 524 687	13 148 678	10 569 158	23 717 837	1	1
		2003.. 135 174	5 224 821	99 178	198 633	3 442 696	12 660 931	9 416 610	22 077 541	1	1
		2002.. 137 079	5 085 079	100 752	193 278	3 301 686	12 216 643	9 017 996	21 234 639	X	X
336611	Ship building and repairing	2004.. 87 111	3 772 590	60 358	117 757	2 307 213	8 573 286	5 132 672	13 705 958	1	1
		2003.. 86 155	3 692 026	61 707	119 006	2 386 520	8 679 730	4 805 772	13 485 503	1	1
		2002.. 87 152	3 611 324	61 687	115 858	2 258 354	8 382 104	4 380 902	12 763 006	X	X
336612	Boat building	2004.. 55 096	1 733 753	42 417	88 078	1 217 474	4 575 393	5 436 486	10 011 879	1	1
		2003.. 49 019	1 532 796	37 471	79 627	1 076 177	3 981 201	4 610 838	8 592 039	2	2
		2002.. 49 927	1 473 755	39 065	77 420	1 043 332	3 834 539	4 637 094	8 471 633	X	X
3369	Other transportation equipment manufacturing	2004.. 37 581	1 545 292	27 486	51 857	969 777	5 657 518	8 756 975	14 466 840	2	1
		2003.. 39 429	1 595 024	28 732	54 779	989 411	5 396 253	8 300 545	13 705 534	1	1
		2002.. 39 767	1 539 193	28 742	55 597	958 714	5 725 756	7 545 941	13 349 149	X	X
33699	Other transportation equipment manufacturing	2004.. 37 581	1 545 292	27 486	51 857	969 777	5 657 518	8 756 975	14 466 840	2	1
		2003.. 39 429	1 595 024	28 732	54 779	989 411	5 396 253	8 300 545	13 705 534	1	1
		2002.. 39 767	1 539 193	28 742	55 597	958 714	5 725 756	7 545 941	13 349 149	X	X
336991	Motorcycle, bicycle, and parts manufacturing	2004.. 14 167	626 290	10 926	21 514	455 685	2 168 748	2 979 211	5 144 346	5	3
		2003.. 15 443	666 928	12 396	23 586	479 267	2 095 988	2 849 766	4 916 535	1	2
		2002.. 15 348	641 936	11 887	23 555	458 554	2 245 145	2 603 839	4 923 158	X	X
336992	Military armored vehicle, tank, and tank component manufacturing	2004.. 4 182	253 845	2 292	4 388	104 707	914 621	558 753	1 477 790	3	3
		2003.. 4 177	247 699	2 173	4 161	103 255	864 759	628 458	1 508 798	1	1
		2002.. 4 521	245 167	2 258	4 669	98 611	811 337	675 853	1 455 918	X	X
336999	All other transportation equipment manufacturing	2004.. 19 232	665 158	14 268	25 955	409 386	2 574 149	5 219 011	7 844 704	2	2
		2003.. 19 808	680 397	14 163	27 032	406 889	2 435 505	4 822 321	7 280 201	2	1
		2002.. 19 898	652 090	14 597	27 373	401 549	2 669 274	4 266 249	6 970 073	X	X
337	Furniture and related product manufacturing	2004.. 560 584	17 498 882	430 102	866 494	11 553 338	45 441 188	35 091 387	80 153 021	1	1
		2003.. 557 440	16 845 350	434 995	864 255	11 124 736	42 293 475	33 089 457	75 422 981	1	1
		2002.. 596 135	17 421 657	469 470	907 636	11 571 300	43 065 545	33 135 814	76 011 514	X	X
3371	Household and institutional furniture and kitchen cabinet manufacturing	2004.. 367 582	10 653 128	291 137	585 200	7 504 534	26 505 113	21 094 463	47 356 153	1	1
		2003.. 358 296	10 084 972	291 140	575 959	7 098 198	24 129 135	19 849 669	44 010 454	1	1
		2002.. 386 986	10 501 183	315 688	608 729	7 441 589	25 140 001	19 777 713	44 734 932	X	X
33711	Wood kitchen cabinet and counter top manufacturing	2004.. 136 790	4 198 422	106 416	216 629	2 920 930	10 420 155	6 899 020	17 211 960	1	1
		2003.. 127 981	3 773 362	102 461	206 150	2 621 122	9 259 246	6 061 636	15 267 110	1	1
		2002.. 126 262	3 621 359	100 377	195 631	2 522 004	8 581 764	5 733 416	14 317 269	X	X
337110	Wood kitchen cabinet and counter top manufacturing	2004.. 136 790	4 198 422	106 416	216 629	2 920 930	10 420 155	6 899 020	17 211 960	1	1
		2003.. 127 981	3 773 362	102 461	206 150	2 621 122	9 259 246	6 061 636	15 267 110	1	1
		2002.. 126 262	3 621 359	100 377	195 631	2 522 004	8 581 764	5 733 416	14 317 269	X	X
33712	Household and institutional furniture manufacturing	2004.. 230 791	6 454 707	184 721	368 571	4 583 605	16 084 958	14 195 443	30 144 193	1	1
		2003.. 230 315	6 311 611	188 679	369 810	4 477 076	14 869 889	13 788 033	28 743 343	1	1
		2002.. 260 724	6 879 824	215 311	413 098	4 919 585	16 558 237	14 044 297	30 417 663	X	X
337121	Upholstered household furniture manufacturing	2004.. 83 661	2 254 386	67 961	131 353	1 672 010	4 839 570	5 141 676	9 979 263	1	2
		2003.. 83 931	2 285 176	70 126	135 920	1 681 464	4 868 309	5 373 470	10 235 552	1	1
		2002.. 90 957	2 414 744	76 730	144 030	1 796 293	5 240 058	5 342 175	10 555 276	X	X
337122	Nonupholstered wood household furniture manufacturing	2004.. 95 337	2 514 839	78 603	157 403	1 874 974	7 095 755	5 067 079	12 086 775	1	1
		2003.. 94 337	2 446 719	79 548	154 645	1 799 199	5 835 746	4 759 926	10 678 373	2	2
		2002.. 111 393	2 737 405	94 483	182 379	2 055 820	6 771 581	5 123 119	11 720 021	X	X
337127	Institutional furniture manufacturing	2004.. 31 237	1 097 630	22 697	48 194	652 235	2 770 676	2 048 378	4 760 281	2	3
		2003.. 30 115	972 113	21 780	43 860	584 036	2 619 343	1 896 397	4 527 744	4	2
		2002.. 33 844	1 064 894	24 789	49 349	636 378	2 706 764	1 947 489	4 650 890	X	X
33712N	Other household nonupholstered furniture	2004.. 20 557	587 851	15 460	31 622	384 386	1 378 957	1 938 311	3 317 874	3	2
		2003.. 21 932	607 602	17 225	35 385	412 377	1 546 490	1 758 240	3 301 675	2	3
		2002.. 24 530	662 781	19 309	37 340	431 094	1 839 834	1 631 514	3 491 476	X	X
3372	Office furniture (including fixtures) manufacturing	2004.. 148 349	5 404 674	106 482	216 315	3 196 939	14 264 828	9 975 111	24 127 420	1	1
		2003.. 156 065	5 423 050	111 684	225 623	3 226 232	13 926 728	9 538 671	23 495 243	1	1
		2002.. 164 062	5 558 234	120 916	236 714	3 320 653	13 806 501	9 582 268	23 369 842	X	X

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Table 2. Statistics for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—	
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F
337	Furniture and related product manufacturing—Con.										
3372	Office furniture (including fixtures) manufacturing—Con.										
33721	Office furniture (including fixtures) manufacturing	2004.. 148 349	5 404 674	106 482	216 315	3 196 939	14 264 828	9 975 111	24 127 420	1	1
		2003.. 156 065	5 423 050	111 684	225 623	3 226 232	13 926 728	9 538 671	23 495 243	1	1
		2002.. 164 062	5 558 234	120 916	236 714	3 320 653	13 806 501	9 582 268	23 369 842	X	X
337212	Custom architectural woodwork and millwork manufacturing	2004.. 33 141	1 290 894	22 960	46 039	737 511	2 421 223	1 635 884	4 022 435	2	2
		2003.. 33 384	1 235 496	23 518	48 133	732 847	2 492 590	1 508 345	4 007 016	2	3
		2002.. 35 204	1 287 187	24 258	47 769	738 423	2 553 544	1 580 253	4 141 676	X	X
337215	Showcase, partition, shelving, and locker manufacturing	2004.. 59 818	2 033 809	45 586	92 063	1 253 615	4 632 007	4 034 760	8 584 531	3	2
		2003.. 64 119	2 115 058	47 961	98 046	1 293 565	4 521 169	3 907 900	8 464 714	2	3
		2002.. 70 414	2 182 523	53 107	102 999	1 336 962	4 712 040	3 899 819	8 588 692	X	X
33721N	Office furniture manufacturing	2004.. 55 390	2 079 971	37 936	78 213	1 205 813	7 211 597	4 304 468	11 520 453	1	1
		2003.. 58 562	2 072 496	40 206	79 444	1 199 820	6 912 969	4 122 426	11 023 514	2	1
		2002.. 58 444	2 088 524	43 551	85 946	1 245 268	6 540 917	4 102 196	10 639 474	X	X
3379	Other furniture related product manufacturing	2004.. 44 653	1 441 080	32 483	64 979	851 865	4 671 248	4 021 813	8 669 448	1	2
		2003.. 43 079	1 337 328	32 171	62 673	800 305	4 237 612	3 701 117	7 917 284	1	1
		2002.. 45 087	1 362 240	32 866	62 193	809 058	4 119 043	3 775 833	7 906 740	X	X
33791	Mattress manufacturing	2004.. 23 406	837 725	18 074	36 932	530 181	3 297 686	2 578 759	5 863 971	2	3
		2003.. 22 278	776 763	17 532	35 279	494 349	2 869 122	2 395 346	5 248 361	2	1
		2002.. 23 081	765 443	18 018	34 933	483 253	2 803 114	2 319 605	5 113 367	X	X
337910	Mattress manufacturing	2004.. 23 406	837 725	18 074	36 932	530 181	3 297 686	2 578 759	5 863 971	2	3
		2003.. 22 278	776 763	17 532	35 279	494 349	2 869 122	2 395 346	5 248 361	2	1
		2002.. 23 081	765 443	18 018	34 933	483 253	2 803 114	2 319 605	5 113 367	X	X
33792	Blind and shade manufacturing	2004.. 21 247	603 354	14 409	28 047	321 684	1 373 561	1 443 054	2 805 477	2	3
		2003.. 20 801	560 565	14 639	27 393	305 956	1 368 490	1 305 771	2 668 923	2	1
		2002.. 22 006	596 797	14 848	27 260	325 805	1 315 929	1 456 228	2 793 373	X	X
337920	Blind and shade manufacturing	2004.. 21 247	603 354	14 409	28 047	321 684	1 373 561	1 443 054	2 805 477	2	3
		2003.. 20 801	560 565	14 639	27 393	305 956	1 368 490	1 305 771	2 668 923	2	1
		2002.. 22 006	596 797	14 848	27 260	325 805	1 315 929	1 456 228	2 793 373	X	X
339	Miscellaneous manufacturing	2004.. 701 826	27 840 452	438 746	888 090	13 149 655	84 083 161	48 734 798	132 287 359	1	1
		2003.. 720 031	27 296 201	471 227	929 387	12 994 651	83 058 480	47 307 516	129 333 836	1	1
		2002.. 751 592	27 181 697	488 962	941 790	13 122 583	78 612 413	46 550 057	125 320 101	X	X
3391	Medical equipment and supplies manufacturing	2004.. 312 508	13 864 863	180 561	366 702	5 982 957	47 778 620	20 635 216	68 261 721	1	1
		2003.. 314 583	13 487 991	195 391	387 538	5 797 731	47 139 898	19 513 224	65 671 697	1	1
		2002.. 325 018	13 308 116	196 822	385 596	5 830 615	42 737 972	18 885 118	61 778 360	X	X
33911	Medical equipment and supplies manufacturing	2004.. 312 508	13 864 863	180 561	366 702	5 982 957	47 778 620	20 635 216	68 261 721	1	1
		2003.. 314 583	13 487 991	195 391	387 538	5 797 731	47 139 898	19 513 224	65 671 697	1	1
		2002.. 325 018	13 308 116	196 822	385 596	5 830 615	42 737 972	18 885 118	61 778 360	X	X
339111	Laboratory apparatus and furniture manufacturing	2004.. 24 426	1 180 539	12 327	25 015	439 062	3 311 457	2 063 583	5 429 071	2	2
		2003.. 24 656	1 153 491	13 443	27 690	452 436	3 442 279	1 931 475	5 374 760	1	6
		2002.. 25 806	1 180 745	13 552	27 973	439 399	3 049 366	1 891 299	4 941 870	X	X
339112	Surgical and medical instrument manufacturing	2004.. 96 559	4 733 280	52 553	110 683	1 858 072	17 000 413	6 804 016	23 742 602	1	2
		2003.. 93 816	4 402 587	53 988	106 536	1 589 153	16 334 210	6 583 504	22 719 163	2	3
		2002.. 101 980	4 526 473	57 850	115 037	1 740 395	15 019 390	6 576 293	21 776 613	X	X
339113	Surgical appliance and supplies manufacturing	2004.. 101 221	4 699 426	56 952	116 140	1 835 881	18 828 361	8 070 880	26 799 273	2	1
		2003.. 105 664	4 723 503	65 748	133 798	1 919 742	19 035 955	7 546 293	25 705 622	2	1
		2002.. 107 147	4 476 742	63 614	126 546	1 831 894	16 833 622	7 003 044	23 853 321	X	X
339114	Dental equipment and supplies manufacturing	2004.. 16 968	737 429	9 552	18 393	296 292	2 389 623	1 274 712	3 673 009	3	2
		2003.. 16 585	707 384	9 932	18 462	281 044	2 204 509	1 102 448	3 326 212	2	1
		2002.. 16 995	684 320	10 013	18 028	283 370	2 078 964	1 142 277	3 203 243	X	X
339115	Ophthalmic goods manufacturing	2004.. 21 018	872 869	12 728	25 768	446 158	3 199 135	1 647 599	4 837 110	2	2
		2003.. 22 871	896 141	14 645	28 696	460 812	3 171 453	1 678 025	4 904 740	4	6
		2002.. 23 696	918 127	15 235	29 294	468 287	3 026 628	1 652 143	4 650 640	X	X
339116	Dental laboratories	2004.. 52 316	1 641 320	36 448	70 703	1 107 492	3 049 631	774 425	3 780 656	1	2
		2003.. 50 991	1 604 885	37 635	72 356	1 094 544	2 951 492	671 478	3 641 199	2	2
		2002.. 49 394	1 521 709	36 558	68 718	1 067 270	2 730 002	620 062	3 352 673	X	X
3399	Other miscellaneous manufacturing	2004.. 389 318	13 975 589	258 185	521 388	7 166 698	36 304 541	28 099 582	64 025 638	1	1
		2003.. 405 447	13 808 211	275 836	541 849	7 196 920	35 918 582	27 794 293	63 662 140	1	1
		2002.. 426 574	13 873 581	292 140	556 194	7 291 968	35 874 441	27 664 939	63 541 741	X	X

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NAICS and NAICS-based code ¹	Industry group and industry	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments ³ (\$1,000)	Relative standard error of estimate ⁴ (percent) for column—		
		Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				A	F	
		A	B	C	D	E				F	G	H
339	Miscellaneous manufacturing—Con.											
3399	Other miscellaneous manufacturing—Con.											
33991	Jewelry and silverware manufacturing	2004.. 44 411	1 482 908	28 904	57 202	755 024	4 310 721	4 770 595	9 026 253	1	1	
		2003.. 48 373	1 530 805	33 207	63 545	807 506	4 163 334	4 787 296	8 925 927	1	1	
		2002.. 50 581	1 534 092	34 899	64 523	814 591	3 952 259	4 929 217	8 886 556	X	X	
33991M	Jewelry and silverware manufacturing	2004.. 44 411	1 482 908	28 904	57 202	755 024	4 310 721	4 770 595	9 026 253	1	1	
		2003.. 48 373	1 530 805	33 207	63 545	807 506	4 163 334	4 787 296	8 925 927	1	1	
		2002.. 50 581	1 534 092	34 899	64 523	814 591	3 952 259	4 929 217	8 886 556	X	X	
33992	Sporting and athletic goods manufacturing	2004.. 57 747	2 078 933	36 933	74 970	1 005 534	7 062 554	4 924 868	11 927 630	1	1	
		2003.. 59 756	2 037 491	39 207	77 730	1 016 444	7 017 579	5 273 905	12 225 649	1	2	
		2002.. 61 934	2 069 061	40 906	79 645	994 869	6 737 525	5 000 328	11 841 594	X	X	
339920	Sporting and athletic goods manufacturing	2004.. 57 747	2 078 933	36 933	74 970	1 005 534	7 062 554	4 924 868	11 927 630	1	1	
		2003.. 59 756	2 037 491	39 207	77 730	1 016 444	7 017 579	5 273 905	12 225 649	1	2	
		2002.. 61 934	2 069 061	40 906	79 645	994 869	6 737 525	5 000 328	11 841 594	X	X	
33993	Doll, toy, and game manufacturing	2004.. 15 257	529 683	10 214	19 478	273 456	1 966 674	1 660 325	3 541 367	4	6	
		2003.. 18 335	597 717	12 631	23 943	297 328	2 009 410	1 668 431	3 729 154	2	2	
		2002.. 20 386	646 206	13 809	25 553	328 768	2 307 990	1 818 297	4 048 149	X	X	
33993M	Doll, toy, and game manufacturing	2004.. 15 257	529 683	10 214	19 478	273 456	1 966 674	1 660 325	3 541 367	4	6	
		2003.. 18 335	597 717	12 631	23 943	297 328	2 009 410	1 668 431	3 729 154	2	2	
		2002.. 20 386	646 206	13 809	25 553	328 768	2 307 990	1 818 297	4 048 149	X	X	
33994	Office supplies (except paper) manufacturing	2004.. 19 522	730 099	12 697	25 844	361 144	2 299 760	1 580 548	3 878 243	2	1	
		2003.. 21 194	737 367	14 075	27 792	380 269	2 380 576	1 613 262	3 990 537	1	2	
		2002.. 23 534	792 633	15 699	30 828	413 341	2 451 378	1 761 459	4 213 709	X	X	
33994M	Office supplies (except paper) manufacturing	2004.. 19 522	730 099	12 697	25 844	361 144	2 299 760	1 580 548	3 878 243	2	1	
		2003.. 21 194	737 367	14 075	27 792	380 269	2 380 576	1 613 262	3 990 537	1	2	
		2002.. 23 534	792 633	15 699	30 828	413 341	2 451 378	1 761 459	4 213 709	X	X	
33995	Sign manufacturing	2004.. 80 940	2 998 621	49 931	100 293	1 455 875	5 954 106	4 218 322	10 042 284	2	2	
		2003.. 80 027	2 900 162	50 917	100 882	1 389 577	5 825 450	3 882 451	9 682 975	2	1	
		2002.. 85 594	2 954 219	54 858	105 441	1 473 192	5 744 855	3 898 801	9 652 554	X	X	
339950	Sign manufacturing	2004.. 80 940	2 998 621	49 931	100 293	1 455 875	5 954 106	4 218 322	10 042 284	2	2	
		2003.. 80 027	2 900 162	50 917	100 882	1 389 577	5 825 450	3 882 451	9 682 975	2	1	
		2002.. 85 594	2 954 219	54 858	105 441	1 473 192	5 744 855	3 898 801	9 652 554	X	X	
33999	All other miscellaneous manufacturing	2004.. 171 441	6 155 345	119 505	243 601	3 315 664	14 710 727	10 944 924	25 609 862	1	1	
		2003.. 177 762	6 004 670	125 799	247 957	3 305 795	14 522 232	10 568 948	25 107 899	1	1	
		2002.. 184 545	5 877 370	131 969	250 204	3 267 207	14 680 434	10 256 837	24 899 179	X	X	
339991	Gasket, packing, and sealing device manufacturing	2004.. 34 863	1 417 348	24 664	51 355	843 334	3 508 655	2 321 792	5 824 427	1	2	
		2003.. 34 588	1 332 998	24 856	52 215	794 254	3 049 395	2 148 302	5 178 189	3	2	
		2002.. 38 082	1 350 980	27 889	54 869	799 227	3 128 087	2 190 091	5 313 558	X	X	
339992	Musical instrument manufacturing	2004.. 13 296	463 291	10 265	20 462	308 091	1 158 313	563 986	1 739 005	2	3	
		2003.. 13 917	454 275	11 125	21 566	308 958	1 177 777	571 221	1 749 590	5	5	
		2002.. 14 889	472 077	11 800	22 713	318 772	1 208 416	598 684	1 801 203	X	X	
339993	Fastener, button, needle, and pin manufacturing	2004.. 4 467	164 863	3 189	7 005	94 112	428 499	259 633	688 015	10	3	
		2003.. 4 833	163 201	3 473	7 379	93 399	394 291	243 214	642 036	3	3	
		2002.. 5 257	171 477	3 834	7 884	97 015	417 248	250 118	669 359	X	X	
339994	Broom, brush, and mop manufacturing	2004.. 12 429	436 538	8 637	17 810	250 514	1 251 050	1 036 448	2 286 561	3	2	
		2003.. 14 615	459 958	10 905	22 810	275 877	1 237 568	1 005 468	2 242 974	5	5	
		2002.. 14 845	459 911	11 083	22 146	271 083	1 279 424	950 009	2 214 378	X	X	
339995	Burial casket manufacturing	2004.. 4 733	159 090	3 940	7 862	118 401	480 590	324 359	801 652	3	2	
		2003.. 5 198	177 466	4 294	8 672	129 338	587 257	336 214	935 774	3	1	
		2002.. 5 435	172 060	4 539	9 313	125 402	767 764	409 141	1 201 488	X	X	
339999	All other miscellaneous manufacturing	2004.. 101 654	3 514 215	68 810	139 108	1 701 212	7 883 620	6 438 705	14 270 202	2	2	
		2003.. 104 612	3 416 772	71 146	135 315	1 703 969	8 075 943	6 264 528	14 359 336	2	1	
		2002.. 106 037	3 250 865	72 824	133 279	1 655 708	7 879 495	5 858 794	13 699 193	X	X	

¹For a comparison of the Annual Survey of Manufactures (ASM) general statistics NAICS-based codes to the 2002 Economic Census NAICS codes, see Appendix F.

²Figures represent average number of production workers for the payroll period that includes the 12th of March, May, August, and November, plus other employees for the payroll period that includes the 12th of March.

³Data represent total value of shipments for most industries. For industries 311411, 311412, 311421, 311422, 311711, 311712, 311941, 311999, 312140, 312210, 312221, and 312229 value of production is shown. For industry 336611, value of work done is shown.

⁴Description of relative standard error of estimate is given in Appendix C. Percentage standard errors shown are approximate relative standard errors of estimates of level.

Note 1: Previous years' data may differ from that published in the 2003 Annual Survey of Manufactures (ASM) because of changes encountered in subsequent review of the 2004 ASM.

Note 2: The data in this table are based on the 2004 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The data in this table contain sampling errors and nonsampling errors. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
31-33	Manufacturing	2004.. 13 404 292	726 472 395	569 413 966	157 058 429	1
		2003.. 13 878 170	722 218 853	567 704 487	154 514 366	1
		2002.. 14 664 850	725 198 898	575 112 493	150 086 405	X
311	Food manufacturing	2004.. 1 448 130	59 673 373	46 562 503	13 110 870	1
		2003.. 1 471 151	58 372 252	45 901 859	12 470 393	1
		2002.. 1 505 737	57 373 517	45 472 595	11 900 922	X
3111	Animal food manufacturing	2004.. 43 339	2 241 178	1 741 258	499 920	2
		2003.. 46 273	2 242 370	1 783 544	458 827	1
		2002.. 46 974	2 224 144	1 759 231	464 913	X
31111	Animal food manufacturing	2004.. 43 339	2 241 178	1 741 258	499 920	2
		2003.. 46 273	2 242 370	1 783 544	458 827	1
		2002.. 46 974	2 224 144	1 759 231	464 913	X
311111	Dog and cat food manufacturing	2004.. 13 065	848 626	620 654	227 972	2
		2003.. 14 164	825 647	627 731	197 916	2
		2002.. 14 371	833 205	629 395	203 810	X
311119	Other animal food manufacturing	2004.. 30 274	1 392 552	1 120 604	271 948	2
		2003.. 32 109	1 416 723	1 155 812	260 911	2
		2002.. 32 603	1 390 939	1 129 836	261 103	X
3112	Grain and oilseed milling	2004.. 51 786	3 275 250	2 511 658	763 592	1
		2003.. 53 595	3 164 672	2 474 590	690 082	1
		2002.. 54 899	3 117 133	2 458 461	658 672	X
31121	Flour milling and malt manufacturing	2004.. 15 071	794 489	613 701	180 787	1
		2003.. 15 267	790 246	618 486	171 760	2
		2002.. 15 957	754 306	608 798	145 508	X
31121M	Flour milling and malt manufacturing	2004.. 15 071	794 489	613 701	180 787	1
		2003.. 15 267	790 246	618 486	171 760	2
		2002.. 15 957	754 306	608 798	145 508	X
31122	Starch and vegetable fats and oils manufacturing	2004.. 24 421	1 529 953	1 168 451	361 502	1
		2003.. 25 726	1 486 676	1 156 398	330 278	1
		2002.. 26 328	1 481 377	1 159 082	322 295	X
311221	Wet corn milling	2004.. 8 776	650 206	497 870	152 336	1
		2003.. 8 942	622 158	487 525	134 633	2
		2002.. 9 112	623 960	484 465	139 495	X
311225	Fats and oils refining and blending	2004.. 6 995	408 623	309 161	99 462	1
		2003.. 7 040	372 109	283 514	88 595	1
		2002.. 8 267	424 733	326 088	98 645	X
31122N	Soybean and other oilseed processing	2004.. 8 650	471 123	361 420	109 703	3
		2003.. 9 744	492 409	385 360	107 050	2
		2002.. 8 949	432 684	348 529	84 155	X
31123	Breakfast cereal manufacturing	2004.. 12 294	950 809	729 506	221 303	1
		2003.. 12 603	887 751	699 706	188 044	1
		2002.. 12 614	881 450	690 581	190 869	X
311230	Breakfast cereal manufacturing	2004.. 12 294	950 809	729 506	221 303	1
		2003.. 12 603	887 751	699 706	188 044	1
		2002.. 12 614	881 450	690 581	190 869	X
3113	Sugar and confectionery product manufacturing	2004.. 69 953	3 535 291	2 676 342	858 948	1
		2003.. 76 726	3 644 606	2 805 598	839 008	1
		2002.. 80 351	3 517 985	2 732 023	785 962	X
31131	Sugar manufacturing	2004.. 13 864	750 846	590 164	160 681	1
		2003.. 14 623	799 237	646 201	153 036	3
		2002.. 14 644	716 718	564 153	152 565	X
311313	Beet sugar manufacturing	2004.. 6 432	314 821	249 179	65 643	1
		2003.. 6 532	338 353	281 061	57 292	7
		2002.. 5 738	285 121	221 896	63 225	X
31131N	Sugar cane mills and refining	2004.. 7 432	436 024	340 986	95 039	1
		2003.. 8 091	460 884	365 140	95 745	1
		2002.. 8 906	431 597	342 257	89 340	X
31132	Chocolate and confectionery manufacturing from cacao beans	2004.. 8 308	510 903	372 797	138 107	1
		2003.. 8 999	517 947	372 625	145 321	5
		2002.. 8 789	509 174	378 456	130 718	X
311320	Chocolate and confectionery manufacturing from cacao beans	2004.. 8 308	510 903	372 797	138 107	1
		2003.. 8 999	517 947	372 625	145 321	5
		2002.. 8 789	509 174	378 456	130 718	X
31133	Confectionery manufacturing from purchased chocolate	2004.. 28 041	1 275 149	964 745	310 404	1
		2003.. 31 580	1 308 393	1 005 533	302 859	1
		2002.. 32 881	1 288 978	1 004 206	284 772	X
311330	Confectionery manufacturing from purchased chocolate	2004.. 28 041	1 275 149	964 745	310 404	1
		2003.. 31 580	1 308 393	1 005 533	302 859	1
		2002.. 32 881	1 288 978	1 004 206	284 772	X
31134	Nonchocolate confectionery manufacturing	2004.. 19 740	998 393	748 637	249 756	2
		2003.. 21 523	1 019 030	781 239	237 791	1
		2002.. 24 037	1 003 115	785 208	217 907	X
311340	Nonchocolate confectionery manufacturing	2004.. 19 740	998 393	748 637	249 756	2
		2003.. 21 523	1 019 030	781 239	237 791	1
		2002.. 24 037	1 003 115	785 208	217 907	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
311	Food manufacturing—Con.					
3114	Fruit and vegetable preserving and specialty food manufacturing	2004.. 164 100	6 859 005	5 209 395	1 649 610	1
		2003.. 170 997	7 048 502	5 403 446	1 645 056	2
		2002.. 178 951	7 068 184	5 440 965	1 627 219	X
31141	Frozen food manufacturing	2004.. 83 546	3 212 083	2 450 876	761 207	1
		2003.. 86 859	3 301 637	2 536 488	765 149	2
		2002.. 90 389	3 265 269	2 517 029	748 240	X
31141M	Frozen food manufacturing	2004.. 83 546	3 212 083	2 450 876	761 207	1
		2003.. 86 859	3 301 637	2 536 488	765 149	2
		2002.. 90 389	3 265 269	2 517 029	748 240	X
31142	Fruit and vegetable canning, pickling, and drying	2004.. 80 554	3 646 921	2 758 519	888 402	1
		2003.. 84 138	3 746 865	2 866 958	879 907	3
		2002.. 88 562	3 802 915	2 923 936	878 979	X
31142M	Fruit and vegetable canning, pickling, and drying	2004.. 80 554	3 646 921	2 758 519	888 402	1
		2003.. 84 138	3 746 865	2 866 958	879 907	3
		2002.. 88 562	3 802 915	2 923 936	878 979	X
3115	Dairy product manufacturing	2004.. 125 602	6 648 269	5 063 239	1 585 030	1
		2003.. 129 588	6 520 259	5 013 575	1 506 684	1
		2002.. 129 682	6 255 313	4 860 690	1 394 623	X
31151	Dairy product (except frozen) manufacturing	2004.. 107 802	5 754 214	4 366 484	1 387 730	1
		2003.. 110 295	5 608 709	4 299 968	1 308 741	1
		2002.. 109 186	5 341 766	4 131 227	1 210 539	X
311513	Cheese manufacturing	2004.. 36 655	1 798 169	1 359 108	439 061	2
		2003.. 36 883	1 719 223	1 318 666	400 557	2
		2002.. 37 120	1 640 040	1 271 810	368 230	X
311514	Dry, condensed, and evaporated dairy product manufacturing	2004.. 13 109	820 823	603 918	216 905	1
		2003.. 14 186	832 787	612 222	220 566	4
		2002.. 13 901	801 393	598 025	203 368	X
31151N	Fluid milk and butter manufacturing	2004.. 58 038	3 135 223	2 403 458	731 764	1
		2003.. 59 226	3 056 699	2 369 080	687 618	1
		2002.. 58 165	2 900 333	2 261 392	638 941	X
31152	Ice cream and frozen dessert manufacturing	2004.. 17 799	894 055	696 755	197 300	2
		2003.. 19 293	911 550	713 607	197 943	2
		2002.. 20 496	913 547	729 463	184 084	X
311520	Ice cream and frozen dessert manufacturing	2004.. 17 799	894 055	696 755	197 300	2
		2003.. 19 293	911 550	713 607	197 943	2
		2002.. 20 496	913 547	729 463	184 084	X
3116	Animal slaughtering and processing	2004.. 493 376	16 243 280	13 176 138	3 067 143	1
		2003.. 494 003	15 604 865	12 680 651	2 924 214	1
		2002.. 505 345	15 494 687	12 634 004	2 860 683	X
31161	Animal slaughtering and processing	2004.. 493 376	16 243 280	13 176 138	3 067 143	1
		2003.. 494 003	15 604 865	12 680 651	2 924 214	1
		2002.. 505 345	15 494 687	12 634 004	2 860 683	X
311615	Poultry processing	2004.. 229 031	6 270 419	5 157 822	1 112 597	1
		2003.. 231 857	6 131 985	5 010 529	1 121 456	1
		2002.. 242 774	6 276 605	5 124 349	1 152 256	X
31161N	Animal (except poultry) slaughtering and processing	2004.. 264 345	9 972 861	8 018 316	1 954 546	2
		2003.. 262 146	9 472 880	7 670 123	1 802 757	1
		2002.. 262 571	9 218 082	7 509 655	1 708 427	X
3117	Seafood product preparation and packaging	2004.. 38 804	1 276 584	1 078 826	197 759	2
		2003.. 42 764	1 333 644	1 129 140	204 504	6
		2002.. 41 301	1 246 387	1 058 106	188 281	X
31171	Seafood product preparation and packaging	2004.. 38 804	1 276 584	1 078 826	197 759	2
		2003.. 42 764	1 333 644	1 129 140	204 504	6
		2002.. 41 301	1 246 387	1 058 106	188 281	X
31171M	Seafood product preparation and packaging	2004.. 38 804	1 276 584	1 078 826	197 759	2
		2003.. 42 764	1 333 644	1 129 140	204 504	6
		2002.. 41 301	1 246 387	1 058 106	188 281	X
3118	Bakeries and tortilla manufacturing	2004.. 286 814	11 902 917	8 992 717	2 910 200	1
		2003.. 294 581	11 793 711	8 969 186	2 824 525	1
		2002.. 307 765	11 955 928	9 246 308	2 709 620	X
31181	Bread and bakery product manufacturing	2004.. 225 430	9 042 184	6 825 980	2 216 203	1
		2003.. 230 207	8 832 663	6 724 911	2 107 752	2
		2002.. 239 823	9 004 642	6 947 056	2 057 586	X
31181M	Bread and bakery product manufacturing	2004.. 225 430	9 042 184	6 825 980	2 216 203	1
		2003.. 230 207	8 832 663	6 724 911	2 107 752	2
		2002.. 239 823	9 004 642	6 947 056	2 057 586	X
31182	Cookie, cracker, and pasta manufacturing	2004.. 49 397	2 478 645	1 856 177	622 468	1
		2003.. 51 651	2 578 327	1 940 837	637 490	2
		2002.. 55 348	2 563 391	1 989 643	573 748	X
31182M	Cookie, cracker, and pasta manufacturing	2004.. 49 397	2 478 645	1 856 177	622 468	1
		2003.. 51 651	2 578 327	1 940 837	637 490	2
		2002.. 55 348	2 563 391	1 989 643	573 748	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
311	Food manufacturing—Con.					
3118	Bakeries and tortilla manufacturing—Con.					
31183	Tortilla manufacturing	2004.. 11 988	382 089	310 560	71 528	3
		2003.. 12 723	382 720	303 438	79 282	2
		2002.. 12 594	387 895	309 609	78 286	X
311830	Tortilla manufacturing	2004.. 11 988	382 089	310 560	71 528	3
		2003.. 12 723	382 720	303 438	79 282	2
		2002.. 12 594	387 895	309 609	78 286	X
3119	Other food manufacturing	2004.. 174 355	7 691 599	6 112 929	1 578 669	1
		2003.. 162 623	7 019 622	5 642 128	1 377 494	1
		2002.. 160 469	6 493 756	5 282 807	1 210 949	X
31191	Snack food manufacturing	2004.. 45 827	1 809 246	1 365 800	443 446	1
		2003.. 44 829	1 757 896	1 391 215	366 680	3
		2002.. 45 346	1 670 421	1 371 463	298 958	X
31191M	Snack food manufacturing	2004.. 45 827	1 809 246	1 365 800	443 446	1
		2003.. 44 829	1 757 896	1 391 215	366 680	3
		2002.. 45 346	1 670 421	1 371 463	298 958	X
31192	Coffee and tea manufacturing	2004.. 11 163	657 685	510 470	147 215	2
		2003.. 11 600	661 529	514 707	146 822	2
		2002.. 11 431	615 843	482 463	133 380	X
311920	Coffee and tea manufacturing	2004.. 11 163	657 685	510 470	147 215	2
		2003.. 11 600	661 529	514 707	146 822	2
		2002.. 11 431	615 843	482 463	133 380	X
31193	Flavoring syrup and concentrate manufacturing	2004.. 5 482	312 671	247 922	64 749	4
		2003.. 5 704	291 590	235 538	56 052	7
		2002.. 5 184	267 650	215 017	52 633	X
311930	Flavoring syrup and concentrate manufacturing	2004.. 5 482	312 671	247 922	64 749	4
		2003.. 5 704	291 590	235 538	56 052	7
		2002.. 5 184	267 650	215 017	52 633	X
31194	Seasoning and dressing manufacturing	2004.. 29 931	1 667 258	1 326 108	341 150	1
		2003.. 29 666	1 563 019	1 247 644	315 375	2
		2002.. 29 455	1 477 582	1 194 212	283 370	X
31194M	Seasoning and dressing manufacturing	2004.. 29 931	1 667 258	1 326 108	341 150	1
		2003.. 29 666	1 563 019	1 247 644	315 375	2
		2002.. 29 455	1 477 582	1 194 212	283 370	X
31199	All other food manufacturing	2004.. 81 951	3 244 739	2 662 629	582 109	1
		2003.. 70 824	2 745 588	2 253 024	492 564	2
		2002.. 69 053	2 462 260	2 019 652	442 608	X
31199M	All other food manufacturing	2004.. 81 951	3 244 739	2 662 629	582 109	1
		2003.. 70 824	2 745 588	2 253 024	492 564	2
		2002.. 69 053	2 462 260	2 019 652	442 608	X
312	Beverage and tobacco product manufacturing	2004.. 144 910	9 256 121	6 879 401	2 376 719	1
		2003.. 148 482	9 187 305	6 883 857	2 303 448	2
		2002.. 159 611	9 114 822	6 924 137	2 190 685	X
3121	Beverage manufacturing	2004.. 122 966	7 347 505	5 589 248	1 758 256	1
		2003.. 123 966	7 183 151	5 485 669	1 697 482	3
		2002.. 134 568	7 158 995	5 523 470	1 635 525	X
31211	Soft drink and ice manufacturing	2004.. 70 247	3 569 505	2 827 925	741 580	1
		2003.. 70 570	3 429 663	2 736 123	693 540	8
		2002.. 76 434	3 528 980	2 767 557	761 423	X
31211M	Soft drink and ice manufacturing	2004.. 70 247	3 569 505	2 827 925	741 580	1
		2003.. 70 570	3 429 663	2 736 123	693 540	8
		2002.. 76 434	3 528 980	2 767 557	761 423	X
31212	Breweries	2004.. 24 471	2 072 776	1 390 075	682 702	1
		2003.. 24 960	2 124 366	1 446 838	677 528	1
		2002.. 28 347	2 025 009	1 463 189	561 820	X
312120	Breweries	2004.. 24 471	2 072 776	1 390 075	682 702	1
		2003.. 24 960	2 124 366	1 446 838	677 528	1
		2002.. 28 347	2 025 009	1 463 189	561 820	X
31213	Wineries	2004.. 23 163	1 385 140	1 116 838	268 302	2
		2003.. 23 116	1 311 783	1 051 228	260 555	2
		2002.. 24 182	1 287 506	1 039 303	248 203	X
312130	Wineries	2004.. 23 163	1 385 140	1 116 838	268 302	2
		2003.. 23 116	1 311 783	1 051 228	260 555	2
		2002.. 24 182	1 287 506	1 039 303	248 203	X
31214	Distilleries	2004.. 5 085	320 083	254 410	65 672	1
		2003.. 5 320	317 338	251 480	65 858	3
		2002.. 5 605	317 500	253 421	64 079	X
312140	Distilleries	2004.. 5 085	320 083	254 410	65 672	1
		2003.. 5 320	317 338	251 480	65 858	3
		2002.. 5 605	317 500	253 421	64 079	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
312	Beverage and tobacco product manufacturing—Con.					
3122	Tobacco manufacturing	2004.. 21 944	1 908 616	1 290 153	618 463	1
		2003.. 24 516	2 004 154	1 398 187	605 967	1
		2002.. 25 043	1 955 827	1 400 667	555 160	X
31221	Tobacco stemming and redrying	2004.. 2 302	87 144	67 262	19 882	1
		2003.. 2 549	96 876	75 006	21 870	1
		2002.. 2 592	92 583	71 791	20 792	X
312210	Tobacco stemming and redrying	2004.. 2 302	87 144	67 262	19 882	1
		2003.. 2 549	96 876	75 006	21 870	1
		2002.. 2 592	92 583	71 791	20 792	X
31222	Tobacco product manufacturing	2004.. 19 642	1 821 472	1 222 891	598 581	1
		2003.. 21 967	1 907 278	1 323 181	584 097	1
		2002.. 22 451	1 863 244	1 328 876	534 368	X
31222M	Tobacco product manufacturing	2004.. 19 642	1 821 472	1 222 891	598 581	1
		2003.. 21 967	1 907 278	1 323 181	584 097	1
		2002.. 22 451	1 863 244	1 328 876	534 368	X
313	Textile mills	2004.. 215 714	8 396 443	6 632 439	1 764 004	1
		2003.. 247 871	9 072 609	7 198 509	1 874 100	1
		2002.. 268 394	9 542 104	7 649 865	1 892 239	X
3131	Fiber, yarn, and thread mills	2004.. 51 875	1 806 465	1 419 607	386 858	2
		2003.. 59 008	1 931 452	1 516 125	415 328	1
		2002.. 62 338	2 015 628	1 603 804	411 824	X
31311	Fiber, yarn, and thread mills	2004.. 51 875	1 806 465	1 419 607	386 858	2
		2003.. 59 008	1 931 452	1 516 125	415 328	1
		2002.. 62 338	2 015 628	1 603 804	411 824	X
31311M	Fiber, yarn, and thread mills	2004.. 51 875	1 806 465	1 419 607	386 858	2
		2003.. 59 008	1 931 452	1 516 125	415 328	1
		2002.. 62 338	2 015 628	1 603 804	411 824	X
3132	Fabric mills	2004.. 110 566	4 527 319	3 528 260	999 059	1
		2003.. 129 558	4 957 137	3 902 080	1 055 056	1
		2002.. 141 835	5 231 344	4 152 195	1 079 149	X
31321	Broadwoven fabric mills	2004.. 60 455	2 222 619	1 748 071	474 548	1
		2003.. 72 475	2 523 002	2 001 029	521 974	1
		2002.. 81 071	2 815 520	2 251 153	564 367	X
313210	Broadwoven fabric mills	2004.. 60 455	2 222 619	1 748 071	474 548	1
		2003.. 72 475	2 523 002	2 001 029	521 974	1
		2002.. 81 071	2 815 520	2 251 153	564 367	X
31322	Narrow fabric mills and schiffli machine embroidery	2004.. 11 484	450 040	354 063	95 977	4
		2003.. 12 859	455 313	364 538	90 775	2
		2002.. 14 283	465 970	376 826	89 144	X
31322M	Narrow fabric mills and schiffli machine embroidery	2004.. 11 484	450 040	354 063	95 977	4
		2003.. 12 859	455 313	364 538	90 775	2
		2002.. 14 283	465 970	376 826	89 144	X
31323	Nonwoven fabric mills	2004.. 20 039	1 172 768	882 706	290 062	1
		2003.. 21 044	1 171 300	889 187	282 113	2
		2002.. 21 720	1 127 224	857 228	269 996	X
313230	Nonwoven fabric mills	2004.. 20 039	1 172 768	882 706	290 062	1
		2003.. 21 044	1 171 300	889 187	282 113	2
		2002.. 21 720	1 127 224	857 228	269 996	X
31324	Knit fabric mills	2004.. 18 587	681 891	543 420	138 471	2
		2003.. 23 180	807 522	647 327	160 196	2
		2002.. 24 761	822 630	666 988	155 642	X
31324M	Knit fabric mills	2004.. 18 587	681 891	543 420	138 471	2
		2003.. 23 180	807 522	647 327	160 196	2
		2002.. 24 761	822 630	666 988	155 642	X
3133	Textile and fabric finishing and fabric coating mills	2004.. 53 273	2 062 660	1 684 573	378 087	2
		2003.. 59 305	2 184 020	1 780 304	403 716	2
		2002.. 64 221	2 295 132	1 893 866	401 266	X
31331	Textile and fabric finishing mills	2004.. 44 192	1 608 252	1 323 912	284 340	2
		2003.. 50 191	1 741 519	1 426 241	315 279	2
		2002.. 55 043	1 861 637	1 544 914	316 723	X
31331M	Textile and fabric finishing mills	2004.. 44 192	1 608 252	1 323 912	284 340	2
		2003.. 50 191	1 741 519	1 426 241	315 279	2
		2002.. 55 043	1 861 637	1 544 914	316 723	X
31332	Fabric coating mills	2004.. 9 081	454 408	360 661	93 747	3
		2003.. 9 114	442 501	354 063	88 437	2
		2002.. 9 178	433 495	348 952	84 543	X
313320	Fabric coating mills	2004.. 9 081	454 408	360 661	93 747	3
		2003.. 9 114	442 501	354 063	88 437	2
		2002.. 9 178	433 495	348 952	84 543	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—	
			Total	Payroll	Total fringe benefits		
			A	B	C		D
314	Textile product mills	2004..	165 721	5 738 350	4 693 632	1 044 718	1
		2003..	170 510	5 634 809	4 626 080	1 008 730	1
		2002..	182 455	5 756 865	4 746 009	1 010 856	X
3141	Textile furnishings mills	2004..	89 134	3 077 299	2 501 658	575 641	1
		2003..	94 437	3 088 159	2 514 616	573 543	1
		2002..	101 126	3 160 525	2 600 667	559 858	X
31411	Carpet and rug mills	2004..	41 041	1 614 309	1 299 376	314 933	2
		2003..	41 971	1 604 750	1 289 558	315 192	1
		2002..	44 166	1 603 004	1 301 833	301 171	X
314110	Carpet and rug mills	2004..	41 041	1 614 309	1 299 376	314 933	2
		2003..	41 971	1 604 750	1 289 558	315 192	1
		2002..	44 166	1 603 004	1 301 833	301 171	X
31412	Curtain and linen mills	2004..	48 092	1 462 990	1 202 282	260 708	2
		2003..	52 466	1 483 409	1 225 058	258 351	1
		2002..	56 960	1 557 521	1 298 834	258 687	X
31412M	Curtain and linen mills	2004..	48 092	1 462 990	1 202 282	260 708	2
		2003..	52 466	1 483 409	1 225 058	258 351	1
		2002..	56 960	1 557 521	1 298 834	258 687	X
3149	Other textile product mills	2004..	76 587	2 661 051	2 191 974	469 077	2
		2003..	76 073	2 546 650	2 111 464	435 186	3
		2002..	81 329	2 596 340	2 145 342	450 998	X
31491	Textile bag and canvas mills	2004..	26 216	885 359	751 428	133 930	3
		2003..	25 621	807 938	696 830	111 108	8
		2002..	25 206	790 909	678 096	112 813	X
31491M	Textile bag and canvas mills	2004..	26 216	885 359	751 428	133 930	3
		2003..	25 621	807 938	696 830	111 108	8
		2002..	25 206	790 909	678 096	112 813	X
31499	All other textile product mills	2004..	50 372	1 775 692	1 440 546	335 146	3
		2003..	50 452	1 738 712	1 414 634	324 079	3
		2002..	56 123	1 805 431	1 467 246	338 185	X
314991	Rope, cordage, and twine mills	2004..	4 196	177 554	144 339	33 215	4
		2003..	4 449	172 446	143 309	29 137	3
		2002..	5 167	186 379	156 117	30 262	X
314992	Tire cord and tire fabric mills	2004..	4 137	231 834	158 293	73 541	1
		2003..	4 695	249 592	170 118	79 474	1
		2002..	4 595	223 623	153 564	70 059	X
314999	All other miscellaneous textile product mills	2004..	42 039	1 366 304	1 137 913	228 390	5
		2003..	41 308	1 316 674	1 101 207	215 468	5
		2002..	46 361	1 395 429	1 157 565	237 864	X
315	Apparel manufacturing	2004..	254 598	7 076 424	5 937 138	1 139 286	1
		2003..	294 645	7 873 844	6 629 981	1 243 864	1
		2002..	337 513	8 717 921	7 350 432	1 367 489	X
3151	Apparel knitting mills	2004..	35 917	1 086 464	868 018	218 446	3
		2003..	43 027	1 291 524	1 042 730	248 794	2
		2002..	50 660	1 429 536	1 170 420	259 116	X
31511	Hosiery and sock mills	2004..	26 455	803 093	642 410	160 683	2
		2003..	29 535	888 758	714 270	174 488	3
		2002..	33 214	935 461	762 023	173 438	X
31511M	Hosiery and sock mills	2004..	26 455	803 093	642 410	160 683	2
		2003..	29 535	888 758	714 270	174 488	3
		2002..	33 214	935 461	762 023	173 438	X
31519	Other apparel knitting mills	2004..	9 462	283 371	225 608	57 763	8
		2003..	13 492	402 766	328 459	74 306	3
		2002..	17 446	494 075	408 397	85 678	X
31519M	Other apparel knitting mills	2004..	9 462	283 371	225 608	57 763	8
		2003..	13 492	402 766	328 459	74 306	3
		2002..	17 446	494 075	408 397	85 678	X
3152	Cut and sew apparel manufacturing	2004..	194 485	5 317 634	4 496 576	821 058	1
		2003..	225 767	5 840 607	4 957 798	882 808	1
		2002..	259 113	6 527 595	5 533 114	994 481	X
31521	Cut and sew apparel contractors	2004..	77 546	1 574 035	1 362 471	211 564	3
		2003..	86 583	1 579 929	1 364 083	215 846	3
		2002..	98 837	1 778 687	1 532 312	246 375	X
31521M	Cut and sew apparel contractors	2004..	77 546	1 574 035	1 362 471	211 564	3
		2003..	86 583	1 579 929	1 364 083	215 846	3
		2002..	98 837	1 778 687	1 532 312	246 375	X
31522	Men's and boys' cut and sew apparel manufacturing	2004..	49 194	1 373 718	1 099 533	274 185	2
		2003..	56 946	1 556 141	1 252 903	303 239	2
		2002..	68 897	1 830 639	1 472 154	358 485	X
31522M	Men's and boys' cut and sew apparel manufacturing	2004..	49 194	1 373 718	1 099 533	274 185	2
		2003..	56 946	1 556 141	1 252 903	303 239	2
		2002..	68 897	1 830 639	1 472 154	358 485	X
31523	Women's and girls' cut and sew apparel manufacturing	2004..	52 585	1 950 421	1 673 178	277 243	2
		2003..	64 734	2 242 999	1 941 830	301 169	2
		2002..	72 602	2 449 325	2 126 319	323 006	X
31523M	Women's and girls' cut and sew apparel manufacturing	2004..	52 585	1 950 421	1 673 178	277 243	2
		2003..	64 734	2 242 999	1 941 830	301 169	2
		2002..	72 602	2 449 325	2 126 319	323 006	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
315	Apparel manufacturing—Con.					
3152	Cut and sew apparel manufacturing—Con.					
31529	Other cut and sew apparel manufacturing	2004.. 15 161	419 460	361 394	58 066	4
		2003.. 17 504	461 537	398 983	62 555	3
		2002.. 18 777	468 944	402 329	66 615	X
31529M	Other cut and sew apparel manufacturing	2004.. 15 161	419 460	361 394	58 066	4
		2003.. 17 504	461 537	398 983	62 555	3
		2002.. 18 777	468 944	402 329	66 615	X
3159	Apparel accessories and other apparel manufacturing	2004.. 24 195	672 326	572 544	99 782	5
		2003.. 25 851	741 714	629 453	112 261	2
		2002.. 27 740	760 790	646 898	113 892	X
31599	Apparel accessories and other apparel manufacturing	2004.. 24 195	672 326	572 544	99 782	5
		2003.. 25 851	741 714	629 453	112 261	2
		2002.. 27 740	760 790	646 898	113 892	X
31599M	Apparel accessories and other apparel manufacturing	2004.. 24 195	672 326	572 544	99 782	5
		2003.. 25 851	741 714	629 453	112 261	2
		2002.. 27 740	760 790	646 898	113 892	X
316	Leather and allied product manufacturing	2004.. 38 690	1 351 030	1 096 891	254 138	1
		2003.. 40 284	1 357 344	1 103 751	253 594	2
		2002.. 44 354	1 409 048	1 158 287	250 761	X
3161	Leather and hide tanning and finishing	2004.. 6 995	299 631	235 516	64 115	1
		2003.. 7 871	331 810	257 977	73 833	3
		2002.. 8 837	352 182	280 689	71 493	X
31611	Leather and hide tanning and finishing	2004.. 6 995	299 631	235 516	64 115	1
		2003.. 7 871	331 810	257 977	73 833	3
		2002.. 8 837	352 182	280 689	71 493	X
316110	Leather and hide tanning and finishing	2004.. 6 995	299 631	235 516	64 115	1
		2003.. 7 871	331 810	257 977	73 833	3
		2002.. 8 837	352 182	280 689	71 493	X
3162	Footwear manufacturing	2004.. 17 263	581 918	463 888	118 030	2
		2003.. 17 530	574 345	462 267	112 079	4
		2002.. 19 280	597 149	485 668	111 481	X
31621	Footwear manufacturing	2004.. 17 263	581 918	463 888	118 030	2
		2003.. 17 530	574 345	462 267	112 079	4
		2002.. 19 280	597 149	485 668	111 481	X
31621M	Footwear manufacturing	2004.. 17 263	581 918	463 888	118 030	2
		2003.. 17 530	574 345	462 267	112 079	4
		2002.. 19 280	597 149	485 668	111 481	X
3169	Other leather and allied product manufacturing	2004.. 14 431	469 481	397 487	71 994	4
		2003.. 14 883	451 189	383 507	67 682	3
		2002.. 16 237	459 717	391 930	67 787	X
31699	Other leather and allied product manufacturing	2004.. 14 431	469 481	397 487	71 994	4
		2003.. 14 883	451 189	383 507	67 682	3
		2002.. 16 237	459 717	391 930	67 787	X
31699M	Other leather and allied product manufacturing	2004.. 14 431	469 481	397 487	71 994	4
		2003.. 14 883	451 189	383 507	67 682	3
		2002.. 16 237	459 717	391 930	67 787	X
321	Wood product manufacturing	2004.. 535 246	20 879 118	17 038 832	3 840 286	1
		2003.. 514 236	19 290 192	15 705 716	3 584 475	1
		2002.. 540 346	19 603 633	16 053 153	3 550 480	X
3211	Sawmills and wood preservation	2004.. 105 538	4 578 013	3 682 963	895 051	1
		2003.. 104 186	4 328 843	3 462 835	866 008	1
		2002.. 108 066	4 344 851	3 496 709	848 142	X
32111	Sawmills and wood preservation	2004.. 105 538	4 578 013	3 682 963	895 051	1
		2003.. 104 186	4 328 843	3 462 835	866 008	1
		2002.. 108 066	4 344 851	3 496 709	848 142	X
32111M	Sawmills and wood preservation	2004.. 105 538	4 578 013	3 682 963	895 051	1
		2003.. 104 186	4 328 843	3 462 835	866 008	1
		2002.. 108 066	4 344 851	3 496 709	848 142	X
3212	Veneer, plywood, and engineered wood product manufacturing	2004.. 110 839	4 864 507	3 869 717	994 790	1
		2003.. 110 897	4 600 785	3 659 663	941 121	1
		2002.. 114 255	4 597 192	3 679 908	917 284	X
32121	Veneer, plywood, and engineered wood product manufacturing	2004.. 110 839	4 864 507	3 869 717	994 790	1
		2003.. 110 897	4 600 785	3 659 663	941 121	1
		2002.. 114 255	4 597 192	3 679 908	917 284	X
321219	Reconstituted wood product manufacturing	2004.. 20 588	1 116 736	839 095	277 641	2
		2003.. 21 076	1 064 822	803 600	261 222	1
		2002.. 22 539	1 076 299	830 494	245 805	X
32121N	Veneer and plywood manufacturing	2004.. 38 652	1 749 997	1 352 297	397 700	2
		2003.. 40 799	1 707 250	1 318 275	388 975	2
		2002.. 44 262	1 837 778	1 424 790	412 988	X
32121P	Engineered wood product manufacturing	2004.. 51 599	1 997 774	1 678 325	319 449	2
		2003.. 49 021	1 828 713	1 537 788	290 925	2
		2002.. 47 454	1 683 115	1 424 624	258 491	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
321	Wood product manufacturing—Con.					
3219	Other wood product manufacturing	2004.. 318 869	11 436 598	9 486 152	1 950 446	1
		2003.. 299 153	10 360 564	8 583 218	1 777 346	1
		2002.. 318 025	10 661 590	8 876 536	1 785 054	X
32191	Millwork	2004.. 157 781	5 990 406	4 926 609	1 063 797	1
		2003.. 148 971	5 358 685	4 401 322	957 363	2
		2002.. 151 335	5 351 385	4 420 217	931 168	X
32191M	Millwork	2004.. 157 781	5 990 406	4 926 609	1 063 797	1
		2003.. 148 971	5 358 685	4 401 322	957 363	2
		2002.. 151 335	5 351 385	4 420 217	931 168	X
32192	Wood container and pallet manufacturing	2004.. 50 170	1 396 987	1 202 780	194 208	2
		2003.. 46 546	1 298 134	1 120 226	177 908	2
		2002.. 50 921	1 330 548	1 153 747	176 801	X
321920	Wood container and pallet manufacturing	2004.. 50 170	1 396 987	1 202 780	194 208	2
		2003.. 46 546	1 298 134	1 120 226	177 908	2
		2002.. 50 921	1 330 548	1 153 747	176 801	X
32199	All other wood product manufacturing	2004.. 110 918	4 049 205	3 356 764	692 441	1
		2003.. 103 636	3 703 745	3 061 670	642 076	1
		2002.. 115 769	3 979 657	3 302 572	677 085	X
321991	Manufactured home (mobile home) manufacturing	2004.. 47 483	1 626 752	1 342 119	284 633	1
		2003.. 42 766	1 527 583	1 251 069	276 514	1
		2002.. 50 277	1 720 787	1 421 340	299 447	X
321992	Prefabricated wood building manufacturing	2004.. 24 731	1 055 196	891 594	163 601	2
		2003.. 23 138	922 038	768 176	153 862	5
		2002.. 25 279	935 596	786 641	148 955	X
321999	All other miscellaneous wood product manufacturing	2004.. 38 704	1 367 257	1 123 050	244 207	3
		2003.. 37 733	1 254 124	1 042 424	211 700	3
		2002.. 40 213	1 323 274	1 094 591	228 683	X
322	Paper manufacturing	2004.. 439 989	27 091 437	20 561 103	6 530 334	1
		2003.. 465 894	27 248 975	20 918 768	6 330 208	1
		2002.. 491 428	27 530 080	21 491 676	6 038 404	X
3221	Pulp, paper, and paperboard mills	2004.. 137 044	11 069 111	8 120 833	2 948 278	1
		2003.. 148 037	11 272 236	8 469 137	2 803 099	1
		2002.. 158 333	11 630 607	8 842 326	2 788 281	X
32211	Pulp mills	2004.. 7 686	660 532	491 515	169 018	1
		2003.. 8 058	656 182	490 639	165 543	1
		2002.. 8 043	645 012	487 086	157 926	X
322110	Pulp mills	2004.. 7 686	660 532	491 515	169 018	1
		2003.. 8 058	656 182	490 639	165 543	1
		2002.. 8 043	645 012	487 086	157 926	X
32212	Paper mills	2004.. 89 712	7 252 215	5 290 116	1 962 099	1
		2003.. 96 979	7 374 579	5 522 393	1 852 186	1
		2002.. 102 458	7 558 587	5 697 613	1 860 974	X
32212M	Paper and newsprint mills	2004.. 89 712	7 252 215	5 290 116	1 962 099	1
		2003.. 96 979	7 374 579	5 522 393	1 852 186	1
		2002.. 102 458	7 558 587	5 697 613	1 860 974	X
32213	Paperboard mills	2004.. 39 646	3 156 363	2 339 202	817 161	1
		2003.. 43 000	3 241 474	2 456 105	785 369	1
		2002.. 47 832	3 427 008	2 657 627	769 381	X
322130	Paperboard mills	2004.. 39 646	3 156 363	2 339 202	817 161	1
		2003.. 43 000	3 241 474	2 456 105	785 369	1
		2002.. 47 832	3 427 008	2 657 627	769 381	X
3222	Converted paper product manufacturing	2004.. 302 945	16 022 326	12 440 270	3 582 056	1
		2003.. 317 857	15 976 739	12 449 631	3 527 108	1
		2002.. 333 095	15 899 473	12 649 350	3 250 123	X
32221	Paperboard container manufacturing	2004.. 169 327	9 051 378	7 026 889	2 024 489	1
		2003.. 178 032	8 991 103	6 990 719	2 000 384	1
		2002.. 185 053	8 901 024	7 097 102	1 803 922	X
32221M	Paperboard container manufacturing	2004.. 169 327	9 051 378	7 026 889	2 024 489	1
		2003.. 178 032	8 991 103	6 990 719	2 000 384	1
		2002.. 185 053	8 901 024	7 097 102	1 803 922	X
32222	Paper bag and coated and treated paper manufacturing	2004.. 61 057	3 395 717	2 619 380	776 337	1
		2003.. 64 649	3 413 861	2 645 410	768 451	1
		2002.. 66 666	3 368 379	2 654 210	714 169	X
32222N	Coated and laminated paper and packaging manufacturing	2004.. 39 070	2 291 757	1 780 470	511 287	1
		2003.. 41 708	2 309 429	1 806 338	503 091	1
		2002.. 43 334	2 284 507	1 813 472	471 035	X
32222P	Coated, uncoated, and multiwall bag and packaging manufacturing	2004.. 21 987	1 103 960	838 910	265 050	2
		2003.. 22 941	1 104 432	839 073	265 359	1
		2002.. 23 332	1 083 872	840 738	243 134	X
32223	Stationery product manufacturing	2004.. 35 647	1 651 245	1 294 685	356 560	1
		2003.. 36 554	1 621 169	1 286 088	335 081	1
		2002.. 38 591	1 622 876	1 297 402	325 474	X
32223M	Stationery product manufacturing	2004.. 35 647	1 651 245	1 294 685	356 560	1
		2003.. 36 554	1 621 169	1 286 088	335 081	1
		2002.. 38 591	1 622 876	1 297 402	325 474	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
322	Paper manufacturing—Con.					
3222	Converted paper product manufacturing—Con.					
32229	Other converted paper product manufacturing	2004.. 36 913	1 923 986	1 499 316	424 670	1
		2003.. 38 622	1 950 607	1 527 414	423 193	2
		2002.. 42 785	2 007 194	1 600 636	406 558	X
322291	Sanitary paper product manufacturing	2004.. 16 450	1 011 913	766 303	245 610	1
		2003.. 18 324	1 072 961	826 886	246 076	1
		2002.. 20 053	1 079 554	843 966	235 588	X
322299	All other converted paper product manufacturing	2004.. 20 464	912 073	733 013	179 059	2
		2003.. 20 298	877 646	700 529	177 117	5
		2002.. 22 732	927 640	756 670	170 970	X
323	Printing and related support activities	2004.. 658 876	29 436 061	24 789 014	4 647 047	1
		2003.. 676 142	29 813 223	25 128 762	4 684 461	1
		2002.. 715 435	30 257 439	25 620 372	4 637 067	X
3231	Printing and related support activities	2004.. 658 876	29 436 061	24 789 014	4 647 047	1
		2003.. 676 142	29 813 223	25 128 762	4 684 461	1
		2002.. 715 435	30 257 439	25 620 372	4 637 067	X
32311	Printing	2004.. 607 933	27 148 415	22 820 736	4 327 678	1
		2003.. 620 427	27 417 959	23 056 973	4 360 986	1
		2002.. 659 511	27 820 563	23 502 638	4 317 925	X
32311M	Printing	2004.. 607 933	27 148 415	22 820 736	4 327 678	1
		2003.. 620 427	27 417 959	23 056 973	4 360 986	1
		2002.. 659 511	27 820 563	23 502 638	4 317 925	X
32312	Support activities for printing	2004.. 50 944	2 287 647	1 968 278	319 369	2
		2003.. 55 715	2 395 264	2 071 789	323 474	4
		2002.. 55 924	2 436 876	2 117 734	319 142	X
32312M	Support activities for printing	2004.. 50 944	2 287 647	1 968 278	319 369	2
		2003.. 55 715	2 395 264	2 071 789	323 474	4
		2002.. 55 924	2 436 876	2 117 734	319 142	X
324	Petroleum and coal products manufacturing	2004.. 96 673	9 284 441	7 016 780	2 267 660	1
		2003.. 100 696	8 760 084	6 650 773	2 109 311	1
		2002.. 103 215	8 090 469	6 221 870	1 868 599	X
3241	Petroleum and coal products manufacturing	2004.. 96 673	9 284 441	7 016 780	2 267 660	1
		2003.. 100 696	8 760 084	6 650 773	2 109 311	1
		2002.. 103 215	8 090 469	6 221 870	1 868 599	X
32411	Petroleum refineries	2004.. 58 331	6 920 623	5 133 828	1 786 794	1
		2003.. 60 015	6 372 079	4 751 859	1 620 220	1
		2002.. 61 874	5 808 439	4 385 768	1 422 671	X
324110	Petroleum refineries	2004.. 58 331	6 920 623	5 133 828	1 786 794	1
		2003.. 60 015	6 372 079	4 751 859	1 620 220	1
		2002.. 61 874	5 808 439	4 385 768	1 422 671	X
32412	Asphalt paving, roofing, and saturated materials manufacturing	2004.. 25 614	1 500 779	1 203 621	297 159	1
		2003.. 28 252	1 561 480	1 251 519	309 962	1
		2002.. 27 531	1 438 265	1 160 514	277 751	X
324121	Asphalt paving mixture and block manufacturing	2004.. 13 444	746 063	588 348	157 715	2
		2003.. 15 382	830 642	662 299	168 343	2
		2002.. 15 431	773 979	622 331	151 648	X
324122	Asphalt shingle and coating materials manufacturing	2004.. 12 170	754 716	615 272	139 444	1
		2003.. 12 870	730 838	589 219	141 619	1
		2002.. 12 100	664 286	538 183	126 103	X
32419	Other petroleum and coal products manufacturing	2004.. 12 728	863 038	679 331	183 707	2
		2003.. 12 428	826 524	647 395	179 129	2
		2002.. 13 810	843 765	675 588	168 177	X
324191	Petroleum lubricating oil and grease manufacturing	2004.. 10 131	687 938	548 433	139 506	2
		2003.. 9 573	639 428	506 650	132 778	3
		2002.. 10 619	649 314	527 517	121 797	X
324199	All other petroleum and coal products manufacturing	2004.. 2 597	175 100	130 899	44 201	4
		2003.. 2 855	187 096	140 745	46 351	3
		2002.. 3 191	194 451	148 071	46 380	X
325	Chemical manufacturing	2004.. 768 546	56 326 992	43 663 745	12 663 248	1
		2003.. 829 918	57 605 786	45 079 651	12 526 135	1
		2002.. 853 045	56 412 292	44 677 519	11 734 773	X
3251	Basic chemical manufacturing	2004.. 161 324	13 711 994	10 430 141	3 281 853	1
		2003.. 171 416	13 877 258	10 631 465	3 245 793	1
		2002.. 181 078	13 987 581	10 917 451	3 070 130	X
32511	Petrochemical manufacturing	2004.. 7 590	848 840	598 153	250 687	1
		2003.. 8 305	850 044	622 461	227 583	1
		2002.. 9 458	855 241	660 862	194 379	X
325110	Petrochemical manufacturing	2004.. 7 590	848 840	598 153	250 687	1
		2003.. 8 305	850 044	622 461	227 583	1
		2002.. 9 458	855 241	660 862	194 379	X
32512	Industrial gas manufacturing	2004.. 9 392	680 777	524 247	156 529	3
		2003.. 10 483	783 024	604 055	178 969	2
		2002.. 10 666	772 360	594 567	177 793	X
325120	Industrial gas manufacturing	2004.. 9 392	680 777	524 247	156 529	3
		2003.. 10 483	783 024	604 055	178 969	2
		2002.. 10 666	772 360	594 567	177 793	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
325	Chemical manufacturing—Con.					
3251	Basic chemical manufacturing—Con.					
32513	Synthetic dye and pigment manufacturing	2004.. 12 920	949 583	724 394	225 189	1
		2003.. 13 152	916 418	718 152	198 266	2
		2002.. 14 872	983 134	778 060	205 074	X
32513M	Synthetic dye and pigment manufacturing	2004.. 12 920	949 583	724 394	225 189	1
		2003.. 13 152	916 418	718 152	198 266	2
		2002.. 14 872	983 134	778 060	205 074	X
32518	Other basic inorganic chemical manufacturing	2004.. 52 256	4 364 529	3 284 117	1 080 413	1
		2003.. 56 001	4 556 111	3 464 598	1 091 513	1
		2002.. 57 313	4 478 774	3 480 261	998 513	X
325181	Alkalies and chlorine manufacturing	2004.. 5 412	497 384	357 229	140 155	1
		2003.. 5 819	513 068	370 320	142 748	1
		2002.. 6 312	524 889	388 341	136 548	X
325182	Carbon black manufacturing	2004.. 1 661	125 508	97 914	27 594	2
		2003.. 1 619	126 901	98 476	28 424	2
		2002.. 1 665	122 770	99 409	23 361	X
325188	All other basic inorganic chemical manufacturing	2004.. 45 183	3 741 638	2 828 974	912 663	1
		2003.. 48 563	3 916 143	2 995 801	920 341	1
		2002.. 49 336	3 831 115	2 992 511	838 604	X
32519	Other basic organic chemical manufacturing	2004.. 79 167	6 868 266	5 299 230	1 569 036	1
		2003.. 83 475	6 771 660	5 222 198	1 549 462	1
		2002.. 88 769	6 898 072	5 403 701	1 494 371	X
32519M	Other basic organic chemical manufacturing	2004.. 79 167	6 868 266	5 299 230	1 569 036	1
		2003.. 83 475	6 771 660	5 222 198	1 549 462	1
		2002.. 88 769	6 898 072	5 403 701	1 494 371	X
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	2004.. 84 663	6 453 395	4 873 391	1 580 004	2
		2003.. 95 227	6 804 281	5 139 909	1 664 372	1
		2002.. 100 295	6 888 030	5 283 637	1 604 393	X
32521	Resin and synthetic rubber manufacturing	2004.. 66 543	5 427 062	4 120 921	1 306 140	3
		2003.. 72 032	5 495 095	4 178 138	1 316 957	1
		2002.. 76 817	5 597 043	4 329 426	1 267 617	X
325211	Plastics material and resin manufacturing	2004.. 57 774	4 730 600	3 616 315	1 114 285	3
		2003.. 61 852	4 685 630	3 583 163	1 102 467	1
		2002.. 67 061	4 895 336	3 810 236	1 085 100	X
325212	Synthetic rubber manufacturing	2004.. 8 769	696 462	504 606	191 856	1
		2003.. 10 181	809 465	594 975	214 489	1
		2002.. 9 756	701 707	519 190	182 517	X
32522	Artificial and synthetic fibers and filaments manufacturing	2004.. 18 120	1 026 333	752 469	273 864	2
		2003.. 23 194	1 309 186	961 771	347 415	1
		2002.. 23 478	1 290 987	954 211	336 776	X
32522M	Artificial and synthetic fibers and filaments manufacturing	2004.. 18 120	1 026 333	752 469	273 864	2
		2003.. 23 194	1 309 186	961 771	347 415	1
		2002.. 23 478	1 290 987	954 211	336 776	X
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing	2004.. 28 747	1 939 499	1 490 669	448 830	2
		2003.. 30 488	1 891 386	1 481 299	410 087	1
		2002.. 31 287	1 891 838	1 494 326	397 512	X
32531	Fertilizer manufacturing	2004.. 17 779	1 148 097	881 752	266 346	1
		2003.. 19 688	1 181 433	918 832	262 601	1
		2002.. 20 718	1 188 415	941 557	246 858	X
325311	Nitrogenous fertilizer manufacturing	2004.. 3 563	294 024	219 483	74 542	1
		2003.. 4 285	327 138	253 040	74 099	1
		2002.. 4 760	348 546	282 589	65 957	X
325312	Phosphatic fertilizer manufacturing	2004.. 6 231	489 950	364 827	125 123	1
		2003.. 6 223	465 237	346 056	119 181	1
		2002.. 6 306	446 478	335 864	110 614	X
325314	Fertilizer (mixing only) manufacturing	2004.. 7 986	364 123	297 442	66 681	2
		2003.. 9 180	389 057	319 736	69 321	5
		2002.. 9 652	393 391	323 104	70 287	X
32532	Pesticide and other agricultural chemical manufacturing	2004.. 10 967	791 402	608 918	182 485	4
		2003.. 10 800	709 953	562 467	147 486	1
		2002.. 10 569	703 423	552 769	150 654	X
325320	Pesticide and other agricultural chemical manufacturing	2004.. 10 967	791 402	608 918	182 485	4
		2003.. 10 800	709 953	562 467	147 486	1
		2002.. 10 569	703 423	552 769	150 654	X
3254	Pharmaceutical and medicine manufacturing	2004.. 231 039	18 121 012	14 208 970	3 912 042	1
		2003.. 243 120	18 030 088	14 354 499	3 675 589	2
		2002.. 249 164	17 213 710	13 800 810	3 412 900	X
32541	Pharmaceutical and medicine manufacturing	2004.. 231 039	18 121 012	14 208 970	3 912 042	1
		2003.. 243 120	18 030 088	14 354 499	3 675 589	2
		2002.. 249 164	17 213 710	13 800 810	3 412 900	X
325411	Medicinal and botanical manufacturing	2004.. 19 263	1 361 867	1 081 074	280 793	1
		2003.. 20 477	1 369 468	1 131 010	238 458	1
		2002.. 20 605	1 343 552	1 100 937	242 615	X
325412	Pharmaceutical preparation manufacturing	2004.. 162 320	12 840 846	10 000 065	2 840 781	1
		2003.. 170 315	12 735 841	10 059 668	2 676 173	2
		2002.. 176 737	12 402 828	9 875 165	2 527 663	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
325	Chemical manufacturing—Con.					
3254	Pharmaceutical and medicine manufacturing—Con.					
32541	Pharmaceutical and medicine manufacturing—Con.					
325413	In-vitro diagnostic substance manufacturing	2004.. 27 021	2 223 463	1 800 524	422 940	2
		2003.. 28 843	2 243 909	1 844 326	399 583	4
		2002.. 27 175	1 822 894	1 518 943	303 951	X
325414	Biological product (except diagnostic) manufacturing	2004.. 22 436	1 694 836	1 327 308	367 528	1
		2003.. 23 485	1 680 870	1 319 495	361 375	1
		2002.. 24 647	1 644 436	1 305 765	338 671	X
3255	Paint, coating, and adhesive manufacturing	2004.. 61 680	3 807 345	3 027 519	779 826	1
		2003.. 65 811	3 804 021	3 028 996	775 025	1
		2002.. 67 600	3 734 047	2 997 339	736 708	X
32551	Paint and coating manufacturing	2004.. 41 025	2 521 460	2 004 601	516 859	2
		2003.. 44 852	2 585 328	2 056 323	529 005	2
		2002.. 46 347	2 562 479	2 051 902	510 577	X
325510	Paint and coating manufacturing	2004.. 41 025	2 521 460	2 004 601	516 859	2
		2003.. 44 852	2 585 328	2 056 323	529 005	2
		2002.. 46 347	2 562 479	2 051 902	510 577	X
32552	Adhesive manufacturing	2004.. 20 655	1 285 886	1 022 918	262 967	1
		2003.. 20 959	1 218 693	972 673	246 020	2
		2002.. 21 253	1 171 568	945 437	226 131	X
325520	Adhesive manufacturing	2004.. 20 655	1 285 886	1 022 918	262 967	1
		2003.. 20 959	1 218 693	972 673	246 020	2
		2002.. 21 253	1 171 568	945 437	226 131	X
3256	Soap, cleaning compound, and toilet preparation manufacturing	2004.. 100 698	6 132 406	4 808 051	1 324 356	1
		2003.. 110 195	6 352 291	5 050 982	1 301 328	2
		2002.. 115 183	6 227 239	4 957 794	1 269 445	X
32561	Soap and cleaning compound manufacturing	2004.. 44 937	2 773 037	2 148 511	624 526	1
		2003.. 48 168	2 875 800	2 271 189	604 611	2
		2002.. 48 428	2 787 684	2 208 259	579 425	X
32561M	Soap and cleaning compound manufacturing	2004.. 44 937	2 773 037	2 148 511	624 526	1
		2003.. 48 168	2 875 800	2 271 189	604 611	2
		2002.. 48 428	2 787 684	2 208 259	579 425	X
32562	Toilet preparation manufacturing	2004.. 55 761	3 359 369	2 659 540	699 830	2
		2003.. 62 027	3 476 490	2 779 773	696 717	2
		2002.. 66 755	3 439 555	2 749 535	690 020	X
325620	Toilet preparation manufacturing	2004.. 55 761	3 359 369	2 659 540	699 830	2
		2003.. 62 027	3 476 490	2 779 773	696 717	2
		2002.. 66 755	3 439 555	2 749 535	690 020	X
3259	Other chemical product and preparation manufacturing	2004.. 100 395	6 161 341	4 825 003	1 336 337	2
		2003.. 113 662	6 846 461	5 392 521	1 453 940	1
		2002.. 108 438	6 469 847	5 226 162	1 243 685	X
32591	Printing ink manufacturing	2004.. 11 581	702 455	566 436	136 019	3
		2003.. 12 085	726 015	584 171	141 844	3
		2002.. 12 394	719 329	589 612	129 717	X
325910	Printing ink manufacturing	2004.. 11 581	702 455	566 436	136 019	3
		2003.. 12 085	726 015	584 171	141 844	3
		2002.. 12 394	719 329	589 612	129 717	X
32592	Explosives manufacturing	2004.. 5 234	309 903	233 418	76 485	2
		2003.. 5 534	282 343	224 101	58 242	6
		2002.. 5 721	314 486	231 263	83 223	X
325920	Explosives manufacturing	2004.. 5 234	309 903	233 418	76 485	2
		2003.. 5 534	282 343	224 101	58 242	6
		2002.. 5 721	314 486	231 263	83 223	X
32599	All other chemical product and preparation manufacturing	2004.. 83 580	5 148 983	4 025 150	1 123 833	2
		2003.. 96 043	5 838 103	4 584 250	1 253 854	1
		2002.. 90 323	5 436 032	4 405 287	1 030 745	X
325991	Custom compounding of purchased resins	2004.. 20 655	1 210 204	953 239	256 965	2
		2003.. 23 191	1 298 917	1 029 023	269 894	1
		2002.. 21 463	1 152 459	912 411	240 048	X
32599N	All other miscellaneous chemical product and preparation manufacturing (including photographic)	2004.. 62 925	3 938 779	3 071 911	866 868	3
		2003.. 72 852	4 539 186	3 555 227	983 959	1
		2002.. 68 860	4 283 573	3 492 876	790 697	X
326	Plastics and rubber products manufacturing	2004.. 882 691	41 162 063	32 121 088	9 040 975	1
		2003.. 944 826	41 619 827	32 586 906	9 032 921	1
		2002.. 985 463	41 451 434	32 665 858	8 785 576	X
3261	Plastics product manufacturing	2004.. 724 860	32 004 807	25 517 185	6 487 622	1
		2003.. 775 452	32 297 821	25 843 278	6 454 543	1
		2002.. 805 355	32 075 059	25 852 640	6 222 419	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
326	Plastics and rubber products manufacturing—Con.					
3261	Plastics product manufacturing—Con.					
32611	Unsupported plastics film, sheet, and bag manufacturing	2004.. 98 498	5 208 261	4 115 844	1 092 417	1
		2003.. 109 482	5 442 154	4 321 745	1 120 408	1
		2002.. 113 822	5 374 768	4 300 033	1 074 735	X
326111	Plastics bag manufacturing	2004.. 31 952	1 512 270	1 210 259	302 011	1
		2003.. 34 104	1 498 221	1 214 838	283 383	1
		2002.. 33 816	1 406 943	1 143 058	263 885	X
326112	Plastics packaging film and sheet (including laminated) manufacturing	2004.. 22 918	1 245 906	991 067	254 839	1
		2003.. 23 750	1 246 550	992 374	254 177	1
		2002.. 24 354	1 251 695	1 012 021	239 674	X
326113	Unlaminated plastics film and sheet (except packaging) manufacturing	2004.. 43 627	2 450 085	1 914 518	535 567	2
		2003.. 51 628	2 697 382	2 114 534	582 848	1
		2002.. 55 652	2 716 130	2 144 954	571 176	X
32612	Plastics pipe, pipe fitting, and unsupported profile shape manufacturing	2004.. 47 760	2 200 159	1 787 685	412 474	1
		2003.. 48 915	2 113 288	1 718 821	394 466	1
		2002.. 52 166	2 169 788	1 757 503	412 285	X
326121	Unsupported plastics profile shape manufacturing	2004.. 27 659	1 310 844	1 060 964	249 880	2
		2003.. 28 199	1 264 459	1 030 579	233 880	2
		2002.. 30 623	1 318 612	1 069 438	249 174	X
326122	Plastics pipe and pipe fitting manufacturing	2004.. 20 101	889 315	726 721	162 594	2
		2003.. 20 715	848 828	688 242	160 586	1
		2002.. 21 543	851 176	688 065	163 111	X
32613	Laminated plastics plate, sheet, and shape manufacturing	2004.. 10 090	538 934	428 702	110 232	4
		2003.. 11 278	549 594	440 087	109 507	4
		2002.. 11 865	544 377	442 189	102 188	X
326130	Laminated plastics plate, sheet, and shape manufacturing	2004.. 10 090	538 934	428 702	110 232	4
		2003.. 11 278	549 594	440 087	109 507	4
		2002.. 11 865	544 377	442 189	102 188	X
32614	Polystyrene foam product manufacturing	2004.. 32 042	1 374 029	1 072 072	301 957	2
		2003.. 31 619	1 301 745	1 018 809	282 936	2
		2002.. 33 301	1 274 274	1 005 581	268 693	X
326140	Polystyrene foam product manufacturing	2004.. 32 042	1 374 029	1 072 072	301 957	2
		2003.. 31 619	1 301 745	1 018 809	282 936	2
		2002.. 33 301	1 274 274	1 005 581	268 693	X
32615	Urethane and other foam product (except polystyrene) manufacturing	2004.. 34 134	1 443 591	1 142 185	301 406	2
		2003.. 33 461	1 286 527	1 029 174	257 353	3
		2002.. 34 601	1 319 889	1 070 036	249 853	X
326150	Urethane and other foam product (except polystyrene) manufacturing	2004.. 34 134	1 443 591	1 142 185	301 406	2
		2003.. 33 461	1 286 527	1 029 174	257 353	3
		2002.. 34 601	1 319 889	1 070 036	249 853	X
32616	Plastics bottle manufacturing	2004.. 31 208	1 446 712	1 111 558	335 154	1
		2003.. 32 703	1 491 088	1 145 944	345 144	1
		2002.. 34 054	1 458 153	1 134 996	323 157	X
326160	Plastics bottle manufacturing	2004.. 31 208	1 446 712	1 111 558	335 154	1
		2003.. 32 703	1 491 088	1 145 944	345 144	1
		2002.. 34 054	1 458 153	1 134 996	323 157	X
32619	Other plastics product manufacturing	2004.. 471 127	19 793 121	15 859 139	3 933 982	1
		2003.. 507 995	20 113 426	16 168 697	3 944 729	1
		2002.. 525 546	19 933 810	16 142 302	3 791 508	X
32619M	Other plastics product manufacturing	2004.. 471 127	19 793 121	15 859 139	3 933 982	1
		2003.. 507 995	20 113 426	16 168 697	3 944 729	1
		2002.. 525 546	19 933 810	16 142 302	3 791 508	X
3262	Rubber product manufacturing	2004.. 157 831	9 157 256	6 603 903	2 553 354	1
		2003.. 169 373	9 322 006	6 743 628	2 578 378	1
		2002.. 180 108	9 376 375	6 813 218	2 563 157	X
32621	Tire manufacturing	2004.. 62 014	4 511 351	3 092 220	1 419 131	1
		2003.. 65 862	4 593 836	3 152 233	1 441 603	1
		2002.. 69 256	4 573 720	3 150 815	1 422 905	X
32621M	Tire manufacturing	2004.. 62 014	4 511 351	3 092 220	1 419 131	1
		2003.. 65 862	4 593 836	3 152 233	1 441 603	1
		2002.. 69 256	4 573 720	3 150 815	1 422 905	X
32622	Rubber and plastics hoses and belting manufacturing	2004.. 21 689	1 109 417	812 143	297 274	1
		2003.. 22 376	1 075 099	781 871	293 228	1
		2002.. 23 597	1 089 235	798 747	290 488	X
326220	Rubber and plastics hoses and belting manufacturing	2004.. 21 689	1 109 417	812 143	297 274	1
		2003.. 22 376	1 075 099	781 871	293 228	1
		2002.. 23 597	1 089 235	798 747	290 488	X
32629	Other rubber product manufacturing	2004.. 74 129	3 536 489	2 699 540	836 949	2
		2003.. 81 136	3 653 071	2 809 523	843 548	1
		2002.. 87 255	3 713 420	2 863 656	849 764	X
32629M	Other rubber product manufacturing	2004.. 74 129	3 536 489	2 699 540	836 949	2
		2003.. 81 136	3 653 071	2 809 523	843 548	1
		2002.. 87 255	3 713 420	2 863 656	849 764	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—	
			Total	Payroll	Total fringe benefits		
			A	B	C		D
327	Nonmetallic mineral product manufacturing	2004..	455 147	23 329 660	18 106 799	5 222 862	1
		2003..	463 078	22 941 767	17 747 827	5 193 940	1
		2002..	482 700	22 807 329	17 910 160	4 897 169	X
3271	Clay product and refractory manufacturing	2004..	54 014	2 460 647	1 900 181	560 466	1
		2003..	57 253	2 505 601	1 928 077	577 524	1
		2002..	60 570	2 601 332	2 033 150	568 182	X
32711	Pottery, ceramics, and plumbing fixture manufacturing	2004..	24 525	1 073 703	824 439	249 264	2
		2003..	26 240	1 111 650	842 085	269 564	1
		2002..	29 637	1 241 486	965 849	275 637	X
327111	Vitreous china plumbing fixture and china and earthenware bathroom accessories manufacturing	2004..	6 319	289 423	217 237	72 186	3
		2003..	7 153	320 673	236 279	84 395	2
		2002..	8 054	367 473	282 537	84 936	X
327112	Vitreous china, fine earthenware, and other pottery product manufacturing	2004..	11 086	415 252	324 880	90 372	3
		2003..	11 045	382 394	296 664	85 730	2
		2002..	12 683	427 476	336 124	91 352	X
327113	Porcelain electrical supply manufacturing	2004..	7 121	369 028	282 322	86 706	4
		2003..	8 042	408 582	309 142	99 439	2
		2002..	8 900	446 537	347 188	99 349	X
32712	Clay building material and refractories manufacturing	2004..	29 489	1 386 944	1 075 742	311 202	1
		2003..	31 013	1 393 952	1 085 992	307 960	1
		2002..	30 933	1 359 846	1 067 301	292 545	X
327121	Brick and structural clay tile manufacturing	2004..	12 942	542 753	435 517	107 236	3
		2003..	13 465	537 389	435 942	101 447	2
		2002..	13 208	528 039	429 924	98 115	X
327122	Ceramic wall and floor tile manufacturing	2004..	6 101	260 265	204 863	55 402	1
		2003..	6 650	262 080	210 321	51 759	1
		2002..	6 482	251 724	202 466	49 258	X
327123	Other structural clay product manufacturing	2004..	1 468	68 747	51 969	16 778	2
		2003..	1 585	69 791	53 459	16 333	1
		2002..	1 628	68 125	53 796	14 329	X
32712N	Refractory manufacturing	2004..	8 978	515 180	383 393	131 787	2
		2003..	9 313	524 691	386 269	138 421	3
		2002..	9 615	511 958	381 115	130 843	X
3272	Glass and glass product manufacturing	2004..	103 087	5 682 259	4 149 519	1 532 740	1
		2003..	107 443	5 788 392	4 188 939	1 599 453	1
		2002..	115 532	5 889 453	4 400 391	1 489 062	X
32721	Glass and glass product manufacturing	2004..	103 087	5 682 259	4 149 519	1 532 740	1
		2003..	107 443	5 788 392	4 188 939	1 599 453	1
		2002..	115 532	5 889 453	4 400 391	1 489 062	X
327211	Flat glass manufacturing	2004..	11 316	759 693	516 544	243 149	1
		2003..	10 352	712 874	474 938	237 935	1
		2002..	10 683	675 795	469 781	206 014	X
327212	Other pressed and blown glass and glassware manufacturing	2004..	21 955	1 253 474	887 562	365 911	1
		2003..	24 689	1 375 715	963 755	411 960	1
		2002..	27 814	1 496 187	1 087 129	409 058	X
327213	Glass container manufacturing	2004..	14 726	1 060 872	753 690	307 182	2
		2003..	15 501	1 047 169	743 860	303 309	2
		2002..	16 102	1 048 990	760 453	288 537	X
327215	Glass product manufacturing made of purchased glass	2004..	55 089	2 608 220	1 991 722	616 497	1
		2003..	56 901	2 652 634	2 006 386	646 248	3
		2002..	60 933	2 668 481	2 083 028	585 453	X
3273	Cement and concrete product manufacturing	2004..	211 643	10 504 550	8 417 742	2 086 808	1
		2003..	211 966	10 108 396	8 104 579	2 003 817	1
		2002..	218 319	9 922 806	8 015 580	1 907 226	X
32731	Cement manufacturing	2004..	16 162	1 176 483	888 644	287 839	1
		2003..	17 352	1 195 860	902 432	293 427	1
		2002..	17 660	1 165 481	890 528	274 953	X
327310	Cement manufacturing	2004..	16 162	1 176 483	888 644	287 839	1
		2003..	17 352	1 195 860	902 432	293 427	1
		2002..	17 660	1 165 481	890 528	274 953	X
32732	Ready-mix concrete manufacturing	2004..	99 927	4 974 413	4 010 431	963 983	2
		2003..	99 004	4 802 460	3 865 209	937 251	2
		2002..	98 995	4 531 543	3 669 838	861 705	X
327320	Ready-mix concrete manufacturing	2004..	99 927	4 974 413	4 010 431	963 983	2
		2003..	99 004	4 802 460	3 865 209	937 251	2
		2002..	98 995	4 531 543	3 669 838	861 705	X
32733	Concrete pipe, brick, and block manufacturing	2004..	34 935	1 701 345	1 371 262	330 083	1
		2003..	34 624	1 636 152	1 320 697	315 455	2
		2002..	35 620	1 597 503	1 293 865	303 638	X
32733M	Concrete pipe, brick, and block manufacturing	2004..	34 935	1 701 345	1 371 262	330 083	1
		2003..	34 624	1 636 152	1 320 697	315 455	2
		2002..	35 620	1 597 503	1 293 865	303 638	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
327	Nonmetallic mineral product manufacturing—Con.					
3273	Cement and concrete product manufacturing—Con.					
32739	Other concrete product manufacturing	2004.. 60 619	2 652 309	2 147 405	504 904	1
		2003.. 60 987	2 473 925	2 016 241	457 684	2
		2002.. 66 044	2 628 279	2 161 349	466 930	X
327390	Other concrete product manufacturing	2004.. 60 619	2 652 309	2 147 405	504 904	1
		2003.. 60 987	2 473 925	2 016 241	457 684	2
		2002.. 66 044	2 628 279	2 161 349	466 930	X
3274	Lime and gypsum product manufacturing	2004.. 15 278	907 329	717 075	190 253	1
		2003.. 15 930	930 435	723 122	207 313	2
		2002.. 15 883	859 068	682 166	176 902	X
32741	Lime manufacturing	2004.. 3 928	225 187	181 482	43 706	1
		2003.. 3 673	215 276	166 552	48 724	2
		2002.. 3 914	221 593	172 619	48 974	X
327410	Lime manufacturing	2004.. 3 928	225 187	181 482	43 706	1
		2003.. 3 673	215 276	166 552	48 724	2
		2002.. 3 914	221 593	172 619	48 974	X
32742	Gypsum product manufacturing	2004.. 11 350	682 141	535 594	146 548	1
		2003.. 12 257	715 159	556 570	158 589	2
		2002.. 11 969	637 475	509 547	127 928	X
327420	Gypsum product manufacturing	2004.. 11 350	682 141	535 594	146 548	1
		2003.. 12 257	715 159	556 570	158 589	2
		2002.. 11 969	637 475	509 547	127 928	X
3279	Other nonmetallic mineral product manufacturing	2004.. 71 125	3 774 876	2 922 282	852 594	1
		2003.. 70 486	3 608 943	2 803 109	805 834	1
		2002.. 72 396	3 534 670	2 778 873	755 797	X
32791	Abrasive product manufacturing	2004.. 16 210	900 559	690 671	209 887	2
		2003.. 15 218	850 485	661 954	188 532	1
		2002.. 16 904	879 617	686 274	193 343	X
327910	Abrasive product manufacturing	2004.. 16 210	900 559	690 671	209 887	2
		2003.. 15 218	850 485	661 954	188 532	1
		2002.. 16 904	879 617	686 274	193 343	X
32799	All other nonmetallic mineral product manufacturing	2004.. 54 916	2 874 318	2 231 611	642 707	1
		2003.. 55 268	2 758 457	2 141 155	617 302	1
		2002.. 55 492	2 655 053	2 092 599	562 454	X
327991	Cut stone and stone product manufacturing	2004.. 22 255	956 883	781 340	175 543	3
		2003.. 20 630	870 599	704 041	166 558	3
		2002.. 20 476	837 482	683 542	153 940	X
327992	Ground or treated mineral and earth manufacturing	2004.. 5 809	366 479	266 137	100 343	3
		2003.. 7 355	404 545	308 979	95 565	4
		2002.. 6 736	357 839	274 424	83 415	X
327993	Mineral wool manufacturing	2004.. 18 063	1 124 814	843 906	280 908	1
		2003.. 18 269	1 073 775	798 628	275 146	2
		2002.. 19 405	1 067 970	816 527	251 443	X
327999	All other miscellaneous nonmetallic mineral product manufacturing	2004.. 8 788	426 142	340 229	85 913	2
		2003.. 9 014	409 539	329 507	80 032	2
		2002.. 8 875	391 762	318 106	73 656	X
331	Primary metal manufacturing	2004.. 435 152	28 419 748	21 159 193	7 260 555	1
		2003.. 455 549	27 508 004	20 278 828	7 229 176	1
		2002.. 490 813	28 736 171	21 406 193	7 329 978	X
3311	Iron and steel mills and ferroalloy manufacturing	2004.. 109 322	9 197 637	6 757 885	2 439 751	1
		2003.. 111 752	8 576 397	6 065 296	2 511 101	1
		2002.. 121 029	9 006 666	6 333 681	2 672 985	X
33111	Iron and steel mills and ferroalloy manufacturing	2004.. 109 322	9 197 637	6 757 885	2 439 751	1
		2003.. 111 752	8 576 397	6 065 296	2 511 101	1
		2002.. 121 029	9 006 666	6 333 681	2 672 985	X
33111M	Iron and steel mills and ferroalloy manufacturing	2004.. 109 322	9 197 637	6 757 885	2 439 751	1
		2003.. 111 752	8 576 397	6 065 296	2 511 101	1
		2002.. 121 029	9 006 666	6 333 681	2 672 985	X
3312	Steel product manufacturing from purchased steel	2004.. 45 042	2 665 072	2 015 043	650 029	1
		2003.. 48 809	2 597 792	1 979 580	618 211	1
		2002.. 52 787	2 774 324	2 141 798	632 526	X
33121	Iron and steel pipe and tube manufacturing from purchased steel	2004.. 20 259	1 165 242	874 924	290 319	1
		2003.. 20 953	1 089 923	838 479	251 444	2
		2002.. 22 301	1 160 736	899 298	261 438	X
331210	Iron and steel pipe and tube manufacturing from purchased steel	2004.. 20 259	1 165 242	874 924	290 319	1
		2003.. 20 953	1 089 923	838 479	251 444	2
		2002.. 22 301	1 160 736	899 298	261 438	X
33122	Rolling and drawing of purchased steel	2004.. 24 783	1 499 830	1 140 119	359 711	2
		2003.. 27 856	1 507 869	1 141 101	366 767	1
		2002.. 30 486	1 613 588	1 242 500	371 088	X
33122M	Rolling and drawing of purchased steel	2004.. 24 783	1 499 830	1 140 119	359 711	2
		2003.. 27 856	1 507 869	1 141 101	366 767	1
		2002.. 30 486	1 613 588	1 242 500	371 088	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
331	Primary metal manufacturing—Con.					
3313	Alumina and aluminum production and processing	2004.. 63 538	4 111 310	2 942 543	1 168 767	1
		2003.. 68 297	4 083 314	2 933 753	1 149 561	1
		2002.. 70 360	4 129 728	3 088 420	1 041 308	X
33131	Alumina and aluminum production and processing	2004.. 63 538	4 111 310	2 942 543	1 168 767	1
		2003.. 68 297	4 083 314	2 933 753	1 149 561	1
		2002.. 70 360	4 129 728	3 088 420	1 041 308	X
331311	Alumina refining	2004.. 1 538	119 922	85 098	34 823	2
		2003.. 1 644	134 042	87 909	46 134	1
		2002.. 1 554	124 493	89 451	35 042	X
331312	Primary aluminum production	2004.. 10 213	800 049	525 300	274 749	1
		2003.. 11 141	824 035	544 077	279 958	1
		2002.. 12 197	858 386	630 139	228 247	X
331314	Secondary smelting and alloying of aluminum	2004.. 5 947	342 510	263 094	79 416	2
		2003.. 6 411	341 016	257 988	83 028	3
		2002.. 5 808	324 253	250 839	73 414	X
331316	Aluminum extruded product manufacturing	2004.. 25 426	1 296 297	979 981	316 317	1
		2003.. 27 174	1 326 894	1 003 817	323 077	2
		2002.. 27 879	1 300 441	1 002 228	298 213	X
33131N	Aluminum rolling and drawing	2004.. 20 416	1 552 532	1 089 070	463 462	1
		2003.. 21 926	1 457 327	1 039 962	417 365	1
		2002.. 22 922	1 522 155	1 115 763	406 392	X
3314	Nonferrous metal (except aluminum) production and processing	2004.. 56 589	3 532 896	2 654 297	878 599	1
		2003.. 60 830	3 531 181	2 666 517	864 664	1
		2002.. 66 884	3 773 821	2 863 699	910 122	X
33141	Nonferrous metal (except aluminum) smelting and refining	2004.. 7 938	553 779	410 736	143 043	1
		2003.. 8 646	556 102	414 340	141 762	1
		2002.. 10 484	646 669	482 516	164 153	X
331411	Primary smelting and refining of copper	2004.. 1 428	92 390	66 580	25 810	1
		2003.. 1 469	91 555	64 482	27 073	1
		2002.. 2 672	159 289	110 727	48 562	X
331419	Primary smelting and refining of nonferrous metal (except copper and aluminum)	2004.. 6 510	461 389	344 156	117 233	1
		2003.. 7 177	464 547	349 858	114 689	2
		2002.. 7 812	487 380	371 789	115 591	X
33142	Copper rolling, drawing, extruding, and alloying	2004.. 25 133	1 487 632	1 113 262	374 370	1
		2003.. 27 252	1 518 580	1 141 030	377 550	1
		2002.. 30 001	1 606 176	1 213 118	393 058	X
33142M	Copper rolling, drawing, extruding, and alloying	2004.. 25 133	1 487 632	1 113 262	374 370	1
		2003.. 27 252	1 518 580	1 141 030	377 550	1
		2002.. 30 001	1 606 176	1 213 118	393 058	X
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying	2004.. 23 519	1 491 485	1 130 299	361 186	1
		2003.. 24 933	1 456 498	1 111 146	345 352	1
		2002.. 26 399	1 520 976	1 168 065	352 911	X
33149M	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying	2004.. 23 519	1 491 485	1 130 299	361 186	1
		2003.. 24 933	1 456 498	1 111 146	345 352	1
		2002.. 26 399	1 520 976	1 168 065	352 911	X
3315	Foundries	2004.. 160 661	8 912 833	6 789 425	2 123 408	1
		2003.. 165 861	8 719 320	6 633 682	2 085 638	1
		2002.. 179 753	9 051 632	6 978 595	2 073 037	X
33151	Ferrous metal foundries	2004.. 91 034	5 465 305	4 110 780	1 354 526	1
		2003.. 89 696	5 152 790	3 854 627	1 298 163	1
		2002.. 99 537	5 426 293	4 118 926	1 307 367	X
33151M	Ferrous metal foundries	2004.. 91 034	5 465 305	4 110 780	1 354 526	1
		2003.. 89 696	5 152 790	3 854 627	1 298 163	1
		2002.. 99 537	5 426 293	4 118 926	1 307 367	X
33152	Nonferrous metal foundries	2004.. 69 627	3 447 528	2 678 646	768 882	1
		2003.. 76 165	3 566 530	2 779 055	787 475	2
		2002.. 80 216	3 625 339	2 859 669	765 670	X
33152N	Aluminum foundries	2004.. 46 782	2 334 943	1 810 175	524 768	1
		2003.. 51 576	2 428 131	1 892 271	535 860	3
		2002.. 54 490	2 521 363	1 983 195	538 168	X
33152P	Foundries not aluminum	2004.. 22 845	1 112 585	868 471	244 115	3
		2003.. 24 589	1 138 399	886 784	251 615	2
		2002.. 25 726	1 103 976	876 474	227 502	X
332	Fabricated metal product manufacturing	2004.. 1 469 622	71 154 852	57 426 264	13 728 587	1
		2003.. 1 488 854	69 304 241	56 112 887	13 191 354	1
		2002.. 1 574 108	70 589 730	57 467 528	13 122 202	X

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NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
332	Fabricated metal product manufacturing—Con.					
3321	Forging and stamping	2004.. 120 315	6 197 498	4 922 968	1 274 530	2
		2003.. 121 880	5 866 449	4 698 513	1 167 936	1
		2002.. 127 710	5 973 048	4 822 822	1 150 226	X
33211	Forging and stamping	2004.. 120 315	6 197 498	4 922 968	1 274 530	2
		2003.. 121 880	5 866 449	4 698 513	1 167 936	1
		2002.. 127 710	5 973 048	4 822 822	1 150 226	X
332114	Custom roll forming	2004.. 16 528	833 290	668 613	164 677	4
		2003.. 16 938	794 803	644 117	150 685	3
		2002.. 17 534	793 293	652 213	141 080	X
332117	Powder metallurgy parts manufacturing	2004.. 8 040	393 219	307 829	85 391	2
		2003.. 8 595	391 664	307 884	83 781	4
		2002.. 9 102	405 537	324 973	80 564	X
33211N	Forging	2004.. 28 262	1 699 788	1 275 861	423 927	2
		2003.. 28 000	1 606 210	1 227 771	378 439	1
		2002.. 31 846	1 691 758	1 310 434	381 324	X
33211P	Crown, closure, and metal stamping manufacturing	2004.. 67 486	3 271 201	2 670 665	600 535	3
		2003.. 68 348	3 073 772	2 518 740	555 032	2
		2002.. 69 228	3 082 460	2 535 202	547 258	X
3322	Cutlery and handtool manufacturing	2004.. 55 498	2 837 754	2 203 069	634 685	1
		2003.. 60 559	2 915 435	2 278 088	637 347	1
		2002.. 64 686	3 062 146	2 404 792	657 354	X
33221	Cutlery and hand tool manufacturing	2004.. 55 498	2 837 754	2 203 069	634 685	1
		2003.. 60 559	2 915 435	2 278 088	637 347	1
		2002.. 64 686	3 062 146	2 404 792	657 354	X
33221N	Cutlery, kitchen utensil, pot, and pan manufacturing	2004.. 11 227	645 257	479 887	165 370	1
		2003.. 13 065	702 992	523 598	179 394	2
		2002.. 13 083	696 561	526 580	169 981	X
33221P	Hand tool and saw blade manufacturing	2004.. 44 271	2 192 497	1 723 182	469 316	2
		2003.. 47 495	2 212 443	1 754 489	457 954	1
		2002.. 51 603	2 365 585	1 878 212	487 373	X
3323	Architectural and structural metals manufacturing	2004.. 362 088	16 323 821	13 391 593	2 932 228	2
		2003.. 370 545	16 023 826	13 138 010	2 885 816	1
		2002.. 386 673	16 288 055	13 449 378	2 838 677	X
33231	Plate work and fabricated structural product manufacturing	2004.. 149 720	7 132 338	5 848 262	1 284 076	3
		2003.. 152 843	7 035 272	5 753 344	1 281 927	1
		2002.. 162 966	7 270 055	6 019 425	1 250 630	X
33231M	Plate work and fabricated structural product manufacturing	2004.. 149 720	7 132 338	5 848 262	1 284 076	3
		2003.. 152 843	7 035 272	5 753 344	1 281 927	1
		2002.. 162 966	7 270 055	6 019 425	1 250 630	X
33232	Ornamental and architectural metal work manufacturing	2004.. 212 368	9 191 483	7 543 331	1 648 152	1
		2003.. 217 701	8 988 555	7 384 666	1 603 889	1
		2002.. 223 707	9 018 000	7 429 953	1 588 047	X
33232M	Ornamental and architectural metal work manufacturing	2004.. 212 368	9 191 483	7 543 331	1 648 152	1
		2003.. 217 701	8 988 555	7 384 666	1 603 889	1
		2002.. 223 707	9 018 000	7 429 953	1 588 047	X
3324	Boiler, tank, and shipping container manufacturing	2004.. 82 757	4 578 017	3 528 633	1 049 384	1
		2003.. 84 845	4 535 052	3 538 451	996 600	1
		2002.. 88 617	4 506 312	3 536 363	969 949	X
33241	Power boiler and heat exchanger manufacturing	2004.. 16 879	938 771	744 207	194 564	4
		2003.. 18 824	974 986	789 669	185 317	4
		2002.. 19 798	996 245	792 931	203 314	X
332410	Power boiler and heat exchanger manufacturing	2004.. 16 879	938 771	744 207	194 564	4
		2003.. 18 824	974 986	789 669	185 317	4
		2002.. 19 798	996 245	792 931	203 314	X
33242	Metal tank (heavy gauge) manufacturing	2004.. 29 671	1 499 357	1 205 899	293 458	3
		2003.. 29 366	1 426 195	1 155 865	270 331	2
		2002.. 30 545	1 442 903	1 170 155	272 748	X
332420	Metal tank (heavy gauge) manufacturing	2004.. 29 671	1 499 357	1 205 899	293 458	3
		2003.. 29 366	1 426 195	1 155 865	270 331	2
		2002.. 30 545	1 442 903	1 170 155	272 748	X
33243	Metal can, box, and other metal container (light gauge) manufacturing	2004.. 36 207	2 139 889	1 578 527	561 363	1
		2003.. 36 655	2 133 871	1 592 918	540 953	1
		2002.. 38 274	2 067 164	1 573 277	493 887	X
33243M	Metal can, box, and other metal container (light gauge) manufacturing	2004.. 36 207	2 139 889	1 578 527	561 363	1
		2003.. 36 655	2 133 871	1 592 918	540 953	1
		2002.. 38 274	2 067 164	1 573 277	493 887	X
3325	Hardware manufacturing	2004.. 51 086	2 453 235	1 890 695	562 540	2
		2003.. 56 344	2 557 573	1 986 692	570 881	1
		2002.. 60 986	2 688 068	2 080 576	607 492	X
33251	Hardware manufacturing	2004.. 51 086	2 453 235	1 890 695	562 540	2
		2003.. 56 344	2 557 573	1 986 692	570 881	1
		2002.. 60 986	2 688 068	2 080 576	607 492	X
332510	Hardware manufacturing	2004.. 51 086	2 453 235	1 890 695	562 540	2
		2003.. 56 344	2 557 573	1 986 692	570 881	1
		2002.. 60 986	2 688 068	2 080 576	607 492	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
332	Fabricated metal product manufacturing—Con.					
3326	Spring and wire product manufacturing	2004.. 56 068	2 359 241	1 923 798	435 444	2
		2003.. 61 458	2 447 637	2 008 326	439 311	2
		2002.. 62 459	2 433 657	1 999 584	434 073	X
33261	Spring and wire product manufacturing	2004.. 56 068	2 359 241	1 923 798	435 444	2
		2003.. 61 458	2 447 637	2 008 326	439 311	2
		2002.. 62 459	2 433 657	1 999 584	434 073	X
33261M	Spring and wire product manufacturing	2004.. 56 068	2 359 241	1 923 798	435 444	2
		2003.. 61 458	2 447 637	2 008 326	439 311	2
		2002.. 62 459	2 433 657	1 999 584	434 073	X
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2004.. 349 771	16 712 879	13 972 741	2 740 138	1
		2003.. 337 304	15 978 142	13 410 990	2 567 152	1
		2002.. 361 016	16 089 244	13 577 066	2 512 178	X
33271	Machine shops	2004.. 238 371	11 118 238	9 397 751	1 720 487	1
		2003.. 222 808	10 426 772	8 882 410	1 544 362	1
		2002.. 240 238	10 503 560	8 983 183	1 520 377	X
332710	Machine shops	2004.. 238 371	11 118 238	9 397 751	1 720 487	1
		2003.. 222 808	10 426 772	8 882 410	1 544 362	1
		2002.. 240 238	10 503 560	8 983 183	1 520 377	X
33272	Turned product and screw, nut, and bolt manufacturing	2004.. 111 399	5 594 642	4 574 990	1 019 651	1
		2003.. 114 496	5 551 370	4 528 581	1 022 790	1
		2002.. 120 778	5 585 684	4 593 883	991 801	X
332721	Precision turned product manufacturing	2004.. 71 662	3 424 917	2 873 179	551 738	2
		2003.. 70 341	3 271 656	2 737 875	533 781	1
		2002.. 76 088	3 323 753	2 803 015	520 738	X
332722	Bolt, nut, screw, rivet, and washer manufacturing	2004.. 39 737	2 169 725	1 701 811	467 913	2
		2003.. 44 156	2 279 714	1 790 706	489 009	1
		2002.. 44 690	2 261 931	1 790 868	471 063	X
3328	Coating, engraving, heat treating, and allied activities	2004.. 129 158	5 625 615	4 649 047	976 569	1
		2003.. 128 156	5 371 472	4 452 281	919 191	2
		2002.. 138 241	5 638 486	4 691 773	946 713	X
33281	Coating, engraving, heat treating, and allied activities	2004.. 129 158	5 625 615	4 649 047	976 569	1
		2003.. 128 156	5 371 472	4 452 281	919 191	2
		2002.. 138 241	5 638 486	4 691 773	946 713	X
33281M	Coating, engraving, heat treating, and allied activities	2004.. 129 158	5 625 615	4 649 047	976 569	1
		2003.. 128 156	5 371 472	4 452 281	919 191	2
		2002.. 138 241	5 638 486	4 691 773	946 713	X
3329	Other fabricated metal product manufacturing	2004.. 262 880	14 066 790	10 943 721	3 123 069	1
		2003.. 267 761	13 608 654	10 601 535	3 007 119	1
		2002.. 283 720	13 910 714	10 905 174	3 005 540	X
33291	Metal valve manufacturing	2004.. 99 294	5 660 339	4 334 366	1 325 972	1
		2003.. 102 166	5 438 244	4 203 320	1 234 924	1
		2002.. 109 716	5 570 647	4 328 033	1 242 614	X
332913	Plumbing fixture fitting and trim manufacturing	2004.. 11 461	641 488	493 122	148 366	12
		2003.. 12 410	608 344	463 186	145 158	1
		2002.. 13 961	627 129	480 264	146 865	X
33291N	Valve and fitting (except plumbing) manufacturing	2004.. 87 832	5 018 851	3 841 244	1 177 607	1
		2003.. 89 756	4 829 900	3 740 134	1 089 767	1
		2002.. 95 755	4 943 518	3 847 769	1 095 749	X
33299	All other fabricated metal product manufacturing	2004.. 163 587	8 406 451	6 609 355	1 797 097	1
		2003.. 165 595	8 170 410	6 398 215	1 772 195	1
		2002.. 174 004	8 340 067	6 577 141	1 762 926	X
332991	Ball and roller bearing manufacturing	2004.. 27 217	1 613 781	1 180 544	433 237	3
		2003.. 27 655	1 556 787	1 111 208	445 579	1
		2002.. 29 351	1 661 587	1 211 769	449 818	X
332992	Small arms ammunition manufacturing	2004.. 7 281	444 101	330 681	113 420	2
		2003.. 7 304	407 051	312 912	94 140	1
		2002.. 6 740	361 626	269 205	92 421	X
332993	Ammunition (except small arms) manufacturing	2004.. 7 340	465 193	352 840	112 353	1
		2003.. 6 270	366 970	279 289	87 682	1
		2002.. 6 770	379 430	291 149	88 281	X
332994	Small arms manufacturing	2004.. 11 018	596 452	479 184	117 268	1
		2003.. 11 069	558 053	439 289	118 764	1
		2002.. 10 020	505 347	399 902	105 445	X
332995	Other ordnance and accessories manufacturing	2004.. 4 584	351 199	280 256	70 943	1
		2003.. 4 440	334 216	268 242	65 974	2
		2002.. 5 271	361 894	296 436	65 458	X
332996	Fabricated pipe and pipe fitting manufacturing	2004.. 23 935	1 054 348	859 460	194 888	3
		2003.. 23 926	1 031 801	837 237	194 564	3
		2002.. 26 499	1 082 142	894 198	187 944	X
33299N	Other fabricated metal products manufacturing	2004.. 82 212	3 881 378	3 126 390	754 988	2
		2003.. 84 930	3 915 532	3 150 040	765 492	1
		2002.. 89 353	3 988 041	3 214 482	773 559	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—	
			Total	Payroll	Total fringe benefits		
			A	B	C		D
333	Machinery manufacturing	2004..	1 053 956	61 117 266	48 224 627	12 892 639	1
		2003..	1 097 572	61 077 822	48 158 439	12 919 383	1
		2002..	1 166 699	62 093 280	49 510 764	12 582 516	X
3331	Agriculture, construction, and mining machinery manufacturing	2004..	167 183	9 576 980	7 265 180	2 311 800	1
		2003..	168 911	9 277 814	6 974 502	2 303 312	1
		2002..	170 123	9 172 338	7 037 280	2 135 058	X
33311	Agricultural implement manufacturing	2004..	74 103	3 921 509	2 925 771	995 738	1
		2003..	76 449	3 804 511	2 816 431	988 080	1
		2002..	75 500	3 696 422	2 799 965	896 457	X
333111	Farm machinery and equipment manufacturing	2004..	51 762	2 910 465	2 181 612	728 853	1
		2003..	53 862	2 854 692	2 113 031	741 662	2
		2002..	53 051	2 775 956	2 109 761	666 195	X
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing	2004..	22 341	1 011 044	744 159	266 885	1
		2003..	22 587	949 819	703 400	246 419	1
		2002..	22 449	920 466	690 204	230 262	X
33312	Construction machinery manufacturing	2004..	55 325	3 291 146	2 471 603	819 543	1
		2003..	54 050	3 212 449	2 363 050	849 399	1
		2002..	56 935	3 324 838	2 515 298	809 540	X
333120	Construction machinery manufacturing	2004..	55 325	3 291 146	2 471 603	819 543	1
		2003..	54 050	3 212 449	2 363 050	849 399	1
		2002..	56 935	3 324 838	2 515 298	809 540	X
33313	Mining and oil and gas field machinery manufacturing	2004..	37 755	2 364 325	1 867 805	496 520	3
		2003..	38 412	2 260 853	1 795 020	465 833	3
		2002..	37 688	2 151 078	1 722 017	429 061	X
33313M	Mining and oil and gas field machinery manufacturing	2004..	37 755	2 364 325	1 867 805	496 520	3
		2003..	38 412	2 260 853	1 795 020	465 833	3
		2002..	37 688	2 151 078	1 722 017	429 061	X
3332	Industrial machinery manufacturing	2004..	132 667	8 520 534	6 991 819	1 528 715	2
		2003..	137 473	8 577 913	7 052 204	1 525 709	1
		2002..	153 894	9 012 967	7 449 145	1 563 822	X
33321	Sawmill and woodworking machinery manufacturing	2004..	6 383	332 393	277 394	54 999	5
		2003..	6 587	318 894	263 861	55 033	3
		2002..	6 806	317 600	262 382	55 218	X
333210	Sawmill and woodworking machinery manufacturing	2004..	6 383	332 393	277 394	54 999	5
		2003..	6 587	318 894	263 861	55 033	3
		2002..	6 806	317 600	262 382	55 218	X
33322	Plastics and rubber industry machinery manufacturing	2004..	14 507	880 398	707 833	172 565	5
		2003..	14 401	864 372	688 840	175 532	2
		2002..	16 530	925 059	744 981	180 078	X
333220	Plastics and rubber industry machinery manufacturing	2004..	14 507	880 398	707 833	172 565	5
		2003..	14 401	864 372	688 840	175 532	2
		2002..	16 530	925 059	744 981	180 078	X
33329	Other industrial machinery manufacturing	2004..	111 777	7 307 743	6 006 592	1 301 151	2
		2003..	116 485	7 394 647	6 099 502	1 295 144	1
		2002..	130 558	7 770 308	6 441 782	1 328 526	X
333295	Semiconductor machinery manufacturing	2004..	27 212	2 367 880	1 961 807	406 073	3
		2003..	30 723	2 431 334	2 025 510	405 824	1
		2002..	34 998	2 545 512	2 137 501	408 011	X
33329N	Other machinery manufacturing	2004..	84 565	4 939 863	4 044 785	895 078	2
		2003..	85 762	4 963 312	4 073 992	889 320	1
		2002..	95 560	5 224 796	4 304 281	920 515	X
3333	Commercial and service industry machinery manufacturing	2004..	88 274	5 010 460	3 972 168	1 038 292	1
		2003..	93 492	5 122 789	4 067 948	1 054 841	1
		2002..	100 943	5 266 741	4 227 904	1 038 837	X
33331	Commercial and service industry machinery manufacturing	2004..	88 274	5 010 460	3 972 168	1 038 292	1
		2003..	93 492	5 122 789	4 067 948	1 054 841	1
		2002..	100 943	5 266 741	4 227 904	1 038 837	X
333313	Office machinery manufacturing	2004..	7 054	422 247	350 491	71 757	2
		2003..	7 049	400 572	332 805	67 768	2
		2002..	10 118	546 876	449 184	97 692	X
333314	Optical instrument and lens manufacturing	2004..	16 358	1 099 338	873 518	225 819	2
		2003..	17 918	1 106 324	900 445	205 880	3
		2002..	17 395	1 039 226	852 704	186 522	X
333315	Photographic and photocopying equipment manufacturing	2004..	6 917	356 710	291 843	64 868	12
		2003..	7 724	427 687	332 625	95 062	3
		2002..	8 873	469 505	367 579	101 926	X
33331N	All other commercial and service industry machinery manufacturing	2004..	57 946	3 132 164	2 456 316	675 848	1
		2003..	60 801	3 188 206	2 502 074	686 132	2
		2002..	64 557	3 211 134	2 558 437	652 697	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
333	Machinery manufacturing—Con.					
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2004.. 145 037	6 937 860	5 342 835	1 595 025	1
		2003.. 150 971	5 425 230	5 425 388	1 607 842	1
		2002.. 157 811	7 053 655	5 500 279	1 553 376	X
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2004.. 145 037	6 937 860	5 342 835	1 595 025	1
		2003.. 150 971	7 033 230	5 425 388	1 607 842	1
		2002.. 157 811	7 053 655	5 500 279	1 553 376	X
333414	Heating equipment (except warm air furnaces) manufacturing	2004.. 20 536	976 286	774 624	201 662	2
		2003.. 20 291	941 829	745 618	196 211	2
		2002.. 22 265	959 634	763 148	196 486	X
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing	2004.. 99 669	4 897 586	3 707 969	1 189 617	1
		2003.. 104 646	4 974 753	3 775 799	1 198 955	1
		2002.. 108 252	4 954 367	3 815 129	1 139 238	X
33341N	Ventilation equipment manufacturing	2004.. 24 832	1 063 988	860 242	203 747	2
		2003.. 26 033	1 116 648	903 971	212 677	3
		2002.. 27 294	1 139 654	922 002	217 652	X
3335	Metalworking machinery manufacturing	2004.. 166 856	9 600 080	8 003 183	1 596 897	1
		2003.. 172 453	9 514 436	7 900 005	1 614 430	1
		2002.. 190 335	9 973 587	8 331 386	1 642 201	X
33351	Metalworking machinery manufacturing	2004.. 166 856	9 600 080	8 003 183	1 596 897	1
		2003.. 172 453	9 514 436	7 900 005	1 614 430	1
		2002.. 190 335	9 973 587	8 331 386	1 642 201	X
333511	Industrial mold manufacturing	2004.. 41 141	2 261 086	1 890 686	370 400	1
		2003.. 41 392	2 251 801	1 888 524	363 277	2
		2002.. 45 864	2 373 781	2 004 741	369 040	X
333512	Machine tool (metal cutting types) manufacturing	2004.. 16 058	1 028 144	862 852	165 293	3
		2003.. 16 267	978 286	821 641	156 645	2
		2002.. 18 129	1 027 709	863 280	164 429	X
333513	Machine tool (metal forming types) manufacturing	2004.. 7 084	453 191	368 446	84 744	3
		2003.. 7 649	455 897	368 707	87 189	2
		2002.. 7 578	436 296	355 905	80 391	X
333514	Special die and tool, die set, jig, and fixture manufacturing	2004.. 53 516	3 085 458	2 610 969	474 489	1
		2003.. 54 878	3 051 084	2 563 092	487 992	2
		2002.. 60 697	3 133 763	2 653 233	480 530	X
333515	Cutting tool and machine tool accessory manufacturing	2004.. 33 934	1 792 660	1 447 801	344 859	2
		2003.. 36 400	1 810 752	1 455 502	355 249	2
		2002.. 39 704	1 912 423	1 544 034	368 389	X
333516	Rolling mill machinery and equipment manufacturing	2004.. 2 423	155 706	127 557	28 149	2
		2003.. 2 477	151 150	123 572	27 578	4
		2002.. 2 673	165 361	136 635	28 726	X
333518	Other metalworking machinery manufacturing	2004.. 12 700	823 834	694 872	128 963	6
		2003.. 13 390	815 467	678 966	136 501	1
		2002.. 15 690	924 254	773 558	150 696	X
3336	Engine, turbine, and power transmission equipment manufacturing	2004.. 85 603	5 774 174	4 263 899	1 510 274	1
		2003.. 88 608	5 734 387	4 236 499	1 497 888	1
		2002.. 97 397	5 859 297	4 367 295	1 492 002	X
33361	Engine, turbine, and power transmission equipment manufacturing	2004.. 85 603	5 774 174	4 263 899	1 510 274	1
		2003.. 88 608	5 734 387	4 236 499	1 497 888	1
		2002.. 97 397	5 859 297	4 367 295	1 492 002	X
333611	Turbine and turbine generator set unit manufacturing	2004.. 15 159	1 105 349	860 462	244 887	1
		2003.. 16 029	1 189 415	924 540	264 874	2
		2002.. 19 486	1 306 128	1 004 848	301 280	X
333612	Speed changer, industrial high-speed drive, and gear manufacturing	2004.. 11 350	642 093	493 612	148 481	2
		2003.. 12 356	686 576	522 927	163 649	2
		2002.. 13 237	704 943	547 444	157 499	X
333613	Mechanical power transmission equipment manufacturing	2004.. 15 264	890 120	684 219	205 900	1
		2003.. 15 603	851 763	649 667	202 096	2
		2002.. 16 752	884 317	674 527	209 790	X
333618	Other engine equipment manufacturing	2004.. 43 829	3 136 612	2 225 606	911 005	1
		2003.. 44 620	3 006 634	2 139 364	867 269	1
		2002.. 47 922	2 963 909	2 140 476	823 433	X
3339	Other general purpose machinery manufacturing	2004.. 268 335	15 697 178	12 385 543	3 311 635	1
		2003.. 285 665	15 817 254	12 501 894	3 315 360	2
		2002.. 296 196	15 754 695	12 597 475	3 157 220	X
33391	Pump and compressor manufacturing	2004.. 53 297	3 310 041	2 556 465	753 576	1
		2003.. 58 517	3 323 638	2 567 169	756 470	7
		2002.. 55 913	3 124 455	2 468 234	656 221	X
333911	Pump and pumping equipment manufacturing	2004.. 31 177	1 863 225	1 445 295	417 931	1
		2003.. 31 010	1 780 457	1 393 270	387 187	2
		2002.. 31 805	1 753 901	1 392 912	360 989	X
333912	Air and gas compressor manufacturing	2004.. 18 294	1 207 548	927 168	280 381	2
		2003.. 23 495	1 301 216	989 491	311 724	16
		2002.. 20 060	1 149 448	898 632	250 816	X

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			Total	Payroll	Total fringe benefits	
			A	B	C	
333	Machinery manufacturing—Con.					
3339	Other general purpose machinery manufacturing—Con.					
33391	Pump and compressor manufacturing—Con.					
333913	Measuring and dispensing pump manufacturing	2004.. 3 826	239 267	184 003	55 265	1
		2003.. 4 012	241 966	184 407	57 559	1
		2002.. 4 048	221 106	176 690	44 416	X
33392	Material handling equipment manufacturing	2004.. 73 867	4 088 610	3 271 687	816 922	2
		2003.. 76 905	4 117 513	3 290 900	826 612	1
		2002.. 82 148	4 156 847	3 333 596	823 251	X
33392M	Material handling equipment manufacturing	2004.. 73 867	4 088 610	3 271 687	816 922	2
		2003.. 76 905	4 117 513	3 290 900	826 612	1
		2002.. 82 148	4 156 847	3 333 596	823 251	X
33399	All other general purpose machinery manufacturing	2004.. 141 172	8 298 527	6 557 390	1 741 137	1
		2003.. 150 242	8 376 103	6 643 825	1 732 278	1
		2002.. 158 135	8 473 393	6 795 645	1 677 748	X
333991	Power-driven hand tool manufacturing	2004.. 9 618	524 439	402 680	121 759	3
		2003.. 11 475	581 959	445 997	135 962	1
		2002.. 11 675	553 822	425 521	128 301	X
333993	Packaging machinery manufacturing	2004.. 21 717	1 339 203	1 087 699	251 505	2
		2003.. 23 976	1 389 419	1 138 336	251 083	4
		2002.. 24 753	1 420 812	1 169 062	251 750	X
333994	Industrial process furnace and oven manufacturing	2004.. 9 667	539 454	441 003	98 451	3
		2003.. 10 710	570 113	466 050	104 063	3
		2002.. 11 514	578 892	475 032	103 860	X
33399N	Fluid power equipment manufacturing	2004.. 30 416	1 847 175	1 394 679	452 496	2
		2003.. 32 244	1 858 464	1 403 775	454 689	1
		2002.. 32 188	1 785 806	1 374 352	411 454	X
33399P	All other miscellaneous general purpose machinery manufacturing	2004.. 69 754	4 048 256	3 231 329	816 926	2
		2003.. 71 837	3 976 148	3 189 668	786 480	1
		2002.. 78 005	4 134 061	3 351 678	782 383	X
334	Computer and electronic product manufacturing	2004.. 1 060 813	75 878 117	61 151 529	14 726 588	1
		2003.. 1 145 372	78 645 721	63 520 438	15 125 283	1
		2002.. 1 259 612	79 585 417	64 403 889	15 181 528	X
3341	Computer and peripheral equipment manufacturing	2004.. 118 450	8 834 836	7 383 272	1 451 564	1
		2003.. 142 943	11 147 103	9 423 951	1 723 152	1
		2002.. 150 907	9 904 862	8 273 134	1 631 728	X
33411	Computer and peripheral equipment manufacturing	2004.. 118 450	8 834 836	7 383 272	1 451 564	1
		2003.. 142 943	11 147 103	9 423 951	1 723 152	1
		2002.. 150 907	9 904 862	8 273 134	1 631 728	X
334111	Electronic computer manufacturing	2004.. 53 650	3 985 003	3 391 289	593 714	1
		2003.. 66 220	5 606 733	4 870 203	736 530	1
		2002.. 62 227	3 868 809	3 270 196	598 613	X
334112	Computer storage device manufacturing	2004.. 15 319	1 139 798	915 018	224 779	2
		2003.. 19 981	1 640 639	1 319 603	321 035	1
		2002.. 26 396	1 932 838	1 593 139	339 699	X
334113	Computer terminal manufacturing	2004.. 1 568	88 729	75 974	12 755	3
		2003.. 2 017	111 578	93 904	17 674	1
		2002.. 2 109	100 286	84 420	15 866	X
334119	Other computer peripheral equipment manufacturing	2004.. 47 913	3 621 307	3 000 992	620 315	3
		2003.. 54 725	3 788 153	3 140 240	647 913	2
		2002.. 60 175	4 002 929	3 325 379	677 550	X
3342	Communications equipment manufacturing	2004.. 143 097	10 463 071	8 417 436	2 045 635	2
		2003.. 161 587	11 575 687	9 274 500	2 301 187	2
		2002.. 191 337	12 808 722	10 337 587	2 471 135	X
33421	Telephone apparatus manufacturing	2004.. 39 701	2 715 194	2 283 887	431 307	6
		2003.. 45 833	3 565 732	2 944 910	620 822	3
		2002.. 64 576	4 525 461	3 751 265	774 196	X
334210	Telephone apparatus manufacturing	2004.. 39 701	2 715 194	2 283 887	431 307	6
		2003.. 45 833	3 565 732	2 944 910	620 822	3
		2002.. 64 576	4 525 461	3 751 265	774 196	X
33422	Radio and television broadcasting and wireless communications equipment manufacturing	2004.. 84 595	6 641 353	5 229 830	1 411 523	3
		2003.. 93 469	6 771 403	5 326 135	1 445 268	3
		2002.. 101 078	6 840 901	5 432 571	1 408 330	X
334220	Radio and television broadcasting and wireless communications equipment manufacturing	2004.. 84 595	6 641 353	5 229 830	1 411 523	3
		2003.. 93 469	6 771 403	5 326 135	1 445 268	3
		2002.. 101 078	6 840 901	5 432 571	1 408 330	X
33429	Other communications equipment manufacturing	2004.. 18 801	1 106 524	903 719	202 804	2
		2003.. 22 285	1 238 553	1 003 455	235 098	1
		2002.. 25 683	1 442 360	1 153 751	288 609	X
334290	Other communications equipment manufacturing	2004.. 18 801	1 106 524	903 719	202 804	2
		2003.. 22 285	1 238 553	1 003 455	235 098	1
		2002.. 25 683	1 442 360	1 153 751	288 609	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
334	Computer and electronic product manufacturing—Con.					
3343	Audio and video equipment manufacturing	2004.. 21 059	1 116 613	911 054	205 559	3
		2003.. 23 851	1 152 535	936 594	215 941	1
		2002.. 25 258	1 175 293	955 561	219 732	X
33431	Audio and video equipment manufacturing	2004.. 21 059	1 116 613	911 054	205 559	3
		2003.. 23 851	1 152 535	936 594	215 941	1
		2002.. 25 258	1 175 293	955 561	219 732	X
334310	Audio and video equipment manufacturing	2004.. 21 059	1 116 613	911 054	205 559	3
		2003.. 23 851	1 152 535	936 594	215 941	1
		2002.. 25 258	1 175 293	955 561	219 732	X
3344	Semiconductor and other electronic component manufacturing	2004.. 354 752	21 863 380	17 815 119	4 048 261	1
		2003.. 387 248	22 792 422	18 496 521	4 295 900	1
		2002.. 438 210	24 448 363	19 898 761	4 549 602	X
33441	Semiconductor and other electronic component manufacturing	2004.. 354 752	21 863 380	17 815 119	4 048 261	1
		2003.. 387 248	22 792 422	18 496 521	4 295 900	1
		2002.. 438 210	24 448 363	19 898 761	4 549 602	X
334411	Electron tube manufacturing	2004.. 6 382	371 561	287 293	84 268	4
		2003.. 9 155	509 153	381 211	127 941	1
		2002.. 11 332	638 686	479 824	158 862	X
334412	Bare printed circuit board manufacturing	2004.. 37 605	1 741 448	1 442 527	298 921	2
		2003.. 40 134	1 730 647	1 440 319	290 327	3
		2002.. 47 067	2 022 045	1 665 534	356 511	X
334413	Semiconductor and related device manufacturing	2004.. 136 266	10 765 537	8 738 831	2 026 706	2
		2003.. 149 810	11 290 872	9 094 480	2 196 392	1
		2002.. 169 520	12 077 785	9 811 316	2 266 469	X
334414	Electronic capacitor manufacturing	2004.. 8 069	391 313	305 482	85 831	3
		2003.. 9 016	408 780	322 991	85 789	4
		2002.. 10 937	483 961	383 510	100 451	X
334415	Electronic resistor manufacturing	2004.. 5 413	235 979	185 706	50 274	3
		2003.. 5 654	233 702	186 338	47 365	2
		2002.. 5 435	213 302	172 240	41 062	X
334416	Electronic coil, transformer, and other inductor manufacturing	2004.. 10 456	400 774	334 628	66 145	3
		2003.. 11 196	417 421	344 276	73 145	3
		2002.. 11 265	395 332	329 666	65 666	X
334417	Electronic connector manufacturing	2004.. 21 884	1 105 432	878 216	227 216	3
		2003.. 22 881	1 104 515	889 859	214 656	1
		2002.. 24 480	1 126 598	915 948	210 650	X
334418	Printed circuit assembly (electronic assembly) manufacturing	2004.. 69 427	3 844 875	3 171 176	673 699	2
		2003.. 77 616	4 116 317	3 391 532	724 785	2
		2002.. 88 341	4 294 347	3 522 350	771 997	X
334419	Other electronic component manufacturing	2004.. 59 249	3 006 460	2 471 260	535 200	2
		2003.. 61 789	2 981 016	2 445 516	535 500	1
		2002.. 69 833	3 196 307	2 618 373	577 934	X
3345	Navigational, measuring, electromedical, and control instruments manufacturing	2004.. 389 226	31 638 338	25 060 848	6 577 490	3
		2003.. 393 205	30 239 101	23 974 416	6 264 685	1
		2002.. 415 996	29 563 765	23 571 769	5 991 996	X
33451	Navigational, measuring, medical, and control instruments manufacturing	2004.. 389 226	31 638 338	25 060 848	6 577 490	3
		2003.. 393 205	30 239 101	23 974 416	6 264 685	1
		2002.. 415 996	29 563 765	23 571 769	5 991 996	X
334510	Electromedical and electrotherapeutic apparatus manufacturing	2004.. 55 012	4 249 932	3 508 261	741 671	2
		2003.. 54 955	3 929 295	3 214 300	714 995	1
		2002.. 58 354	3 789 675	3 108 203	681 472	X
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	2004.. 147 489	13 867 748	10 549 276	3 318 471	5
		2003.. 144 218	12 997 750	9 910 978	3 086 772	1
		2002.. 142 775	11 801 869	9 142 067	2 659 802	X
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use	2004.. 13 608	687 111	524 815	162 296	2
		2003.. 15 971	757 279	583 936	173 343	2
		2002.. 17 401	810 148	636 173	173 975	X
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables	2004.. 35 719	2 283 053	1 859 672	423 381	1
		2003.. 37 425	2 312 371	1 866 908	445 463	1
		2002.. 39 929	2 315 021	1 892 380	422 641	X
334514	Totalizing fluid meter and counting device manufacturing	2004.. 15 909	969 319	732 765	236 554	2
		2003.. 15 200	905 443	667 871	237 572	1
		2002.. 16 398	945 743	725 718	220 025	X
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	2004.. 46 636	3 847 611	3 197 897	649 714	2
		2003.. 46 708	3 724 060	3 134 294	589 765	1
		2002.. 56 153	4 243 038	3 415 349	827 689	X
334516	Analytical laboratory instrument manufacturing	2004.. 31 057	2 520 515	2 076 242	444 273	3
		2003.. 32 326	2 413 191	1 984 971	428 220	2
		2002.. 34 128	2 466 398	2 007 485	458 913	X
334517	Irradiation apparatus manufacturing	2004.. 13 008	1 137 264	939 251	198 013	5
		2003.. 12 816	1 088 946	903 922	185 024	1
		2002.. 13 470	978 492	825 993	152 499	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
334	Computer and electronic product manufacturing—Con.					
3345	Navigational, measuring, electromedical, and control instruments manufacturing—Con.					
33451	Navigational, measuring, medical, and control instruments manufacturing—Con.					
334518	Watch, clock, and parts manufacturing	2004.. 2 605	125 668	102 342	23 326	3
		2003.. 2 686	118 994	96 964	22 030	6
		2002.. 3 466	150 556	120 479	30 077	X
334519	Other measuring and controlling device manufacturing	2004.. 28 182	1 950 118	1 570 327	379 791	2
		2003.. 30 901	1 991 774	1 610 272	381 501	3
		2002.. 33 922	2 062 825	1 697 922	364 903	X
3346	Manufacturing and reproducing magnetic and optical media	2004.. 34 228	1 961 879	1 563 799	398 080	1
		2003.. 36 537	1 738 873	1 414 455	324 418	2
		2002.. 37 904	1 684 412	1 367 077	317 335	X
33461	Manufacturing and reproducing magnetic and optical media	2004.. 34 228	1 961 879	1 563 799	398 080	1
		2003.. 36 537	1 738 873	1 414 455	324 418	2
		2002.. 37 904	1 684 412	1 367 077	317 335	X
334611	Software reproducing	2004.. 2 639	140 090	118 331	21 759	4
		2003.. 2 822	132 863	110 054	22 809	20
		2002.. 2 783	142 096	120 737	21 359	X
334612	Prerecorded compact disc (except software), tape, and record reproducing	2004.. 22 171	1 010 834	804 661	206 173	2
		2003.. 26 616	1 114 680	909 084	205 596	2
		2002.. 28 447	1 167 236	952 295	214 941	X
334613	Magnetic and optical recording media manufacturing	2004.. 9 419	810 955	640 807	170 148	1
		2003.. 7 099	491 330	395 317	96 013	4
		2002.. 6 674	375 080	294 045	81 035	X
335	Electrical equipment, appliance, and component manufacturing	2004.. 432 227	22 398 728	17 165 563	5 233 165	1
		2003.. 447 433	22 102 985	17 016 156	5 086 829	1
		2002.. 491 030	23 106 165	18 010 390	5 095 775	X
3351	Electric lighting equipment manufacturing	2004.. 58 801	2 806 855	2 244 546	562 309	2
		2003.. 59 330	2 676 798	2 128 119	548 679	1
		2002.. 66 049	2 787 854	2 252 498	535 356	X
33511	Electric lamp bulb and parts manufacturing	2004.. 10 653	698 832	521 488	177 344	2
		2003.. 11 045	662 926	492 188	170 738	2
		2002.. 11 552	646 219	489 781	156 438	X
335110	Electric lamp bulb and parts manufacturing	2004.. 10 653	698 832	521 488	177 344	2
		2003.. 11 045	662 926	492 188	170 738	2
		2002.. 11 552	646 219	489 781	156 438	X
33512	Lighting fixture manufacturing	2004.. 48 148	2 108 023	1 723 059	384 965	2
		2003.. 48 285	2 013 872	1 635 932	377 940	2
		2002.. 54 497	2 141 635	1 762 717	378 918	X
33512M	Lighting fixture manufacturing	2004.. 48 148	2 108 023	1 723 059	384 965	2
		2003.. 48 285	2 013 872	1 635 932	377 940	2
		2002.. 54 497	2 141 635	1 762 717	378 918	X
3352	Household appliance manufacturing	2004.. 82 583	4 059 347	2 855 399	1 203 948	1
		2003.. 85 345	4 016 279	2 885 135	1 131 144	1
		2002.. 88 794	4 068 257	2 993 447	1 074 810	X
33521	Small electrical appliance manufacturing	2004.. 14 913	693 152	509 143	184 009	1
		2003.. 16 752	741 026	556 821	184 205	1
		2002.. 18 781	820 279	606 186	214 093	X
33521M	Small electrical appliance manufacturing	2004.. 14 913	693 152	509 143	184 009	1
		2003.. 16 752	741 026	556 821	184 205	1
		2002.. 18 781	820 279	606 186	214 093	X
33522	Major appliance manufacturing	2004.. 67 670	3 366 195	2 346 256	1 019 939	1
		2003.. 68 593	3 275 253	2 328 314	946 939	1
		2002.. 70 013	3 247 978	2 387 261	860 717	X
335221	Household cooking appliance manufacturing	2004.. 16 700	683 928	506 770	177 158	1
		2003.. 17 275	666 269	491 283	174 986	1
		2002.. 17 977	655 392	498 003	157 389	X
335222	Household refrigerator and home freezer manufacturing	2004.. 23 362	1 186 666	812 871	373 795	1
		2003.. 22 989	1 164 216	797 316	366 900	1
		2002.. 23 487	1 147 756	814 868	332 888	X
335224	Household laundry equipment manufacturing	2004.. 15 140	827 682	552 929	274 753	1
		2003.. 15 510	807 907	572 109	235 798	1
		2002.. 15 878	830 380	617 313	213 067	X
335228	Other major household appliance manufacturing	2004.. 12 468	667 919	473 686	194 233	1
		2003.. 12 819	636 861	467 606	169 255	4
		2002.. 12 671	614 450	457 077	157 373	X
3353	Electrical equipment manufacturing	2004.. 142 692	7 469 598	5 818 206	1 651 392	1
		2003.. 146 969	7 428 923	5 795 934	1 632 988	1
		2002.. 161 646	7 835 266	6 168 286	1 666 980	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
335	Electrical equipment, appliance, and component manufacturing—Con.					
3353	Electrical equipment manufacturing—Con.					
33531	Electrical equipment manufacturing	2004.. 142 692	7 469 598	5 818 206	1 651 392	1
		2003.. 146 969	7 428 923	5 795 934	1 632 988	1
		2002.. 161 646	7 835 266	6 168 286	1 666 980	X
335311	Power, distribution, and specialty transformer manufacturing	2004.. 18 958	969 473	748 483	220 990	2
		2003.. 20 506	965 920	754 603	211 317	1
		2002.. 21 618	1 032 640	812 940	219 700	X
335312	Motor and generator manufacturing	2004.. 47 602	2 214 958	1 714 780	500 178	2
		2003.. 49 201	2 224 373	1 726 713	497 660	1
		2002.. 54 698	2 333 501	1 827 367	506 134	X
335313	Switchgear and switchboard apparatus manufacturing	2004.. 33 787	1 930 138	1 472 960	457 179	2
		2003.. 34 877	1 947 682	1 474 734	472 948	1
		2002.. 38 202	1 974 474	1 518 716	455 758	X
335314	Relay and industrial control manufacturing	2004.. 42 345	2 355 029	1 881 983	473 046	2
		2003.. 42 386	2 290 947	1 839 885	451 063	2
		2002.. 47 128	2 494 651	2 009 263	485 388	X
3359	Other electrical equipment and component manufacturing	2004.. 148 152	8 062 927	6 247 411	1 815 516	1
		2003.. 155 789	7 980 985	6 206 967	1 774 018	1
		2002.. 174 541	8 414 788	6 596 159	1 818 629	X
33591	Battery manufacturing	2004.. 24 692	1 360 396	1 010 583	349 813	1
		2003.. 25 252	1 324 621	979 769	344 851	1
		2002.. 26 310	1 309 920	979 629	330 291	X
335911	Storage battery manufacturing	2004.. 16 828	910 366	672 374	237 993	1
		2003.. 16 625	873 119	649 643	223 475	1
		2002.. 17 781	889 937	667 059	222 878	X
335912	Primary battery manufacturing	2004.. 7 865	450 030	338 210	111 820	3
		2003.. 8 627	451 502	330 126	121 376	1
		2002.. 8 529	419 983	312 570	107 413	X
33592	Communication and energy wire and cable manufacturing	2004.. 35 255	1 888 190	1 437 006	451 185	1
		2003.. 38 378	1 969 820	1 515 143	454 676	3
		2002.. 45 933	2 212 409	1 704 265	508 144	X
33592M	Communication and energy wire and cable manufacturing	2004.. 35 255	1 888 190	1 437 006	451 185	1
		2003.. 38 378	1 969 820	1 515 143	454 676	3
		2002.. 45 933	2 212 409	1 704 265	508 144	X
33593	Wiring device manufacturing	2004.. 46 082	2 358 634	1 836 900	521 734	1
		2003.. 49 080	2 354 861	1 849 547	505 314	1
		2002.. 52 910	2 468 734	1 942 685	526 049	X
33593M	Wiring device manufacturing	2004.. 46 082	2 358 634	1 836 900	521 734	1
		2003.. 49 080	2 354 861	1 849 547	505 314	1
		2002.. 52 910	2 468 734	1 942 685	526 049	X
33599	All other electrical equipment and component manufacturing	2004.. 42 123	2 455 706	1 962 922	492 784	1
		2003.. 43 078	2 331 683	1 862 507	469 176	3
		2002.. 49 388	2 423 725	1 969 580	454 145	X
335991	Carbon and graphite product manufacturing	2004.. 7 643	461 738	346 213	115 525	1
		2003.. 7 911	433 064	327 633	105 431	1
		2002.. 8 583	448 247	346 498	101 749	X
335999	All other miscellaneous electrical equipment and component manufacturing	2004.. 34 479	1 993 968	1 616 709	377 259	1
		2003.. 35 167	1 898 620	1 534 874	363 746	4
		2002.. 40 805	1 975 478	1 623 082	352 396	X
336	Transportation equipment manufacturing	2004.. 1 585 183	113 100 606	83 848 089	29 252 517	1
		2003.. 1 598 186	110 878 324	82 313 749	28 564 576	1
		2002.. 1 665 165	108 945 352	81 768 442	27 176 910	X
3361	Motor vehicle manufacturing	2004.. 215 974	20 869 907	14 905 899	5 964 007	1
		2003.. 210 551	19 855 966	14 315 641	5 540 325	1
		2002.. 219 427	19 363 569	13 929 628	5 433 941	X
33611	Automobile and light duty motor vehicle manufacturing	2004.. 186 912	18 956 301	13 589 083	5 367 218	1
		2003.. 184 698	18 245 989	13 216 135	5 029 854	1
		2002.. 190 022	17 604 824	12 722 963	4 881 861	X
336111	Automobile manufacturing	2004.. 74 305	7 445 886	5 305 346	2 140 540	1
		2003.. 76 031	7 277 739	5 224 123	2 053 616	1
		2002.. 80 537	7 181 912	5 126 774	2 055 138	X
336112	Light truck and utility vehicle manufacturing	2004.. 112 607	11 510 415	8 283 737	3 226 678	1
		2003.. 108 667	10 968 250	7 992 012	2 976 238	1
		2002.. 109 485	10 422 912	7 596 189	2 826 723	X
33612	Heavy duty truck manufacturing	2004.. 29 062	1 913 606	1 316 816	596 789	1
		2003.. 25 853	1 609 977	1 099 506	510 471	1
		2002.. 29 405	1 758 745	1 206 665	552 080	X
336120	Heavy duty truck manufacturing	2004.. 29 062	1 913 606	1 316 816	596 789	1
		2003.. 25 853	1 609 977	1 099 506	510 471	1
		2002.. 29 405	1 758 745	1 206 665	552 080	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
336	Transportation equipment manufacturing—Con.					
3362	Motor vehicle body and trailer manufacturing	2004.. 136 694	5 783 118	4 795 818	987 300	1
		2003.. 128 088	5 284 209	4 343 787	940 421	1
		2002.. 127 255	5 071 635	4 197 176	874 459	X
33621	Motor vehicle body and trailer manufacturing	2004.. 136 694	5 783 118	4 795 818	987 300	1
		2003.. 128 088	5 284 209	4 343 787	940 421	1
		2002.. 127 255	5 071 635	4 197 176	874 459	X
336211	Motor vehicle body manufacturing	2004.. 39 052	1 808 656	1 459 867	348 789	2
		2003.. 40 710	1 800 169	1 450 470	349 698	1
		2002.. 41 266	1 766 713	1 420 947	345 766	X
336212	Truck trailer manufacturing	2004.. 27 133	1 084 289	875 022	209 267	1
		2003.. 24 191	978 579	784 989	193 591	2
		2002.. 23 732	891 432	728 490	162 942	X
336213	Motor home manufacturing	2004.. 22 557	991 654	828 269	163 385	3
		2003.. 21 775	917 023	757 968	159 055	1
		2002.. 20 776	863 317	726 182	137 135	X
336214	Travel trailer and camper manufacturing	2004.. 47 952	1 898 520	1 632 660	265 859	1
		2003.. 41 412	1 588 437	1 350 360	238 077	2
		2002.. 41 481	1 550 173	1 321 557	228 616	X
3363	Motor vehicle parts manufacturing	2004.. 644 045	43 328 215	31 421 553	11 906 662	1
		2003.. 671 817	43 468 207	31 724 962	11 743 245	1
		2002.. 721 469	43 330 092	32 125 818	11 204 274	X
33631	Motor vehicle gasoline engine and engine parts manufacturing	2004.. 81 082	6 132 948	4 500 728	1 632 220	2
		2003.. 87 729	6 496 539	4 770 707	1 725 832	1
		2002.. 94 092	6 448 644	4 773 138	1 675 506	X
33631M	Motor vehicle gasoline engine and engine parts manufacturing	2004.. 81 082	6 132 948	4 500 728	1 632 220	2
		2003.. 87 729	6 496 539	4 770 707	1 725 832	1
		2002.. 94 092	6 448 644	4 773 138	1 675 506	X
33632	Motor vehicle electrical and electronic equipment manufacturing	2004.. 77 496	4 690 346	3 320 235	1 370 111	1
		2003.. 90 766	5 384 212	3 876 424	1 507 788	1
		2002.. 97 111	5 469 902	4 030 825	1 439 077	X
33632M	Motor vehicle electrical and electronic equipment manufacturing	2004.. 77 496	4 690 346	3 320 235	1 370 111	1
		2003.. 90 766	5 384 212	3 876 424	1 507 788	1
		2002.. 97 111	5 469 902	4 030 825	1 439 077	X
33633	Motor vehicle steering and suspension component (except spring) manufacturing	2004.. 38 856	2 800 242	1 918 091	882 151	2
		2003.. 39 696	2 839 280	1 917 837	921 444	2
		2002.. 41 783	2 823 620	2 045 377	778 243	X
336330	Motor vehicle steering and suspension component (except spring) manufacturing	2004.. 38 856	2 800 242	1 918 091	882 151	2
		2003.. 39 696	2 839 280	1 917 837	921 444	2
		2002.. 41 783	2 823 620	2 045 377	778 243	X
33634	Motor vehicle brake system manufacturing	2004.. 39 727	2 192 773	1 587 416	605 357	2
		2003.. 41 097	2 181 816	1 599 864	581 951	1
		2002.. 42 356	2 235 418	1 660 877	574 541	X
336340	Motor vehicle brake system manufacturing	2004.. 39 727	2 192 773	1 587 416	605 357	2
		2003.. 41 097	2 181 816	1 599 864	581 951	1
		2002.. 42 356	2 235 418	1 660 877	574 541	X
33635	Motor vehicle transmission and power train parts manufacturing	2004.. 89 183	8 161 593	5 863 829	2 297 764	1
		2003.. 91 087	7 582 276	5 493 878	2 088 398	2
		2002.. 101 917	7 777 794	5 700 823	2 076 971	X
336350	Motor vehicle transmission and power train parts manufacturing	2004.. 89 183	8 161 593	5 863 829	2 297 764	1
		2003.. 91 087	7 582 276	5 493 878	2 088 398	2
		2002.. 101 917	7 777 794	5 700 823	2 076 971	X
33636	Motor vehicle seating and interior trim manufacturing	2004.. 49 968	2 765 288	2 028 652	736 636	1
		2003.. 53 032	2 824 562	2 088 261	736 301	1
		2002.. 53 779	2 667 837	1 998 707	669 130	X
336360	Motor vehicle seating and interior trim manufacturing	2004.. 49 968	2 765 288	2 028 652	736 636	1
		2003.. 53 032	2 824 562	2 088 261	736 301	1
		2002.. 53 779	2 667 837	1 998 707	669 130	X
33637	Motor vehicle metal stamping	2004.. 107 521	7 972 848	5 930 491	2 042 357	1
		2003.. 108 926	7 834 833	5 897 961	1 936 871	2
		2002.. 126 040	7 616 543	5 802 725	1 813 818	X
336370	Motor vehicle metal stamping	2004.. 107 521	7 972 848	5 930 491	2 042 357	1
		2003.. 108 926	7 834 833	5 897 961	1 936 871	2
		2002.. 126 040	7 616 543	5 802 725	1 813 818	X
33639	Other motor vehicle parts manufacturing	2004.. 160 212	8 612 178	6 272 112	2 340 066	1
		2003.. 159 484	8 324 690	6 080 030	2 244 660	1
		2002.. 164 391	8 290 334	6 113 346	2 176 988	X
336391	Motor vehicle air-conditioning manufacturing	2004.. 19 423	1 433 676	954 452	479 223	1
		2003.. 19 229	1 407 774	947 419	460 354	1
		2002.. 18 870	1 398 945	932 344	466 601	X
336399	All other miscellaneous motor vehicle parts manufacturing	2004.. 140 789	7 178 502	5 317 659	1 860 843	1
		2003.. 140 255	6 916 917	5 132 611	1 784 306	1
		2002.. 145 521	6 891 389	5 181 002	1 710 387	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
336	Transportation equipment manufacturing—Con.					
3364	Aerospace product and parts manufacturing	2004.. 384 605	32 422 208	24 550 129	7 872 079	1
		2003.. 388 598	31 875 573	23 953 429	7 922 143	1
		2002.. 394 627	31 063 561	23 687 110	7 376 451	X
33641	Aerospace product and parts manufacturing	2004.. 384 605	32 422 208	24 550 129	7 872 079	1
		2003.. 388 598	31 875 573	23 953 429	7 922 143	1
		2002.. 394 627	31 063 561	23 687 110	7 376 451	X
336411	Aircraft manufacturing	2004.. 162 810	13 152 163	10 191 161	2 961 002	1
		2003.. 162 807	13 138 144	10 059 873	3 078 271	1
		2002.. 164 963	13 122 361	9 992 081	3 130 280	X
336412	Aircraft engine and engine parts manufacturing	2004.. 66 434	5 360 027	4 077 677	1 282 349	1
		2003.. 64 981	5 197 084	3 926 635	1 270 449	1
		2002.. 71 834	5 398 147	4 117 520	1 280 627	X
336413	Other aircraft parts and auxiliary equipment manufacturing	2004.. 88 965	7 145 478	5 255 054	1 890 424	1
		2003.. 95 215	7 204 026	5 269 410	1 934 617	1
		2002.. 98 430	7 063 557	5 337 642	1 725 915	X
336414	Guided missile and space vehicle manufacturing	2004.. 46 822	4 970 964	3 644 394	1 326 570	1
		2003.. 46 005	4 683 562	3 409 271	1 274 291	1
		2002.. 38 661	3 783 090	2 935 471	847 619	X
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing	2004.. 13 497	1 316 050	1 026 401	289 648	1
		2003.. 13 843	1 255 974	979 602	276 372	1
		2002.. 14 512	1 280 651	983 405	297 246	X
336419	Other guided missile and space vehicle parts and auxiliary equipment manufacturing	2004.. 6 077	477 527	355 441	122 086	1
		2003.. 5 747	396 783	308 639	88 144	1
		2002.. 6 227	415 755	320 991	94 764	X
3365	Railroad rolling stock manufacturing	2004.. 24 077	1 488 631	1 123 054	365 577	1
		2003.. 24 530	1 523 600	1 156 084	367 516	1
		2002.. 25 541	1 581 220	1 204 438	376 782	X
33651	Railroad rolling stock manufacturing	2004.. 24 077	1 488 631	1 123 054	365 577	1
		2003.. 24 530	1 523 600	1 156 084	367 516	1
		2002.. 25 541	1 581 220	1 204 438	376 782	X
336510	Railroad rolling stock manufacturing	2004.. 24 077	1 488 631	1 123 054	365 577	1
		2003.. 24 530	1 523 600	1 156 084	367 516	1
		2002.. 25 541	1 581 220	1 204 438	376 782	X
3366	Ship and boat building	2004.. 142 208	7 136 835	5 506 343	1 630 492	1
		2003.. 135 174	6 760 856	5 224 821	1 536 035	1
		2002.. 137 079	6 534 662	5 085 079	1 449 583	X
33661	Ship and boat building	2004.. 142 208	7 136 835	5 506 343	1 630 492	1
		2003.. 135 174	6 760 856	5 224 821	1 536 035	1
		2002.. 137 079	6 534 662	5 085 079	1 449 583	X
336611	Ship building and repairing	2004.. 87 111	4 997 687	3 772 590	1 225 097	1
		2003.. 86 155	4 863 030	3 692 026	1 171 004	1
		2002.. 87 152	4 726 543	3 611 324	1 115 219	X
336612	Boat building	2004.. 55 096	2 139 148	1 733 753	405 395	1
		2003.. 49 019	1 897 826	1 532 796	365 030	2
		2002.. 49 927	1 808 119	1 473 755	334 364	X
3369	Other transportation equipment manufacturing	2004.. 37 581	2 071 692	1 545 292	526 400	1
		2003.. 39 429	2 109 915	1 595 024	514 891	2
		2002.. 39 767	2 000 613	1 539 193	461 420	X
33699	Other transportation equipment manufacturing	2004.. 37 581	2 071 692	1 545 292	526 400	1
		2003.. 39 429	2 109 915	1 595 024	514 891	2
		2002.. 39 767	2 000 613	1 539 193	461 420	X
336991	Motorcycle, bicycle, and parts manufacturing	2004.. 14 167	881 484	626 290	255 194	2
		2003.. 15 443	921 163	666 928	254 235	3
		2002.. 15 348	871 715	641 936	229 779	X
336992	Military armored vehicle, tank, and tank component manufacturing	2004.. 4 182	323 282	253 845	69 437	1
		2003.. 4 177	317 600	247 699	69 901	1
		2002.. 4 521	307 288	245 167	62 121	X
336999	All other transportation equipment manufacturing	2004.. 19 232	866 926	665 158	201 768	2
		2003.. 19 808	871 152	680 397	190 754	4
		2002.. 19 898	821 610	652 090	169 520	X
337	Furniture and related product manufacturing	2004.. 560 584	21 389 242	17 498 882	3 890 360	1
		2003.. 557 440	20 659 048	16 845 350	3 813 698	1
		2002.. 596 135	21 176 545	17 421 657	3 754 888	X
3371	Household and institutional furniture and kitchen cabinet manufacturing	2004.. 367 582	12 932 112	10 653 128	2 278 984	1
		2003.. 358 296	12 277 504	10 084 972	2 192 532	1
		2002.. 386 986	12 660 116	10 501 183	2 158 933	X
33711	Wood kitchen cabinet and counter top manufacturing	2004.. 136 790	5 054 502	4 198 422	856 080	1
		2003.. 127 981	4 530 918	3 773 362	757 556	1
		2002.. 126 262	4 315 573	3 621 359	694 214	X
337110	Wood kitchen cabinet and counter top manufacturing	2004.. 136 790	5 054 502	4 198 422	856 080	1
		2003.. 127 981	4 530 918	3 773 362	757 556	1
		2002.. 126 262	4 315 573	3 621 359	694 214	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
337	Furniture and related product manufacturing—Con.					
3371	Household and institutional furniture and kitchen cabinet manufacturing—Con.					
33712	Household and institutional furniture manufacturing	230 791	7 877 610	6 454 707	1 422 904	1
	2003..	230 315	7 746 586	6 311 611	1 434 975	1
	2002..	260 724	8 344 543	6 879 824	1 464 719	X
337121	Upholstered household furniture manufacturing	83 661	2 741 517	2 254 386	487 131	1
	2003..	83 931	2 797 214	2 285 176	512 038	2
	2002..	90 957	2 904 988	2 414 744	490 244	X
337122	Nonupholstered wood household furniture manufacturing	95 337	3 095 169	2 514 839	580 329	1
	2003..	94 337	3 023 315	2 446 719	576 596	1
	2002..	111 393	3 356 715	2 737 405	619 310	X
337127	Institutional furniture manufacturing	31 237	1 322 677	1 097 630	225 047	4
	2003..	30 115	1 177 762	972 113	205 649	4
	2002..	33 844	1 279 035	1 064 894	214 141	X
33712N	Other household nonupholstered furniture	20 557	718 247	587 851	130 396	4
	2003..	21 932	748 295	607 602	140 693	2
	2002..	24 530	803 805	662 781	141 024	X
3372	Office furniture (including fixtures) manufacturing	148 349	6 650 086	5 404 674	1 245 412	1
	2003..	156 065	6 707 684	5 423 050	1 284 634	1
	2002..	164 062	6 835 491	5 558 234	1 277 257	X
33721	Office furniture (including fixtures) manufacturing	148 349	6 650 086	5 404 674	1 245 412	1
	2003..	156 065	6 707 684	5 423 050	1 284 634	1
	2002..	164 062	6 835 491	5 558 234	1 277 257	X
337212	Custom architectural woodwork and millwork manufacturing	33 141	1 526 317	1 290 894	235 423	4
	2003..	33 384	1 474 516	1 235 496	239 020	2
	2002..	35 204	1 517 979	1 287 187	230 792	X
337215	Showcase, partition, shelving, and locker manufacturing	59 818	2 458 472	2 033 809	424 663	3
	2003..	64 119	2 536 131	2 115 058	421 073	2
	2002..	70 414	2 599 573	2 182 523	417 050	X
33721N	Office furniture manufacturing	55 390	2 665 297	2 079 971	585 326	1
	2003..	58 562	2 697 037	2 072 496	624 541	2
	2002..	58 444	2 717 939	2 088 524	629 415	X
3379	Other furniture related product manufacturing	44 653	1 807 043	1 441 080	365 964	2
	2003..	43 079	1 673 860	1 337 328	336 532	2
	2002..	45 087	1 680 938	1 362 240	318 698	X
33791	Mattress manufacturing	23 406	1 044 405	837 725	206 679	2
	2003..	22 278	961 821	776 763	185 057	2
	2002..	23 081	940 589	765 443	175 146	X
337910	Mattress manufacturing	23 406	1 044 405	837 725	206 679	2
	2003..	22 278	961 821	776 763	185 057	2
	2002..	23 081	940 589	765 443	175 146	X
33792	Blind and shade manufacturing	21 247	762 639	603 354	159 285	2
	2003..	20 801	712 040	560 565	151 475	3
	2002..	22 006	740 349	596 797	143 552	X
337920	Blind and shade manufacturing	21 247	762 639	603 354	159 285	2
	2003..	20 801	712 040	560 565	151 475	3
	2002..	22 006	740 349	596 797	143 552	X
339	Miscellaneous manufacturing	701 826	34 012 322	27 840 452	6 171 870	1
	2003..	720 031	33 264 689	27 296 201	5 968 488	1
	2002..	751 592	32 899 285	27 181 697	5 717 588	X
3391	Medical equipment and supplies manufacturing	312 508	17 156 671	13 864 863	3 291 808	1
	2003..	314 583	16 635 320	13 487 991	3 147 329	1
	2002..	325 018	16 305 682	13 308 116	2 997 566	X
33911	Medical equipment and supplies manufacturing	312 508	17 156 671	13 864 863	3 291 808	1
	2003..	314 583	16 635 320	13 487 991	3 147 329	1
	2002..	325 018	16 305 682	13 308 116	2 997 566	X
339111	Laboratory apparatus and furniture manufacturing	24 426	1 443 281	1 180 539	262 742	1
	2003..	24 656	1 399 241	1 153 491	245 750	2
	2002..	25 806	1 440 790	1 180 745	260 045	X
339112	Surgical and medical instrument manufacturing	96 559	5 905 041	4 733 280	1 171 761	2
	2003..	93 816	5 452 220	4 402 587	1 049 633	2
	2002..	101 980	5 550 172	4 526 473	1 023 699	X
339113	Surgical appliance and supplies manufacturing	101 221	5 877 390	4 699 426	1 177 964	2
	2003..	105 664	5 843 895	4 723 503	1 120 392	2
	2002..	107 147	5 524 049	4 476 742	1 047 307	X
339114	Dental equipment and supplies manufacturing	16 968	884 397	737 429	146 968	4
	2003..	16 585	866 770	707 384	159 386	5
	2002..	16 995	824 689	684 320	140 369	X
339115	Ophthalmic goods manufacturing	21 018	1 116 380	872 869	243 511	1
	2003..	22 871	1 147 683	896 141	251 542	6
	2002..	23 696	1 162 328	918 127	244 201	X
339116	Dental laboratories	52 316	1 930 182	1 641 320	288 862	2
	2003..	50 991	1 925 512	1 604 885	320 627	2
	2002..	49 394	1 803 654	1 521 709	281 945	X

See footnotes at end of table.

Table 3. Employment and Labor Costs for Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	All employees ²	Compensation (\$1,000)			Relative standard error of estimate ³ (percent) for column—
			Total	Payroll	Total fringe benefits	
			A	B	C	
339	Miscellaneous manufacturing—Con.					
3399	Other miscellaneous manufacturing	2004.. 389 318	16 855 651	13 975 589	2 880 063	1
		2003.. 405 447	16 629 370	13 808 211	2 821 159	1
		2002.. 426 574	16 593 603	13 873 581	2 720 022	X
33991	Jewelry and silverware manufacturing	2004.. 44 411	1 770 770	1 482 908	287 862	1
		2003.. 48 373	1 829 084	1 530 805	298 279	2
		2002.. 50 581	1 826 493	1 534 092	292 401	X
33991M	Jewelry and silverware manufacturing	2004.. 44 411	1 770 770	1 482 908	287 862	1
		2003.. 48 373	1 829 084	1 530 805	298 279	2
		2002.. 50 581	1 826 493	1 534 092	292 401	X
33992	Sporting and athletic goods manufacturing	2004.. 57 747	2 536 776	2 078 933	457 842	2
		2003.. 59 756	2 491 789	2 037 491	454 298	1
		2002.. 61 934	2 510 715	2 069 061	441 654	X
339920	Sporting and athletic goods manufacturing	2004.. 57 747	2 536 776	2 078 933	457 842	2
		2003.. 59 756	2 491 789	2 037 491	454 298	1
		2002.. 61 934	2 510 715	2 069 061	441 654	X
33993	Doll, toy, and game manufacturing	2004.. 15 257	651 232	529 683	121 549	3
		2003.. 18 335	730 776	597 717	133 060	3
		2002.. 20 386	785 538	646 206	139 332	X
33993M	Doll, toy, and game manufacturing	2004.. 15 257	651 232	529 683	121 549	3
		2003.. 18 335	730 776	597 717	133 060	3
		2002.. 20 386	785 538	646 206	139 332	X
33994	Office supplies (except paper) manufacturing	2004.. 19 522	907 671	730 099	177 572	1
		2003.. 21 194	907 412	737 367	170 046	1
		2002.. 23 534	966 832	792 633	174 199	X
33994M	Office supplies (except paper) manufacturing	2004.. 19 522	907 671	730 099	177 572	1
		2003.. 21 194	907 412	737 367	170 046	1
		2002.. 23 534	966 832	792 633	174 199	X
33995	Sign manufacturing	2004.. 80 940	3 483 785	2 998 621	485 165	3
		2003.. 80 027	3 382 568	2 900 162	482 406	2
		2002.. 85 594	3 421 472	2 954 219	467 253	X
339950	Sign manufacturing	2004.. 80 940	3 483 785	2 998 621	485 165	3
		2003.. 80 027	3 382 568	2 900 162	482 406	2
		2002.. 85 594	3 421 472	2 954 219	467 253	X
33999	All other miscellaneous manufacturing	2004.. 171 441	7 505 418	6 155 345	1 350 072	1
		2003.. 177 762	7 287 741	6 004 670	1 283 071	1
		2002.. 184 545	7 082 553	5 877 370	1 205 183	X
339991	Gasket, packing, and sealing device manufacturing	2004.. 34 863	1 818 695	1 417 348	401 347	2
		2003.. 34 588	1 724 314	1 332 998	391 316	2
		2002.. 38 082	1 724 086	1 350 980	373 106	X
339992	Musical instrument manufacturing	2004.. 13 296	582 073	463 291	118 782	2
		2003.. 13 917	566 323	454 275	112 047	3
		2002.. 14 889	583 255	472 077	111 178	X
339993	Fastener, button, needle, and pin manufacturing	2004.. 4 467	211 382	164 863	46 519	7
		2003.. 4 833	204 362	163 201	41 161	4
		2002.. 5 257	210 768	171 477	39 291	X
339994	Broom, brush, and mop manufacturing	2004.. 12 429	537 010	436 538	100 472	2
		2003.. 14 615	559 498	459 958	99 540	8
		2002.. 14 845	552 519	459 911	92 608	X
339995	Burial casket manufacturing	2004.. 4 733	206 246	159 090	47 156	3
		2003.. 5 198	226 050	177 466	48 584	1
		2002.. 5 435	215 807	172 060	43 747	X
339999	All other miscellaneous manufacturing	2004.. 101 654	4 150 010	3 514 215	635 796	3
		2003.. 104 612	4 007 194	3 416 772	590 422	2
		2002.. 106 037	3 796 118	3 250 865	545 253	X

¹For a comparison of the Annual Survey of Manufactures (ASM) general statistics NAICS-based codes to the 2002 Economic Census NAICS codes, see Appendix F.

²Figures represent average number of production workers for the payroll period that includes the 12th of March, May, August, and November, plus other employees for the payroll period that includes the 12th of March.

³Description of relative standard error of estimate is given in Appendix C. Percentage standard errors shown are approximate relative standard errors of estimates of level.

Note 1: Previous years' data may differ from that published in the 2003 Annual Survey of Manufactures (ASM) because of changes encountered in subsequent review of the 2004 ASM.

Note 2: The data in this table are based on the 2004 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The data in this table contain sampling errors and nonsampling errors. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy				Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—	
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
			A	B	C	D		E	F
31-33	Manufacturing	2004.. 82 681 842	868 018 337	41 847 850	110 245 447	19 992 152	40 833 992	1	1
		2003.. 78 471 518	821 439 507	40 613 555	N	N	37 857 963	1	1
		2002.. 70 623 591	813 407 616	38 863 725	N	N	31 759 866	X	X
311	Food manufacturing	2004.. 7 646 671	75 324 154	3 800 574	5 014 748	343 561	3 846 096	1	1
		2003.. 7 308 455	66 570 136	3 634 079	N	N	3 674 376	1	1
		2002.. 6 734 570	67 284 932	3 552 841	N	N	3 181 729	X	X
3111	Animal food manufacturing	2004.. 410 453	3 755 377	195 101	90	S	215 353	3	7
		2003.. 344 927	2 788 974	166 421	N	N	178 506	6	2
		2002.. 363 847	3 471 787	191 336	N	N	172 511	X	X
31111	Animal food manufacturing	2004.. 410 453	3 755 377	195 101	90	S	215 353	3	7
		2003.. 344 927	2 788 974	166 421	N	N	178 506	6	2
		2002.. 363 847	3 471 787	191 336	N	N	172 511	X	X
311111	Dog and cat food manufacturing	2004.. 139 197	1 240 667	61 743	—	—	77 454	1	1
		2003.. 134 421	1 178 762	61 755	N	N	72 667	1	2
		2002.. 134 392	1 292 652	66 346	N	N	68 046	X	X
311119	Other animal food manufacturing	2004.. 271 256	2 514 710	133 358	90	S	137 898	4	10
		2003.. 210 506	1 610 212	104 666	N	N	105 839	10	3
		2002.. 229 455	2 179 135	124 990	N	N	104 465	X	X
3112	Grain and oilseed milling	2004.. 1 687 374	15 329 954	667 505	2 682 773	150 163	1 019 868	1	1
		2003.. 1 601 479	14 325 334	650 195	N	N	651 284	2	2
		2002.. 1 507 580	15 267 617	648 384	N	N	859 196	X	X
31121	Flour milling and malt manufacturing	2004.. 247 316	3 291 581	167 671	D	—	79 645	1	2
		2003.. 243 929	2 980 878	166 967	N	N	76 962	1	1
		2002.. 227 966	2 936 505	160 494	N	N	67 472	X	X
31121M	Flour milling and malt manufacturing	2004.. 247 316	3 291 581	167 671	D	—	79 645	1	2
		2003.. 243 929	2 980 878	166 967	N	N	76 962	1	1
		2002.. 227 966	2 936 505	160 494	N	N	67 472	X	X
31122	Starch and vegetable fats and oils manufacturing	2004.. 1 315 007	10 620 591	435 760	D	D	879 247	1	1
		2003.. 1 243 607	10 001 016	421 595	N	N	822 012	3	2
		2002.. 1 178 999	11 071 060	431 561	N	N	747 438	X	X
311221	Wet corn milling	2004.. 813 992	6 715 568	268 664	2 379 782	109 545	545 328	1	1
		2003.. 760 526	6 289 717	258 686	N	N	501 840	5	3
		2002.. 739 694	7 350 451	267 984	N	N	471 710	X	X
311225	Fats and oils refining and blending	2004.. 116 461	947 180	44 438	D	D	72 022	1	1
		2003.. 106 276	847 184	42 101	N	N	64 175	2	2
		2002.. 114 118	915 817	46 779	N	N	67 339	X	X
31122N	Soybean and other oilseed processing	2004.. 384 554	2 957 842	122 657	D	D	261 897	1	3
		2003.. 376 805	2 864 114	120 808	N	N	255 997	2	2
		2002.. 325 187	2 804 792	116 798	N	N	208 389	X	X
31123	Breakfast cereal manufacturing	2004.. 125 050	1 417 782	64 074	D	D	60 976	1	1
		2003.. 113 943	1 343 440	61 633	N	N	52 310	1	1
		2002.. 100 615	1 260 052	56 329	N	N	44 286	X	X
311230	Breakfast cereal manufacturing	2004.. 125 050	1 417 782	64 074	D	D	60 976	1	1
		2003.. 113 943	1 343 440	61 633	N	N	52 310	1	1
		2002.. 100 615	1 260 052	56 329	N	N	44 286	X	X
3113	Sugar and confectionery product manufacturing	2004.. 457 270	3 553 637	185 826	D	D	271 444	1	1
		2003.. 468 329	3 378 277	192 137	N	N	276 192	3	9
		2002.. 415 911	3 157 745	183 969	N	N	231 942	X	X
31131	Sugar manufacturing	2004.. 259 098	1 076 053	52 029	1 705 379	D	207 069	1	1
		2003.. 260 211	946 977	55 182	N	N	205 029	9	12
		2002.. 215 155	966 107	52 743	N	N	162 412	X	X
311313	Beet sugar manufacturing	2004.. 151 626	574 030	25 249	413 393	D	126 377	1	1
		2003.. 153 652	459 732	25 051	N	N	128 601	20	19
		2002.. 117 092	463 952	22 767	N	N	94 325	X	X
31131N	Sugar cane mills and refining	2004.. 107 472	502 024	26 780	1 291 986	D	80 692	1	1
		2003.. 106 559	487 245	30 131	N	N	76 428	1	1
		2002.. 98 063	502 155	29 976	N	N	68 087	X	X
31132	Chocolate and confectionery manufacturing from cacao beans	2004.. 42 482	588 470	31 708	S	—	10 775	3	8
		2003.. 46 783	652 859	32 527	N	N	14 256	3	4
		2002.. 44 301	533 419	31 893	N	N	12 408	X	X
311320	Chocolate and confectionery manufacturing from cacao beans	2004.. 42 482	588 470	31 708	S	—	10 775	3	8
		2003.. 46 783	652 859	32 527	N	N	14 256	3	4
		2002.. 44 301	533 419	31 893	N	N	12 408	X	X
31133	Confectionery manufacturing from purchased chocolate	2004.. 85 154	1 057 974	58 864	D	D	26 289	1	2
		2003.. 89 218	996 979	59 264	N	N	29 954	1	1
		2002.. 86 560	987 915	58 621	N	N	27 939	X	X
311330	Confectionery manufacturing from purchased chocolate	2004.. 85 154	1 057 974	58 864	D	D	26 289	1	2
		2003.. 89 218	996 979	59 264	N	N	29 954	1	1
		2002.. 86 560	987 915	58 621	N	N	27 939	X	X

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Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy				Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—	
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
			A	B	C	D		E	F
311	Food manufacturing—Con.								
3113	Sugar and confectionery product manufacturing—Con.								
31134	Nonchocolate confectionery manufacturing	2004.. 70 536	831 139	43 225	D	—	27 311	4	3
		2003.. 72 117	781 461	45 164	N	N	26 953	1	2
		2002.. 69 895	670 304	40 712	N	N	29 183	X	X
311340	Nonchocolate confectionery manufacturing	2004.. 70 536	831 139	43 225	D	—	27 311	4	3
		2003.. 72 117	781 461	45 164	N	N	26 953	1	2
		2002.. 69 895	670 304	40 712	N	N	29 183	X	X
3114	Fruit and vegetable preserving and specialty food manufacturing	2004.. 1 066 244	9 402 243	496 106	367 109	D	570 137	2	1
		2003.. 1 013 946	8 673 192	496 588	N	N	517 358	4	2
		2002.. 968 237	8 460 905	487 996	N	N	480 241	X	X
31141	Frozen food manufacturing	2004.. 461 438	5 344 196	260 695	7 431	—	200 744	2	2
		2003.. 462 503	4 970 423	265 145	N	N	197 358	1	1
		2002.. 431 923	4 977 674	263 264	N	N	168 659	X	X
31141M	Frozen food manufacturing	2004.. 461 438	5 344 196	260 695	7 431	—	200 744	2	2
		2003.. 462 503	4 970 423	265 145	N	N	197 358	1	1
		2002.. 431 923	4 977 674	263 264	N	N	168 659	X	X
31142	Fruit and vegetable canning, pickling, and drying	2004.. 604 805	4 058 047	235 412	359 677	D	369 394	3	2
		2003.. 551 443	3 702 769	231 443	N	N	320 000	8	2
		2002.. 536 314	3 483 231	224 732	N	N	311 582	X	X
31142M	Fruit and vegetable canning, pickling, and drying	2004.. 604 805	4 058 047	235 412	359 677	D	369 394	3	2
		2003.. 551 443	3 702 769	231 443	N	N	320 000	8	2
		2002.. 536 314	3 483 231	224 732	N	N	311 582	X	X
3115	Dairy product manufacturing	2004.. 892 409	9 141 046	498 691	D	21 243	393 718	1	1
		2003.. 871 384	8 242 510	492 736	N	N	378 648	1	1
		2002.. 787 415	8 058 090	477 336	N	N	310 079	X	X
31151	Dairy product (except frozen) manufacturing	2004.. 800 255	7 672 728	421 752	D	21 243	378 503	1	1
		2003.. 779 344	6 954 841	414 866	N	N	364 478	1	1
		2002.. 694 713	6 763 415	397 373	N	N	297 340	X	X
311513	Cheese manufacturing	2004.. 285 208	2 604 610	136 331	D	D	148 877	1	2
		2003.. 282 393	2 485 168	137 504	N	N	144 889	2	2
		2002.. 242 776	2 360 485	130 692	N	N	112 084	X	X
311514	Dry, condensed, and evaporated dairy product manufacturing	2004.. 162 481	1 225 453	67 981	—	—	94 499	1	3
		2003.. 163 685	1 093 758	65 290	N	N	98 394	3	1
		2002.. 149 995	1 208 224	67 941	N	N	82 054	X	X
31151N	Fluid milk and butter manufacturing	2004.. 352 566	3 842 665	217 439	—	D	135 127	1	2
		2003.. 333 266	3 375 915	212 072	N	N	121 194	1	2
		2002.. 301 942	3 194 706	198 740	N	N	103 202	X	X
31152	Ice cream and frozen dessert manufacturing	2004.. 92 154	1 468 318	76 939	—	—	15 215	1	3
		2003.. 92 040	1 287 669	77 870	N	N	14 170	2	2
		2002.. 92 702	1 294 675	79 963	N	N	12 739	X	X
311520	Ice cream and frozen dessert manufacturing	2004.. 92 154	1 468 318	76 939	—	—	15 215	1	3
		2003.. 92 040	1 287 669	77 870	N	N	14 170	2	2
		2002.. 92 702	1 294 675	79 963	N	N	12 739	X	X
3116	Animal slaughtering and processing	2004.. 1 588 091	18 545 937	884 468	17 436	12 913	703 623	1	4
		2003.. 1 571 590	16 332 632	837 152	N	N	734 438	1	3
		2002.. 1 338 123	16 063 712	784 234	N	N	553 889	X	X
31161	Animal slaughtering and processing	2004.. 1 588 091	18 545 937	884 468	17 436	12 913	703 623	1	4
		2003.. 1 571 590	16 332 632	837 152	N	N	734 438	1	3
		2002.. 1 338 123	16 063 712	784 234	N	N	553 889	X	X
311615	Poultry processing	2004.. 527 790	7 593 975	351 638	D	—	176 152	1	16
		2003.. 505 266	6 769 571	331 277	N	N	173 990	1	1
		2002.. 522 333	7 001 872	333 829	N	N	188 504	X	X
31161N	Animal (except poultry) slaughtering and processing	2004.. 1 060 301	10 951 963	532 830	D	12 913	527 471	2	2
		2003.. 1 066 324	9 563 061	505 875	N	N	560 448	1	4
		2002.. 815 790	9 061 840	450 405	N	N	365 385	X	X
3117	Seafood product preparation and packaging	2004.. 161 747	1 564 319	89 359	94 571	670	72 388	2	5
		2003.. 132 656	1 175 896	72 973	N	N	59 683	5	8
		2002.. 125 600	1 043 073	66 628	N	N	58 972	X	X
31171	Seafood product preparation and packaging	2004.. 161 747	1 564 319	89 359	94 571	670	72 388	2	5
		2003.. 132 656	1 175 896	72 973	N	N	59 683	5	8
		2002.. 125 600	1 043 073	66 628	N	N	58 972	X	X
31171M	Seafood product preparation and packaging	2004.. 161 747	1 564 319	89 359	94 571	670	72 388	2	5
		2003.. 132 656	1 175 896	72 973	N	N	59 683	5	8
		2002.. 125 600	1 043 073	66 628	N	N	58 972	X	X

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			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
		A	B	C	D	E	F	C	F
311	Food manufacturing—Con.								
3118	Bakeries and tortilla manufacturing ...	2004.. 726 385	7 579 515	423 450	9 413	4 881	302 935	2	1
		2003.. 684 226	6 250 574	394 209	N	N	290 017	1	2
		2002.. 668 149	6 435 917	397 220	N	N	270 929	X	X
31181	Bread and bakery product manufacturing	2004.. 487 756	4 876 145	279 980	A	4 881	207 776	2	2
		2003.. 457 545	4 025 123	258 942	N	N	198 603	1	2
		2002.. 465 820	4 322 820	270 329	N	N	195 491	X	X
31181M	Bread and bakery product manufacturing	2004.. 487 756	4 876 145	279 980	A	4 881	207 776	2	2
		2003.. 457 545	4 025 123	258 942	N	N	198 603	1	2
		2002.. 465 820	4 322 820	270 329	N	N	195 491	X	X
31182	Cookie, cracker, and pasta manufacturing	2004.. 199 522	2 394 604	123 362	5 349	—	76 160	1	1
		2003.. 194 078	1 981 982	117 926	N	N	76 152	3	7
		2002.. 170 658	1 875 199	109 413	N	N	61 245	X	X
31182M	Cookie, cracker, and pasta manufacturing	2004.. 199 522	2 394 604	123 362	5 349	—	76 160	1	1
		2003.. 194 078	1 981 982	117 926	N	N	76 152	3	7
		2002.. 170 658	1 875 199	109 413	N	N	61 245	X	X
31183	Tortilla manufacturing	2004.. 39 106	308 767	20 107	—	—	18 999	4	5
		2003.. 32 604	243 469	17 341	N	N	15 262	4	4
		2002.. 31 671	237 898	17 478	N	N	14 193	X	X
311830	Tortilla manufacturing	2004.. 39 106	308 767	20 107	—	—	18 999	4	5
		2003.. 32 604	243 469	17 341	N	N	15 262	4	4
		2002.. 31 671	237 898	17 478	N	N	14 193	X	X
3119	Other food manufacturing	2004.. 656 699	6 452 126	360 068	29 903	31 842	296 631	1	2
		2003.. 619 918	5 402 748	331 668	N	N	288 250	2	1
		2002.. 559 708	5 326 086	315 738	N	N	243 970	X	X
31191	Snack food manufacturing	2004.. 205 648	1 592 341	83 772	D	D	121 875	1	2
		2003.. 209 247	1 465 307	83 682	N	N	125 565	2	1
		2002.. 191 789	1 674 844	82 557	N	N	109 232	X	X
31191M	Snack food manufacturing	2004.. 205 648	1 592 341	83 772	D	D	121 875	1	2
		2003.. 209 247	1 465 307	83 682	N	N	125 565	2	1
		2002.. 191 789	1 674 844	82 557	N	N	109 232	X	X
31192	Coffee and tea manufacturing	2004.. 67 139	526 560	31 023	—	—	36 116	2	4
		2003.. 65 406	484 203	30 527	N	N	34 879	1	1
		2002.. 51 247	431 906	27 797	N	N	23 450	X	X
311920	Coffee and tea manufacturing	2004.. 67 139	526 560	31 023	—	—	36 116	2	4
		2003.. 65 406	484 203	30 527	N	N	34 879	1	1
		2002.. 51 247	431 906	27 797	N	N	23 450	X	X
31193	Flavoring syrup and concentrate manufacturing	2004.. 26 629	237 547	13 235	D	—	13 394	6	13
		2003.. 21 867	199 195	12 438	N	N	9 429	9	3
		2002.. 18 816	151 924	10 703	N	N	8 113	X	X
311930	Flavoring syrup and concentrate manufacturing	2004.. 26 629	237 547	13 235	D	—	13 394	6	13
		2003.. 21 867	199 195	12 438	N	N	9 429	9	3
		2002.. 18 816	151 924	10 703	N	N	8 113	X	X
31194	Seasoning and dressing manufacturing	2004.. 96 159	1 111 800	64 140	—	D	32 019	1	1
		2003.. 93 843	982 773	60 135	N	N	33 708	1	2
		2002.. 83 987	903 051	55 431	N	N	28 556	X	X
31194M	Seasoning and dressing manufacturing	2004.. 96 159	1 111 800	64 140	—	D	32 019	1	1
		2003.. 93 843	982 773	60 135	N	N	33 708	1	2
		2002.. 83 987	903 051	55 431	N	N	28 556	X	X
31199	All other food manufacturing	2004.. 261 125	2 983 879	167 899	—	D	93 226	2	4
		2003.. 229 555	2 271 271	144 886	N	N	84 669	4	3
		2002.. 213 869	2 164 361	139 250	N	N	74 619	X	X
31199M	All other food manufacturing	2004.. 261 125	2 983 879	167 899	—	D	93 226	2	4
		2003.. 229 555	2 271 271	144 886	N	N	84 669	4	3
		2002.. 213 869	2 164 361	139 250	N	N	74 619	X	X
312	Beverage and tobacco product manufacturing	2004.. 847 556	8 968 141	500 029	448 225	D	347 527	1	1
		2003.. 818 789	8 355 049	491 278	N	N	327 510	1	1
		2002.. 761 714	8 222 308	482 322	N	N	279 392	X	X
3121	Beverage manufacturing	2004.. 738 340	7 535 724	433 756	D	D	304 584	1	1
		2003.. 702 953	6 954 518	425 656	N	N	277 296	2	2
		2002.. 647 776	6 734 521	415 051	N	N	232 725	X	X
31211	Soft drink and ice manufacturing ...	2004.. 345 348	3 725 530	222 494	60	S	122 854	2	1
		2003.. 336 439	3 479 226	228 195	N	N	108 244	3	4
		2002.. 305 599	3 235 699	214 518	N	N	91 081	X	X
31211M	Soft drink and ice manufacturing ..	2004.. 345 348	3 725 530	222 494	60	S	122 854	2	1
		2003.. 336 439	3 479 226	228 195	N	N	108 244	3	4
		2002.. 305 599	3 235 699	214 518	N	N	91 081	X	X

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			Quantity (1,000 kWh)	Cost (\$1,000)					
		A	B	C	D	E	F	C	F
312	Beverage and tobacco product manufacturing—Con.								
3121	Beverage manufacturing—Con.								
31212	Breweries.....	2004.. 282 026	2 641 946	133 063	D	D	148 962	1	1
		2003.. 268 698	2 534 165	126 863	N	N	141 835	1	1
		2002.. 237 223	2 494 752	123 465	N	N	113 758	X	X
312120	Breweries.....	2004.. 282 026	2 641 946	133 063	D	D	148 962	1	1
		2003.. 268 698	2 534 165	126 863	N	N	141 835	1	1
		2002.. 237 223	2 494 752	123 465	N	N	113 758	X	X
31213	Wineries.....	2004.. 84 096	900 256	65 978	A	270	18 118	4	7
		2003.. 77 491	754 943	61 229	N	N	16 262	2	2
		2002.. 83 602	803 249	67 150	N	N	16 452	X	X
312130	Wineries.....	2004.. 84 096	900 256	65 978	A	270	18 118	4	7
		2003.. 77 491	754 943	61 229	N	N	16 262	2	2
		2002.. 83 602	803 249	67 150	N	N	16 452	X	X
31214	Distilleries.....	2004.. 26 870	267 991	12 220	—	—	14 650	4	12
		2003.. 20 324	186 184	9 369	N	N	10 955	4	13
		2002.. 21 352	200 821	9 918	N	N	11 434	X	X
312140	Distilleries.....	2004.. 26 870	267 991	12 220	—	—	14 650	4	12
		2003.. 20 324	186 184	9 369	N	N	10 955	4	13
		2002.. 21 352	200 821	9 918	N	N	11 434	X	X
3122	Tobacco manufacturing.....	2004.. 109 216	1 432 417	66 273	D	D	42 943	1	1
		2003.. 115 836	1 400 531	65 622	N	N	50 214	1	1
		2002.. 113 938	1 487 787	67 271	N	N	46 667	X	X
31221	Tobacco stemming and redrying ...	2004.. 15 248	108 660	7 042	—	—	8 206	1	1
		2003.. 15 413	116 129	7 292	N	N	8 121	1	1
		2002.. 13 452	110 343	6 417	N	N	7 035	X	X
312210	Tobacco stemming and redrying ...	2004.. 15 248	108 660	7 042	—	—	8 206	1	1
		2003.. 15 413	116 129	7 292	N	N	8 121	1	1
		2002.. 13 452	110 343	6 417	N	N	7 035	X	X
31222	Tobacco product manufacturing ...	2004.. 93 968	1 323 757	59 231	D	D	34 737	1	1
		2003.. 100 423	1 284 402	58 330	N	N	42 093	1	1
		2002.. 100 486	1 377 444	60 854	N	N	39 632	X	X
31222M	Tobacco product manufacturing ...	2004.. 93 968	1 323 757	59 231	D	D	34 737	1	1
		2003.. 100 423	1 284 402	58 330	N	N	42 093	1	1
		2002.. 100 486	1 377 444	60 854	N	N	39 632	X	X
313	Textile mills.....	2004.. 1 533 517	22 326 955	1 008 977	192 827	D	524 540	1	1
		2003.. 1 523 112	22 905 107	1 034 535	N	N	488 577	1	1
		2002.. 1 510 802	23 593 417	1 057 126	N	N	453 676	X	X
3131	Fiber, yarn, and thread mills.....	2004.. 430 841	8 508 697	361 783	D	—	69 058	2	3
		2003.. 406 197	7 890 023	351 411	N	N	54 786	2	3
		2002.. 403 430	8 216 156	361 640	N	N	41 790	X	X
31311	Fiber, yarn, and thread mills.....	2004.. 430 841	8 508 697	361 783	D	—	69 058	2	3
		2003.. 406 197	7 890 023	351 411	N	N	54 786	2	3
		2002.. 403 430	8 216 156	361 640	N	N	41 790	X	X
31311M	Fiber, yarn, and thread mills.....	2004.. 430 841	8 508 697	361 783	D	—	69 058	2	3
		2003.. 406 197	7 890 023	351 411	N	N	54 786	2	3
		2002.. 403 430	8 216 156	361 640	N	N	41 790	X	X
3132	Fabric mills.....	2004.. 692 035	10 720 433	466 056	D	D	225 979	1	2
		2003.. 720 307	12 056 989	504 318	N	N	215 988	1	1
		2002.. 739 633	12 668 146	535 863	N	N	203 770	X	X
31321	Broadwoven fabric mills.....	2004.. 352 003	6 337 220	257 880	D	—	94 123	1	1
		2003.. 389 008	6 899 301	296 365	N	N	92 642	1	1
		2002.. 406 931	7 451 920	316 718	N	N	90 213	X	X
313210	Broadwoven fabric mills.....	2004.. 352 003	6 337 220	257 880	D	—	94 123	1	1
		2003.. 389 008	6 899 301	296 365	N	N	92 642	1	1
		2002.. 406 931	7 451 920	316 718	N	N	90 213	X	X
31322	Narrow fabric mills and schiffli machine embroidery.....	2004.. 33 809	380 833	21 089	D	137	12 720	3	5
		2003.. 32 079	367 825	20 434	N	N	11 645	2	2
		2002.. 31 508	346 743	22 247	N	N	9 261	X	X
31322M	Narrow fabric mills and schiffli machine embroidery.....	2004.. 33 809	380 833	21 089	D	137	12 720	3	5
		2003.. 32 079	367 825	20 434	N	N	11 645	2	2
		2002.. 31 508	346 743	22 247	N	N	9 261	X	X
31323	Nonwoven fabric mills.....	2004.. 195 895	2 713 814	124 340	D	D	71 555	1	1
		2003.. 180 419	3 513 234	123 257	N	N	57 162	4	1
		2002.. 187 265	3 641 900	133 354	N	N	53 911	X	X
313230	Nonwoven fabric mills.....	2004.. 195 895	2 713 814	124 340	D	D	71 555	1	1
		2003.. 180 419	3 513 234	123 257	N	N	57 162	4	1
		2002.. 187 265	3 641 900	133 354	N	N	53 911	X	X
31324	Knit fabric mills.....	2004.. 110 329	1 288 566	62 747	D	—	47 582	5	7
		2003.. 118 801	1 276 630	64 262	N	N	54 539	3	2
		2002.. 113 929	1 227 583	63 544	N	N	50 385	X	X
31324M	Knit fabric mills.....	2004.. 110 329	1 288 566	62 747	D	—	47 582	5	7
		2003.. 118 801	1 276 630	64 262	N	N	54 539	3	2
		2002.. 113 929	1 227 583	63 544	N	N	50 385	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy				Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—	
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
			A	B	C	D		E	F
313	Textile mills—Con.								
3133	Textile and fabric finishing and fabric coating mills.....	2004.. 410 641	3 097 825	181 138	D	—	229 503	2	2
		2003.. 396 608	2 958 094	178 805	N	N	217 802	6	3
		2002.. 367 739	2 709 115	159 623	N	N	208 116	X	X
31331	Textile and fabric finishing mills	2004.. 362 111	2 728 552	157 875	D	—	204 235	2	2
		2003.. 349 462	2 594 545	152 863	N	N	196 599	7	3
		2002.. 326 248	2 372 339	137 694	N	N	188 554	X	X
31331M	Textile and fabric finishing mills ..	2004.. 362 111	2 728 552	157 875	D	—	204 235	2	2
		2003.. 349 462	2 594 545	152 863	N	N	196 599	7	3
		2002.. 326 248	2 372 339	137 694	N	N	188 554	X	X
31332	Fabric coating mills	2004.. 48 530	369 273	23 263	—	—	25 267	6	6
		2003.. 47 146	363 549	25 943	N	N	21 203	12	3
		2002.. 41 491	336 776	21 929	N	N	19 562	X	X
313320	Fabric coating mills	2004.. 48 530	369 273	23 263	—	—	25 267	6	6
		2003.. 47 146	363 549	25 943	N	N	21 203	12	3
		2002.. 41 491	336 776	21 929	N	N	19 562	X	X
314	Textile product mills	2004.. 438 636	5 487 462	244 583	D	34	194 053	1	1
		2003.. 422 899	4 955 164	233 906	N	N	188 994	1	1
		2002.. 394 361	4 841 516	228 149	N	N	166 212	X	X
3141	Textile furnishings mills	2004.. 286 375	3 249 610	135 593	D	—	150 782	1	1
		2003.. 280 807	2 911 518	133 323	N	N	147 484	1	1
		2002.. 262 762	2 919 232	133 251	N	N	129 511	X	X
31411	Carpet and rug mills	2004.. 220 925	2 443 280	96 772	—	—	124 152	2	1
		2003.. 222 367	2 299 939	96 670	N	N	125 697	1	1
		2002.. 204 702	2 284 240	95 973	N	N	108 729	X	X
314110	Carpet and rug mills	2004.. 220 925	2 443 280	96 772	—	—	124 152	2	1
		2003.. 222 367	2 299 939	96 670	N	N	125 697	1	1
		2002.. 204 702	2 284 240	95 973	N	N	108 729	X	X
31412	Curtain and linen mills	2004.. 65 450	806 330	38 820	D	—	26 630	2	2
		2003.. 58 440	611 579	36 652	N	N	21 787	2	3
		2002.. 58 060	634 992	37 278	N	N	20 782	X	X
31412M	Curtain and linen mills	2004.. 65 450	806 330	38 820	D	—	26 630	2	2
		2003.. 58 440	611 579	36 652	N	N	21 787	2	3
		2002.. 58 060	634 992	37 278	N	N	20 782	X	X
3149	Other textile product mills	2004.. 152 261	2 237 853	108 990	6 431	34	43 270	3	2
		2003.. 142 092	2 043 647	100 583	N	N	41 509	2	3
		2002.. 131 599	1 922 284	94 898	N	N	36 701	X	X
31491	Textile bag and canvas mills	2004.. 18 243	262 249	13 918	3 602	34	4 325	5	10
		2003.. 12 578	124 499	8 710	N	N	3 868	12	6
		2002.. 13 873	149 280	10 152	N	N	3 721	X	X
31491M	Textile bag and canvas mills	2004.. 18 243	262 249	13 918	3 602	34	4 325	5	10
		2003.. 12 578	124 499	8 710	N	N	3 868	12	6
		2002.. 13 873	149 280	10 152	N	N	3 721	X	X
31499	All other textile product mills	2004.. 134 018	1 975 604	95 073	2 829	—	38 945	3	2
		2003.. 129 514	1 919 148	91 873	N	N	37 642	2	3
		2002.. 117 726	1 773 004	84 746	N	N	32 980	X	X
314991	Rope, cordage, and twine mills ..	2004.. 10 375	147 363	8 610	D	—	1 766	8	3
		2003.. 9 872	140 126	8 396	N	N	1 476	3	10
		2002.. 10 048	142 656	8 611	N	N	1 437	X	X
314992	Tire cord and tire fabric mills	2004.. 58 896	1 006 433	41 810	D	—	17 086	1	1
		2003.. 59 411	1 095 332	42 620	N	N	16 791	1	1
		2002.. 44 097	933 759	33 475	N	N	10 622	X	X
314999	All other miscellaneous textile product mills	2004.. 64 746	821 809	44 653	2 068	—	20 093	6	4
		2003.. 60 231	683 690	40 857	N	N	19 374	4	5
		2002.. 63 581	696 589	42 660	N	N	20 921	X	X
315	Apparel manufacturing	2004.. 316 919	3 772 449	199 408	D	400	117 511	2	2
		2003.. 298 046	3 007 538	198 151	N	N	99 896	3	1
		2002.. 323 012	3 287 486	209 518	N	N	113 494	X	X
3151	Apparel knitting mills	2004.. 95 061	1 271 574	60 388	—	—	34 673	2	3
		2003.. 106 531	1 224 934	72 630	N	N	33 900	4	2
		2002.. 110 883	1 252 289	73 415	N	N	37 468	X	X
31511	Hosiery and sock mills	2004.. 71 087	1 000 305	47 348	—	—	23 739	2	3
		2003.. 79 220	975 769	55 471	N	N	23 749	6	3
		2002.. 75 635	947 161	53 459	N	N	22 176	X	X
31511M	Hosiery and sock mills	2004.. 71 087	1 000 305	47 348	—	—	23 739	2	3
		2003.. 79 220	975 769	55 471	N	N	23 749	6	3
		2002.. 75 635	947 161	53 459	N	N	22 176	X	X
31519	Other apparel knitting mills	2004.. 23 974	271 269	13 040	—	—	10 934	8	8
		2003.. 27 311	249 164	17 160	N	N	10 152	2	4
		2002.. 35 248	305 128	19 956	N	N	15 292	X	X
31519M	Other apparel knitting mills	2004.. 23 974	271 269	13 040	—	—	10 934	8	8
		2003.. 27 311	249 164	17 160	N	N	10 152	2	4
		2002.. 35 248	305 128	19 956	N	N	15 292	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy				Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—	
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
			A	B	C	D		E	F
315	Apparel manufacturing—Con.								
3152	Cut and sew apparel manufacturing ..	206 124	2 283 177	127 414	D	D	78 710	2	2
	2004..	174 480	1 620 995	113 855	N	N	60 625	3	2
	2003..	195 418	1 880 748	124 743	N	N	70 675	X	X
	2002..								
31521	Cut and sew apparel contractors ...	70 624	526 448	27 151	S	D	43 473	8	4
	2004..	43 050	208 170	15 650	N	N	27 401	18	4
	2003..	61 915	440 475	29 684	N	N	32 231	X	X
	2002..								
31521M	Cut and sew apparel contractors .	70 624	526 448	27 151	S	D	43 473	8	4
	2004..	43 050	208 170	15 650	N	N	27 401	18	4
	2003..	61 915	440 475	29 684	N	N	32 231	X	X
	2002..								
31522	Men's and boys' cut and sew apparel manufacturing	72 713	899 009	51 571	D	—	21 143	3	1
	2004..	57 974	606 899	39 334	N	N	18 640	4	3
	2003..	72 264	822 832	49 645	N	N	22 619	X	X
	2002..								
31522M	Men's and boys' cut and sew apparel manufacturing	72 713	899 009	51 571	D	—	21 143	3	1
	2004..	57 974	606 899	39 334	N	N	18 640	4	3
	2003..	72 264	822 832	49 645	N	N	22 619	X	X
	2002..								
31523	Women's and girls' cut and sew apparel manufacturing	52 211	693 298	40 316	D	D	11 895	2	5
	2004..	63 604	685 191	50 251	N	N	13 353	5	3
	2003..	49 487	462 573	35 067	N	N	14 420	X	X
	2002..								
31523M	Women's and girls' cut and sew apparel manufacturing	52 211	693 298	40 316	D	D	11 895	2	5
	2004..	63 604	685 191	50 251	N	N	13 353	5	3
	2003..	49 487	462 573	35 067	N	N	14 420	X	X
	2002..								
31529	Other cut and sew apparel manufacturing	10 576	164 421	8 377	D	—	2 199	3	4
	2004..	9 851	120 736	8 621	N	N	1 231	5	10
	2003..	11 752	154 868	10 347	N	N	1 405	X	X
	2002..								
31529M	Other cut and sew apparel manufacturing	10 576	164 421	8 377	D	—	2 199	3	4
	2004..	9 851	120 736	8 621	N	N	1 231	5	10
	2003..	11 752	154 868	10 347	N	N	1 405	X	X
	2002..								
3159	Apparel accessories and other apparel manufacturing	15 734	217 698	11 606	—	D	4 127	7	5
	2004..	17 036	161 609	11 665	N	N	5 370	2	2
	2003..	16 711	154 449	11 360	N	N	5 351	X	X
	2002..								
31599	Apparel accessories and other apparel manufacturing	15 734	217 698	11 606	—	D	4 127	7	5
	2004..	17 036	161 609	11 665	N	N	5 370	2	2
	2003..	16 711	154 449	11 360	N	N	5 351	X	X
	2002..								
31599M	Apparel accessories and other apparel manufacturing	15 734	217 698	11 606	—	D	4 127	7	5
	2004..	17 036	161 609	11 665	N	N	5 370	2	2
	2003..	16 711	154 449	11 360	N	N	5 351	X	X
	2002..								
316	Leather and allied product manufacturing	69 383	814 994	44 486	—	—	24 897	1	3
	2004..	58 490	662 629	38 169	N	N	20 321	2	2
	2003..	58 367	571 306	38 945	N	N	19 422	X	X
	2002..								
3161	Leather and hide tanning and finishing	37 582	367 908	20 352	—	—	17 230	1	1
	2004..	30 531	308 419	16 369	N	N	14 163	2	2
	2003..	30 037	239 372	16 597	N	N	13 440	X	X
	2002..								
31611	Leather and hide tanning and finishing	37 582	367 908	20 352	—	—	17 230	1	1
	2004..	30 531	308 419	16 369	N	N	14 163	2	2
	2003..	30 037	239 372	16 597	N	N	13 440	X	X
	2002..								
316110	Leather and hide tanning and finishing	37 582	367 908	20 352	—	—	17 230	1	1
	2004..	30 531	308 419	16 369	N	N	14 163	2	2
	2003..	30 037	239 372	16 597	N	N	13 440	X	X
	2002..								
3162	Footwear manufacturing	17 353	255 182	14 048	—	—	3 305	1	2
	2004..	15 991	214 874	12 875	N	N	3 116	2	4
	2003..	17 296	214 137	14 052	N	N	3 244	X	X
	2002..								
31621	Footwear manufacturing	17 353	255 182	14 048	—	—	3 305	1	2
	2004..	15 991	214 874	12 875	N	N	3 116	2	4
	2003..	17 296	214 137	14 052	N	N	3 244	X	X
	2002..								
31621M	Footwear manufacturing	17 353	255 182	14 048	—	—	3 305	1	2
	2004..	15 991	214 874	12 875	N	N	3 116	2	4
	2003..	17 296	214 137	14 052	N	N	3 244	X	X
	2002..								
3169	Other leather and allied product manufacturing	14 448	191 904	10 086	—	—	4 362	4	17
	2004..	11 968	139 336	8 925	N	N	3 043	7	4
	2003..	11 034	117 797	8 296	N	N	2 738	X	X
	2002..								

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy				Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—	
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
		A	B	C	D	E	F	C	F
316	Leather and allied product manufacturing—Con.								
3169	Other leather and allied product manufacturing—Con.								
31699	Other leather and allied product manufacturing	2004.. 14 448	191 904	10 086	—	—	4 362	4	17
		2003.. 11 968	139 336	8 925	N	N	3 043	7	4
		2002.. 11 034	117 797	8 296	N	N	2 738	X	X
31699M	Other leather and allied product manufacturing	2004.. 14 448	191 904	10 086	—	—	4 362	4	17
		2003.. 11 968	139 336	8 925	N	N	3 043	7	4
		2002.. 11 034	117 797	8 296	N	N	2 738	X	X
321	Wood product manufacturing	2004.. 1 955 132	27 235 254	1 322 406	1 223 155	763 771	632 726	1	2
		2003.. 1 808 943	22 942 745	1 232 190	N	N	576 752	3	1
		2002.. 1 661 628	21 913 674	1 181 771	N	N	479 857	X	X
3211	Sawmills and wood preservation	2004.. 655 427	8 850 247	438 481	1 048 604	760 445	216 945	2	4
		2003.. 615 390	7 336 221	408 241	N	N	207 149	2	3
		2002.. 554 408	7 162 986	407 491	N	N	146 917	X	X
32111	Sawmills and wood preservation	2004.. 655 427	8 850 247	438 481	1 048 604	760 445	216 945	2	4
		2003.. 615 390	7 336 221	408 241	N	N	207 149	2	3
		2002.. 554 408	7 162 986	407 491	N	N	146 917	X	X
32111M	Sawmills and wood preservation	2004.. 655 427	8 850 247	438 481	1 048 604	760 445	216 945	2	4
		2003.. 615 390	7 336 221	408 241	N	N	207 149	2	3
		2002.. 554 408	7 162 986	407 491	N	N	146 917	X	X
3212	Veneer, plywood, and engineered wood product manufacturing	2004.. 732 668	9 743 771	460 690	138 366	D	271 978	1	2
		2003.. 689 547	8 983 181	435 753	N	N	253 794	1	1
		2002.. 672 487	9 312 043	443 616	N	N	228 871	X	X
32121	Veneer, plywood, and engineered wood product manufacturing	2004.. 732 668	9 743 771	460 690	138 366	D	271 978	1	2
		2003.. 689 547	8 983 181	435 753	N	N	253 794	1	1
		2002.. 672 487	9 312 043	443 616	N	N	228 871	X	X
321219	Reconstituted wood product manufacturing	2004.. 458 755	5 779 883	267 256	71 784	D	191 499	2	3
		2003.. 416 000	5 311 827	250 519	N	N	165 481	1	1
		2002.. 398 231	5 456 781	249 109	N	N	149 122	X	X
32121N	Veneer and plywood manufacturing	2004.. 208 459	3 066 389	148 921	D	D	59 538	2	6
		2003.. 214 671	2 900 993	142 632	N	N	72 039	3	3
		2002.. 221 951	3 174 769	156 570	N	N	65 381	X	X
32121P	Engineered wood product manufacturing	2004.. 65 454	897 498	44 513	D	75	20 941	2	4
		2003.. 58 876	770 361	42 602	N	N	16 274	2	3
		2002.. 52 305	680 493	37 937	N	N	14 368	X	X
3219	Other wood product manufacturing	2004.. 567 037	8 641 236	423 235	36 185	D	143 803	4	5
		2003.. 504 006	6 623 342	388 196	N	N	115 809	11	2
		2002.. 434 733	5 438 645	330 664	N	N	104 069	X	X
32191	Millwork	2004.. 300 025	4 366 393	227 374	34 772	D	72 651	1	8
		2003.. 273 962	3 649 146	214 353	N	N	59 609	3	3
		2002.. 245 429	3 291 221	194 218	N	N	51 211	X	X
32191M	Millwork	2004.. 300 025	4 366 393	227 374	34 772	D	72 651	1	8
		2003.. 273 962	3 649 146	214 353	N	N	59 609	3	3
		2002.. 245 429	3 291 221	194 218	N	N	51 211	X	X
32192	Wood container and pallet manufacturing	2004.. 73 566	956 209	50 130	A	S	23 436	3	8
		2003.. 67 592	687 840	45 367	N	N	22 225	3	7
		2002.. 66 683	722 079	46 250	N	N	20 433	X	X
321920	Wood container and pallet manufacturing	2004.. 73 566	956 209	50 130	A	S	23 436	3	8
		2003.. 67 592	687 840	45 367	N	N	22 225	3	7
		2002.. 66 683	722 079	46 250	N	N	20 433	X	X
32199	All other wood product manufacturing	2004.. 193 447	3 318 634	145 731	933	1 434	47 716	10	9
		2003.. 162 451	2 286 357	128 476	N	N	33 975	32	3
		2002.. 122 621	1 425 345	90 196	N	N	32 425	X	X
321991	Manufactured home (mobile home) manufacturing	2004.. 26 740	363 960	20 296	—	—	6 444	2	2
		2003.. 25 920	283 856	19 688	N	N	6 232	2	3
		2002.. 28 126	301 727	21 314	N	N	6 812	X	X
321992	Prefabricated wood building manufacturing	2004.. 55 381	1 262 450	48 033	—	161	7 348	12	5
		2003.. 57 523	1 045 975	51 967	N	N	5 555	78	7
		2002.. 16 778	162 371	11 170	N	N	5 608	X	X
321999	All other miscellaneous wood product manufacturing	2004.. 111 326	1 692 224	77 402	933	1 273	33 923	18	12
		2003.. 79 008	956 525	56 821	N	N	22 187	2	5
		2002.. 77 717	961 247	57 712	N	N	20 005	X	X

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NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy					Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—	
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)	F		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)						
			A	B	C	D	E		F	C
322	Paper manufacturing	2004.. 7 569 947	74 105 951	3 269 234	42 074 412	8 484 296	4 300 713	1	1	
		2003.. 7 210 891	71 783 739	3 200 849	N	N	4 010 043	1	1	
		2002.. 6 666 256	71 435 421	3 083 699	N	N	3 582 557	X	X	
3221	Pulp, paper, and paperboard mills....	2004.. 6 201 829	59 042 849	2 449 032	41 825 089	D	3 752 798	1	1	
		2003.. 5 872 217	58 111 146	2 379 379	N	N	3 492 837	1	1	
		2002.. 5 456 442	58 052 157	2 296 360	N	N	3 160 082	X	X	
32211	Pulp mills	2004.. 311 681	1 997 907	85 803	4 649 096	D	225 878	1	2	
		2003.. 316 556	2 014 170	86 116	N	N	230 440	2	1	
		2002.. 271 491	1 916 218	81 889	N	N	189 602	X	X	
322110	Pulp mills	2004.. 311 681	1 997 907	85 803	4 649 096	D	225 878	1	2	
		2003.. 316 556	2 014 170	86 116	N	N	230 440	2	1	
		2002.. 271 491	1 916 218	81 889	N	N	189 602	X	X	
32212	Paper mills	2004.. 3 440 528	36 246 050	1 475 509	21 090 805	2 981 761	1 965 019	1	1	
		2003.. 3 225 942	35 914 330	1 439 806	N	N	1 786 137	1	1	
		2002.. 3 035 722	35 198 428	1 388 904	N	N	1 646 818	X	X	
32212M	Paper and newsprint mills	2004.. 3 440 528	36 246 050	1 475 509	21 090 805	2 981 761	1 965 019	1	1	
		2003.. 3 225 942	35 914 330	1 439 806	N	N	1 786 137	1	1	
		2002.. 3 035 722	35 198 428	1 388 904	N	N	1 646 818	X	X	
32213	Paperboard mills	2004.. 2 449 620	20 798 892	887 720	16 085 188	4 726 582	1 561 900	1	1	
		2003.. 2 329 719	20 182 646	853 458	N	N	1 476 261	1	1	
		2002.. 2 149 229	20 937 511	825 567	N	N	1 323 662	X	X	
322130	Paperboard mills	2004.. 2 449 620	20 798 892	887 720	16 085 188	4 726 582	1 561 900	1	1	
		2003.. 2 329 719	20 182 646	853 458	N	N	1 476 261	1	1	
		2002.. 2 149 229	20 937 511	825 567	N	N	1 323 662	X	X	
3222	Converted paper product manufacturing	2004.. 1 368 118	15 063 102	820 202	249 323	D	547 916	1	1	
		2003.. 1 338 675	13 672 592	821 470	N	N	517 205	1	1	
		2002.. 1 209 814	13 383 264	787 339	N	N	422 475	X	X	
32221	Paperboard container manufacturing	2004.. 696 392	7 025 620	412 638	D	A	283 754	1	1	
		2003.. 685 974	6 427 265	421 131	N	N	264 844	1	2	
		2002.. 618 428	6 293 766	403 314	N	N	215 114	X	X	
32221M	Paperboard container manufacturing	2004.. 696 392	7 025 620	412 638	D	A	283 754	1	1	
		2003.. 685 974	6 427 265	421 131	N	N	264 844	1	2	
		2002.. 618 428	6 293 766	403 314	N	N	215 114	X	X	
32222	Paper bag and coated and treated paper manufacturing	2004.. 341 231	3 546 944	183 358	D	D	157 873	2	2	
		2003.. 336 908	3 364 317	188 410	N	N	148 498	1	1	
		2002.. 306 562	3 275 461	179 575	N	N	126 987	X	X	
32222N	Coated and laminated paper and packaging manufacturing	2004.. 269 600	2 704 276	137 904	D	D	131 696	2	2	
		2003.. 265 920	2 600 442	142 970	N	N	122 950	1	1	
		2002.. 241 430	2 519 268	134 800	N	N	106 630	X	X	
32222P	Coated, uncoated, and multiwall bag and packaging manufacturing	2004.. 71 631	842 668	45 454	-	-	26 177	3	1	
		2003.. 70 987	763 875	45 440	N	N	25 547	3	2	
		2002.. 65 132	756 193	44 775	N	N	20 357	X	X	
32223	Stationery product manufacturing ..	2004.. 83 823	1 360 127	70 939	79	-	12 884	1	3	
		2003.. 78 152	1 026 024	67 071	N	N	11 081	1	5	
		2002.. 75 379	1 012 653	66 173	N	N	9 206	X	X	
32223M	Stationery product manufacturing	2004.. 83 823	1 360 127	70 939	79	-	12 884	1	3	
		2003.. 78 152	1 026 024	67 071	N	N	11 081	1	5	
		2002.. 75 379	1 012 653	66 173	N	N	9 206	X	X	
32229	Other converted paper product manufacturing	2004.. 246 672	3 130 411	153 267	D	D	93 405	2	3	
		2003.. 237 640	2 854 986	144 858	N	N	92 783	1	3	
		2002.. 209 445	2 801 384	138 277	N	N	71 168	X	X	
322291	Sanitary paper product manufacturing	2004.. 151 463	1 957 765	90 523	D	D	60 940	1	3	
		2003.. 150 733	1 928 897	87 715	N	N	63 018	1	1	
		2002.. 130 318	1 941 703	86 648	N	N	43 670	X	X	
322299	All other converted paper product manufacturing	2004.. 95 209	1 172 645	62 744	S	-	32 465	3	6	
		2003.. 86 907	926 090	57 142	N	N	29 765	2	10	
		2002.. 79 127	859 681	51 629	N	N	27 498	X	X	
323	Printing and related support activities ...	2004.. 1 305 020	17 630 151	969 714	25 223	9 506	335 306	1	1	
		2003.. 1 243 658	15 116 892	939 846	N	N	303 813	1	1	
		2002.. 1 178 357	14 731 304	912 151	N	N	266 206	X	X	
3231	Printing and related support activities ..	2004.. 1 305 020	17 630 151	969 714	25 223	9 506	335 306	1	1	
		2003.. 1 243 658	15 116 892	939 846	N	N	303 813	1	1	
		2002.. 1 178 357	14 731 304	912 151	N	N	266 206	X	X	
32311	Printing	2004.. 1 252 857	16 876 783	926 982	25 223	9 506	325 875	1	1	
		2003.. 1 187 903	14 504 507	895 872	N	N	292 032	1	1	
		2002.. 1 127 572	14 140 340	870 657	N	N	256 915	X	X	
32311M	Printing	2004.. 1 252 857	16 876 783	926 982	25 223	9 506	325 875	1	1	
		2003.. 1 187 903	14 504 507	895 872	N	N	292 032	1	1	
		2002.. 1 127 572	14 140 340	870 657	N	N	256 915	X	X	

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy				Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—	
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
			A	B	C	D		E	F
323	Printing and related support activities—Con.								
3231	Printing and related support activities—Con.								
32312	Support activities for printing	2004.. 52 163	753 368	42 732	—	—	9 430	3	7
		2003.. 55 755	612 386	43 974	N	N	11 781	9	11
		2002.. 50 785	590 964	41 494	N	N	9 291	X	X
32312M	Support activities for printing	2004.. 52 163	753 368	42 732	—	—	9 430	3	7
		2003.. 55 755	612 386	43 974	N	N	11 781	9	11
		2002.. 50 785	590 964	41 494	N	N	9 291	X	X
324	Petroleum and coal products manufacturing	2004.. 8 430 700	44 284 506	2 201 776	17 432 738	3 288 820	6 228 924	1	1
		2003.. 8 084 884	39 877 616	1 869 075	N	N	6 215 809	1	1
		2002.. 6 499 221	39 086 735	1 691 224	N	N	4 807 997	X	X
3241	Petroleum and coal products manufacturing	2004.. 8 430 700	44 284 506	2 201 776	17 432 738	3 288 820	6 228 924	1	1
		2003.. 8 084 884	39 877 616	1 869 075	N	N	6 215 809	1	1
		2002.. 6 499 221	39 086 735	1 691 224	N	N	4 807 997	X	X
32411	Petroleum refineries	2004.. 7 608 921	40 305 818	1 979 547	17 254 442	3 120 933	5 629 373	1	1
		2003.. 7 394 049	36 712 617	1 668 791	N	N	5 725 258	1	1
		2002.. 5 927 762	35 970 161	1 491 392	N	N	4 436 370	X	X
324110	Petroleum refineries	2004.. 7 608 921	40 305 818	1 979 547	17 254 442	3 120 933	5 629 373	1	1
		2003.. 7 394 049	36 712 617	1 668 791	N	N	5 725 258	1	1
		2002.. 5 927 762	35 970 161	1 491 392	N	N	4 436 370	X	X
32412	Asphalt paving, roofing, and saturated materials manufacturing	2004.. 694 237	2 981 222	168 013	3 398	7 565	526 224	2	2
		2003.. 568 946	2 238 491	149 133	N	N	419 814	2	2
		2002.. 459 293	2 117 547	145 667	N	N	313 626	X	X
324121	Asphalt paving mixture and block manufacturing	2004.. 539 301	1 975 573	112 162	3 398	474	427 139	3	2
		2003.. 443 550	1 403 502	101 085	N	N	342 465	2	2
		2002.. 354 111	1 342 054	99 599	N	N	254 512	X	X
324122	Asphalt shingle and coating materials manufacturing	2004.. 154 936	1 005 648	55 851	—	7 091	99 085	2	2
		2003.. 125 396	834 989	48 047	N	N	77 349	1	1
		2002.. 105 182	775 493	46 068	N	N	59 114	X	X
32419	Other petroleum and coal products manufacturing	2004.. 127 542	997 467	54 216	174 898	160 321	73 326	2	2
		2003.. 121 888	926 508	51 151	N	N	70 737	1	6
		2002.. 112 166	999 027	54 165	N	N	58 001	X	X
324191	Petroleum lubricating oil and grease manufacturing	2004.. 72 447	508 582	29 188	—	3 720	43 258	2	3
		2003.. 64 282	416 265	25 745	N	N	38 537	2	4
		2002.. 59 923	478 030	27 582	N	N	32 341	X	X
324199	All other petroleum and coal products manufacturing	2004.. 55 095	488 885	25 027	174 898	156 601	30 068	2	4
		2003.. 57 606	510 243	25 407	N	N	32 200	2	12
		2002.. 52 243	520 997	26 583	N	N	25 660	X	X
325	Chemical manufacturing	2004.. 17 184 901	147 676 853	7 023 470	36 782 556	6 193 459	10 161 431	1	1
		2003.. 16 702 045	158 644 564	7 215 250	N	N	9 486 795	7	1
		2002.. 13 794 471	148 278 356	6 106 237	N	N	7 688 234	X	X
3251	Basic chemical manufacturing	2004.. 10 372 501	90 188 469	4 027 432	18 626 388	3 225 476	6 345 069	1	1
		2003.. 9 520 287	90 156 547	3 733 408	N	N	5 786 879	1	1
		2002.. 8 135 203	91 330 767	3 347 786	N	N	4 787 417	X	X
32511	Petrochemical manufacturing	2004.. 2 354 594	5 721 528	305 469	5 259 362	D	2 049 125	1	1
		2003.. 1 945 793	5 158 053	261 659	N	N	1 684 134	1	1
		2002.. 1 374 038	5 365 790	201 304	N	N	1 172 734	X	X
325110	Petrochemical manufacturing	2004.. 2 354 594	5 721 528	305 469	5 259 362	D	2 049 125	1	1
		2003.. 1 945 793	5 158 053	261 659	N	N	1 684 134	1	1
		2002.. 1 374 038	5 365 790	201 304	N	N	1 172 734	X	X
32512	Industrial gas manufacturing	2004.. 1 002 989	22 026 212	888 693	10	—	114 296	3	9
		2003.. 972 900	21 250 856	874 218	N	N	98 682	2	4
		2002.. 875 419	19 288 466	768 284	N	N	107 135	X	X
325120	Industrial gas manufacturing	2004.. 1 002 989	22 026 212	888 693	10	—	114 296	3	9
		2003.. 972 900	21 250 856	874 218	N	N	98 682	2	4
		2002.. 875 419	19 288 466	768 284	N	N	107 135	X	X
32513	Synthetic dye and pigment manufacturing	2004.. 311 430	3 340 274	131 055	D	D	180 375	1	3
		2003.. 301 362	3 066 964	127 783	N	N	173 579	2	3
		2002.. 286 708	3 079 780	127 366	N	N	159 342	X	X
32513M	Synthetic dye and pigment manufacturing	2004.. 311 430	3 340 274	131 055	D	D	180 375	1	3
		2003.. 301 362	3 066 964	127 783	N	N	173 579	2	3
		2002.. 286 708	3 079 780	127 366	N	N	159 342	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

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			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
		A	B	C	D	E	F	C	F
325	Chemical manufacturing—Con.								
3251	Basic chemical manufacturing—Con.								
32518	Other basic inorganic chemical manufacturing	2004.. 2 256 258	26 550 628	1 279 373	D	832 467	976 885	1	1
		2003.. 2 101 272	33 527 610	1 258 417	N	N	842 855	1	1
		2002.. 1 963 915	38 019 124	1 233 045	N	N	730 870	X	X
325181	Alkalies and chlorine manufacturing	2004.. 1 027 294	14 143 698	487 236	D	D	540 057	1	1
		2003.. 847 644	14 163 203	428 903	N	N	418 741	1	1
		2002.. 731 954	12 054 470	394 280	N	N	337 674	X	X
325182	Carbon black manufacturing.....	2004.. 63 538	749 312	37 048	7 379	—	26 490	1	1
		2003.. 61 978	704 877	37 480	N	N	24 499	3	4
		2002.. 48 084	607 970	30 480	N	N	17 604	X	X
325188	All other basic inorganic chemical manufacturing	2004.. 1 165 427	11 657 618	755 089	D	D	410 339	1	1
		2003.. 1 191 649	18 659 530	792 035	N	N	399 615	1	3
		2002.. 1 183 877	25 356 684	808 285	N	N	375 592	X	X
32519	Other basic organic chemical manufacturing	2004.. 4 447 229	32 549 827	1 422 842	7 211 091	1 880 438	3 024 387	1	1
		2003.. 4 198 961	27 153 064	1 211 332	N	N	2 987 629	3	1
		2002.. 3 635 123	25 577 607	1 017 787	N	N	2 617 336	X	X
32519M	Other basic organic chemical manufacturing	2004.. 4 447 229	32 549 827	1 422 842	7 211 091	1 880 438	3 024 387	1	1
		2003.. 4 198 961	27 153 064	1 211 332	N	N	2 987 629	3	1
		2002.. 3 635 123	25 577 607	1 017 787	N	N	2 617 336	X	X
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	2004.. 3 589 545	26 351 828	1 384 366	12 600 039	1 370 321	2 205 179	1	1
		2003.. 3 441 309	27 035 403	1 321 723	N	N	2 119 586	1	1
		2002.. 2 751 326	28 429 370	1 182 990	N	N	1 568 336	X	X
32521	Resin and synthetic rubber manufacturing	2004.. 3 211 748	22 576 954	1 229 664	11 501 026	D	1 982 083	1	1
		2003.. 3 027 865	22 529 028	1 137 427	N	N	1 890 438	1	1
		2002.. 2 377 447	23 886 035	1 003 159	N	N	1 374 288	X	X
325211	Plastics material and resin manufacturing	2004.. 2 884 519	20 365 683	1 125 265	D	D	1 759 254	1	1
		2003.. 2 684 697	20 033 275	1 013 202	N	N	1 671 495	1	1
		2002.. 2 131 858	21 999 594	913 586	N	N	1 218 272	X	X
325212	Synthetic rubber manufacturing ..	2004.. 327 228	2 211 271	104 399	D	D	222 829	1	1
		2003.. 343 168	2 495 753	124 224	N	N	218 944	1	2
		2002.. 245 589	1 886 441	89 573	N	N	156 016	X	X
32522	Artificial and synthetic fibers and filaments manufacturing	2004.. 377 797	3 774 874	154 702	1 099 013	D	223 096	2	2
		2003.. 413 444	4 506 375	184 297	N	N	229 148	1	1
		2002.. 373 879	4 543 335	179 831	N	N	194 048	X	X
32522M	Artificial and synthetic fibers and filaments manufacturing	2004.. 377 797	3 774 874	154 702	1 099 013	D	223 096	2	2
		2003.. 413 444	4 506 375	184 297	N	N	229 148	1	1
		2002.. 373 879	4 543 335	179 831	N	N	194 048	X	X
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing ..	2004.. 858 088	7 191 036	333 411	2 779 795	1 070 832	524 678	1	1
		2003.. 871 598	6 866 965	320 444	N	N	551 154	1	4
		2002.. 778 246	6 384 486	280 808	N	N	497 438	X	X
32531	Fertilizer manufacturing.....	2004.. 728 182	5 884 004	268 579	2 779 795	1 070 832	459 603	1	1
		2003.. 754 896	5 737 757	260 678	N	N	494 218	1	4
		2002.. 687 859	5 278 740	228 694	N	N	459 165	X	X
325311	Nitrogenous fertilizer manufacturing	2004.. 523 546	3 487 675	151 292	D	D	372 254	1	2
		2003.. 582 066	3 550 406	154 405	N	N	427 662	1	5
		2002.. 524 907	3 222 610	130 200	N	N	394 707	X	X
325312	Phosphatic fertilizer manufacturing	2004.. 166 301	2 018 987	97 367	D	D	68 934	1	1
		2003.. 143 009	1 902 704	89 355	N	N	53 654	1	1
		2002.. 134 748	1 790 373	83 035	N	N	51 713	X	X
325314	Fertilizer (mixing only) manufacturing	2004.. 38 336	377 342	19 920	—	—	18 416	3	5
		2003.. 29 820	284 647	16 919	N	N	12 902	7	12
		2002.. 28 204	265 757	15 459	N	N	12 745	X	X
32532	Pesticide and other agricultural chemical manufacturing	2004.. 129 906	1 307 032	64 832	—	—	65 074	5	3
		2003.. 116 703	1 129 209	59 766	N	N	56 937	1	3
		2002.. 90 387	1 105 746	52 114	N	N	38 273	X	X
325320	Pesticide and other agricultural chemical manufacturing	2004.. 129 906	1 307 032	64 832	—	—	65 074	5	3
		2003.. 116 703	1 129 209	59 766	N	N	56 937	1	3
		2002.. 90 387	1 105 746	52 114	N	N	38 273	X	X

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Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

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			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
		A	B	C	D	E	F	C	F
325	Chemical manufacturing—Con.								
3254	Pharmaceutical and medicine manufacturing	2004.. 1 040 829	10 795 885	590 440	D	239 268	450 389	3	2
		2003.. 1 530 546	22 597 173	1 120 991	N	N	409 555	45	7
		2002.. 925 033	10 288 958	602 920	N	N	322 113	X	X
32541	Pharmaceutical and medicine manufacturing	2004.. 1 040 829	10 795 885	590 440	D	239 268	450 389	3	2
		2003.. 1 530 546	22 597 173	1 120 991	N	N	409 555	45	7
		2002.. 925 033	10 288 958	602 920	N	N	322 113	X	X
325411	Medicinal and botanical manufacturing	2004.. 190 963	1 611 957	84 365	D	D	106 598	1	1
		2003.. 177 934	1 471 025	82 273	N	N	95 660	3	1
		2002.. 155 940	1 386 222	79 782	N	N	76 158	X	X
325412	Pharmaceutical preparation manufacturing	2004.. 713 998	7 601 952	409 411	812 686	D	304 587	4	2
		2003.. 1 223 982	19 730 017	946 217	N	N	277 764	54	10
		2002.. 614 075	6 678 491	401 883	N	N	212 192	X	X
325413	In-vitro diagnostic substance manufacturing	2004.. 53 890	667 657	43 970	25	—	9 920	1	2
		2003.. 48 694	547 113	39 582	N	N	9 112	4	1
		2002.. 75 020	1 144 014	66 292	N	N	8 728	X	X
325414	Biological product (except diagnostic) manufacturing	2004.. 81 978	914 319	52 694	D	—	29 284	3	2
		2003.. 79 936	849 018	52 917	N	N	27 019	1	2
		2002.. 79 998	1 080 231	54 963	N	N	25 035	X	X
3255	Paint, coating, and adhesive manufacturing	2004.. 240 759	2 714 689	148 383	157	S	92 376	1	2
		2003.. 252 159	2 639 088	160 507	N	N	91 652	2	3
		2002.. 228 361	2 492 744	153 863	N	N	74 498	X	X
32551	Paint and coating manufacturing ...	2004.. 143 492	1 670 875	90 729	—	S	52 764	2	1
		2003.. 150 008	1 698 401	100 279	N	N	49 729	1	2
		2002.. 145 191	1 672 307	101 910	N	N	43 281	X	X
325510	Paint and coating manufacturing .	2004.. 143 492	1 670 875	90 729	—	S	52 764	2	1
		2003.. 150 008	1 698 401	100 279	N	N	49 729	1	2
		2002.. 145 191	1 672 307	101 910	N	N	43 281	X	X
32552	Adhesive manufacturing	2004.. 97 267	1 043 813	57 654	157	—	39 613	1	3
		2003.. 102 151	940 687	60 228	N	N	41 923	5	6
		2002.. 83 170	820 437	51 953	N	N	31 217	X	X
325520	Adhesive manufacturing	2004.. 97 267	1 043 813	57 654	157	—	39 613	1	3
		2003.. 102 151	940 687	60 228	N	N	41 923	5	6
		2002.. 83 170	820 437	51 953	N	N	31 217	X	X
3256	Soap, cleaning compound, and toilet preparation manufacturing	2004.. 473 724	4 119 015	217 240	D	D	256 484	2	1
		2003.. 464 143	3 670 767	220 763	N	N	243 380	2	1
		2002.. 410 508	3 733 245	224 498	N	N	186 010	X	X
32561	Soap and cleaning compound manufacturing	2004.. 358 541	2 736 080	132 850	D	D	225 691	1	1
		2003.. 333 306	2 169 842	126 350	N	N	206 956	2	1
		2002.. 294 110	2 490 237	139 555	N	N	154 555	X	X
32561M	Soap and cleaning compound manufacturing	2004.. 358 541	2 736 080	132 850	D	D	225 691	1	1
		2003.. 333 306	2 169 842	126 350	N	N	206 956	2	1
		2002.. 294 110	2 490 237	139 555	N	N	154 555	X	X
32562	Toilet preparation manufacturing ...	2004.. 115 183	1 382 935	84 390	D	D	30 793	4	6
		2003.. 130 837	1 500 925	94 414	N	N	36 424	4	4
		2002.. 116 398	1 243 008	84 943	N	N	31 455	X	X
325620	Toilet preparation manufacturing .	2004.. 115 183	1 382 935	84 390	D	D	30 793	4	6
		2003.. 130 837	1 500 925	94 414	N	N	36 424	4	4
		2002.. 116 398	1 243 008	84 943	N	N	31 455	X	X
3259	Other chemical product and preparation manufacturing	2004.. 609 454	6 315 932	322 197	D	D	287 257	1	1
		2003.. 622 002	5 678 621	337 413	N	N	284 589	1	1
		2002.. 565 794	5 618 786	313 372	N	N	252 422	X	X
32591	Printing ink manufacturing	2004.. 28 750	355 935	20 103	—	771	8 646	2	3
		2003.. 25 684	289 573	20 095	N	N	5 589	4	13
		2002.. 27 645	285 623	20 571	N	N	7 074	X	X
325910	Printing ink manufacturing	2004.. 28 750	355 935	20 103	—	771	8 646	2	3
		2003.. 25 684	289 573	20 095	N	N	5 589	4	13
		2002.. 27 645	285 623	20 571	N	N	7 074	X	X
32592	Explosives manufacturing	2004.. 19 632	297 395	10 552	D	D	9 080	12	3
		2003.. 17 227	165 823	8 290	N	N	8 936	4	7
		2002.. 15 272	165 511	8 330	N	N	6 942	X	X
325920	Explosives manufacturing	2004.. 19 632	297 395	10 552	D	D	9 080	12	3
		2003.. 17 227	165 823	8 290	N	N	8 936	4	7
		2002.. 15 272	165 511	8 330	N	N	6 942	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy				Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—	
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
			A	B	C	D		E	F
325	Chemical manufacturing—Con.								
3259	Other chemical product and preparation manufacturing—Con.								
32599	All other chemical product and preparation manufacturing	2004.. 561 073	5 662 603	291 542	891 064	D	269 531	1	1
		2003.. 579 091	5 223 225	309 028	N	N	270 064	1	1
		2002.. 522 877	5 167 652	284 471	N	N	238 406	X	X
325991	Custom compounding of purchased resins	2004.. 158 654	2 450 737	127 961	—	212	30 693	2	4
		2003.. 159 490	2 026 485	126 553	N	N	32 937	1	1
		2002.. 146 752	2 055 774	118 185	N	N	28 567	X	X
32599N	All other miscellaneous chemical product and preparation manufacturing (including photographic)	2004.. 402 419	3 211 866	163 581	891 064	D	238 838	1	1
		2003.. 419 602	3 196 740	182 475	N	N	237 127	1	1
		2002.. 376 125	3 111 878	166 286	N	N	209 839	X	X
326	Plastics and rubber products manufacturing	2004.. 4 186 687	64 264 951	3 236 560	673 125	D	950 127	2	1
		2003.. 3 984 793	55 594 756	3 094 734	N	N	890 059	1	1
		2002.. 3 749 783	54 062 079	2 999 042	N	N	750 741	X	X
3261	Plastics product manufacturing	2004.. 3 449 696	53 773 365	2 780 550	D	A	669 146	2	1
		2003.. 3 262 394	46 125 206	2 633 379	N	N	629 015	1	2
		2002.. 3 073 943	44 716 276	2 545 998	N	N	527 945	X	X
32611	Unsupported plastics film, sheet, and bag manufacturing	2004.. 738 427	11 378 059	557 844	D	D	180 583	1	1
		2003.. 735 346	10 699 688	560 357	N	N	174 988	1	2
		2002.. 684 884	10 119 394	535 559	N	N	149 325	X	X
326111	Plastics bag manufacturing	2004.. 160 102	2 784 407	139 514	D	D	20 588	2	4
		2003.. 158 047	2 680 325	138 335	N	N	19 711	1	6
		2002.. 150 517	2 446 951	132 876	N	N	17 641	X	X
326112	Plastics packaging film and sheet (including laminated) manufacturing	2004.. 145 584	2 070 764	103 737	D	—	41 847	1	2
		2003.. 142 636	1 925 821	103 926	N	N	38 709	1	4
		2002.. 137 592	1 975 354	103 958	N	N	33 634	X	X
326113	Unlaminated plastics film and sheet (except packaging) manufacturing	2004.. 432 741	6 522 888	314 593	D	D	118 148	2	1
		2003.. 434 664	6 093 542	318 096	N	N	116 568	2	2
		2002.. 396 775	5 697 089	298 725	N	N	98 050	X	X
32612	Plastics pipe, pipe fitting, and unsupported profile shape manufacturing	2004.. 301 530	4 987 329	263 862	59	D	37 669	1	5
		2003.. 277 909	4 005 517	242 779	N	N	35 130	1	6
		2002.. 263 509	4 058 653	235 504	N	N	28 005	X	X
326121	Unsupported plastics profile shape manufacturing	2004.. 157 131	2 279 310	126 034	—	D	31 096	1	6
		2003.. 145 853	1 788 565	117 945	N	N	27 907	2	7
		2002.. 135 991	1 922 511	115 430	N	N	20 561	X	X
326122	Plastics pipe and pipe fitting manufacturing	2004.. 144 400	2 708 019	137 828	59	—	6 572	2	10
		2003.. 132 056	2 216 952	124 833	N	N	7 223	1	7
		2002.. 127 518	2 136 142	120 074	N	N	7 444	X	X
32613	Laminated plastics plate, sheet, and shape manufacturing	2004.. 62 556	602 966	31 869	15	34	30 687	2	3
		2003.. 62 132	582 516	32 933	N	N	29 199	1	1
		2002.. 55 500	500 860	30 341	N	N	25 159	X	X
326130	Laminated plastics plate, sheet, and shape manufacturing	2004.. 62 556	602 966	31 869	15	34	30 687	2	3
		2003.. 62 132	582 516	32 933	N	N	29 199	1	1
		2002.. 55 500	500 860	30 341	N	N	25 159	X	X
32614	Polystyrene foam product manufacturing	2004.. 226 177	2 434 050	134 161	D	S	92 015	8	3
		2003.. 203 585	2 050 837	118 458	N	N	85 127	5	9
		2002.. 190 794	1 999 686	116 251	N	N	74 543	X	X
326140	Polystyrene foam product manufacturing	2004.. 226 177	2 434 050	134 161	D	S	92 015	8	3
		2003.. 203 585	2 050 837	118 458	N	N	85 127	5	9
		2002.. 190 794	1 999 686	116 251	N	N	74 543	X	X
32615	Urethane and other foam product (except polystyrene) manufacturing	2004.. 98 500	1 184 762	65 494	D	6	33 006	4	2
		2003.. 85 337	892 003	55 019	N	N	30 318	3	7
		2002.. 82 413	923 898	56 883	N	N	25 530	X	X
326150	Urethane and other foam product (except polystyrene) manufacturing	2004.. 98 500	1 184 762	65 494	D	6	33 006	4	2
		2003.. 85 337	892 003	55 019	N	N	30 318	3	7
		2002.. 82 413	923 898	56 883	N	N	25 530	X	X

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Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

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			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
			A	B	C	D		E	F
326	Plastics and rubber products manufacturing—Con.								
3261	Plastics product manufacturing—Con.								
32616	Plastics bottle manufacturing	2004.. 316 159	5 816 276	301 773	15 551	D	14 386	1	2
		2003.. 325 346	5 466 864	310 375	N	N	14 971	1	2
		2002.. 316 353	5 441 959	301 913	N	N	14 440	X	X
326160	Plastics bottle manufacturing	2004.. 316 159	5 816 276	301 773	15 551	D	14 386	1	2
		2003.. 325 346	5 466 864	310 375	N	N	14 971	1	2
		2002.. 316 353	5 441 959	301 913	N	N	14 440	X	X
32619	Other plastics product manufacturing	2004.. 1 706 347	27 369 923	1 425 547	124 013	S	280 800	4	3
		2003.. 1 572 738	22 427 780	1 313 457	N	N	259 281	1	2
		2002.. 1 480 490	21 671 826	1 269 547	N	N	210 943	X	X
32619M	Other plastics product manufacturing	2004.. 1 706 347	27 369 923	1 425 547	124 013	S	280 800	4	3
		2003.. 1 572 738	22 427 780	1 313 457	N	N	259 281	1	2
		2002.. 1 480 490	21 671 826	1 269 547	N	N	210 943	X	X
3262	Rubber product manufacturing	2004.. 736 991	10 491 586	456 010	D	D	280 981	1	1
		2003.. 722 399	9 469 550	461 355	N	N	261 044	1	1
		2002.. 675 840	9 345 803	453 044	N	N	222 796	X	X
32621	Tire manufacturing	2004.. 373 696	5 349 118	211 326	D	D	162 370	1	1
		2003.. 362 591	5 079 180	210 852	N	N	151 739	1	1
		2002.. 331 220	5 080 689	205 114	N	N	126 106	X	X
32621M	Tire manufacturing	2004.. 373 696	5 349 118	211 326	D	D	162 370	1	1
		2003.. 362 591	5 079 180	210 852	N	N	151 739	1	1
		2002.. 331 220	5 080 689	205 114	N	N	126 106	X	X
32622	Rubber and plastics hoses and belting manufacturing	2004.. 85 984	1 137 908	54 544	—	—	31 440	2	3
		2003.. 82 378	965 795	53 444	N	N	28 934	2	2
		2002.. 74 706	945 421	51 095	N	N	23 611	X	X
326220	Rubber and plastics hoses and belting manufacturing	2004.. 85 984	1 137 908	54 544	—	—	31 440	2	3
		2003.. 82 378	965 795	53 444	N	N	28 934	2	2
		2002.. 74 706	945 421	51 095	N	N	23 611	X	X
32629	Other rubber product manufacturing	2004.. 277 311	4 004 559	190 140	—	D	87 171	2	3
		2003.. 277 430	3 424 575	197 059	N	N	80 370	2	3
		2002.. 269 914	3 319 693	196 835	N	N	73 079	X	X
32629M	Other rubber product manufacturing	2004.. 277 311	4 004 559	190 140	—	D	87 171	2	3
		2003.. 277 430	3 424 575	197 059	N	N	80 370	2	3
		2002.. 269 914	3 319 693	196 835	N	N	73 079	X	X
327	Nonmetallic mineral product manufacturing	2004.. 5 496 380	43 782 924	2 163 794	396 171	15 533	3 332 586	1	1
		2003.. 5 073 709	40 943 201	2 053 884	N	N	3 019 825	1	1
		2002.. 4 667 773	40 786 051	1 988 316	N	N	2 679 457	X	X
3271	Clay product and refractory manufacturing	2004.. 573 919	3 308 027	166 431	54 831	—	407 488	1	2
		2003.. 563 508	2 955 413	168 413	N	N	395 095	1	2
		2002.. 514 518	2 962 968	167 858	N	N	346 660	X	X
32711	Pottery, ceramics, and plumbing fixture manufacturing	2004.. 135 558	974 563	52 263	53 333	—	83 295	2	3
		2003.. 135 753	911 642	53 306	N	N	82 447	1	1
		2002.. 138 334	980 103	56 919	N	N	81 415	X	X
327111	Vitreous china plumbing fixture and china and earthenware bathroom accessories manufacturing	2004.. 44 098	224 274	10 580	D	—	33 518	5	3
		2003.. 45 549	232 211	11 007	N	N	34 542	2	2
		2002.. 46 810	252 791	12 235	N	N	34 575	X	X
327112	Vitreous china, fine earthenware, and other pottery product manufacturing	2004.. 45 220	272 479	15 688	D	—	29 531	3	7
		2003.. 40 919	246 175	15 763	N	N	25 156	3	3
		2002.. 41 154	249 552	15 751	N	N	25 403	X	X
327113	Porcelain electrical supply manufacturing	2004.. 46 241	477 809	25 995	D	—	20 246	4	3
		2003.. 49 285	433 255	26 536	N	N	22 749	2	1
		2002.. 50 370	477 760	28 933	N	N	21 437	X	X
32712	Clay building material and refractories manufacturing	2004.. 438 361	2 333 464	114 168	1 498	—	324 193	1	2
		2003.. 427 755	2 043 771	115 107	N	N	312 648	2	3
		2002.. 376 184	1 982 865	110 939	N	N	265 245	X	X
327121	Brick and structural clay tile manufacturing	2004.. 268 563	1 159 758	54 645	30	—	213 918	2	3
		2003.. 250 081	937 614	50 943	N	N	199 139	3	2
		2002.. 221 586	884 472	50 218	N	N	171 368	X	X
327122	Ceramic wall and floor tile manufacturing	2004.. 62 971	370 970	19 965	—	—	43 006	1	4
		2003.. 66 372	427 316	23 937	N	N	42 435	1	2
		2002.. 60 637	426 217	23 035	N	N	37 602	X	X

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Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

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			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
			A	B	C	D		E	F
327	Nonmetallic mineral product manufacturing—Con.								
3271	Clay product and refractory manufacturing—Con.								
32712	Clay building material and refractories manufacturing—Con.								
327123	Other structural clay product manufacturing	2004.. 18 366	74 734	4 840	—	—	13 526	2	2
		2003.. 19 129	63 439	5 282	N	N	13 847	1	1
		2002.. 18 836	61 146	4 980	N	N	13 856	X	X
32712N	Refractory manufacturing	2004.. 88 461	728 002	34 718	1 468	—	53 743	2	3
		2003.. 92 173	615 401	34 946	N	N	57 227	4	12
		2002.. 75 125	611 030	32 706	N	N	42 419	X	X
3272	Glass and glass product manufacturing	2004.. 1 598 486	12 420 880	624 541	D	D	973 945	1	1
		2003.. 1 475 846	13 040 923	616 442	N	N	859 404	1	1
		2002.. 1 338 568	12 841 219	589 212	N	N	749 356	X	X
32721	Glass and glass product manufacturing	2004.. 1 598 486	12 420 880	624 541	D	D	973 945	1	1
		2003.. 1 475 846	13 040 923	616 442	N	N	859 404	1	1
		2002.. 1 338 568	12 841 219	589 212	N	N	749 356	X	X
327211	Flat glass manufacturing	2004.. 443 334	1 937 440	111 974	—	—	331 360	1	1
		2003.. 352 879	2 394 406	101 338	N	N	251 541	1	2
		2002.. 325 010	2 261 557	94 601	N	N	230 409	X	X
327212	Other pressed and blown glass and glassware manufacturing ..	2004.. 385 240	3 215 994	144 614	D	D	240 625	2	4
		2003.. 376 370	3 456 153	157 576	N	N	218 795	1	1
		2002.. 361 467	3 603 762	158 972	N	N	202 495	X	X
327213	Glass container manufacturing ..	2004.. 526 043	3 840 779	187 546	—	—	338 497	2	2
		2003.. 511 204	3 944 297	185 411	N	N	325 793	1	2
		2002.. 434 738	3 970 966	177 053	N	N	257 685	X	X
327215	Glass product manufacturing made of purchased glass	2004.. 243 869	3 426 667	180 406	—	D	63 463	1	4
		2003.. 235 393	3 246 066	172 117	N	N	63 276	1	2
		2002.. 217 353	3 004 934	158 586	N	N	58 767	X	X
3273	Cement and concrete product manufacturing	2004.. 1 779 866	17 472 333	865 990	D	10 498	913 877	1	1
		2003.. 1 646 322	15 517 772	799 522	N	N	846 799	2	1
		2002.. 1 592 480	15 409 735	766 160	N	N	826 320	X	X
32731	Cement manufacturing	2004.. 1 222 925	12 910 870	615 173	D	D	607 752	1	1
		2003.. 1 160 479	12 543 398	590 178	N	N	570 301	1	1
		2002.. 1 114 897	12 286 667	548 957	N	N	565 940	X	X
327310	Cement manufacturing	2004.. 1 222 925	12 910 870	615 173	D	D	607 752	1	1
		2003.. 1 160 479	12 543 398	590 178	N	N	570 301	1	1
		2002.. 1 114 897	12 286 667	548 957	N	N	565 940	X	X
32732	Ready-mix concrete manufacturing.	2004.. 322 020	2 302 243	120 294	S	D	201 727	7	4
		2003.. 284 926	1 566 630	109 542	N	N	175 384	2	3
		2002.. 264 689	1 425 213	100 551	N	N	164 138	X	X
327320	Ready-mix concrete manufacturing	2004.. 322 020	2 302 243	120 294	S	D	201 727	7	4
		2003.. 284 926	1 566 630	109 542	N	N	175 384	2	3
		2002.. 264 689	1 425 213	100 551	N	N	164 138	X	X
32733	Concrete pipe, brick, and block manufacturing	2004.. 114 190	1 095 641	61 590	573	—	52 600	2	3
		2003.. 81 969	508 808	38 360	N	N	43 610	40	2
		2002.. 93 987	780 294	53 640	N	N	40 347	X	X
32733M	Concrete pipe, brick, and block manufacturing	2004.. 114 190	1 095 641	61 590	573	—	52 600	2	3
		2003.. 81 969	508 808	38 360	N	N	43 610	40	2
		2002.. 93 987	780 294	53 640	N	N	40 347	X	X
32739	Other concrete product manufacturing	2004.. 120 730	1 163 578	68 933	D	S	51 798	1	3
		2003.. 118 947	898 935	61 442	N	N	57 505	2	2
		2002.. 118 907	917 561	63 012	N	N	55 895	X	X
327390	Other concrete product manufacturing	2004.. 120 730	1 163 578	68 933	D	S	51 798	1	3
		2003.. 118 947	898 935	61 442	N	N	57 505	2	2
		2002.. 118 907	917 561	63 012	N	N	55 895	X	X
3274	Lime and gypsum product manufacturing	2004.. 815 381	3 599 035	166 909	D	—	648 473	1	1
		2003.. 713 620	3 170 665	159 200	N	N	554 420	1	2
		2002.. 601 012	2 903 246	148 608	N	N	452 404	X	X
32741	Lime manufacturing	2004.. 291 089	1 790 066	68 569	—	—	222 520	1	1
		2003.. 223 080	1 356 329	58 207	N	N	164 873	1	2
		2002.. 214 677	1 238 556	56 708	N	N	157 969	X	X
327410	Lime manufacturing	2004.. 291 089	1 790 066	68 569	—	—	222 520	1	1
		2003.. 223 080	1 356 329	58 207	N	N	164 873	1	2
		2002.. 214 677	1 238 556	56 708	N	N	157 969	X	X

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			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
		A	B	C	D	E	F	C	F
327	Nonmetallic mineral product manufacturing—Con.								
3274	Lime and gypsum product manufacturing—Con.								
32742	Gypsum product manufacturing	2004.. 524 293	1 808 969	98 340	D	—	425 953	1	1
		2003.. 490 540	1 814 336	100 992	N	N	389 548	2	2
		2002.. 386 335	1 664 690	91 900	N	N	294 435	X	X
327420	Gypsum product manufacturing ..	2004.. 524 293	1 808 969	98 340	D	—	425 953	1	1
		2003.. 490 540	1 814 336	100 992	N	N	389 548	2	2
		2002.. 386 335	1 664 690	91 900	N	N	294 435	X	X
3279	Other nonmetallic mineral product manufacturing	2004.. 728 727	6 982 650	339 923	D	D	388 804	2	4
		2003.. 674 413	6 258 428	310 306	N	N	364 107	1	1
		2002.. 621 195	6 668 883	316 478	N	N	304 717	X	X
32791	Abrasive product manufacturing ...	2004.. 74 297	862 880	45 100	D	—	29 197	3	5
		2003.. 70 635	768 629	43 110	N	N	27 525	3	5
		2002.. 83 946	1 219 789	57 159	N	N	26 787	X	X
327910	Abrasive product manufacturing .	2004.. 74 297	862 880	45 100	D	—	29 197	3	5
		2003.. 70 635	768 629	43 110	N	N	27 525	3	5
		2002.. 83 946	1 219 789	57 159	N	N	26 787	X	X
32799	All other nonmetallic mineral product manufacturing	2004.. 654 429	6 119 769	294 823	1 129	D	359 607	2	4
		2003.. 603 778	5 489 799	267 196	N	N	336 582	1	1
		2002.. 537 249	5 449 094	259 319	N	N	277 930	X	X
327991	Cut stone and stone product manufacturing	2004.. 41 477	516 134	27 083	D	A	14 394	4	10
		2003.. 37 020	374 429	24 600	N	N	12 420	2	3
		2002.. 33 844	352 920	23 299	N	N	10 545	X	X
327992	Ground or treated mineral and earth manufacturing	2004.. 144 890	1 214 719	60 185	D	D	84 705	4	8
		2003.. 154 540	1 233 930	62 713	N	N	91 827	2	2
		2002.. 126 255	1 087 705	55 473	N	N	70 782	X	X
327993	Mineral wool manufacturing	2004.. 423 484	4 035 156	188 861	—	D	234 623	3	5
		2003.. 373 686	3 608 626	162 932	N	N	210 754	1	1
		2002.. 340 634	3 711 835	163 089	N	N	177 545	X	X
327999	All other miscellaneous nonmetallic mineral product manufacturing	2004.. 44 579	353 760	18 695	—	—	25 885	3	4
		2003.. 38 532	272 814	16 950	N	N	21 582	8	4
		2002.. 36 516	296 634	17 458	N	N	19 058	X	X
331	Primary metal manufacturing	2004.. 10 417 030	128 178 803	5 029 376	4 538 967	197 474	5 387 655	1	1
		2003.. 8 898 623	125 616 898	4 610 770	N	N	4 287 853	1	1
		2002.. 8 036 986	131 993 009	4 620 262	N	N	3 416 724	X	X
3311	Iron and steel mills and ferroalloy manufacturing	2004.. 5 644 320	55 286 640	2 160 953	2 933 543	D	3 483 367	1	2
		2003.. 4 458 240	52 864 567	1 883 954	N	N	2 574 286	1	1
		2002.. 3 822 252	56 078 807	1 860 530	N	N	1 961 722	X	X
33111	Iron and steel mills and ferroalloy manufacturing	2004.. 5 644 320	55 286 640	2 160 953	2 933 543	D	3 483 367	1	2
		2003.. 4 458 240	52 864 567	1 883 954	N	N	2 574 286	1	1
		2002.. 3 822 252	56 078 807	1 860 530	N	N	1 961 722	X	X
33111M	Iron and steel mills and ferroalloy manufacturing	2004.. 5 644 320	55 286 640	2 160 953	2 933 543	D	3 483 367	1	2
		2003.. 4 458 240	52 864 567	1 883 954	N	N	2 574 286	1	1
		2002.. 3 822 252	56 078 807	1 860 530	N	N	1 961 722	X	X
3312	Steel product manufacturing from purchased steel	2004.. 429 579	5 546 728	252 242	1	—	177 337	2	3
		2003.. 389 709	4 317 851	236 952	N	N	152 756	2	3
		2002.. 376 521	4 368 394	233 775	N	N	142 746	X	X
33121	Iron and steel pipe and tube manufacturing from purchased steel	2004.. 124 761	1 471 371	77 458	1	—	47 303	1	2
		2003.. 119 266	1 285 102	77 058	N	N	42 207	2	3
		2002.. 113 047	1 289 365	76 017	N	N	37 030	X	X
331210	Iron and steel pipe and tube manufacturing from purchased steel	2004.. 124 761	1 471 371	77 458	1	—	47 303	1	2
		2003.. 119 266	1 285 102	77 058	N	N	42 207	2	3
		2002.. 113 047	1 289 365	76 017	N	N	37 030	X	X
33122	Rolling and drawing of purchased steel	2004.. 304 818	4 075 357	174 784	—	—	130 034	2	4
		2003.. 270 443	3 032 750	159 894	N	N	110 549	2	5
		2002.. 263 474	3 079 029	157 758	N	N	105 716	X	X
33122M	Rolling and drawing of purchased steel	2004.. 304 818	4 075 357	174 784	—	—	130 034	2	4
		2003.. 270 443	3 032 750	159 894	N	N	110 549	2	5
		2002.. 263 474	3 079 029	157 758	N	N	105 716	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy				Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—	
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
		A	B	C	D	E	F	C	F
331	Primary metal manufacturing—Con.								
3313	Alumina and aluminum production and processing	2004.. 2 230 916	38 156 336	1 362 412	D	—	868 504	1	1
		2003.. 2 115 598	43 227 329	1 336 025	N	N	779 573	1	1
		2002.. 1 945 466	45 791 105	1 343 581	N	N	601 885	X	X
33131	Alumina and aluminum production and processing	2004.. 2 230 916	38 156 336	1 362 412	D	—	868 504	1	1
		2003.. 2 115 598	43 227 329	1 336 025	N	N	779 573	1	1
		2002.. 1 945 466	45 791 105	1 343 581	N	N	601 885	X	X
331311	Alumina refining	2004.. 198 879	255 993	12 282	D	—	186 597	1	1
		D	235 651	11 515	N	N	D	1	S
		2002.. 124 328	231 302	13 227	N	N	111 101	X	X
331312	Primary aluminum production....	2004.. 1 178 594	29 663 613	1 015 520	D	—	163 073	1	1
		2003.. 1 164 560	35 985 943	1 020 606	N	N	143 954	1	1
		2002.. 1 112 034	38 039 452	1 017 010	N	N	95 024	X	X
331314	Secondary smelting and alloying of aluminum	2004.. 164 197	1 323 122	54 091	—	—	110 106	16	5
		D	1 111 281	45 317	N	N	D	1	S
		2002.. 127 244	1 316 246	48 550	N	N	78 694	X	X
331316	Aluminum extruded product manufacturing	2004.. 207 313	1 955 172	98 292	—	—	109 020	3	2
		2003.. 194 559	1 636 051	95 411	N	N	99 148	1	1
		2002.. 202 318	1 881 776	99 712	N	N	102 606	X	X
33131N	Aluminum rolling and drawing ...	2004.. 481 933	4 958 434	182 226	—	—	299 707	1	1
		2003.. 411 859	4 258 402	163 176	N	N	248 683	1	1
		2002.. 379 542	4 322 329	165 082	N	N	214 460	X	X
3314	Nonferrous metal (except aluminum) production and processing	2004.. 759 438	11 004 328	460 042	D	D	299 396	1	1
		2003.. 676 320	8 999 275	394 164	N	N	282 155	2	1
		2002.. 662 498	9 360 277	415 206	N	N	247 292	X	X
33141	Nonferrous metal (except aluminum) smelting and refining ..	2004.. 288 384	5 231 345	180 856	D	D	107 528	2	1
		2003.. 237 124	3 856 245	127 135	N	N	109 989	6	1
		2002.. 235 766	4 074 567	140 975	N	N	94 791	X	X
331411	Primary smelting and refining of copper	2004.. 70 194	523 245	20 659	D	D	49 535	1	1
		2003.. 62 954	489 186	16 822	N	N	46 132	1	1
		2002.. 86 453	D	41 554	N	N	44 899	X	X
331419	Primary smelting and refining of nonferrous metal (except copper and aluminum)	2004.. 218 190	4 708 100	160 197	D	D	57 993	2	1
		2003.. 174 171	3 367 059	110 313	N	N	63 857	7	1
		2002.. 149 313	D	99 421	N	N	49 892	X	X
33142	Copper rolling, drawing, extruding, and alloying	2004.. 244 720	2 969 127	151 723	D	—	92 998	2	3
		2003.. 228 987	2 730 837	142 703	N	N	86 284	1	1
		2002.. 221 211	2 907 054	151 250	N	N	69 961	X	X
33142M	Copper rolling, drawing, extruding, and alloying	2004.. 244 720	2 969 127	151 723	D	—	92 998	2	3
		2003.. 228 987	2 730 837	142 703	N	N	86 284	1	1
		2002.. 221 211	2 907 054	151 250	N	N	69 961	X	X
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying	2004.. 226 334	2 803 856	127 464	—	—	98 870	1	1
		2003.. 210 208	2 412 193	124 327	N	N	85 882	1	2
		2002.. 205 521	2 378 656	122 981	N	N	82 540	X	X
33149M	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying	2004.. 226 334	2 803 856	127 464	—	—	98 870	1	1
		2003.. 210 208	2 412 193	124 327	N	N	85 882	1	2
		2002.. 205 521	2 378 656	122 981	N	N	82 540	X	X
3315	Foundries	2004.. 1 352 778	18 184 771	793 727	—	—	559 051	1	1
		2003.. 1 258 757	16 207 877	759 675	N	N	499 082	1	4
		2002.. 1 230 249	16 394 426	767 170	N	N	463 079	X	X
33151	Ferrous metal foundries	2004.. 923 332	13 918 196	580 255	—	—	343 077	1	1
		2003.. 857 236	12 568 920	544 027	N	N	313 209	1	2
		2002.. 841 833	12 475 644	553 255	N	N	288 578	X	X
33151M	Ferrous metal foundries	2004.. 923 332	13 918 196	580 255	—	—	343 077	1	1
		2003.. 857 236	12 568 920	544 027	N	N	313 209	1	2
		2002.. 841 833	12 475 644	553 255	N	N	288 578	X	X
33152	Nonferrous metal foundries	2004.. 429 446	4 266 575	213 472	—	—	215 975	1	2
		2003.. 401 521	3 638 957	215 648	N	N	185 873	3	11
		2002.. 388 416	3 918 782	213 915	N	N	174 501	X	X
33152N	Aluminum foundries	2004.. 318 761	3 016 030	144 224	—	—	174 537	1	2
		2003.. 298 385	2 550 366	147 918	N	N	150 467	4	14
		2002.. 288 387	2 841 546	147 175	N	N	141 212	X	X
33152P	Foundries not aluminum	2004.. 110 685	1 250 546	69 247	—	—	41 438	2	4
		2003.. 103 136	1 088 591	67 730	N	N	35 406	2	3
		2002.. 100 029	1 077 236	66 740	N	N	33 289	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy				Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—		
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F	
			Quantity (1,000 kWh)	Cost (\$1,000)						
			A	B	C	D		E	F	C
332	Fabricated metal product manufacturing	2004..	4 127 504	49 720 836	2 647 098	336 736	13 858	1 480 407	1	1
		2003..	4 033 902	42 362 395	2 592 455	N	N	1 441 447	1	1
		2002..	3 782 286	40 898 483	2 523 153	N	N	1 259 133	X	X
3321	Forging and stamping	2004..	566 308	6 329 355	333 609	10 739	—	232 699	4	2
		2003..	517 373	4 854 243	301 748	N	N	215 625	1	1
		2002..	487 207	4 919 783	295 972	N	N	191 235	X	X
33211	Forging and stamping	2004..	566 308	6 329 355	333 609	10 739	—	232 699	4	2
		2003..	517 373	4 854 243	301 748	N	N	215 625	1	1
		2002..	487 207	4 919 783	295 972	N	N	191 235	X	X
332114	Custom roll forming	2004..	66 959	747 531	38 841	—	—	28 117	19	2
		2003..	54 604	455 116	29 478	N	N	25 126	2	2
		2002..	51 065	439 429	29 068	N	N	21 997	X	X
332117	Powder metallurgy parts manufacturing	2004..	39 939	626 874	28 238	—	—	11 701	2	7
		2003..	41 860	472 022	28 437	N	N	13 423	2	11
		2002..	42 458	651 299	28 836	N	N	13 622	X	X
33211N	Forging	2004..	294 879	2 954 744	156 603	523	—	138 275	7	3
		2003..	267 480	2 337 731	139 354	N	N	128 126	1	2
		2002..	249 272	2 313 213	137 939	N	N	111 333	X	X
33211P	Crown, closure, and metal stamping manufacturing	2004..	164 532	2 000 207	109 926	10 216	—	54 606	2	5
		2003..	153 429	1 589 374	104 479	N	N	48 950	2	2
		2002..	144 412	1 515 842	100 129	N	N	44 283	X	X
3322	Cutlery and handtool manufacturing ..	2004..	151 270	1 781 924	101 106	D	—	50 164	1	1
		2003..	144 390	1 586 243	99 549	N	N	44 841	2	3
		2002..	149 316	1 643 596	104 361	N	N	44 955	X	X
33221	Cutlery and hand tool manufacturing	2004..	151 270	1 781 924	101 106	D	—	50 164	1	1
		2003..	144 390	1 586 243	99 549	N	N	44 841	2	3
		2002..	149 316	1 643 596	104 361	N	N	44 955	X	X
33221N	Cutlery, kitchen utensil, pot, and pan manufacturing	2004..	45 202	365 478	24 450	D	—	20 752	1	1
		2003..	44 475	411 362	27 142	N	N	17 334	8	6
		2002..	40 421	381 059	24 236	N	N	16 185	X	X
33221P	Hand tool and saw blade manufacturing	2004..	106 067	1 416 446	76 656	D	—	29 411	2	2
		2003..	99 915	1 174 881	72 407	N	N	27 507	1	3
		2002..	108 895	1 262 537	80 125	N	N	28 770	X	X
3323	Architectural and structural metals manufacturing	2004..	618 373	7 951 931	423 316	13 385	A	195 057	3	3
		2003..	598 064	6 529 481	398 306	N	N	199 758	4	7
		2002..	531 575	5 510 776	359 936	N	N	171 639	X	X
33231	Plate work and fabricated structural product manufacturing	2004..	290 452	3 953 031	198 548	10 588	S	91 904	2	5
		2003..	312 660	3 718 707	209 995	N	N	102 666	6	11
		2002..	261 528	2 757 071	174 150	N	N	87 378	X	X
33231M	Plate work and fabricated structural product manufacturing	2004..	290 452	3 953 031	198 548	10 588	S	91 904	2	5
		2003..	312 660	3 718 707	209 995	N	N	102 666	6	11
		2002..	261 528	2 757 071	174 150	N	N	87 378	X	X
33232	Ornamental and architectural metal work manufacturing	2004..	327 921	3 998 900	224 768	2 797	2 156	103 153	5	4
		2003..	285 403	2 810 774	188 311	N	N	97 092	3	9
		2002..	270 047	2 753 705	185 786	N	N	84 261	X	X
33232M	Ornamental and architectural metal work manufacturing	2004..	327 921	3 998 900	224 768	2 797	2 156	103 153	5	4
		2003..	285 403	2 810 774	188 311	N	N	97 092	3	9
		2002..	270 047	2 753 705	185 786	N	N	84 261	X	X
3324	Boiler, tank, and shipping container manufacturing	2004..	402 240	4 640 909	249 679	S	D	152 561	1	2
		2003..	403 048	4 293 940	246 066	N	N	156 981	2	4
		2002..	367 172	4 282 803	248 789	N	N	118 383	X	X
33241	Power boiler and heat exchanger manufacturing	2004..	50 682	590 731	31 574	—	—	19 108	5	6
		2003..	47 128	475 878	28 946	N	N	18 182	3	5
		2002..	47 436	498 708	30 500	N	N	16 936	X	X
332410	Power boiler and heat exchanger manufacturing	2004..	50 682	590 731	31 574	—	—	19 108	5	6
		2003..	47 128	475 878	28 946	N	N	18 182	3	5
		2002..	47 436	498 708	30 500	N	N	16 936	X	X
33242	Metal tank (heavy gauge) manufacturing	2004..	68 177	721 576	39 773	S	D	28 404	2	5
		2003..	71 223	604 438	38 176	N	N	33 047	3	20
		2002..	59 239	595 730	38 539	N	N	20 700	X	X
332420	Metal tank (heavy gauge) manufacturing	2004..	68 177	721 576	39 773	S	D	28 404	2	5
		2003..	71 223	604 438	38 176	N	N	33 047	3	20
		2002..	59 239	595 730	38 539	N	N	20 700	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy				Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—		
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		F	C	F
			Quantity (1,000 kWh)	Cost (\$1,000)						
			A	B	C	D		E	F	C
332	Fabricated metal product manufacturing—Con.									
3324	Boiler, tank, and shipping container manufacturing—Con.									
33243	Metal can, box, and other metal container (light gauge) manufacturing	2004.. 283 382	3 328 602	178 333	—	—	105 049	1	2	
		2003.. 284 697	3 213 624	178 944	N	N	105 752	2	2	
		2002.. 260 497	3 188 365	179 750	N	N	80 747	X	X	
33243M	Metal can, box, and other metal container (light gauge) manufacturing	2004.. 283 382	3 328 602	178 333	—	—	105 049	1	2	
		2003.. 284 697	3 213 624	178 944	N	N	105 752	2	2	
		2002.. 260 497	3 188 365	179 750	N	N	80 747	X	X	
3325	Hardware manufacturing	2004.. 95 427	1 127 404	61 390	D	—	34 038	2	4	
		2003.. 96 718	1 045 015	65 248	N	N	31 470	1	2	
		2002.. 95 113	1 077 273	67 591	N	N	27 522	X	X	
33251	Hardware manufacturing	2004.. 95 427	1 127 404	61 390	D	—	34 038	2	4	
		2003.. 96 718	1 045 015	65 248	N	N	31 470	1	2	
		2002.. 95 113	1 077 273	67 591	N	N	27 522	X	X	
332510	Hardware manufacturing	2004.. 95 427	1 127 404	61 390	D	—	34 038	2	4	
		2003.. 96 718	1 045 015	65 248	N	N	31 470	1	2	
		2002.. 95 113	1 077 273	67 591	N	N	27 522	X	X	
3326	Spring and wire product manufacturing	2004.. 139 089	1 694 939	86 056	8 794	D	53 033	2	6	
		2003.. 143 001	1 461 280	92 947	N	N	50 053	3	3	
		2002.. 129 678	1 340 884	85 226	N	N	44 452	X	X	
33261	Spring and wire product manufacturing	2004.. 139 089	1 694 939	86 056	8 794	D	53 033	2	6	
		2003.. 143 001	1 461 280	92 947	N	N	50 053	3	3	
		2002.. 129 678	1 340 884	85 226	N	N	44 452	X	X	
33261M	Spring and wire product manufacturing	2004.. 139 089	1 694 939	86 056	8 794	D	53 033	2	6	
		2003.. 143 001	1 461 280	92 947	N	N	50 053	3	3	
		2002.. 129 678	1 340 884	85 226	N	N	44 452	X	X	
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing ..	2004.. 660 114	9 425 355	517 032	18 580	3 036	143 083	1	3	
		2003.. 643 125	7 592 637	499 828	N	N	143 297	2	3	
		2002.. 580 035	6 968 799	465 406	N	N	114 629	X	X	
33271	Machine shops	2004.. 394 891	5 913 608	314 513	5 773	A	80 378	2	4	
		2003.. 375 587	4 509 654	292 075	N	N	83 512	3	5	
		2002.. 329 149	4 074 687	268 013	N	N	61 136	X	X	
332710	Machine shops	2004.. 394 891	5 913 608	314 513	5 773	A	80 378	2	4	
		2003.. 375 587	4 509 654	292 075	N	N	83 512	3	5	
		2002.. 329 149	4 074 687	268 013	N	N	61 136	X	X	
33272	Turned product and screw, nut, and bolt manufacturing	2004.. 265 223	3 511 747	202 518	12 807	2 692	62 704	1	3	
		2003.. 267 538	3 062 983	207 753	N	N	59 785	1	2	
		2002.. 250 886	2 894 112	197 393	N	N	53 493	X	X	
332721	Precision turned product manufacturing	2004.. 137 278	2 035 995	112 794	2 002	2 150	24 484	1	6	
		2003.. 131 388	1 610 664	107 177	N	N	24 211	2	6	
		2002.. 126 610	1 573 701	105 806	N	N	20 804	X	X	
332722	Bolt, nut, screw, rivet, and washer manufacturing	2004.. 127 945	1 475 752	89 724	10 805	542	38 221	1	2	
		2003.. 136 150	1 472 318	100 576	N	N	35 574	2	2	
		2002.. 124 276	1 320 411	91 587	N	N	32 689	X	X	
3328	Coating, engraving, heat treating, and allied activities	2004.. 795 755	7 656 213	393 488	29 594	2 119	402 267	1	2	
		2003.. 762 984	6 472 697	387 781	N	N	375 204	2	2	
		2002.. 745 139	6 775 846	401 905	N	N	343 234	X	X	
33281	Coating, engraving, heat treating, and allied activities	2004.. 795 755	7 656 213	393 488	29 594	2 119	402 267	1	2	
		2003.. 762 984	6 472 697	387 781	N	N	375 204	2	2	
		2002.. 745 139	6 775 846	401 905	N	N	343 234	X	X	
33281M	Coating, engraving, heat treating, and allied activities	2004.. 795 755	7 656 213	393 488	29 594	2 119	402 267	1	2	
		2003.. 762 984	6 472 697	387 781	N	N	375 204	2	2	
		2002.. 745 139	6 775 846	401 905	N	N	343 234	X	X	
3329	Other fabricated metal product manufacturing	2004.. 698 928	9 112 808	481 423	D	6 258	217 505	2	3	
		2003.. 725 200	8 526 859	500 982	N	N	224 218	1	2	
		2002.. 697 051	8 378 723	493 967	N	N	203 084	X	X	
33291	Metal valve manufacturing	2004.. 224 087	3 170 232	174 062	D	853	50 025	2	1	
		2003.. 223 002	2 937 762	175 989	N	N	47 013	2	2	
		2002.. 211 381	2 819 891	168 254	N	N	43 127	X	X	
332913	Plumbing fixture fitting and trim manufacturing	2004.. 22 032	290 673	15 335	—	—	6 697	16	8	
		2003.. 24 672	275 875	17 795	N	N	6 877	2	8	
		2002.. 24 751	281 481	18 167	N	N	6 584	X	X	

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy				Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—	
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
		A	B	C	D	E	F	C	F
332	Fabricated metal product manufacturing—Con.								
3329	Other fabricated metal product manufacturing—Con.								
33291	Metal valve manufacturing—Con.								
33291N	Valve and fitting (except plumbing) manufacturing.....	2004.. 202 055	2 879 560	158 728	D	853	43 328	1	1
		2003.. 198 330	2 661 886	158 194	N	N	40 136	3	2
		2002.. 186 630	2 538 410	150 087	N	N	36 543	X	X
33299	All other fabricated metal product manufacturing	2004.. 474 841	5 942 575	307 360	D	5 405	167 481	3	4
		2003.. 502 198	5 589 097	324 994	N	N	177 204	1	2
		2002.. 485 670	5 558 832	325 713	N	N	159 957	X	X
332991	Ball and roller bearing manufacturing	2004.. 131 568	1 834 871	89 196	—	—	42 372	1	3
		2003.. 121 518	1 717 656	88 613	N	N	32 905	1	2
		2002.. 119 998	1 806 914	91 196	N	N	28 802	X	X
332992	Small arms ammunition manufacturing	2004.. 22 120	271 944	11 379	—	—	10 742	1	1
		2003.. 22 160	258 372	11 990	N	N	10 170	1	7
		2002.. 18 508	256 073	11 144	N	N	7 364	X	X
332993	Ammunition (except small arms) manufacturing	2004.. 26 485	242 381	14 363	—	D	12 122	6	3
		2003.. 25 396	247 865	14 562	N	N	10 834	3	1
		2002.. 24 593	209 400	14 577	N	N	10 016	X	X
332994	Small arms manufacturing	2004.. 21 465	212 641	15 804	—	—	5 661	1	1
		2003.. 20 370	184 681	15 144	N	N	5 226	1	3
		2002.. 19 034	180 852	14 848	N	N	4 186	X	X
332995	Other ordnance and accessories manufacturing	2004.. 11 495	154 864	8 412	—	—	3 084	1	1
		2003.. 14 612	172 510	9 845	N	N	4 767	1	1
		2002.. 12 335	147 413	8 340	N	N	3 995	X	X
332996	Fabricated pipe and pipe fitting manufacturing	2004.. 46 432	642 395	36 510	1 872	—	9 922	2	46
		2003.. 49 564	531 597	35 449	N	N	14 115	4	6
		2002.. 47 487	513 050	33 226	N	N	14 261	X	X
33299N	Other fabricated metal products manufacturing	2004.. 215 276	2 583 480	131 697	D	D	83 578	6	5
		2003.. 248 579	2 476 415	149 390	N	N	99 188	1	3
		2002.. 243 715	2 445 130	152 382	N	N	91 333	X	X
333	Machinery manufacturing	2004.. 2 073 896	28 491 546	1 510 219	507 221	46 811	563 677	1	1
		2003.. 1 981 583	24 119 932	1 457 248	N	N	524 335	1	1
		2002.. 1 938 806	24 207 205	1 446 988	N	N	491 818	X	X
3331	Agriculture, construction, and mining machinery manufacturing	2004.. 383 112	4 700 928	228 413	D	D	154 699	2	1
		2003.. 355 102	4 081 028	216 498	N	N	138 604	1	1
		2002.. 327 750	4 052 280	210 580	N	N	117 170	X	X
33311	Agricultural implement manufacturing	2004.. 152 063	1 791 472	87 482	D	D	64 581	2	1
		2003.. 147 705	1 650 645	88 072	N	N	59 633	2	2
		2002.. 132 253	1 536 490	79 874	N	N	52 379	X	X
333111	Farm machinery and equipment manufacturing	2004.. 112 047	1 317 217	61 957	D	D	50 091	2	1
		2003.. 107 540	1 183 238	62 076	N	N	45 464	2	2
		2002.. 96 562	1 087 170	55 895	N	N	40 667	X	X
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing	2004.. 40 016	474 256	25 525	—	—	14 490	2	2
		2003.. 40 165	467 407	25 996	N	N	14 169	1	2
		2002.. 35 691	449 320	23 979	N	N	11 712	X	X
33312	Construction machinery manufacturing	2004.. 147 205	1 797 888	79 288	D	—	67 917	1	1
		2003.. 135 637	1 506 098	74 139	N	N	61 498	2	1
		2002.. 124 279	1 534 456	74 844	N	N	49 435	X	X
333120	Construction machinery manufacturing	2004.. 147 205	1 797 888	79 288	D	—	67 917	1	1
		2003.. 135 637	1 506 098	74 139	N	N	61 498	2	1
		2002.. 124 279	1 534 456	74 844	N	N	49 435	X	X
33313	Mining and oil and gas field machinery manufacturing	2004.. 83 844	1 111 568	61 643	—	D	22 201	5	8
		2003.. 71 759	924 285	54 286	N	N	17 473	5	4
		2002.. 71 218	981 334	55 862	N	N	15 356	X	X
33313M	Mining and oil and gas field machinery manufacturing	2004.. 83 844	1 111 568	61 643	—	D	22 201	5	8
		2003.. 71 759	924 285	54 286	N	N	17 473	5	4
		2002.. 71 218	981 334	55 862	N	N	15 356	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

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			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
		A	B	C	D	E	F	C	F
333	Machinery manufacturing—Con.								
3332	Industrial machinery manufacturing ..	2004.. 222 908	3 020 857	178 815	D	D	44 093	2	6
		2003.. 221 171	2 533 602	174 701	N	N	46 470	4	3
		2002.. 222 407	2 589 738	178 638	N	N	43 769	X	X
33321	Sawmill and woodworking machinery manufacturing	2004.. 10 119	144 687	6 915	—	—	3 204	5	11
		2003.. 9 206	102 842	6 336	N	N	2 871	4	7
		2002.. 8 264	94 812	5 809	N	N	2 455	X	X
333210	Sawmill and woodworking machinery manufacturing	2004.. 10 119	144 687	6 915	—	—	3 204	5	11
		2003.. 9 206	102 842	6 336	N	N	2 871	4	7
		2002.. 8 264	94 812	5 809	N	N	2 455	X	X
33322	Plastics and rubber industry machinery manufacturing	2004.. 24 062	363 402	18 639	S	D	5 423	4	6
		2003.. 21 911	267 762	16 874	N	N	5 037	3	2
		2002.. 23 721	292 760	18 778	N	N	4 943	X	X
333220	Plastics and rubber industry machinery manufacturing	2004.. 24 062	363 402	18 639	S	D	5 423	4	6
		2003.. 21 911	267 762	16 874	N	N	5 037	3	2
		2002.. 23 721	292 760	18 778	N	N	4 943	X	X
33329	Other industrial machinery manufacturing	2004.. 188 727	2 512 769	153 262	D	285	35 465	3	7
		2003.. 190 054	2 162 998	151 492	N	N	38 562	5	4
		2002.. 190 422	2 202 166	154 051	N	N	36 371	X	X
333295	Semiconductor machinery manufacturing	2004.. 59 561	756 642	53 903	D	—	5 658	6	8
		2003.. 69 166	862 184	61 514	N	N	7 652	1	7
		2002.. 62 977	771 132	56 833	N	N	6 144	X	X
33329N	Other machinery manufacturing ..	2004.. 129 166	1 756 127	99 359	—	285	29 808	2	8
		2003.. 120 888	1 300 814	89 978	N	N	30 910	9	5
		2002.. 127 445	1 431 034	97 218	N	N	30 227	X	X
3333	Commercial and service industry machinery manufacturing	2004.. 151 071	1 923 212	123 410	D	D	27 662	1	3
		2003.. 146 206	1 611 543	118 956	N	N	27 250	1	2
		2002.. 131 435	1 415 347	108 640	N	N	22 795	X	X
33331	Commercial and service industry machinery manufacturing	2004.. 151 071	1 923 212	123 410	D	D	27 662	1	3
		2003.. 146 206	1 611 543	118 956	N	N	27 250	1	2
		2002.. 131 435	1 415 347	108 640	N	N	22 795	X	X
333313	Office machinery manufacturing ..	2004.. 12 087	219 582	10 177	—	—	1 909	2	3
		2003.. 13 538	166 113	11 327	N	N	2 211	2	3
		2002.. 7 636	91 669	5 846	N	N	1 790	X	X
333314	Optical instrument and lens manufacturing	2004.. 37 598	434 420	35 083	—	D	2 515	2	6
		2003.. 32 689	363 434	30 119	N	N	2 570	2	8
		2002.. 31 829	338 831	29 611	N	N	2 218	X	X
333315	Photographic and photocopying equipment manufacturing	2004.. 29 220	322 099	26 079	D	—	3 142	3	10
		2003.. 21 751	216 033	18 585	N	N	3 166	2	7
		2002.. 21 283	228 175	18 529	N	N	2 754	X	X
33331N	All other commercial and service industry machinery manufacturing	2004.. 72 166	947 110	52 070	D	—	20 096	1	4
		2003.. 78 229	865 963	58 925	N	N	19 303	2	2
		2002.. 70 687	756 672	54 654	N	N	16 033	X	X
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2004.. 225 888	3 109 077	161 930	11 277	D	63 959	1	9
		2003.. 229 593	2 845 389	164 314	N	N	65 279	1	2
		2002.. 232 377	2 948 061	168 657	N	N	63 720	X	X
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2004.. 225 888	3 109 077	161 930	11 277	D	63 959	1	9
		2003.. 229 593	2 845 389	164 314	N	N	65 279	1	2
		2002.. 232 377	2 948 061	168 657	N	N	63 720	X	X
333414	Heating equipment (except warm air furnaces) manufacturing	2004.. 31 835	384 216	21 271	—	—	10 564	4	4
		2003.. 31 191	311 637	21 469	N	N	9 722	2	12
		2002.. 35 166	348 818	23 279	N	N	11 887	X	X
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing	2004.. 155 299	2 250 618	114 950	D	D	40 349	2	14
		2003.. 162 254	2 103 481	116 437	N	N	45 817	1	1
		2002.. 160 483	2 181 338	119 213	N	N	41 270	X	X
33341N	Ventilation equipment manufacturing	2004.. 38 754	474 242	25 708	D	—	13 046	2	5
		2003.. 36 149	430 272	26 408	N	N	9 740	2	6
		2002.. 36 728	417 905	26 165	N	N	10 563	X	X

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Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

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			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
		A	B	C	D	E	F	C	F
333	Machinery manufacturing—Con.								
3335	Metalworking machinery manufacturing	2004.. 320 441	4 841 975	255 283	319 816	S	65 157	1	3
		2003.. 304 327	3 799 103	245 646	N	N	58 681	2	3
		2002.. 307 568	3 852 555	252 028	N	N	55 540	X	X
33351	Metalworking machinery manufacturing	2004.. 320 441	4 841 975	255 283	319 816	S	65 157	1	3
		2003.. 304 327	3 799 103	245 646	N	N	58 681	2	3
		2002.. 307 568	3 852 555	252 028	N	N	55 540	X	X
333511	Industrial mold manufacturing ...	2004.. 86 224	1 347 725	69 892	2 734	63	16 332	3	5
		2003.. 81 480	1 015 073	66 961	N	N	14 519	2	10
		2002.. 82 463	1 043 506	68 960	N	N	13 503	X	X
333512	Machine tool (metal cutting types) manufacturing	2004.. 29 976	398 624	23 371	18	—	6 605	5	7
		2003.. 26 819	349 154	21 622	N	N	5 197	2	8
		2002.. 27 784	356 266	22 884	N	N	4 900	X	X
333513	Machine tool (metal forming types) manufacturing	2004.. 11 716	177 737	8 702	D	D	3 015	4	8
		2003.. 10 548	123 808	7 868	N	N	2 681	3	13
		2002.. 10 421	113 730	7 398	N	N	3 023	X	X
333514	Special die and tool, die set, jig, and fixture manufacturing	2004.. 91 411	1 442 784	73 936	313 085	S	17 476	3	7
		2003.. 84 766	1 025 755	68 344	N	N	16 422	8	6
		2002.. 84 703	1 058 125	69 435	N	N	15 268	X	X
333515	Cutting tool and machine tool accessory manufacturing	2004.. 66 653	1 057 911	57 312	D	D	9 341	2	8
		2003.. 66 550	912 023	57 407	N	N	9 143	2	2
		2002.. 69 774	925 016	60 916	N	N	8 858	X	X
333516	Rolling mill machinery and equipment manufacturing	2004.. 9 016	96 032	5 217	—	—	3 799	1	5
		2003.. 7 913	78 061	4 810	N	N	3 103	2	2
		2002.. 7 801	74 520	5 243	N	N	2 558	X	X
333518	Other metalworking machinery manufacturing	2004.. 25 444	321 162	16 854	D	—	8 590	4	14
		2003.. 26 251	295 229	18 634	N	N	7 617	1	1
		2002.. 24 622	281 392	17 192	N	N	7 430	X	X
3336	Engine, turbine, and power transmission equipment manufacturing	2004.. 273 549	3 891 251	187 974	18 352	D	85 575	2	1
		2003.. 262 903	3 500 387	184 540	N	N	78 362	1	2
		2002.. 250 905	3 703 937	184 381	N	N	66 524	X	X
33361	Engine, turbine, and power transmission equipment manufacturing	2004.. 273 549	3 891 251	187 974	18 352	D	85 575	2	1
		2003.. 262 903	3 500 387	184 540	N	N	78 362	1	2
		2002.. 250 905	3 703 937	184 381	N	N	66 524	X	X
333611	Turbine and turbine generator set unit manufacturing	2004.. 41 546	576 659	33 910	D	—	7 636	8	9
		2003.. 43 444	520 257	33 735	N	N	9 709	2	3
		2002.. 41 924	522 585	31 260	N	N	10 664	X	X
333612	Speed changer, industrial high-speed drive, and gear manufacturing	2004.. 29 909	415 202	20 395	—	—	9 514	2	3
		2003.. 29 680	352 213	19 680	N	N	10 000	1	1
		2002.. 31 032	390 530	20 634	N	N	10 398	X	X
333613	Mechanical power transmission equipment manufacturing	2004.. 44 126	578 062	30 596	—	—	13 530	1	2
		2003.. 43 469	521 251	30 424	N	N	13 045	1	2
		2002.. 42 337	588 964	31 741	N	N	10 596	X	X
333618	Other engine equipment manufacturing	2004.. 157 968	2 321 328	103 074	D	D	54 895	3	2
		2003.. 146 311	2 106 666	100 702	N	N	45 609	2	3
		2002.. 135 612	2 201 858	100 746	N	N	34 866	X	X
3339	Other general purpose machinery manufacturing	2004.. 496 928	7 004 247	374 395	D	34 320	122 533	1	2
		2003.. 462 280	5 748 880	352 592	N	N	109 689	1	2
		2002.. 466 364	5 645 287	344 064	N	N	122 300	X	X
33391	Pump and compressor manufacturing	2004.. 101 492	1 355 753	77 614	D	—	23 877	3	5
		2003.. 101 827	1 223 492	78 594	N	N	23 233	6	3
		2002.. 102 443	1 330 594	80 091	N	N	22 352	X	X
333911	Pump and pumping equipment manufacturing	2004.. 57 593	791 296	43 715	D	—	13 878	2	3
		2003.. 55 493	679 806	42 902	N	N	12 591	2	5
		2002.. 60 453	819 260	47 977	N	N	12 476	X	X
333912	Air and gas compressor manufacturing	2004.. 37 681	470 763	28 894	—	—	8 787	7	12
		2003.. 39 864	452 899	30 191	N	N	9 673	15	1
		2002.. 36 142	430 063	27 140	N	N	9 002	X	X

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			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		F	C	F
			Quantity (1,000 kWh)	Cost (\$1,000)						
333	Machinery manufacturing—Con.									
3339	Other general purpose machinery manufacturing—Con.									
33391	Pump and compressor manufacturing—Con.									
333913	Measuring and dispensing pump manufacturing	2004.. 6 217	93 694	5 005	—	—	1 212	1	1	
		2003.. 6 470	90 787	5 501	N	N	969	1	1	
		2002.. 5 848	81 271	4 974	N	N	874	X	X	
33392	Material handling equipment manufacturing	2004.. 113 838	1 415 420	77 403	1 149	—	36 435	1	3	
		2003.. 107 923	1 190 470	74 452	N	N	33 471	1	2	
		2002.. 116 818	1 089 229	67 691	N	N	49 127	X	X	
33392M	Material handling equipment manufacturing	2004.. 113 838	1 415 420	77 403	1 149	—	36 435	1	3	
		2003.. 107 923	1 190 470	74 452	N	N	33 471	1	2	
		2002.. 116 818	1 089 229	67 691	N	N	49 127	X	X	
33399	All other general purpose machinery manufacturing	2004.. 281 598	4 233 073	219 377	D	34 320	62 221	1	2	
		2003.. 252 530	3 334 918	199 545	N	N	52 985	1	3	
		2002.. 247 103	3 225 464	196 282	N	N	50 821	X	X	
333991	Power-driven hand tool manufacturing	2004.. 20 081	329 006	17 203	—	—	2 878	6	3	
		2003.. 20 832	327 340	17 337	N	N	3 495	1	1	
		2002.. 20 605	333 907	17 754	N	N	2 851	X	X	
333993	Packaging machinery manufacturing	2004.. 23 640	343 292	19 309	—	—	4 332	2	5	
		2003.. 23 569	296 496	19 652	N	N	3 917	2	19	
		2002.. 23 996	293 063	19 409	N	N	4 587	X	X	
333994	Industrial process furnace and oven manufacturing	2004.. 16 442	197 826	12 118	D	—	4 324	4	9	
		2003.. 13 448	161 657	11 179	N	N	2 269	6	39	
		2002.. 15 053	168 367	11 404	N	N	3 649	X	X	
33399N	Fluid power equipment manufacturing	2004.. 71 039	1 154 596	57 342	D	—	13 697	3	4	
		2003.. 66 281	979 054	54 763	N	N	11 518	1	1	
		2002.. 61 539	873 953	51 861	N	N	9 678	X	X	
33399P	All other miscellaneous general purpose machinery manufacturing	2004.. 150 396	2 208 354	113 407	D	34 320	36 990	2	3	
		2003.. 128 401	1 570 371	96 614	N	N	31 787	1	3	
		2002.. 125 910	1 556 174	95 854	N	N	30 056	X	X	
334	Computer and electronic product manufacturing	2004.. 2 315 419	31 290 276	1 956 447	14 305	D	358 972	6	1	
		2003.. 2 425 433	33 370 714	2 059 195	N	N	366 238	1	2	
		2002.. 2 467 931	32 877 653	2 049 648	N	N	418 283	X	X	
3341	Computer and peripheral equipment manufacturing	2004.. 171 398	2 590 660	145 959	D	—	25 439	1	1	
		2003.. 195 571	2 560 990	163 127	N	N	32 444	2	1	
		2002.. 214 173	2 721 155	169 087	N	N	45 086	X	X	
33411	Computer and peripheral equipment manufacturing	2004.. 171 398	2 590 660	145 959	D	—	25 439	1	1	
		2003.. 195 571	2 560 990	163 127	N	N	32 444	2	1	
		2002.. 214 173	2 721 155	169 087	N	N	45 086	X	X	
334111	Electronic computer manufacturing	2004.. 50 761	907 728	47 380	D	—	3 381	1	1	
		2003.. 50 513	685 136	45 818	N	N	4 696	1	1	
		2002.. 61 172	700 981	43 325	N	N	17 847	X	X	
334112	Computer storage device manufacturing	2004.. 44 348	606 513	39 161	—	—	5 187	2	1	
		2003.. 66 930	837 977	59 415	N	N	7 516	2	2	
		2002.. 66 785	894 028	62 622	N	N	4 163	X	X	
334113	Computer terminal manufacturing	2004.. 2 253	42 099	1 871	—	—	382	7	21	
		2003.. 3 476	44 858	2 979	N	N	497	3	1	
		2002.. 4 060	54 684	3 519	N	N	541	X	X	
334119	Other computer peripheral equipment manufacturing	2004.. 74 035	1 034 320	57 546	—	—	16 489	2	2	
		2003.. 74 651	993 019	54 915	N	N	19 736	5	1	
		2002.. 82 156	1 071 462	59 621	N	N	22 535	X	X	
3342	Communications equipment manufacturing	2004.. 219 495	2 832 750	167 981	S	—	51 514	3	3	
		2003.. 264 549	2 666 459	197 120	N	N	67 429	3	1	
		2002.. 258 039	2 322 788	173 044	N	N	84 995	X	X	
33421	Telephone apparatus manufacturing	2004.. 85 092	1 000 393	58 102	S	—	26 991	7	3	
		2003.. 113 167	1 014 942	69 011	N	N	44 157	4	1	
		2002.. 106 058	647 739	45 541	N	N	60 517	X	X	
334210	Telephone apparatus manufacturing	2004.. 85 092	1 000 393	58 102	S	—	26 991	7	3	
		2003.. 113 167	1 014 942	69 011	N	N	44 157	4	1	
		2002.. 106 058	647 739	45 541	N	N	60 517	X	X	

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			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)	F		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)						
			A	B	C	D				
334	Computer and electronic product manufacturing—Con.									
3342	Communications equipment manufacturing—Con.									
33422	Radio and television broadcasting and wireless communications equipment manufacturing	2004.. 102 532 2003.. 118 079 2002.. 115 567	1 439 103 1 369 513 1 392 084	88 001 103 852 100 338	— N N	— N N	14 530 14 227 15 229	2 5 X	7 3 X	
334220	Radio and television broadcasting and wireless communications equipment manufacturing	2004.. 102 532 2003.. 118 079 2002.. 115 567	1 439 103 1 369 513 1 392 084	88 001 103 852 100 338	— N N	— N N	14 530 14 227 15 229	2 5 X	7 3 X	
33429	Other communications equipment manufacturing	2004.. 31 871 2003.. 33 303 2002.. 36 414	393 253 282 004 282 965	21 879 24 258 27 165	— N N	— N N	9 993 9 045 9 249	2 9 X	2 8 X	
334290	Other communications equipment manufacturing	2004.. 31 871 2003.. 33 303 2002.. 36 414	393 253 282 004 282 965	21 879 24 258 27 165	— N N	— N N	9 993 9 045 9 249	2 9 X	2 8 X	
3343	Audio and video equipment manufacturing	2004.. 41 081 2003.. 32 523 2002.. 41 552	628 601 534 338 651 897	33 559 27 241 31 741	— N N	D N N	7 522 5 282 9 811	1 2 X	1 3 X	
33431	Audio and video equipment manufacturing	2004.. 41 081 2003.. 32 523 2002.. 41 552	628 601 534 338 651 897	33 559 27 241 31 741	— N N	D N N	7 522 5 282 9 811	1 2 X	1 3 X	
334310	Audio and video equipment manufacturing	2004.. 41 081 2003.. 32 523 2002.. 41 552	628 601 534 338 651 897	33 559 27 241 31 741	— N N	D N N	7 522 5 282 9 811	1 2 X	1 3 X	
3344	Semiconductor and other electronic component manufacturing	2004.. 1 114 100 2003.. 1 263 671 2002.. 1 306 941	14 840 531 18 824 313 19 145 911	962 912 1 098 347 1 130 024	— N N	— N N	151 188 165 324 176 917	12 1 X	3 3 X	
33441	Semiconductor and other electronic component manufacturing	2004.. 1 114 100 2003.. 1 263 671 2002.. 1 306 941	14 840 531 18 824 313 19 145 911	962 912 1 098 347 1 130 024	— N N	— N N	151 188 165 324 176 917	12 1 X	3 3 X	
334411	Electron tube manufacturing	2004.. 35 216 2003.. 46 111 2002.. 51 343	429 113 579 834 739 750	26 150 32 376 36 993	— N N	— N N	9 066 13 735 14 350	1 1 X	2 1 X	
334412	Bare printed circuit board manufacturing	2004.. 119 635 2003.. 108 708 2002.. 124 805	1 628 222 1 253 789 1 381 668	101 106 87 936 101 401	— N N	— N N	18 529 20 771 23 404	3 3 X	5 1 X	
334413	Semiconductor and related device manufacturing	2004.. 649 551 2003.. 792 061 2002.. 815 691	8 761 797 13 111 619 13 133 405	565 982 702 241 714 413	— N N	— N N	83 569 89 819 101 278	20 1 X	4 5 X	
334414	Electronic capacitor manufacturing	2004.. 22 172 2003.. 21 525 2002.. 28 890	329 124 335 581 425 387	19 107 18 474 25 054	— N N	— N N	3 065 3 051 3 836	10 4 X	25 2 X	
334415	Electronic resistor manufacturing	2004.. 12 815 2003.. 11 929 2002.. 10 744	179 431 163 245 142 930	11 849 10 521 9 489	— N N	— N N	966 1 408 1 255	3 2 X	16 4 X	
334416	Electronic coil, transformer, and other inductor manufacturing	2004.. 12 510 2003.. 10 413 2002.. 9 335	138 177 121 183 102 205	9 899 8 947 7 171	— N N	— N N	2 611 1 466 2 164	2 3 X	8 55 X	
334417	Electronic connector manufacturing	2004.. 42 489 2003.. 39 940 2002.. 41 225	533 532 463 701 457 450	38 042 33 822 36 147	— N N	— N N	4 447 6 118 5 078	2 3 X	8 1 X	
334418	Printed circuit assembly (electronic assembly) manufacturing	2004.. 141 227 2003.. 145 556 2002.. 131 524	1 854 075 1 784 595 1 657 166	124 378 129 139 117 593	— N N	— N N	16 848 16 417 13 931	15 3 X	10 4 X	
334419	Other electronic component manufacturing	2004.. 78 485 2003.. 87 428 2002.. 93 384	987 059 1 010 765 1 105 950	66 399 74 890 81 763	— N N	— N N	12 087 12 538 11 621	3 2 X	5 9 X	

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy				Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—	
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
			A	B	C	D		E	F
334	Computer and electronic product manufacturing—Con.								
3345	Navigational, measuring, electromedical, and control instruments manufacturing	2004.. 641 798	8 765 379	557 983	11 417	17 779	83 815	3	2
		2003.. 569 137	7 494 384	488 998	N	N	80 139	1	1
		2002.. 548 737	6 807 423	463 972	N	N	84 765	X	X
33451	Navigational, measuring, medical, and control instruments manufacturing	2004.. 641 798	8 765 379	557 983	11 417	17 779	83 815	3	2
		2003.. 569 137	7 494 384	488 998	N	N	80 139	1	1
		2002.. 548 737	6 807 423	463 972	N	N	84 765	X	X
334510	Electromedical and electrotherapeutic apparatus manufacturing	2004.. 76 454	1 039 956	65 103	—	S	11 351	1	1
		2003.. 63 649	880 864	53 264	N	N	10 384	1	1
		2002.. 55 425	744 116	46 338	N	N	9 087	X	X
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	2004.. 269 445	3 619 703	236 712	D	D	32 733	6	6
		2003.. 240 504	3 241 396	208 049	N	N	32 455	1	1
		2002.. 255 448	3 157 987	215 893	N	N	39 555	X	X
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use ..	2004.. 19 214	260 633	15 827	A	—	3 388	1	5
		2003.. 18 845	255 308	15 692	N	N	3 153	3	3
		2002.. 21 446	292 816	17 803	N	N	3 643	X	X
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables	2004.. 47 347	618 776	39 271	S	S	8 076	2	4
		2003.. 46 720	564 320	39 495	N	N	7 225	1	3
		2002.. 44 606	545 502	37 905	N	N	6 701	X	X
334514	Totalizing fluid meter and counting device manufacturing ..	2004.. 26 755	396 147	20 178	D	—	6 577	1	1
		2003.. 21 692	314 894	15 693	N	N	5 999	1	1
		2002.. 22 226	320 639	17 144	N	N	5 082	X	X
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	2004.. 98 413	1 420 525	93 694	D	D	4 718	4	5
		2003.. 75 002	1 000 054	69 670	N	N	5 332	3	6
		2002.. 58 851	700 309	53 286	N	N	5 565	X	X
334516	Analytical laboratory instrument manufacturing	2004.. 38 341	476 447	30 595	—	—	7 746	4	3
		2003.. 45 771	543 922	38 695	N	N	7 076	6	4
		2002.. 36 171	373 697	28 655	N	N	7 516	X	X
334517	Irradiation apparatus manufacturing	2004.. 22 097	330 583	18 983	—	—	3 114	10	6
		2003.. 17 748	200 905	14 782	N	N	2 966	3	2
		2002.. 14 982	169 346	12 817	N	N	2 165	X	X
334518	Watch, clock, and parts manufacturing	2004.. 3 479	45 083	2 795	D	88	684	3	6
		2003.. 3 637	45 725	3 054	N	N	583	8	21
		2002.. 4 097	50 351	3 335	N	N	762	X	X
334519	Other measuring and controlling device manufacturing.....	2004.. 40 254	557 525	34 825	D	S	5 428	4	5
		2003.. 35 570	446 997	30 604	N	N	4 966	3	2
		2002.. 35 485	452 660	30 796	N	N	4 689	X	X
3346	Manufacturing and reproducing magnetic and optical media	2004.. 127 548	1 632 356	88 053	D	—	39 495	1	1
		2003.. 99 982	1 290 230	84 362	N	N	15 619	2	14
		2002.. 98 489	1 228 479	81 780	N	N	16 709	X	X
33461	Manufacturing and reproducing magnetic and optical media	2004.. 127 548	1 632 356	88 053	D	—	39 495	1	1
		2003.. 99 982	1 290 230	84 362	N	N	15 619	2	14
		2002.. 98 489	1 228 479	81 780	N	N	16 709	X	X
334611	Software reproducing.....	2004.. 6 010	92 291	5 219	—	—	790	4	5
		2003.. 7 247	76 420	5 274	N	N	1 973	5	10
		2002.. 6 170	68 668	4 877	N	N	1 293	X	X
334612	Prerecorded compact disc (except software), tape, and record reproducing	2004.. 58 047	940 581	52 868	—	—	5 179	2	3
		2003.. 63 877	843 275	58 109	N	N	5 768	3	38
		2002.. 62 963	838 472	55 528	N	N	7 435	X	X
334613	Magnetic and optical recording media manufacturing	2004.. 63 491	599 484	29 966	D	—	33 525	1	1
		2003.. 28 858	370 535	20 980	N	N	7 878	3	1
		2002.. 29 356	321 339	21 375	N	N	7 981	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy				Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—		
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F	
			Quantity (1,000 kWh)	Cost (\$1,000)						
			A	B	C	D		E	F	C
335	Electrical equipment, appliance, and component manufacturing	2004..	1 021 733	14 398 869	741 267	21 224	D	280 465	1	1
		2003..	1 033 888	13 543 068	756 352	N	N	277 536	1	1
		2002..	1 007 161	13 784 531	752 698	N	N	254 463	X	X
3351	Electric lighting equipment manufacturing	2004..	113 608	1 502 281	80 484	D	—	33 124	1	2
		2003..	111 907	1 298 791	81 259	N	N	30 648	1	3
		2002..	111 379	1 311 492	80 662	N	N	30 717	X	X
33511	Electric lamp bulb and parts manufacturing	2004..	43 693	699 732	30 989	—	—	12 704	1	1
		2003..	44 018	600 024	32 261	N	N	11 757	1	4
		2002..	41 763	605 831	31 151	N	N	10 612	X	X
335110	Electric lamp bulb and parts manufacturing	2004..	43 693	699 732	30 989	—	—	12 704	1	1
		2003..	44 018	600 024	32 261	N	N	11 757	1	4
		2002..	41 763	605 831	31 151	N	N	10 612	X	X
33512	Lighting fixture manufacturing	2004..	69 915	802 549	49 495	D	—	20 420	2	3
		2003..	67 889	698 767	48 998	N	N	18 891	2	4
		2002..	69 616	705 661	49 511	N	N	20 105	X	X
33512M	Lighting fixture manufacturing	2004..	69 915	802 549	49 495	D	—	20 420	2	3
		2003..	67 889	698 767	48 998	N	N	18 891	2	4
		2002..	69 616	705 661	49 511	N	N	20 105	X	X
3352	Household appliance manufacturing ..	2004..	165 859	2 310 470	103 863	D	D	61 995	1	1
		2003..	168 894	2 313 237	108 075	N	N	60 819	1	1
		2002..	155 852	2 308 937	106 511	N	N	49 341	X	X
33521	Small electrical appliance manufacturing	2004..	23 780	345 635	17 176	—	—	6 604	1	1
		2003..	27 809	426 781	21 380	N	N	6 429	2	1
		2002..	29 916	452 213	23 760	N	N	6 156	X	X
33521M	Small electrical appliance manufacturing	2004..	23 780	345 635	17 176	—	—	6 604	1	1
		2003..	27 809	426 781	21 380	N	N	6 429	2	1
		2002..	29 916	452 213	23 760	N	N	6 156	X	X
33522	Major appliance manufacturing	2004..	142 079	1 964 835	86 687	D	D	55 391	1	1
		2003..	141 084	1 886 456	86 694	N	N	54 390	1	1
		2002..	125 936	1 856 724	82 751	N	N	43 185	X	X
335221	Household cooking appliance manufacturing	2004..	35 016	397 029	18 371	—	—	16 645	1	2
		2003..	33 996	355 035	18 958	N	N	15 038	1	1
		2002..	34 551	384 717	20 623	N	N	13 928	X	X
335222	Household refrigerator and home freezer manufacturing	2004..	37 421	617 339	28 409	—	—	9 012	1	1
		2003..	38 710	666 769	29 623	N	N	9 087	1	1
		2002..	35 927	664 578	27 762	N	N	8 165	X	X
335224	Household laundry equipment manufacturing	2004..	37 198	458 275	19 533	—	D	17 665	1	1
		2003..	37 044	477 880	19 468	N	N	17 576	1	1
		2002..	30 702	466 614	18 715	N	N	11 987	X	X
335228	Other major household appliance manufacturing	2004..	32 444	492 191	20 374	D	—	12 070	2	1
		2003..	31 334	386 771	18 645	N	N	12 689	5	3
		2002..	24 756	340 815	15 651	N	N	9 105	X	X
3353	Electrical equipment manufacturing ..	2004..	231 551	3 174 613	165 918	991	S	65 633	1	3
		2003..	232 388	2 969 261	170 421	N	N	61 967	1	3
		2002..	233 859	3 043 793	173 957	N	N	59 902	X	X
33531	Electrical equipment manufacturing	2004..	231 551	3 174 613	165 918	991	S	65 633	1	3
		2003..	232 388	2 969 261	170 421	N	N	61 967	1	3
		2002..	233 859	3 043 793	173 957	N	N	59 902	X	X
335311	Power, distribution, and specialty transformer manufacturing	2004..	42 837	591 284	29 849	—	—	12 988	2	2
		2003..	45 247	557 057	31 528	N	N	13 719	2	2
		2002..	43 698	564 999	32 440	N	N	11 258	X	X
335312	Motor and generator manufacturing	2004..	92 499	1 255 228	63 201	991	—	29 298	3	7
		2003..	91 036	1 209 967	64 891	N	N	26 145	1	6
		2002..	94 606	1 248 376	64 956	N	N	29 650	X	X
335313	Switchgear and switchboard apparatus manufacturing	2004..	54 054	698 904	37 952	—	—	16 102	2	1
		2003..	56 195	693 996	41 633	N	N	14 562	5	2
		2002..	53 917	696 612	41 678	N	N	12 239	X	X
335314	Relay and industrial control manufacturing	2004..	42 162	629 197	34 916	—	S	7 245	2	3
		2003..	39 909	508 241	32 370	N	N	7 540	1	2
		2002..	41 638	533 806	34 883	N	N	6 755	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

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			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
		A	B	C	D	E	F	C	F
335	Electrical equipment, appliance, and component manufacturing—Con.								
3359	Other electrical equipment and component manufacturing	2004.. 510 715	7 411 505	391 002	14 370	D	119 713	1	1
		2003.. 520 699	6 961 779	396 597	N	N	124 102	1	2
		2002.. 506 071	7 120 309	391 568	N	N	114 503	X	X
33591	Battery manufacturing	2004.. 114 991	1 813 404	89 723	—	—	25 268	1	1
		2003.. 118 641	1 827 995	92 829	N	N	25 813	2	2
		2002.. 118 449	1 917 856	94 522	N	N	23 927	X	X
335911	Storage battery manufacturing ...	2004.. 94 833	1 474 517	72 399	—	—	22 434	1	1
		2003.. 97 886	1 473 850	74 793	N	N	23 093	2	3
		2002.. 98 586	1 583 596	77 138	N	N	21 448	X	X
335912	Primary battery manufacturing ...	2004.. 20 158	338 887	17 324	—	—	2 834	1	4
		2003.. 20 755	354 146	18 036	N	N	2 720	2	1
		2002.. 19 863	334 260	17 384	N	N	2 479	X	X
33592	Communication and energy wire and cable manufacturing	2004.. 134 243	2 030 883	110 342	12 735	—	23 900	1	1
		2003.. 151 177	2 023 625	121 504	N	N	29 673	1	1
		2002.. 144 384	2 159 346	112 395	N	N	31 989	X	X
33592M	Communication and energy wire and cable manufacturing	2004.. 134 243	2 030 883	110 342	12 735	—	23 900	1	1
		2003.. 151 177	2 023 625	121 504	N	N	29 673	1	1
		2002.. 144 384	2 159 346	112 395	N	N	31 989	X	X
33593	Wiring device manufacturing	2004.. 119 142	1 679 979	97 424	D	478	21 718	1	5
		2003.. 120 624	1 496 830	97 290	N	N	23 334	1	1
		2002.. 117 412	1 510 792	98 346	N	N	19 066	X	X
33593M	Wiring device manufacturing	2004.. 119 142	1 679 979	97 424	D	478	21 718	1	5
		2003.. 120 624	1 496 830	97 290	N	N	23 334	1	1
		2002.. 117 412	1 510 792	98 346	N	N	19 066	X	X
33599	All other electrical equipment and component manufacturing	2004.. 142 339	1 887 239	93 513	D	D	48 826	2	2
		2003.. 130 257	1 613 329	84 975	N	N	45 282	2	5
		2002.. 125 826	1 532 315	86 305	N	N	39 521	X	X
335991	Carbon and graphite product manufacturing	2004.. 105 319	1 439 183	62 252	—	—	43 067	1	3
		2003.. 93 101	1 197 731	53 611	N	N	39 489	2	6
		2002.. 86 599	1 111 047	52 720	N	N	33 879	X	X
335999	All other miscellaneous electrical equipment and component manufacturing	2004.. 37 020	448 056	31 261	D	D	5 759	5	6
		2003.. 37 156	415 598	31 364	N	N	5 792	4	5
		2002.. 39 227	421 268	33 585	N	N	5 642	X	X
336	Transportation equipment manufacturing	2004.. 4 066 004	57 328 102	2 708 521	519 467	342 362	1 357 484	1	1
		2003.. 3 946 902	52 249 596	2 689 768	N	N	1 257 133	1	1
		2002.. 3 830 454	53 284 930	2 747 916	N	N	1 082 538	X	X
3361	Motor vehicle manufacturing	2004.. 899 657	10 667 782	455 517	D	D	444 140	1	1
		2003.. 863 735	10 378 327	451 574	N	N	412 161	1	1
		2002.. 763 997	10 632 392	458 116	N	N	305 881	X	X
33611	Automobile and light duty motor vehicle manufacturing	2004.. 839 663	9 909 946	417 698	D	D	421 965	1	1
		2003.. 814 605	9 827 710	420 354	N	N	394 252	1	1
		2002.. 715 373	10 025 228	425 713	N	N	289 660	X	X
336111	Automobile manufacturing	2004.. 307 162	3 841 283	166 886	D	D	140 276	1	1
		2003.. 325 972	3 927 517	180 408	N	N	145 565	1	1
		2002.. 301 060	4 135 210	176 615	N	N	124 445	X	X
336112	Light truck and utility vehicle manufacturing	2004.. 532 501	6 068 663	250 812	D	D	281 689	1	1
		2003.. 488 633	5 900 193	239 946	N	N	248 687	1	1
		2002.. 414 313	5 890 018	249 098	N	N	165 215	X	X
33612	Heavy duty truck manufacturing ...	2004.. 59 994	757 836	37 820	—	—	22 175	1	1
		2003.. 49 129	550 618	31 220	N	N	17 909	1	3
		2002.. 48 624	607 164	32 403	N	N	16 221	X	X
336120	Heavy duty truck manufacturing .	2004.. 59 994	757 836	37 820	—	—	22 175	1	1
		2003.. 49 129	550 618	31 220	N	N	17 909	1	3
		2002.. 48 624	607 164	32 403	N	N	16 221	X	X
3362	Motor vehicle body and trailer manufacturing	2004.. 149 711	1 947 179	99 549	—	S	50 161	2	3
		2003.. 138 418	1 505 991	90 209	N	N	48 209	2	2
		2002.. 127 136	1 406 976	85 171	N	N	41 965	X	X
33621	Motor vehicle body and trailer manufacturing	2004.. 149 711	1 947 179	99 549	—	S	50 161	2	3
		2003.. 138 418	1 505 991	90 209	N	N	48 209	2	2
		2002.. 127 136	1 406 976	85 171	N	N	41 965	X	X
336211	Motor vehicle body manufacturing	2004.. 51 075	632 483	33 748	—	55	17 328	3	5
		2003.. 49 564	546 445	32 589	N	N	16 975	3	3
		2002.. 49 907	574 840	33 762	N	N	16 145	X	X
336212	Truck trailer manufacturing	2004.. 37 137	517 963	24 046	—	S	13 091	2	8
		2003.. 31 343	396 938	21 667	N	N	9 676	4	4
		2002.. 26 841	331 284	19 520	N	N	7 321	X	X

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			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
			A	B	C	D		E	F
336	Transportation equipment manufacturing—Con.								
3362	Motor vehicle body and trailer manufacturing—Con.								
33621	Motor vehicle body and trailer manufacturing—Con.								
336213	Motor home manufacturing	2004.. 18 794	210 859	12 304	—	—	6 490	2	3
		2003.. 19 061	187 597	12 106	N	N	6 955	1	3
		2002.. 15 360	168 530	10 465	N	N	4 895	X	X
336214	Travel trailer and camper manufacturing	2004.. 42 704	585 874	29 452	—	S	13 252	4	5
		2003.. 38 450	375 010	23 847	N	N	14 603	3	3
		2002.. 35 028	332 322	21 424	N	N	13 604	X	X
3363	Motor vehicle parts manufacturing ...	2004.. 1 901 027	29 010 333	1 319 000	19 030	D	582 027	1	1
		2003.. 1 870 650	26 641 408	1 325 729	N	N	544 920	1	1
		2002.. 1 820 420	27 811 757	1 363 647	N	N	456 773	X	X
33631	Motor vehicle gasoline engine and engine parts manufacturing	2004.. 293 772	4 795 209	212 484	11 979	D	81 288	2	2
		2003.. 298 116	4 608 231	217 570	N	N	80 546	1	1
		2002.. 289 921	4 752 989	224 253	N	N	65 668	X	X
33631M	Motor vehicle gasoline engine and engine parts manufacturing	2004.. 293 772	4 795 209	212 484	11 979	D	81 288	2	2
		2003.. 298 116	4 608 231	217 570	N	N	80 546	1	1
		2002.. 289 921	4 752 989	224 253	N	N	65 668	X	X
33632	Motor vehicle electrical and electronic equipment manufacturing	2004.. 164 548	2 539 760	119 182	288	D	45 366	1	2
		2003.. 181 480	2 759 094	138 799	N	N	42 681	1	2
		2002.. 185 924	2 774 215	147 695	N	N	38 229	X	X
33632M	Motor vehicle electrical and electronic equipment manufacturing	2004.. 164 548	2 539 760	119 182	288	D	45 366	1	2
		2003.. 181 480	2 759 094	138 799	N	N	42 681	1	2
		2002.. 185 924	2 774 215	147 695	N	N	38 229	X	X
33633	Motor vehicle steering and suspension component (except spring) manufacturing	2004.. 120 778	1 964 622	82 973	—	—	37 805	2	2
		2003.. 121 753	1 840 692	85 913	N	N	35 840	1	1
		2002.. 110 367	1 843 889	84 783	N	N	25 584	X	X
336330	Motor vehicle steering and suspension component (except spring) manufacturing	2004.. 120 778	1 964 622	82 973	—	—	37 805	2	2
		2003.. 121 753	1 840 692	85 913	N	N	35 840	1	1
		2002.. 110 367	1 843 889	84 783	N	N	25 584	X	X
33634	Motor vehicle brake system manufacturing	2004.. 114 475	1 954 472	89 498	D	D	24 976	1	2
		2003.. 109 932	1 774 437	85 944	N	N	23 988	1	1
		2002.. 107 605	1 738 337	85 594	N	N	22 011	X	X
336340	Motor vehicle brake system manufacturing	2004.. 114 475	1 954 472	89 498	D	D	24 976	1	2
		2003.. 109 932	1 774 437	85 944	N	N	23 988	1	1
		2002.. 107 605	1 738 337	85 594	N	N	22 011	X	X
33635	Motor vehicle transmission and power train parts manufacturing ..	2004.. 356 546	5 252 614	228 021	D	—	128 525	3	1
		2003.. 345 529	4 943 796	227 397	N	N	118 132	2	1
		2002.. 327 440	5 111 288	234 164	N	N	93 276	X	X
336350	Motor vehicle transmission and power train parts manufacturing	2004.. 356 546	5 252 614	228 021	D	—	128 525	3	1
		2003.. 345 529	4 943 796	227 397	N	N	118 132	2	1
		2002.. 327 440	5 111 288	234 164	N	N	93 276	X	X
33636	Motor vehicle seating and interior trim manufacturing	2004.. 72 024	1 192 601	55 608	D	—	16 416	1	3
		2003.. 68 712	1 046 446	57 203	N	N	11 509	4	2
		2002.. 69 112	1 024 461	57 067	N	N	12 045	X	X
336360	Motor vehicle seating and interior trim manufacturing	2004.. 72 024	1 192 601	55 608	D	—	16 416	1	3
		2003.. 68 712	1 046 446	57 203	N	N	11 509	4	2
		2002.. 69 112	1 024 461	57 067	N	N	12 045	X	X
33637	Motor vehicle metal stamping	2004.. 318 349	4 761 097	225 596	827	D	92 752	2	2
		2003.. 305 503	4 064 392	216 731	N	N	88 772	2	4
		2002.. 287 743	4 150 470	215 284	N	N	72 459	X	X
336370	Motor vehicle metal stamping ...	2004.. 318 349	4 761 097	225 596	827	D	92 752	2	2
		2003.. 305 503	4 064 392	216 731	N	N	88 772	2	4
		2002.. 287 743	4 150 470	215 284	N	N	72 459	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy				Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—	
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
		A	B	C	D	E	F	C	F
336	Transportation equipment manufacturing—Con.								
3363	Motor vehicle parts manufacturing—Con.								
33639	Other motor vehicle parts manufacturing	2004.. 460 536	6 549 956	305 638	—	D	154 898	2	3
		2003.. 439 626	5 604 319	296 172	N	N	143 453	1	4
		2002.. 442 308	6 416 108	314 807	N	N	127 501	X	X
336391	Motor vehicle air-conditioning manufacturing	2004.. 40 565	742 999	30 520	—	—	10 046	2	1
		2003.. 43 434	750 307	31 647	N	N	11 787	1	3
		2002.. 70 595	1 691 925	60 549	N	N	10 046	X	X
336399	All other miscellaneous motor vehicle parts manufacturing	2004.. 419 971	5 806 957	275 118	—	D	144 852	2	3
		2003.. 396 191	4 854 012	264 525	N	N	131 666	1	4
		2002.. 371 713	4 724 183	254 258	N	N	117 455	X	X
3364	Aerospace product and parts manufacturing	2004.. 812 176	11 606 362	628 505	325 246	D	183 671	1	1
		2003.. 810 156	10 393 077	630 876	N	N	179 280	1	1
		2002.. 858 616	10 286 745	654 151	N	N	204 465	X	X
33641	Aerospace product and parts manufacturing	2004.. 812 176	11 606 362	628 505	325 246	D	183 671	1	1
		2003.. 810 156	10 393 077	630 876	N	N	179 280	1	1
		2002.. 858 616	10 286 745	654 151	N	N	204 465	X	X
336411	Aircraft manufacturing	2004.. 178 340	2 558 109	134 793	D	90	43 547	4	1
		2003.. 211 408	2 974 386	165 024	N	N	46 384	1	1
		2002.. 239 718	3 175 125	190 451	N	N	49 267	X	X
336412	Aircraft engine and engine parts manufacturing	2004.. 186 106	2 427 809	131 682	D	D	54 424	1	2
		2003.. 185 164	2 159 136	132 223	N	N	52 941	1	1
		2002.. 183 438	2 172 919	130 356	N	N	53 082	X	X
336413	Other aircraft parts and auxiliary equipment manufacturing	2004.. 284 657	4 596 759	230 812	D	S	53 845	1	3
		2003.. 273 253	3 587 439	221 817	N	N	51 437	1	4
		2002.. 291 742	3 222 502	218 250	N	N	73 492	X	X
336414	Guided missile and space vehicle manufacturing	2004.. 90 946	1 180 891	78 678	—	—	12 268	1	1
		2003.. 77 894	834 251	63 094	N	N	14 800	1	1
		2002.. 78 282	799 689	63 694	N	N	14 588	X	X
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing	2004.. 46 330	554 324	32 942	—	D	13 388	1	1
		2003.. 41 847	539 394	32 450	N	N	9 397	1	1
		2002.. 43 847	605 267	35 035	N	N	8 812	X	X
336419	Other guided missile and space vehicle parts and auxiliary equipment manufacturing	2004.. 25 797	288 470	19 598	—	—	6 198	3	1
		2003.. 20 590	298 471	16 268	N	N	4 322	1	1
		2002.. 21 589	311 243	16 365	N	N	5 224	X	X
3365	Railroad rolling stock manufacturing ..	2004.. 51 421	559 093	28 368	D	D	23 053	1	2
		2003.. 46 623	438 112	27 339	N	N	19 285	1	2
		2002.. 44 422	395 561	26 726	N	N	17 696	X	X
33651	Railroad rolling stock manufacturing	2004.. 51 421	559 093	28 368	D	D	23 053	1	2
		2003.. 46 623	438 112	27 339	N	N	19 285	1	2
		2002.. 44 422	395 561	26 726	N	N	17 696	X	X
336510	Railroad rolling stock manufacturing	2004.. 51 421	559 093	28 368	D	D	23 053	1	2
		2003.. 46 623	438 112	27 339	N	N	19 285	1	2
		2002.. 44 422	395 561	26 726	N	N	17 696	X	X
3366	Ship and boat building	2004.. 175 909	2 587 715	129 755	D	350	46 153	5	4
		2003.. 159 318	2 136 657	121 620	N	N	37 698	1	2
		2002.. 151 200	1 967 019	117 980	N	N	33 220	X	X
33661	Ship and boat building	2004.. 175 909	2 587 715	129 755	D	350	46 153	5	4
		2003.. 159 318	2 136 657	121 620	N	N	37 698	1	2
		2002.. 151 200	1 967 019	117 980	N	N	33 220	X	X
336611	Ship building and repairing	2004.. 116 943	1 838 309	90 585	—	51	26 358	7	3
		2003.. 110 185	1 632 537	88 666	N	N	21 518	1	1
		2002.. 103 413	1 487 673	85 461	N	N	17 952	X	X
336612	Boat building	2004.. 58 966	749 406	39 170	D	299	19 795	2	7
		2003.. 49 133	504 120	32 954	N	N	16 180	3	5
		2002.. 47 787	479 346	32 519	N	N	15 268	X	X
3369	Other transportation equipment manufacturing	2004.. 76 103	949 639	47 825	D	21	28 278	1	1
		2003.. 58 002	756 024	42 421	N	N	15 581	4	48
		2002.. 64 663	784 480	42 125	N	N	22 538	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy					Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—	
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)	F		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)						
			A	B	C	D				
336	Transportation equipment manufacturing—Con.									
3369	Other transportation equipment manufacturing—Con.									
33699	Other transportation equipment manufacturing	2004.. 76 103	949 639	47 825	D	21	28 278	1	1	
		2003.. 58 002	756 024	42 421	N	N	15 581	4	48	
		2002.. 64 663	784 480	42 125	N	N	22 538	X	X	
336991	Motorcycle, bicycle, and parts manufacturing	2004.. 34 198	410 203	21 489	—	—	12 709	1	1	
		2003.. 21 913	349 035	18 730	N	N	A	9	A	
		2002.. 26 889	323 306	17 582	N	N	9 307	X	X	
336992	Military armored vehicle, tank, and tank component manufacturing	2004.. 9 436	129 320	6 870	—	21	2 566	2	2	
		2003.. 9 076	107 259	7 309	N	N	1 767	1	1	
		2002.. 10 736	147 566	8 693	N	N	2 043	X	X	
336999	All other transportation equipment manufacturing	2004.. 32 470	410 116	19 466	D	—	13 004	2	1	
		2003.. 27 013	299 730	16 383	N	N	10 630	2	2	
		2002.. 27 038	313 608	15 850	N	N	11 188	X	X	
337	Furniture and related product manufacturing	2004.. 722 840	9 822 708	523 314	48 648	D	199 526	1	4	
		2003.. 693 785	8 081 822	507 978	N	N	185 807	1	2	
		2002.. 682 076	7 919 639	508 159	N	N	173 917	X	X	
3371	Household and institutional furniture and kitchen cabinet manufacturing ..	2004.. 431 523	6 028 299	324 515	47 194	D	107 008	1	3	
		2003.. 395 181	4 852 257	302 946	N	N	92 234	1	4	
		2002.. 409 605	4 999 581	316 994	N	N	92 611	X	X	
33711	Wood kitchen cabinet and counter top manufacturing	2004.. 150 775	2 029 859	111 519	D	610	39 256	1	5	
		2003.. 130 054	1 458 747	95 050	N	N	35 004	2	6	
		2002.. 123 577	1 411 537	90 326	N	N	33 251	X	X	
337110	Wood kitchen cabinet and counter top manufacturing	2004.. 150 775	2 029 859	111 519	D	610	39 256	1	5	
		2003.. 130 054	1 458 747	95 050	N	N	35 004	2	6	
		2002.. 123 577	1 411 537	90 326	N	N	33 251	X	X	
33712	Household and institutional furniture manufacturing	2004.. 280 748	3 998 440	212 996	D	D	67 751	1	4	
		2003.. 265 127	3 393 510	207 897	N	N	57 230	2	5	
		2002.. 286 028	3 588 044	226 668	N	N	59 360	X	X	
337121	Upholstered household furniture manufacturing	2004.. 65 127	896 056	49 937	316	S	15 190	2	12	
		2003.. 60 056	756 506	48 102	N	N	11 955	6	5	
		2002.. 58 346	726 183	47 461	N	N	10 885	X	X	
337122	Nonupholstered wood household furniture manufacturing	2004.. 132 880	2 016 883	106 731	42 494	D	26 149	2	7	
		2003.. 134 539	1 856 622	108 907	N	N	25 632	1	5	
		2002.. 151 764	2 031 186	124 123	N	N	27 641	X	X	
337127	Institutional furniture manufacturing	2004.. 45 662	611 125	31 868	D	—	13 794	3	2	
		2003.. 40 417	420 689	27 584	N	N	12 833	8	8	
		2002.. 42 744	456 060	30 875	N	N	11 869	X	X	
33712N	Other household nonupholstered furniture	2004.. 37 079	474 376	24 460	30	—	12 618	3	6	
		2003.. 30 114	359 693	23 303	N	N	6 810	4	36	
		2002.. 33 174	374 615	24 209	N	N	8 965	X	X	
3372	Office furniture (including fixtures) manufacturing	2004.. 253 784	3 337 588	170 867	1 454	S	82 917	2	9	
		2003.. 261 076	2 791 870	175 228	N	N	85 848	2	2	
		2002.. 235 639	2 518 861	162 464	N	N	73 175	X	X	
33721	Office furniture (including fixtures) manufacturing	2004.. 253 784	3 337 588	170 867	1 454	S	82 917	2	9	
		2003.. 261 076	2 791 870	175 228	N	N	85 848	2	2	
		2002.. 235 639	2 518 861	162 464	N	N	73 175	X	X	
337212	Custom architectural woodwork and millwork manufacturing	2004.. 39 844	522 061	29 382	268	—	10 462	3	6	
		2003.. 38 581	378 747	28 548	N	N	10 033	4	4	
		2002.. 36 777	384 204	27 213	N	N	9 564	X	X	
337215	Showcase, partition, shelving, and locker manufacturing	2004.. 112 238	1 353 255	72 355	1 186	S	39 883	3	3	
		2003.. 115 817	1 157 064	76 026	N	N	39 791	4	5	
		2002.. 110 505	1 121 010	74 520	N	N	35 985	X	X	
33721N	Office furniture manufacturing ...	2004.. 101 703	1 462 272	69 131	—	—	32 572	1	23	
		2003.. 106 678	1 256 059	70 654	N	N	36 024	1	3	
		2002.. 88 357	1 013 647	60 731	N	N	27 626	X	X	

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	Cost of purchased fuels and electric energy (\$1,000)	Electric energy				Cost of purchased fuels (\$1,000)	Relative standard error of estimate ² (percent) for column—	
			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
			A	B	C	D		E	F
337	Furniture and related product manufacturing—Con.								
3379	Other furniture related product manufacturing	2004.. 37 533	456 822	27 932	—	—	9 601	3	2
		2003.. 37 529	437 696	29 804	N	N	7 725	3	10
		2002.. 36 832	401 197	28 701	N	N	8 131	X	X
33791	Mattress manufacturing	2004.. 20 679	240 051	14 601	—	—	6 078	4	3
		2003.. 19 426	210 533	14 942	N	N	4 484	2	18
		2002.. 21 318	213 639	15 640	N	N	5 678	X	X
337910	Mattress manufacturing	2004.. 20 679	240 051	14 601	—	—	6 078	4	3
		2003.. 19 426	210 533	14 942	N	N	4 484	2	18
		2002.. 21 318	213 639	15 640	N	N	5 678	X	X
33792	Blind and shade manufacturing	2004.. 16 854	216 770	13 330	—	—	3 523	2	4
		2003.. 18 103	227 163	14 863	N	N	3 240	6	1
		2002.. 15 514	187 558	13 061	N	N	2 453	X	X
337920	Blind and shade manufacturing ..	2004.. 16 854	216 770	13 330	—	—	3 523	2	4
		2003.. 18 103	227 163	14 863	N	N	3 240	6	1
		2002.. 15 514	187 558	13 061	N	N	2 453	X	X
339	Miscellaneous manufacturing	2004.. 955 969	13 112 451	746 598	S	S	209 371	1	12
		2003.. 918 687	10 735 945	703 842	N	N	214 844	1	1
		2002.. 877 576	10 347 581	683 560	N	N	194 016	X	X
3391	Medical equipment and supplies manufacturing	2004.. 393 859	5 667 481	326 075	S	S	67 784	2	7
		2003.. 358 411	4 477 845	295 858	N	N	62 553	3	3
		2002.. 352 935	4 486 588	295 949	N	N	56 986	X	X
33911	Medical equipment and supplies manufacturing	2004.. 393 859	5 667 481	326 075	S	S	67 784	2	7
		2003.. 358 411	4 477 845	295 858	N	N	62 553	3	3
		2002.. 352 935	4 486 588	295 949	N	N	56 986	X	X
339111	Laboratory apparatus and furniture manufacturing	2004.. 30 586	375 948	22 072	—	—	8 514	3	6
		2003.. 29 856	297 260	19 598	N	N	10 258	6	12
		2002.. 26 389	285 927	19 841	N	N	6 548	X	X
339112	Surgical and medical instrument manufacturing	2004.. 139 565	2 098 708	119 325	—	—	20 240	3	4
		2003.. 125 006	1 618 387	107 456	N	N	17 550	3	2
		2002.. 120 928	1 642 459	105 468	N	N	15 460	X	X
339113	Surgical appliance and supplies manufacturing	2004.. 143 230	1 872 399	114 638	S	S	28 593	3	15
		2003.. 135 347	1 678 528	108 078	N	N	27 270	2	3
		2002.. 132 290	1 587 062	104 911	N	N	27 379	X	X
339114	Dental equipment and supplies manufacturing	2004.. 17 719	268 645	14 788	—	—	2 931	6	7
		2003.. 16 367	207 506	14 570	N	N	1 797	9	13
		2002.. 15 597	191 447	13 798	N	N	1 799	X	X
339115	Ophthalmic goods manufacturing	2004.. 40 312	690 226	36 418	—	—	3 894	2	7
		2003.. 33 822	454 938	30 740	N	N	3 081	21	18
		2002.. 40 991	578 806	37 950	N	N	3 041	X	X
339116	Dental laboratories	2004.. 22 446	361 555	18 835	60	—	3 611	2	9
		2003.. 18 013	221 226	15 417	N	N	2 596	4	20
		2002.. 16 740	200 887	13 981	N	N	2 759	X	X
3399	Other miscellaneous manufacturing ..	2004.. 562 110	7 444 970	420 523	3 469	236	141 587	1	17
		2003.. 560 276	6 258 100	407 985	N	N	152 291	1	2
		2002.. 524 641	5 860 993	387 611	N	N	137 030	X	X
33991	Jewelry and silverware manufacturing	2004.. 53 745	730 394	42 882	D	—	10 863	2	3
		2003.. 56 788	676 057	42 693	N	N	14 095	5	9
		2002.. 46 965	527 061	35 535	N	N	11 430	X	X
33991M	Jewelry and silverware manufacturing	2004.. 53 745	730 394	42 882	D	—	10 863	2	3
		2003.. 56 788	676 057	42 693	N	N	14 095	5	9
		2002.. 46 965	527 061	35 535	N	N	11 430	X	X
33992	Sporting and athletic goods manufacturing	2004.. 61 286	972 184	56 474	—	—	A	5	A
		2003.. 89 107	886 504	60 882	N	N	28 225	2	3
		2002.. 81 067	882 608	57 598	N	N	23 469	X	X
339920	Sporting and athletic goods manufacturing	2004.. 61 286	972 184	56 474	—	—	A	5	A
		2003.. 89 107	886 504	60 882	N	N	28 225	2	3
		2002.. 81 067	882 608	57 598	N	N	23 469	X	X
33993	Doll, toy, and game manufacturing ..	2004.. 33 087	398 626	24 603	—	—	8 484	4	7
		2003.. 34 080	387 553	25 611	N	N	8 469	6	5
		2002.. 30 238	330 420	22 456	N	N	7 782	X	X
33993M	Doll, toy, and game manufacturing	2004.. 33 087	398 626	24 603	—	—	8 484	4	7
		2003.. 34 080	387 553	25 611	N	N	8 469	6	5
		2002.. 30 238	330 420	22 456	N	N	7 782	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Groups and Industries: 2004 and Earlier Years—Con.

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			Purchased		Generated (1,000 kWh)	Sold or transferred (1,000 kWh)		C	F
			Quantity (1,000 kWh)	Cost (\$1,000)					
			A	B	C	D		E	F
339	Miscellaneous manufacturing—Con.								
3399	Other miscellaneous manufacturing—Con.								
33994	Office supplies (except paper) manufacturing								
	2004..	38 226	475 580	28 093	3	—	10 133	2	8
	2003..	38 474	439 327	28 974	N	N	9 500	2	2
	2002..	37 240	434 557	28 907	N	N	8 333	X	X
33994M	Office supplies (except paper) manufacturing								
	2004..	38 226	475 580	28 093	3	—	10 133	2	8
	2003..	38 474	439 327	28 974	N	N	9 500	2	2
	2002..	37 240	434 557	28 907	N	N	8 333	X	X
33995	Sign manufacturing								
	2004..	90 544	1 091 670	61 230	2 631	—	29 315	4	10
	2003..	82 212	852 277	57 518	N	N	24 693	5	4
	2002..	77 306	808 781	56 123	N	N	21 183	X	X
339950	Sign manufacturing								
	2004..	90 544	1 091 670	61 230	2 631	—	29 315	4	10
	2003..	82 212	852 277	57 518	N	N	24 693	5	4
	2002..	77 306	808 781	56 123	N	N	21 183	X	X
33999	All other miscellaneous manufacturing								
	2004..	285 221	3 776 516	207 240	D	236	77 981	2	2
	2003..	259 615	3 016 383	192 307	N	N	67 308	1	2
	2002..	251 825	2 877 566	186 992	N	N	64 833	X	X
339991	Gasket, packing, and sealing device manufacturing.....								
	2004..	102 165	1 283 744	74 588	D	—	27 577	1	2
	2003..	89 553	1 067 469	67 412	N	N	22 141	1	3
	2002..	87 571	1 035 647	68 185	N	N	19 386	X	X
339992	Musical instrument manufacturing								
	2004..	16 818	196 673	12 252	—	—	4 565	1	3
	2003..	16 116	156 638	11 662	N	N	4 454	8	2
	2002..	17 223	170 563	12 905	N	N	4 318	X	X
339993	Fastener, button, needle, and pin manufacturing								
	2004..	15 392	214 942	10 573	—	—	4 819	3	3
	2003..	14 005	202 868	11 002	N	N	3 003	3	8
	2002..	14 648	216 460	11 514	N	N	3 134	X	X
339994	Broom, brush, and mop manufacturing								
	2004..	17 839	271 547	14 512	—	—	3 328	3	8
	2003..	17 236	213 365	13 050	N	N	4 186	6	10
	2002..	16 115	192 549	12 305	N	N	3 810	X	X
339995	Burial casket manufacturing								
	2004..	11 032	101 616	6 714	—	—	4 317	4	4
	2003..	11 458	128 443	8 625	N	N	2 833	1	4
	2002..	10 946	66 015	4 790	N	N	6 156	X	X
339999	All other miscellaneous manufacturing								
	2004..	121 975	1 707 995	88 601	357	236	33 374	4	3
	2003..	111 247	1 247 599	80 556	N	N	30 691	2	4
	2002..	105 322	1 196 332	77 293	N	N	28 029	X	X

¹For a comparison of the Annual Survey of Manufactures (ASM) general statistics NAICS-based codes to the 2002 Economic Census NAICS codes, see Appendix F.
²Description of relative standard error of estimate is given in Appendix C. Percentage standard errors shown are approximate relative standard errors of estimates of level.

Note 1: Previous years' data may differ from that published in the 2003 Annual Survey of Manufactures (ASM) because of changes encountered in subsequent review of the 2004 ASM.

Note 2: The data in this table are based on the 2004 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The data in this table contain sampling errors and nonsampling errors. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures	
31-33	Manufacturing	115 112 783	17 225 149	97 887 634	2 512 639	6 678 314	88 696 682	1
	2004..	112 133 156	15 822 363	96 310 792	2 965 037	7 912 980	85 432 775	1
	2002..	125 466 651	22 392 965	103 073 686	3 371 875	7 857 607	91 844 204	X
311	Food manufacturing	11 267 601	2 113 931	9 153 669	261 797	385 622	8 506 251	1
	2003..	10 740 393	1 916 621	8 823 772	320 770	580 220	7 922 782	1
	2002..	10 934 100	2 068 120	8 865 980	356 007	525 018	7 984 955	X
3111	Animal food manufacturing	610 289	92 543	517 746	28 460	23 494	465 791	7
	2003..	522 617	64 261	458 356	26 312	21 526	410 518	4
	2002..	576 171	107 161	469 010	32 272	28 483	408 255	X
31111	Animal food manufacturing	610 289	92 543	517 746	28 460	23 494	465 791	7
	2003..	522 617	64 261	458 356	26 312	21 526	410 518	4
	2002..	576 171	107 161	469 010	32 272	28 483	408 255	X
311111	Dog and cat food manufacturing	275 250	49 756	225 494	2 167	9 219	214 108	3
	2003..	270 453	27 504	242 950	5 313	8 341	229 296	5
	2002..	229 475	37 990	191 485	4 065	8 130	179 290	X
311119	Other animal food manufacturing	335 038	42 787	292 252	26 294	14 274	251 684	13
	2003..	252 164	36 757	215 407	20 999	13 185	181 222	7
	2002..	346 696	69 171	277 525	28 207	20 353	228 965	X
3112	Grain and oilseed milling	1 160 357	182 728	977 629	10 532	22 613	944 484	1
	2003..	1 134 617	220 644	913 973	10 691	29 021	874 261	1
	2002..	1 022 322	163 271	859 051	15 048	42 561	801 442	X
31121	Flour milling and malt manufacturing	307 535	70 263	237 272	6 014	5 626	225 631	1
	2003..	254 519	65 764	188 755	4 042	5 582	179 131	3
	2002..	224 527	57 035	167 492	4 920	7 947	154 625	X
31121M	Flour milling and malt manufacturing	307 535	70 263	237 272	6 014	5 626	225 631	1
	2003..	254 519	65 764	188 755	4 042	5 582	179 131	3
	2002..	224 527	57 035	167 492	4 920	7 947	154 625	X
31122	Starch and vegetable fats and oils manufacturing	626 889	89 203	537 687	3 809	11 251	522 627	1
	2003..	615 559	119 950	495 609	5 827	17 502	472 280	2
	2002..	550 365	68 304	482 061	9 258	13 894	458 909	X
311221	Wet corn milling	368 341	35 558	332 783	1 118	7 283	324 382	1
	2003..	242 893	30 751	212 142	895	8 359	202 888	1
	2002..	240 628	28 555	212 073	4 388	6 506	201 179	X
311225	Fats and oils refining and blending	57 537	18 238	39 300	348	1 880	37 071	2
	2003..	115 209	16 622	98 587	660	3 290	94 636	2
	2002..	109 812	13 046	96 766	2 154	4 098	90 514	X
31122N	Soybean and other oilseed processing	201 011	35 407	165 604	2 343	2 087	161 174	1
	2003..	257 457	72 576	184 880	4 272	5 853	174 755	4
	2002..	199 925	26 703	173 222	2 716	3 290	167 216	X
31123	Breakfast cereal manufacturing	225 932	23 262	202 671	709	5 736	196 226	6
	2003..	264 540	34 930	229 610	822	5 937	222 850	2
	2002..	247 430	37 932	209 498	870	20 720	187 908	X
311230	Breakfast cereal manufacturing	225 932	23 262	202 671	709	5 736	196 226	6
	2003..	264 540	34 930	229 610	822	5 937	222 850	2
	2002..	247 430	37 932	209 498	870	20 720	187 908	X
3113	Sugar and confectionery product manufacturing	872 332	134 993	737 338	9 791	20 627	706 921	7
	2003..	1 026 643	139 925	886 718	12 883	33 343	840 492	3
	2002..	741 572	105 747	635 825	13 865	39 908	582 052	X
31131	Sugar manufacturing	229 825	27 984	201 840	5 051	2 871	193 919	3
	2003..	381 487	30 926	350 561	4 432	5 982	340 147	7
	2002..	145 519	16 584	128 935	4 649	3 730	120 556	X
311313	Beet sugar manufacturing	70 743	8 746	61 996	960	1 170	59 866	3
	2003..	94 727	11 177	83 550	1 569	1 400	80 581	28
	2002..	47 090	4 711	42 379	461	490	41 428	X
31131N	Sugar cane mills and refining	159 082	19 238	139 844	4 091	1 701	134 053	5
	2003..	286 760	19 749	267 011	2 863	4 582	259 566	1
	2002..	98 429	11 873	86 556	4 188	3 240	79 128	X
31132	Chocolate and confectionery manufacturing from cacao beans	85 958	14 896	71 063	583	5 627	64 853	5
	2003..	225 757	45 766	179 991	486	4 658	174 848	3
	2002..	97 961	14 296	83 665	1 626	3 159	78 880	X
311320	Chocolate and confectionery manufacturing from cacao beans	85 958	14 896	71 063	583	5 627	64 853	5
	2003..	225 757	45 766	179 991	486	4 658	174 848	3
	2002..	97 961	14 296	83 665	1 626	3 159	78 880	X
31133	Confectionery manufacturing from purchased chocolate	291 477	17 184	274 293	3 179	5 325	265 789	4
	2003..	253 068	38 100	214 967	2 198	7 524	205 245	4
	2002..	242 040	20 113	221 927	2 939	6 261	212 727	X
311330	Confectionery manufacturing from purchased chocolate	291 477	17 184	274 293	3 179	5 325	265 789	4
	2003..	253 068	38 100	214 967	2 198	7 524	205 245	4
	2002..	242 040	20 113	221 927	2 939	6 261	212 727	X
31134	Nonchocolate confectionery manufacturing	265 072	74 930	190 143	978	6 804	182 360	23
	2003..	166 332	25 134	141 198	5 768	15 179	120 251	11
	2002..	256 052	54 754	201 298	4 651	26 758	169 889	X
311340	Nonchocolate confectionery manufacturing	265 072	74 930	190 143	978	6 804	182 360	23
	2003..	166 332	25 134	141 198	5 768	15 179	120 251	11
	2002..	256 052	54 754	201 298	4 651	26 758	169 889	X

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
311	Food manufacturing—Con.								
3114	Fruit and vegetable preserving and specialty food manufacturing	2004.. 1 947 308	358 270	1 589 038	29 593	68 191	1 491 254	3	
		2003.. 1 435 992	220 394	1 215 597	17 707	54 677	1 143 212	4	
		2002.. 1 826 394	356 716	1 469 678	38 611	112 991	1 318 076	X	
31141	Frozen food manufacturing	2004.. 753 872	172 350	581 523	17 982	30 015	533 526	7	
		2003.. 529 478	84 012	445 466	8 453	21 615	415 398	4	
		2002.. 741 412	157 111	584 301	18 319	46 403	519 579	X	
31141M	Frozen food manufacturing	2004.. 753 872	172 350	581 523	17 982	30 015	533 526	7	
		2003.. 529 478	84 012	445 466	8 453	21 615	415 398	4	
		2002.. 741 412	157 111	584 301	18 319	46 403	519 579	X	
31142	Fruit and vegetable canning, pickling, and drying	2004.. 1 193 436	185 921	1 007 515	11 612	38 176	957 727	2	
		2003.. 906 514	136 383	770 132	9 255	33 062	727 815	6	
		2002.. 1 084 982	199 605	885 377	20 292	66 588	798 497	X	
31142M	Fruit and vegetable canning, pickling, and drying	2004.. 1 193 436	185 921	1 007 515	11 612	38 176	957 727	2	
		2003.. 906 514	136 383	770 132	9 255	33 062	727 815	6	
		2002.. 1 084 982	199 605	885 377	20 292	66 588	798 497	X	
3115	Dairy product manufacturing	2004.. 1 617 766	364 954	1 252 812	37 972	49 436	1 165 405	3	
		2003.. 1 786 091	357 765	1 428 326	59 985	180 559	1 187 783	3	
		2002.. 1 735 787	391 025	1 344 762	70 321	60 194	1 214 247	X	
31151	Dairy product (except frozen) manufacturing	2004.. 1 345 569	302 645	1 042 924	30 447	43 606	968 870	3	
		2003.. 1 595 333	332 470	1 262 864	51 258	176 715	1 034 891	3	
		2002.. 1 503 725	340 072	1 163 653	63 323	54 068	1 046 262	X	
311513	Cheese manufacturing	2004.. 409 090	84 832	324 258	4 124	21 806	298 328	7	
		2003.. 642 128	116 306	525 822	13 801	157 032	354 989	5	
		2002.. 544 040	117 029	427 011	8 935	18 324	399 752	X	
311514	Dry, condensed, and evaporated dairy product manufacturing	2004.. 275 398	44 453	230 945	2 567	7 522	220 856	2	
		2003.. 324 769	87 391	237 378	4 489	5 439	227 450	11	
		2002.. 348 052	81 000	267 052	12 913	16 139	238 000	X	
31151N	Fluid milk and butter manufacturing	2004.. 661 081	173 360	487 721	23 756	14 279	449 686	5	
		2003.. 628 436	128 773	499 663	32 968	14 244	452 452	4	
		2002.. 611 633	142 043	469 590	41 475	19 605	408 510	X	
31152	Ice cream and frozen dessert manufacturing	2004.. 272 197	62 309	209 888	7 525	5 829	196 534	2	
		2003.. 190 758	25 295	165 463	8 727	3 844	152 892	6	
		2002.. 232 062	50 953	181 109	6 998	6 126	167 985	X	
311520	Ice cream and frozen dessert manufacturing	2004.. 272 197	62 309	209 888	7 525	5 829	196 534	2	
		2003.. 190 758	25 295	165 463	8 727	3 844	152 892	6	
		2002.. 232 062	50 953	181 109	6 998	6 126	167 985	X	
3116	Animal slaughtering and processing	2004.. 2 192 258	513 200	1 679 058	57 093	70 558	1 551 407	5	
		2003.. 1 819 958	380 048	1 439 910	46 506	76 716	1 316 688	2	
		2002.. 2 039 997	450 064	1 589 933	67 007	98 596	1 424 330	X	
31161	Animal slaughtering and processing	2004.. 2 192 258	513 200	1 679 058	57 093	70 558	1 551 407	5	
		2003.. 1 819 958	380 048	1 439 910	46 506	76 716	1 316 688	2	
		2002.. 2 039 997	450 064	1 589 933	67 007	98 596	1 424 330	X	
311615	Poultry processing	2004.. 807 625	128 419	679 205	20 465	19 359	639 382	3	
		2003.. 639 995	127 548	512 448	12 709	15 144	484 594	4	
		2002.. 675 734	141 286	534 448	18 314	31 944	484 190	X	
31161N	Animal (except poultry) slaughtering and processing	2004.. 1 384 633	384 781	999 852	36 628	51 199	912 024	8	
		2003.. 1 179 963	252 500	927 462	33 797	61 572	832 093	3	
		2002.. 1 364 263	308 778	1 055 485	48 693	66 652	940 140	X	
3117	Seafood product preparation and packaging	2004.. 166 129	25 729	140 401	9 356	6 803	124 243	4	
		2003.. 161 768	34 596	127 172	9 942	10 886	106 344	6	
		2002.. 202 464	40 018	162 446	8 711	7 327	146 408	X	
31171	Seafood product preparation and packaging	2004.. 166 129	25 729	140 401	9 356	6 803	124 243	4	
		2003.. 161 768	34 596	127 172	9 942	10 886	106 344	6	
		2002.. 202 464	40 018	162 446	8 711	7 327	146 408	X	
31171M	Seafood product preparation and packaging	2004.. 166 129	25 729	140 401	9 356	6 803	124 243	4	
		2003.. 161 768	34 596	127 172	9 942	10 886	106 344	6	
		2002.. 202 464	40 018	162 446	8 711	7 327	146 408	X	
3118	Bakeries and tortilla manufacturing	2004.. 1 286 838	182 308	1 104 531	40 595	55 657	1 008 279	4	
		2003.. 1 562 094	313 391	1 248 704	86 786	72 822	1 089 096	5	
		2002.. 1 369 400	206 366	1 163 034	65 646	61 299	1 036 089	X	
31181	Bread and bakery product manufacturing	2004.. 862 453	140 402	722 052	35 181	33 583	653 288	6	
		2003.. 970 686	214 920	755 767	77 784	39 378	638 604	5	
		2002.. 909 962	124 469	785 493	55 316	44 046	686 131	X	
31181M	Bread and bakery product manufacturing	2004.. 862 453	140 402	722 052	35 181	33 583	653 288	6	
		2003.. 970 686	214 920	755 767	77 784	39 378	638 604	5	
		2002.. 909 962	124 469	785 493	55 316	44 046	686 131	X	
31182	Cookie, cracker, and pasta manufacturing	2004.. 379 608	35 888	343 720	3 302	19 369	321 048	4	
		2003.. 542 444	93 233	449 211	5 573	30 915	412 723	4	
		2002.. 406 236	75 173	331 063	7 760	14 085	309 218	X	
31182M	Cookie, cracker, and pasta manufacturing	2004.. 379 608	35 888	343 720	3 302	19 369	321 048	4	
		2003.. 542 444	93 233	449 211	5 573	30 915	412 723	4	
		2002.. 406 236	75 173	331 063	7 760	14 085	309 218	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
311	Food manufacturing—Con.								
3118	Bakeries and tortilla manufacturing—Con.								
31183	Tortilla manufacturing	2004.. 44 777	6 018	38 759	2 112	2 704	33 943	16	
		2003.. 48 964	5 238	43 726	3 428	2 529	37 769	18	
		2002.. 53 202	6 724	46 478	2 570	3 168	40 740	X	
311830	Tortilla manufacturing	2004.. 44 777	6 018	38 759	2 112	2 704	33 943	16	
		2003.. 48 964	5 238	43 726	3 428	2 529	37 769	18	
		2002.. 53 202	6 724	46 478	2 570	3 168	40 740	X	
3119	Other food manufacturing	2004.. 1 414 324	259 206	1 155 117	38 404	68 245	1 048 468	1	
		2003.. 1 290 611	185 597	1 105 015	49 957	100 669	954 389	2	
		2002.. 1 419 993	247 752	1 172 241	44 526	73 659	1 054 056	X	
31191	Snack food manufacturing	2004.. 409 668	94 945	314 724	6 583	10 954	297 187	1	
		2003.. 406 643	67 079	339 564	20 083	35 172	284 308	3	
		2002.. 475 371	93 127	382 244	13 162	16 404	352 678	X	
31191M	Snack food manufacturing	2004.. 409 668	94 945	314 724	6 583	10 954	297 187	1	
		2003.. 406 643	67 079	339 564	20 083	35 172	284 308	3	
		2002.. 475 371	93 127	382 244	13 162	16 404	352 678	X	
31192	Coffee and tea manufacturing	2004.. 148 185	11 402	136 783	4 016	9 618	123 148	3	
		2003.. 240 634	33 065	207 569	5 289	12 302	189 979	7	
		2002.. 160 176	16 869	143 307	3 184	6 408	133 715	X	
311920	Coffee and tea manufacturing	2004.. 148 185	11 402	136 783	4 016	9 618	123 148	3	
		2003.. 240 634	33 065	207 569	5 289	12 302	189 979	7	
		2002.. 160 176	16 869	143 307	3 184	6 408	133 715	X	
31193	Flavoring syrup and concentrate manufacturing	2004.. 62 374	18 261	44 113	2 129	2 500	39 484	4	
		2003.. 39 563	2 697	36 865	642	6 211	30 012	17	
		2002.. 70 420	10 778	59 642	2 124	7 044	50 474	X	
311930	Flavoring syrup and concentrate manufacturing	2004.. 62 374	18 261	44 113	2 129	2 500	39 484	4	
		2003.. 39 563	2 697	36 865	642	6 211	30 012	17	
		2002.. 70 420	10 778	59 642	2 124	7 044	50 474	X	
31194	Seasoning and dressing manufacturing	2004.. 259 780	46 127	213 653	7 660	14 777	191 216	3	
		2003.. 256 619	40 251	216 367	3 996	19 995	192 377	6	
		2002.. 302 075	67 312	234 763	8 738	19 044	206 981	X	
31194M	Seasoning and dressing manufacturing	2004.. 259 780	46 127	213 653	7 660	14 777	191 216	3	
		2003.. 256 619	40 251	216 367	3 996	19 995	192 377	6	
		2002.. 302 075	67 312	234 763	8 738	19 044	206 981	X	
31199	All other food manufacturing	2004.. 534 316	88 471	445 845	18 016	30 396	397 433	3	
		2003.. 347 153	42 503	304 650	19 947	26 989	257 713	4	
		2002.. 411 951	59 666	352 285	17 318	24 759	310 208	X	
31199M	All other food manufacturing	2004.. 534 316	88 471	445 845	18 016	30 396	397 433	3	
		2003.. 347 153	42 503	304 650	19 947	26 989	257 713	4	
		2002.. 411 951	59 666	352 285	17 318	24 759	310 208	X	
312	Beverage and tobacco product manufacturing	2004.. 2 884 386	478 342	2 406 044	97 447	96 949	2 211 649	1	
		2003.. 2 665 716	431 812	2 233 904	79 370	127 891	2 026 643	3	
		2002.. 3 362 820	628 406	2 734 414	105 514	123 763	2 505 137	X	
3121	Beverage manufacturing	2004.. 2 534 925	437 237	2 097 688	96 243	89 504	1 911 942	2	
		2003.. 2 371 226	399 580	1 971 646	78 868	118 410	1 774 368	3	
		2002.. 3 076 751	593 129	2 483 622	104 106	111 328	2 268 188	X	
31211	Soft drink and ice manufacturing	2004.. 1 171 234	178 551	992 683	81 150	34 299	877 234	3	
		2003.. 1 076 394	132 112	944 282	69 938	26 603	847 741	5	
		2002.. 1 319 274	186 161	1 133 113	75 932	44 375	1 012 806	X	
31211M	Soft drink and ice manufacturing	2004.. 1 171 234	178 551	992 683	81 150	34 299	877 234	3	
		2003.. 1 076 394	132 112	944 282	69 938	26 603	847 741	5	
		2002.. 1 319 274	186 161	1 133 113	75 932	44 375	1 012 806	X	
31212	Breweries	2004.. 885 340	D	D	5 091	35 889	D	1	
		2003.. 827 556	128 918	698 638	2 778	72 381	623 479	4	
		2002.. 1 148 082	279 339	868 743	16 552	43 864	808 327	X	
312120	Breweries	2004.. 885 340	D	D	5 091	35 889	D	1	
		2003.. 827 556	128 918	698 638	2 778	72 381	623 479	4	
		2002.. 1 148 082	279 339	868 743	16 552	43 864	808 327	X	
31213	Wineries	2004.. 381 198	108 022	273 177	7 747	15 934	249 496	8	
		2003.. 394 706	122 188	272 518	5 615	18 138	248 765	10	
		2002.. 502 742	103 745	398 997	9 990	18 771	370 236	X	
312130	Wineries	2004.. 381 198	108 022	273 177	7 747	15 934	249 496	8	
		2003.. 394 706	122 188	272 518	5 615	18 138	248 765	10	
		2002.. 502 742	103 745	398 997	9 990	18 771	370 236	X	
31214	Distilleries	2004.. 97 152	D	D	2 255	3 382	D	4	
		2003.. 72 570	16 363	56 207	537	1 288	54 383	3	
		2002.. 106 653	23 884	82 769	1 632	4 318	76 819	X	
312140	Distilleries	2004.. 97 152	D	D	2 255	3 382	D	4	
		2003.. 72 570	16 363	56 207	537	1 288	54 383	3	
		2002.. 106 653	23 884	82 769	1 632	4 318	76 819	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
312	Beverage and tobacco product manufacturing—Con.								
3122	Tobacco manufacturing.....	2004... 349 461	41 105	308 356	1 204	7 445	299 707	1	
		2003... 294 490	32 232	262 259	502	9 481	252 276	3	
		2002... 286 069	35 277	250 792	1 408	12 435	236 949	X	
31221	Tobacco stemming and redrying	2004... 12 665	736	11 929	196	402	11 331	1	
		2003... 24 576	5 740	18 836	220	601	18 015	1	
		2002... 9 266	1 704	7 562	216	932	6 414	X	
312210	Tobacco stemming and redrying	2004... 12 665	736	11 929	196	402	11 331	1	
		2003... 24 576	5 740	18 836	220	601	18 015	1	
		2002... 9 266	1 704	7 562	216	932	6 414	X	
31222	Tobacco product manufacturing	2004... 336 796	40 369	296 427	1 008	7 043	288 376	1	
		2003... 269 914	26 492	243 423	282	8 880	234 261	3	
		2002... 276 803	33 573	243 230	1 192	11 503	230 535	X	
31222M	Tobacco product manufacturing	2004... 336 796	40 369	296 427	1 008	7 043	288 376	1	
		2003... 269 914	26 492	243 423	282	8 880	234 261	3	
		2002... 276 803	33 573	243 230	1 192	11 503	230 535	X	
313	Textile mills	2004... 943 273	108 786	834 486	11 277	50 620	772 590	3	
		2003... 1 007 507	82 583	924 924	21 580	51 664	851 680	3	
		2002... 1 412 219	173 361	1 238 858	17 693	92 154	1 129 011	X	
3131	Fiber, yarn, and thread mills	2004... 210 781	21 428	189 353	1 353	3 552	184 448	12	
		2003... 212 267	15 184	197 083	2 241	7 499	187 343	8	
		2002... 286 618	41 514	245 104	2 558	32 565	209 981	X	
31311	Fiber, yarn, and thread mills	2004... 210 781	21 428	189 353	1 353	3 552	184 448	12	
		2003... 212 267	15 184	197 083	2 241	7 499	187 343	8	
		2002... 286 618	41 514	245 104	2 558	32 565	209 981	X	
31311M	Fiber, yarn, and thread mills	2004... 210 781	21 428	189 353	1 353	3 552	184 448	12	
		2003... 212 267	15 184	197 083	2 241	7 499	187 343	8	
		2002... 286 618	41 514	245 104	2 558	32 565	209 981	X	
3132	Fabric mills	2004... 528 166	64 910	463 256	7 216	32 507	423 533	1	
		2003... 577 188	51 852	525 337	7 856	34 568	482 912	3	
		2002... 893 931	93 116	800 815	10 290	49 365	741 160	X	
31321	Broadwoven fabric mills	2004... 236 486	25 920	210 566	3 853	10 949	195 763	2	
		2003... 188 371	9 161	179 210	3 216	11 454	164 540	5	
		2002... 327 510	36 954	290 556	3 730	12 893	273 933	X	
313210	Broadwoven fabric mills	2004... 236 486	25 920	210 566	3 853	10 949	195 763	2	
		2003... 188 371	9 161	179 210	3 216	11 454	164 540	5	
		2002... 327 510	36 954	290 556	3 730	12 893	273 933	X	
31322	Narrow fabric mills and schiffli machine embroidery	2004... 29 280	3 926	25 355	568	1 606	23 181	7	
		2003... 36 277	5 416	30 861	399	2 704	27 758	8	
		2002... 42 214	4 458	37 756	1 034	3 006	33 716	X	
31322M	Narrow fabric mills and schiffli machine embroidery	2004... 29 280	3 926	25 355	568	1 606	23 181	7	
		2003... 36 277	5 416	30 861	399	2 704	27 758	8	
		2002... 42 214	4 458	37 756	1 034	3 006	33 716	X	
31323	Nonwoven fabric mills	2004... 211 102	31 526	179 575	1 278	14 981	163 316	1	
		2003... 264 435	33 818	230 616	3 026	13 107	214 484	6	
		2002... 423 001	45 943	377 058	1 816	23 257	351 985	X	
313230	Nonwoven fabric mills	2004... 211 102	31 526	179 575	1 278	14 981	163 316	1	
		2003... 264 435	33 818	230 616	3 026	13 107	214 484	6	
		2002... 423 001	45 943	377 058	1 816	23 257	351 985	X	
31324	Knit fabric mills	2004... 51 299	3 538	47 761	1 517	4 971	41 273	5	
		2003... 88 106	3 456	84 649	1 216	7 303	76 131	9	
		2002... 101 206	5 761	95 445	3 710	10 209	81 526	X	
31324M	Knit fabric mills	2004... 51 299	3 538	47 761	1 517	4 971	41 273	5	
		2003... 88 106	3 456	84 649	1 216	7 303	76 131	9	
		2002... 101 206	5 761	95 445	3 710	10 209	81 526	X	
3133	Textile and fabric finishing and fabric coating mills.....	2004... 204 326	22 448	181 877	2 708	14 561	164 609	4	
		2003... 218 051	15 548	202 504	11 482	9 597	181 424	9	
		2002... 231 670	38 731	192 939	4 845	10 224	177 870	X	
31331	Textile and fabric finishing mills	2004... 149 241	19 777	129 464	2 132	10 898	116 435	4	
		2003... 181 181	10 286	170 896	11 121	6 867	152 907	11	
		2002... 187 610	28 819	158 791	3 907	6 871	148 013	X	
31331M	Textile and fabric finishing mills	2004... 149 241	19 777	129 464	2 132	10 898	116 435	4	
		2003... 181 181	10 286	170 896	11 121	6 867	152 907	11	
		2002... 187 610	28 819	158 791	3 907	6 871	148 013	X	
31332	Fabric coating mills	2004... 55 085	2 672	52 413	576	3 663	48 174	8	
		2003... 36 870	5 262	31 608	361	2 730	28 517	12	
		2002... 44 060	9 912	34 148	938	3 353	29 857	X	
313320	Fabric coating mills	2004... 55 085	2 672	52 413	576	3 663	48 174	8	
		2003... 36 870	5 262	31 608	361	2 730	28 517	12	
		2002... 44 060	9 912	34 148	938	3 353	29 857	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
314	Textile product mills	2004..	511 171	53 214	457 957	10 667	32 825	414 465	4
		2003..	376 036	27 454	348 583	14 461	25 854	308 269	5
		2002..	487 416	62 437	424 979	17 472	45 291	362 216	X
3141	Textile furnishings mills	2004..	292 002	18 552	273 450	5 084	20 104	248 262	2
		2003..	190 209	9 314	180 895	1 971	10 035	168 889	7
		2002..	226 499	29 106	197 393	7 175	23 741	166 477	X
31411	Carpet and rug mills	2004..	215 144	11 449	203 696	2 665	11 179	189 853	3
		2003..	137 538	5 633	131 906	646	3 369	127 891	10
		2002..	114 663	9 287	105 376	2 684	8 030	94 662	X
314110	Carpet and rug mills	2004..	215 144	11 449	203 696	2 665	11 179	189 853	3
		2003..	137 538	5 633	131 906	646	3 369	127 891	10
		2002..	114 663	9 287	105 376	2 684	8 030	94 662	X
31412	Curtain and linen mills	2004..	76 857	7 103	69 754	2 419	8 925	58 409	4
		2003..	52 671	3 681	48 990	1 325	6 666	40 998	6
		2002..	111 836	19 819	92 017	4 491	15 711	71 815	X
31412M	Curtain and linen mills	2004..	76 857	7 103	69 754	2 419	8 925	58 409	4
		2003..	52 671	3 681	48 990	1 325	6 666	40 998	6
		2002..	111 836	19 819	92 017	4 491	15 711	71 815	X
3149	Other textile product mills	2004..	219 169	34 662	184 507	5 583	12 721	166 203	8
		2003..	185 827	18 139	167 688	12 490	15 818	139 380	6
		2002..	260 917	33 331	227 586	10 297	21 550	195 739	X
31491	Textile bag and canvas mills	2004..	40 932	4 834	36 099	2 257	3 689	30 153	7
		2003..	52 467	5 868	46 599	3 775	6 953	35 871	13
		2002..	52 346	6 816	45 530	5 721	6 474	33 335	X
31491M	Textile bag and canvas mills	2004..	40 932	4 834	36 099	2 257	3 689	30 153	7
		2003..	52 467	5 868	46 599	3 775	6 953	35 871	13
		2002..	52 346	6 816	45 530	5 721	6 474	33 335	X
31499	All other textile product mills	2004..	178 237	29 829	148 408	3 327	9 032	136 050	10
		2003..	133 360	12 271	121 089	8 715	8 865	103 508	6
		2002..	208 571	26 515	182 056	4 576	15 076	162 404	X
314991	Rope, cordage, and twine mills	2004..	28 132	5 507	22 625	556	1 205	20 864	23
		2003..	12 846	1 628	11 219	195	1 203	9 821	5
		2002..	22 393	2 769	19 624	324	2 883	16 417	X
314992	Tire cord and tire fabric mills	2004..	21 607	1 557	20 049	19	779	19 251	1
		2003..	24 077	2 109	21 968	67	486	21 415	2
		2002..	26 879	6 760	20 119	189	964	18 966	X
314999	All other miscellaneous textile product mills	2004..	128 498	22 765	105 734	2 752	7 048	95 934	13
		2003..	96 436	8 534	87 902	8 453	7 177	72 273	8
		2002..	159 299	16 986	142 313	4 063	11 229	127 021	X
315	Apparel manufacturing	2004..	346 990	65 715	281 275	16 771	42 805	221 700	4
		2003..	405 464	79 378	326 086	19 017	76 581	230 488	5
		2002..	444 273	81 546	362 727	17 942	61 863	282 922	X
3151	Apparel knitting mills	2004..	78 053	19 343	58 710	1 947	7 020	49 743	10
		2003..	122 212	26 962	95 250	3 964	13 674	77 611	13
		2002..	106 851	20 175	86 676	3 647	5 970	77 059	X
31511	Hosiery and sock mills	2004..	53 006	10 217	42 789	1 705	4 826	36 258	15
		2003..	104 260	25 500	78 760	2 674	10 558	65 529	15
		2002..	67 108	8 228	58 880	1 311	3 709	53 860	X
31511M	Hosiery and sock mills	2004..	53 006	10 217	42 789	1 705	4 826	36 258	15
		2003..	104 260	25 500	78 760	2 674	10 558	65 529	15
		2002..	67 108	8 228	58 880	1 311	3 709	53 860	X
31519	Other apparel knitting mills	2004..	25 047	9 126	15 921	242	2 193	13 486	4
		2003..	17 952	1 462	16 489	1 291	3 117	12 082	9
		2002..	39 743	11 947	27 796	2 336	2 261	23 199	X
31519M	Other apparel knitting mills	2004..	25 047	9 126	15 921	242	2 193	13 486	4
		2003..	17 952	1 462	16 489	1 291	3 117	12 082	9
		2002..	39 743	11 947	27 796	2 336	2 261	23 199	X
3152	Cut and sew apparel manufacturing	2004..	252 381	44 226	208 155	14 188	33 063	160 904	4
		2003..	261 103	50 207	210 896	14 367	58 038	138 491	5
		2002..	302 029	49 208	252 821	11 943	52 412	188 466	X
31521	Cut and sew apparel contractors	2004..	111 201	11 038	100 163	8 178	9 597	82 389	8
		2003..	34 981	2 026	32 955	4 363	2 197	26 395	9
		2002..	45 624	6 020	39 604	3 800	3 947	31 857	X
31521M	Cut and sew apparel contractors	2004..	111 201	11 038	100 163	8 178	9 597	82 389	8
		2003..	34 981	2 026	32 955	4 363	2 197	26 395	9
		2002..	45 624	6 020	39 604	3 800	3 947	31 857	X
31522	Men's and boys' cut and sew apparel manufacturing	2004..	45 783	11 528	34 255	993	5 155	28 106	4
		2003..	72 291	32 595	39 695	1 603	9 399	28 693	9
		2002..	89 104	19 058	70 046	2 418	9 547	58 081	X
31522M	Men's and boys' cut and sew apparel manufacturing	2004..	45 783	11 528	34 255	993	5 155	28 106	4
		2003..	72 291	32 595	39 695	1 603	9 399	28 693	9
		2002..	89 104	19 058	70 046	2 418	9 547	58 081	X

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
315	Apparel manufacturing—Con.								
3152	Cut and sew apparel manufacturing—Con.								
31523	Women's and girls' cut and sew apparel manufacturing	2004.. 80 380	20 328	60 053	3 401	16 082	40 569	3	
		2003.. 130 897	11 239	119 659	7 295	44 603	67 761	7	
		2002.. 148 262	22 198	126 064	5 009	36 141	84 914	X	
31523M	Women's and girls' cut and sew apparel manufacturing	2004.. 80 380	20 328	60 053	3 401	16 082	40 569	3	
		2003.. 130 897	11 239	119 659	7 295	44 603	67 761	7	
		2002.. 148 262	22 198	126 064	5 009	36 141	84 914	X	
31529	Other cut and sew apparel manufacturing	2004.. 15 017	1 333	13 685	1 615	2 229	9 840	14	
		2003.. 22 934	4 347	18 587	1 107	1 838	15 642	27	
		2002.. 19 039	1 932	17 107	716	2 777	13 614	X	
31529M	Other cut and sew apparel manufacturing	2004.. 15 017	1 333	13 685	1 615	2 229	9 840	14	
		2003.. 22 934	4 347	18 587	1 107	1 838	15 642	27	
		2002.. 19 039	1 932	17 107	716	2 777	13 614	X	
3159	Apparel accessories and other apparel manufacturing	2004.. 16 556	2 146	14 410	636	2 722	11 053	13	
		2003.. 22 149	2 209	19 941	685	4 869	14 387	11	
		2002.. 35 393	12 163	23 230	2 352	3 481	17 397	X	
31599	Apparel accessories and other apparel manufacturing	2004.. 16 556	2 146	14 410	636	2 722	11 053	13	
		2003.. 22 149	2 209	19 941	685	4 869	14 387	11	
		2002.. 35 393	12 163	23 230	2 352	3 481	17 397	X	
31599M	Apparel accessories and other apparel manufacturing	2004.. 16 556	2 146	14 410	636	2 722	11 053	13	
		2003.. 22 149	2 209	19 941	685	4 869	14 387	11	
		2002.. 35 393	12 163	23 230	2 352	3 481	17 397	X	
316	Leather and allied product manufacturing	2004.. 80 890	17 358	63 532	1 712	4 986	56 834	1	
		2003.. 79 556	8 970	70 587	1 788	7 563	61 235	7	
		2002.. 78 186	9 879	68 307	3 283	8 981	56 043	X	
3161	Leather and hide tanning and finishing	2004.. 22 010	3 256	18 753	248	574	17 931	1	
		2003.. 25 019	2 570	22 449	90	462	21 898	6	
		2002.. 23 781	2 990	20 791	465	464	19 862	X	
31611	Leather and hide tanning and finishing	2004.. 22 010	3 256	18 753	248	574	17 931	1	
		2003.. 25 019	2 570	22 449	90	462	21 898	6	
		2002.. 23 781	2 990	20 791	465	464	19 862	X	
316110	Leather and hide tanning and finishing	2004.. 22 010	3 256	18 753	248	574	17 931	1	
		2003.. 25 019	2 570	22 449	90	462	21 898	6	
		2002.. 23 781	2 990	20 791	465	464	19 862	X	
3162	Footwear manufacturing	2004.. 30 111	5 272	24 839	743	1 215	22 882	2	
		2003.. 31 353	3 996	27 357	1 386	3 839	22 132	10	
		2002.. 33 976	3 484	30 492	1 443	3 762	25 287	X	
31621	Footwear manufacturing	2004.. 30 111	5 272	24 839	743	1 215	22 882	2	
		2003.. 31 353	3 996	27 357	1 386	3 839	22 132	10	
		2002.. 33 976	3 484	30 492	1 443	3 762	25 287	X	
31621M	Footwear manufacturing	2004.. 30 111	5 272	24 839	743	1 215	22 882	2	
		2003.. 31 353	3 996	27 357	1 386	3 839	22 132	10	
		2002.. 33 976	3 484	30 492	1 443	3 762	25 287	X	
3169	Other leather and allied product manufacturing	2004.. 28 769	8 830	19 939	721	3 197	16 020	3	
		2003.. 23 184	2 404	20 780	312	3 262	17 205	18	
		2002.. 20 429	3 405	17 024	1 375	4 755	10 894	X	
31699	Other leather and allied product manufacturing	2004.. 28 769	8 830	19 939	721	3 197	16 020	3	
		2003.. 23 184	2 404	20 780	312	3 262	17 205	18	
		2002.. 20 429	3 405	17 024	1 375	4 755	10 894	X	
31699M	Other leather and allied product manufacturing	2004.. 28 769	8 830	19 939	721	3 197	16 020	3	
		2003.. 23 184	2 404	20 780	312	3 262	17 205	18	
		2002.. 20 429	3 405	17 024	1 375	4 755	10 894	X	
321	Wood product manufacturing	2004.. 2 713 459	462 039	2 251 420	141 414	126 044	1 983 962	3	
		2003.. 2 135 958	264 437	1 871 521	154 423	125 106	1 591 993	4	
		2002.. 2 415 571	384 533	2 031 038	150 750	131 616	1 748 672	X	
3211	Sawmills and wood preservation	2004.. 897 119	95 053	802 067	48 328	28 752	724 987	4	
		2003.. 821 732	73 693	748 038	51 602	23 194	673 242	10	
		2002.. 812 942	96 659	716 283	40 945	30 591	644 747	X	
32111	Sawmills and wood preservation	2004.. 897 119	95 053	802 067	48 328	28 752	724 987	4	
		2003.. 821 732	73 693	748 038	51 602	23 194	673 242	10	
		2002.. 812 942	96 659	716 283	40 945	30 591	644 747	X	
32111M	Sawmills and wood preservation	2004.. 897 119	95 053	802 067	48 328	28 752	724 987	4	
		2003.. 821 732	73 693	748 038	51 602	23 194	673 242	10	
		2002.. 812 942	96 659	716 283	40 945	30 591	644 747	X	
3212	Veneer, plywood, and engineered wood product manufacturing	2004.. 687 247	75 188	612 059	26 563	37 842	547 653	2	
		2003.. 489 067	61 268	427 799	33 495	16 936	377 369	4	
		2002.. 564 931	59 235	505 696	33 943	18 920	452 833	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
321	Wood product manufacturing—Con.								
3212	Veneer, plywood, and engineered wood product manufacturing—Con.								
32121	Veneer, plywood, and engineered wood product manufacturing	2004.. 687 247	75 188	612 059	26 563	37 842	547 653	2	
		2003.. 489 067	61 268	427 799	33 495	16 936	377 369	4	
		2002.. 564 931	59 235	505 696	33 943	18 920	452 833	X	
321219	Reconstituted wood product manufacturing	2004.. 298 324	26 545	271 779	1 989	4 786	265 004	3	
		2003.. 191 203	21 454	169 749	1 849	3 032	164 868	7	
		2002.. 257 669	26 247	231 422	2 208	4 318	224 896	X	
32121N	Veneer and plywood manufacturing	2004.. 208 747	20 104	188 642	4 700	24 229	159 713	2	
		2003.. 139 176	15 944	123 233	4 118	3 841	115 273	5	
		2002.. 163 921	12 731	151 190	5 356	4 595	141 239	X	
32121P	Engineered wood product manufacturing	2004.. 180 176	28 539	151 638	19 874	8 828	122 936	6	
		2003.. 158 688	23 871	134 817	27 527	10 062	97 228	8	
		2002.. 143 341	20 257	123 084	26 379	10 007	86 698	X	
3219	Other wood product manufacturing	2004.. 1 129 092	291 798	837 294	66 522	59 451	711 322	6	
		2003.. 825 159	129 475	695 684	69 326	84 976	541 382	4	
		2002.. 1 037 698	228 639	809 059	75 862	82 105	651 092	X	
32191	Millwork	2004.. 687 642	145 007	542 635	27 704	32 582	482 349	8	
		2003.. 477 949	55 940	422 008	21 827	53 011	347 170	5	
		2002.. 610 976	144 987	465 989	27 429	46 896	391 664	X	
32191M	Millwork	2004.. 687 642	145 007	542 635	27 704	32 582	482 349	8	
		2003.. 477 949	55 940	422 008	21 827	53 011	347 170	5	
		2002.. 610 976	144 987	465 989	27 429	46 896	391 664	X	
32192	Wood container and pallet manufacturing	2004.. 141 519	38 940	102 579	16 254	9 701	76 624	17	
		2003.. 105 487	19 513	85 974	13 181	5 759	67 034	13	
		2002.. 120 624	14 323	106 301	14 247	10 105	81 949	X	
321920	Wood container and pallet manufacturing	2004.. 141 519	38 940	102 579	16 254	9 701	76 624	17	
		2003.. 105 487	19 513	85 974	13 181	5 759	67 034	13	
		2002.. 120 624	14 323	106 301	14 247	10 105	81 949	X	
32199	All other wood product manufacturing	2004.. 299 932	107 852	192 080	22 564	17 168	152 349	8	
		2003.. 241 723	54 022	187 701	34 317	26 206	127 178	5	
		2002.. 306 098	69 329	236 769	34 186	25 104	177 479	X	
321991	Manufactured home (mobile home) manufacturing	2004.. 62 178	25 406	36 772	5 495	3 846	27 431	2	
		2003.. 58 556	26 365	32 191	5 240	4 036	22 915	8	
		2002.. 71 886	24 459	47 427	7 204	5 403	34 820	X	
321992	Prefabricated wood building manufacturing	2004.. 84 579	33 924	50 655	9 292	8 317	33 046	8	
		2003.. 64 213	13 771	50 442	21 213	5 143	24 085	8	
		2002.. 81 662	26 323	55 339	16 524	5 317	33 498	X	
321999	All other miscellaneous wood product manufacturing	2004.. 153 175	48 522	104 653	7 776	5 006	91 871	16	
		2003.. 118 955	13 886	105 069	7 864	17 027	80 178	9	
		2002.. 152 550	18 547	134 003	10 458	14 384	109 161	X	
322	Paper manufacturing	2004.. 5 165 869	391 426	4 774 443	45 690	151 490	4 577 264	1	
		2003.. 5 999 015	622 355	5 376 660	70 476	206 719	5 099 465	1	
		2002.. 6 253 561	800 015	5 453 546	72 867	233 017	5 147 662	X	
3221	Pulp, paper, and paperboard mills	2004.. 3 141 689	175 138	2 966 551	8 674	80 467	2 877 411	1	
		2003.. 3 689 920	313 823	3 376 097	25 050	105 853	3 245 195	1	
		2002.. 3 766 057	455 097	3 310 960	19 975	122 086	3 168 899	X	
32211	Pulp mills	2004.. 186 602	13 751	172 851	424	3 669	168 758	1	
		2003.. 182 069	10 890	171 179	217	4 452	166 510	3	
		2002.. 188 847	5 318	183 529	2 355	5 704	175 470	X	
322110	Pulp mills	2004.. 186 602	13 751	172 851	424	3 669	168 758	1	
		2003.. 182 069	10 890	171 179	217	4 452	166 510	3	
		2002.. 188 847	5 318	183 529	2 355	5 704	175 470	X	
32212	Paper mills	2004.. 2 024 597	124 440	1 900 157	5 634	54 113	1 840 411	1	
		2003.. 2 742 997	244 398	2 498 600	13 239	88 493	2 396 867	1	
		2002.. 2 761 380	384 457	2 376 923	8 405	80 899	2 287 619	X	
32212M	Paper and newsprint mills	2004.. 2 024 597	124 440	1 900 157	5 634	54 113	1 840 411	1	
		2003.. 2 742 997	244 398	2 498 600	13 239	88 493	2 396 867	1	
		2002.. 2 761 380	384 457	2 376 923	8 405	80 899	2 287 619	X	
32213	Paperboard mills	2004.. 930 490	36 947	893 543	2 616	22 686	868 242	3	
		2003.. 764 855	58 536	706 319	11 594	12 907	681 818	3	
		2002.. 815 830	65 322	750 508	9 215	35 483	705 810	X	
322130	Paperboard mills	2004.. 930 490	36 947	893 543	2 616	22 686	868 242	3	
		2003.. 764 855	58 536	706 319	11 594	12 907	681 818	3	
		2002.. 815 830	65 322	750 508	9 215	35 483	705 810	X	
3222	Converted paper product manufacturing	2004.. 2 024 179	216 288	1 807 892	37 016	71 022	1 699 853	2	
		2003.. 2 309 094	308 532	2 000 562	45 426	100 866	1 854 270	4	
		2002.. 2 487 504	344 918	2 142 586	52 892	110 931	1 978 763	X	
32221	Paperboard container manufacturing	2004.. 1 201 854	138 834	1 063 020	23 039	37 411	1 002 571	4	
		2003.. 1 209 824	151 188	1 058 636	34 180	40 904	983 552	6	
		2002.. 1 294 323	158 050	1 136 273	32 522	56 631	1 047 120	X	
32221M	Paperboard container manufacturing	2004.. 1 201 854	138 834	1 063 020	23 039	37 411	1 002 571	4	
		2003.. 1 209 824	151 188	1 058 636	34 180	40 904	983 552	6	
		2002.. 1 294 323	158 050	1 136 273	32 522	56 631	1 047 120	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
322	Paper manufacturing—Con.								
3222	Converted paper product manufacturing—Con.								
32222	Paper bag and coated and treated paper manufacturing ...	2004.. 333 957	33 649	300 308	5 888	15 284	279 136	3	
		2003.. 410 471	81 397	329 074	4 307	19 759	305 008	8	
		2002.. 530 677	98 213	432 464	8 098	19 890	404 476	X	
32222N	Coated and laminated paper and packaging manufacturing	2004.. 224 342	26 861	197 480	3 777	9 592	184 111	4	
		2003.. 287 385	67 598	219 787	3 645	14 284	201 858	12	
		2002.. 406 375	89 130	317 245	6 274	16 099	294 872	X	
32222P	Coated, uncoated, and multiwall bag and packaging manufacturing	2004.. 109 616	6 788	102 827	2 111	5 692	95 025	6	
		2003.. 123 086	13 800	109 287	662	5 475	103 150	6	
		2002.. 124 302	9 083	115 219	1 824	3 791	109 604	X	
32223	Stationery product manufacturing	2004.. 91 803	12 315	79 489	2 324	7 252	69 912	4	
		2003.. 93 808	6 302	87 507	1 505	11 978	74 024	7	
		2002.. 143 468	20 617	122 851	5 032	11 876	105 943	X	
32223M	Stationery product manufacturing	2004.. 91 803	12 315	79 489	2 324	7 252	69 912	4	
		2003.. 93 808	6 302	87 507	1 505	11 978	74 024	7	
		2002.. 143 468	20 617	122 851	5 032	11 876	105 943	X	
32229	Other converted paper product manufacturing	2004.. 396 565	31 490	365 075	5 765	11 076	348 234	2	
		2003.. 594 991	69 645	525 346	5 434	28 226	491 686	7	
		2002.. 519 036	68 038	450 998	7 240	22 534	421 224	X	
322291	Sanitary paper product manufacturing	2004.. 279 060	19 828	259 232	477	4 730	254 025	1	
		2003.. 457 768	35 066	422 702	1 281	15 926	405 495	4	
		2002.. 414 819	55 461	359 358	2 212	15 254	341 892	X	
322299	All other converted paper product manufacturing	2004.. 117 506	11 662	105 843	5 288	6 346	94 210	6	
		2003.. 137 223	34 579	102 644	4 153	12 300	86 191	25	
		2002.. 104 217	12 577	91 640	5 028	7 280	79 332	X	
323	Printing and related support activities	2004.. 4 087 603	375 802	3 711 801	100 666	393 332	3 217 803	3	
		2003.. 3 471 649	305 502	3 166 147	100 131	348 736	2 717 280	5	
		2002.. 3 872 444	431 207	3 441 237	125 101	417 565	2 898 571	X	
3231	Printing and related support activities	2004.. 4 087 603	375 802	3 711 801	100 666	393 332	3 217 803	3	
		2003.. 3 471 649	305 502	3 166 147	100 131	348 736	2 717 280	5	
		2002.. 3 872 444	431 207	3 441 237	125 101	417 565	2 898 571	X	
32311	Printing	2004.. 3 940 681	364 085	3 576 596	95 567	367 348	3 113 681	3	
		2003.. 3 258 439	273 114	2 985 325	88 696	316 422	2 580 207	5	
		2002.. 3 668 786	409 206	3 259 580	115 769	382 591	2 761 220	X	
32311M	Printing	2004.. 3 940 681	364 085	3 576 596	95 567	367 348	3 113 681	3	
		2003.. 3 258 439	273 114	2 985 325	88 696	316 422	2 580 207	5	
		2002.. 3 668 786	409 206	3 259 580	115 769	382 591	2 761 220	X	
32312	Support activities for printing	2004.. 146 922	11 717	135 206	5 099	25 984	104 122	6	
		2003.. 213 210	32 388	180 822	11 435	32 314	137 073	13	
		2002.. 203 658	22 001	181 657	9 332	34 974	137 351	X	
32312M	Support activities for printing	2004.. 146 922	11 717	135 206	5 099	25 984	104 122	6	
		2003.. 213 210	32 388	180 822	11 435	32 314	137 073	13	
		2002.. 203 658	22 001	181 657	9 332	34 974	137 351	X	
324	Petroleum and coal products manufacturing	2004.. 7 150 369	1 024 538	6 125 831	56 144	133 975	5 935 712	1	
		2003.. 7 455 104	1 033 916	6 421 188	85 691	195 501	6 139 996	2	
		2002.. 8 173 462	3 472 427	4 701 035	55 643	212 984	4 432 408	X	
3241	Petroleum and coal products manufacturing	2004.. 7 150 369	1 024 538	6 125 831	56 144	133 975	5 935 712	1	
		2003.. 7 455 104	1 033 916	6 421 188	85 691	195 501	6 139 996	2	
		2002.. 8 173 462	3 472 427	4 701 035	55 643	212 984	4 432 408	X	
32411	Petroleum refineries	2004.. 6 530 087	898 056	5 632 031	41 168	119 435	5 471 428	1	
		2003.. 6 891 846	862 419	6 029 427	66 556	182 128	5 780 744	2	
		2002.. 7 394 159	3 306 224	4 087 935	26 701	188 568	3 872 666	X	
324110	Petroleum refineries	2004.. 6 530 087	898 056	5 632 031	41 168	119 435	5 471 428	1	
		2003.. 6 891 846	862 419	6 029 427	66 556	182 128	5 780 744	2	
		2002.. 7 394 159	3 306 224	4 087 935	26 701	188 568	3 872 666	X	
32412	Asphalt paving, roofing, and saturated materials manufacturing	2004.. 497 037	95 030	402 007	12 006	9 115	380 885	5	
		2003.. 367 851	58 407	309 444	16 016	7 184	286 244	3	
		2002.. 515 007	50 637	464 370	22 562	14 388	427 420	X	
324121	Asphalt paving mixture and block manufacturing	2004.. 214 918	51 751	163 167	10 029	4 489	148 649	4	
		2003.. 204 331	45 280	159 051	14 558	3 838	140 655	5	
		2002.. 303 488	34 728	268 760	20 136	10 370	238 254	X	
324122	Asphalt shingle and coating materials manufacturing	2004.. 282 118	43 279	238 839	1 978	4 626	232 235	8	
		2003.. 163 519	13 126	150 393	1 458	3 346	145 589	3	
		2002.. 211 519	15 909	195 610	2 426	4 018	189 166	X	
32419	Other petroleum and coal products manufacturing	2004.. 123 246	31 452	91 794	2 969	5 425	83 400	6	
		2003.. 195 408	113 091	82 317	3 119	6 190	73 009	3	
		2002.. 264 296	115 566	148 730	6 380	10 028	132 322	X	
324191	Petroleum lubricating oil and grease manufacturing	2004.. 90 467	19 218	71 249	2 600	4 894	63 755	6	
		2003.. 102 334	36 285	66 049	2 242	6 017	57 790	5	
		2002.. 109 810	13 241	96 569	3 870	6 208	86 491	X	
324199	All other petroleum and coal products manufacturing	2004.. 32 779	12 234	20 545	369	531	19 645	17	
		2003.. 93 074	76 805	16 268	877	2 173	15 219	2	
		2002.. 154 486	102 325	52 161	2 510	3 820	45 831	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures	
325	Chemical manufacturing	2004.. 17 112 744	3 684 344	13 428 401	166 232	780 133	12 482 036	1
		2003.. 15 588 168	2 639 560	12 948 608	232 851	795 019	11 920 738	2
		2002.. 17 834 091	3 348 299	14 485 792	276 169	927 297	13 282 326	X
3251	Basic chemical manufacturing	2004.. 4 557 258	442 809	4 114 449	28 868	88 445	3 997 136	3
		2003.. 4 059 538	281 426	3 778 111	41 859	89 826	3 646 426	3
		2002.. 4 869 260	557 180	4 312 080	68 504	183 974	4 059 602	X
32511	Petrochemical manufacturing	2004.. 395 318	11 546	383 772	1 854	5 742	376 176	5
		2003.. 870 447	2 805	867 642	998	2 475	864 169	1
		2002.. 573 815	92 784	481 031	7 317	19 164	454 550	X
325110	Petrochemical manufacturing	2004.. 395 318	11 546	383 772	1 854	5 742	376 176	5
		2003.. 870 447	2 805	867 642	998	2 475	864 169	1
		2002.. 573 815	92 784	481 031	7 317	19 164	454 550	X
32512	Industrial gas manufacturing	2004.. 784 264	21 706	762 558	6 724	11 495	744 339	5
		2003.. 340 539	51 440	289 099	23 165	5 157	260 777	20
		2002.. 346 652	16 650	330 002	18 180	5 058	306 764	X
325120	Industrial gas manufacturing	2004.. 784 264	21 706	762 558	6 724	11 495	744 339	5
		2003.. 340 539	51 440	289 099	23 165	5 157	260 777	20
		2002.. 346 652	16 650	330 002	18 180	5 058	306 764	X
32513	Synthetic dye and pigment manufacturing	2004.. 226 040	40 388	185 652	1 678	4 830	179 144	2
		2003.. 246 361	24 408	221 952	5 017	9 960	206 975	5
		2002.. 243 907	48 547	195 360	1 855	8 252	185 253	X
32513M	Synthetic dye and pigment manufacturing	2004.. 226 040	40 388	185 652	1 678	4 830	179 144	2
		2003.. 246 361	24 408	221 952	5 017	9 960	206 975	5
		2002.. 243 907	48 547	195 360	1 855	8 252	185 253	X
32518	Other basic inorganic chemical manufacturing	2004.. 662 559	79 613	582 946	5 947	16 894	560 105	3
		2003.. 771 120	79 411	691 709	7 204	21 312	663 192	7
		2002.. 1 017 349	147 079	870 270	19 203	59 012	792 055	X
325181	Alkalies and chlorine manufacturing	2004.. 178 985	10 690	168 295	555	1 489	166 251	6
		2003.. 140 139	5 299	134 839	D	D	131 464	9
		2002.. 125 042	10 744	114 298	D	D	111 615	X
325182	Carbon black manufacturing	2004.. 50 055	9 538	40 517	88	229	40 199	3
		2003.. 50 195	10 372	39 823	D	D	38 502	4
		2002.. 40 087	5 470	34 617	D	D	29 256	X
325188	All other basic inorganic chemical manufacturing	2004.. 433 519	59 385	374 134	5 304	15 176	353 654	4
		2003.. 580 786	63 740	517 046	6 045	17 774	493 227	10
		2002.. 852 220	130 865	721 355	16 942	53 229	651 184	X
32519	Other basic organic chemical manufacturing	2004.. 2 489 077	289 557	2 199 520	12 665	49 483	2 137 372	5
		2003.. 1 831 071	123 361	1 707 709	5 476	50 921	1 651 312	4
		2002.. 2 687 537	252 120	2 435 417	21 949	92 488	2 320 980	X
32519M	Other basic organic chemical manufacturing	2004.. 2 489 077	289 557	2 199 520	12 665	49 483	2 137 372	5
		2003.. 1 831 071	123 361	1 707 709	5 476	50 921	1 651 312	4
		2002.. 2 687 537	252 120	2 435 417	21 949	92 488	2 320 980	X
3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	2004.. 2 194 372	161 606	2 032 766	10 041	33 499	1 989 226	2
		2003.. 1 981 966	176 834	1 805 132	5 764	52 328	1 747 040	2
		2002.. 2 570 499	270 697	2 299 802	10 713	68 894	2 220 195	X
32521	Resin and synthetic rubber manufacturing	2004.. 2 079 239	145 783	1 933 456	9 861	31 741	1 891 855	2
		2003.. 1 751 771	169 473	1 582 298	5 624	50 053	1 526 620	2
		2002.. 2 348 201	256 161	2 092 040	10 140	63 847	2 018 053	X
325211	Plastics material and resin manufacturing	2004.. 1 831 707	121 473	1 710 234	9 563	25 401	1 675 270	2
		2003.. 1 504 090	126 344	1 377 746	5 146	41 155	1 331 444	2
		2002.. 2 067 927	229 275	1 838 652	9 192	55 385	1 774 075	X
325212	Synthetic rubber manufacturing	2004.. 247 532	24 309	223 223	298	6 340	216 585	3
		2003.. 247 681	43 129	204 552	478	8 898	195 176	9
		2002.. 280 274	26 886	253 388	948	8 462	243 978	X
32522	Artificial and synthetic fibers and filaments manufacturing	2004.. 115 133	15 823	99 310	180	1 759	97 371	3
		2003.. 230 195	7 360	222 835	140	2 275	220 420	1
		2002.. 222 298	14 536	207 762	573	5 047	202 142	X
32522M	Artificial and synthetic fibers and filaments manufacturing	2004.. 115 133	15 823	99 310	180	1 759	97 371	3
		2003.. 230 195	7 360	222 835	140	2 275	220 420	1
		2002.. 222 298	14 536	207 762	573	5 047	202 142	X
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing	2004.. 685 984	94 198	591 786	16 165	13 583	562 039	9
		2003.. 492 975	54 690	438 284	7 826	9 329	421 129	3
		2002.. 625 281	106 580	518 701	16 471	11 119	491 111	X
32531	Fertilizer manufacturing	2004.. 450 119	83 570	366 549	11 766	6 937	347 846	11
		2003.. 347 026	50 047	296 979	6 901	4 693	285 385	4
		2002.. 454 627	87 112	367 515	13 625	7 273	346 617	X
325311	Nitrogenous fertilizer manufacturing	2004.. 68 000	658	67 342	319	774	66 248	2
		2003.. 85 689	1 458	84 232	642	1 077	82 513	10
		2002.. 108 669	7 802	100 867	1 449	916	98 502	X
325312	Phosphatic fertilizer manufacturing	2004.. 206 360	44 998	161 362	1 011	2 700	157 651	1
		2003.. 187 757	44 744	143 012	1 118	2 679	140 215	2
		2002.. 249 719	59 660	190 059	2 607	3 207	184 245	X

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				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
325	Chemical manufacturing—Con.								
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing—Con.								
32531	Fertilizer manufacturing—Con.								
325314	Fertilizer (mixing only) manufacturing	2004.. 175 759	37 914	137 845	10 436	3 463	123 946	27	
		2003.. 73 580	3 845	69 735	5 141	1 937	62 656	12	
		2002.. 96 239	19 650	76 589	9 569	3 150	63 870	X	
32532	Pesticide and other agricultural chemical manufacturing ...	2004.. 235 866	10 628	225 238	4 399	6 645	214 193	16	
		2003.. 145 949	4 644	141 305	9 925	4 636	135 744	8	
		2002.. 170 654	19 468	151 186	2 846	3 846	144 494	X	
325320	Pesticide and other agricultural chemical manufacturing	2004.. 235 866	10 628	225 238	4 399	6 645	214 193	16	
		2003.. 145 949	4 644	141 305	9 925	4 636	135 744	8	
		2002.. 170 654	19 468	151 186	2 846	3 846	144 494	X	
3254	Pharmaceutical and medicine manufacturing	2004.. 7 085 946	2 512 600	4 573 346	58 216	514 463	4 000 667	1	
		2003.. 5 947 104	1 693 977	4 253 127	125 633	411 182	3 716 312	6	
		2002.. 5 779 601	1 793 076	3 986 525	110 196	423 354	3 452 975	X	
32541	Pharmaceutical and medicine manufacturing	2004.. 7 085 946	2 512 600	4 573 346	58 216	514 463	4 000 667	1	
		2003.. 5 947 104	1 693 977	4 253 127	125 633	411 182	3 716 312	6	
		2002.. 5 779 601	1 793 076	3 986 525	110 196	423 354	3 452 975	X	
325411	Medicinal and botanical manufacturing	2004.. 604 703	141 969	462 734	4 278	31 371	427 085	4	
		2003.. 643 120	169 135	473 984	2 168	29 843	441 973	8	
		2002.. 754 288	216 489	537 799	6 522	31 932	499 345	X	
325412	Pharmaceutical preparation manufacturing	2004.. 5 686 067	2 167 249	3 518 818	47 564	419 931	3 051 322	2	
		2003.. 4 493 867	1 322 164	3 171 703	119 700	323 278	2 728 725	8	
		2002.. 4 184 151	1 299 026	2 885 125	97 390	327 764	2 459 971	X	
325413	In-vitro diagnostic substance manufacturing	2004.. 246 981	34 960	212 020	2 843	34 635	174 542	3	
		2003.. 256 228	35 303	220 925	857	32 783	187 286	3	
		2002.. 279 550	45 662	233 888	2 037	35 032	196 819	X	
325414	Biological product (except diagnostic) manufacturing ...	2004.. 548 195	168 422	379 774	3 531	28 526	347 717	7	
		2003.. 553 889	167 374	386 515	2 908	25 279	358 328	2	
		2002.. 561 612	231 899	329 713	4 247	28 626	296 840	X	
3255	Paint, coating, and adhesive manufacturing	2004.. 382 235	59 511	322 723	6 354	24 267	292 103	5	
		2003.. 539 057	90 870	448 188	9 732	75 329	363 127	4	
		2002.. 623 774	119 874	503 900	12 620	81 021	410 259	X	
32551	Paint and coating manufacturing	2004.. 206 777	35 991	170 786	3 684	13 508	153 594	3	
		2003.. 352 568	73 487	279 081	6 163	60 340	212 577	3	
		2002.. 446 106	95 232	350 874	10 012	72 384	268 478	X	
325510	Paint and coating manufacturing	2004.. 206 777	35 991	170 786	3 684	13 508	153 594	3	
		2003.. 352 568	73 487	279 081	6 163	60 340	212 577	3	
		2002.. 446 106	95 232	350 874	10 012	72 384	268 478	X	
32552	Adhesive manufacturing	2004.. 175 457	23 520	151 937	2 669	10 759	138 509	11	
		2003.. 186 489	17 383	169 106	3 569	14 988	150 549	9	
		2002.. 177 668	24 642	153 026	2 608	8 637	141 781	X	
325520	Adhesive manufacturing	2004.. 175 457	23 520	151 937	2 669	10 759	138 509	11	
		2003.. 186 489	17 383	169 106	3 569	14 988	150 549	9	
		2002.. 177 668	24 642	153 026	2 608	8 637	141 781	X	
3256	Soap, cleaning compound, and toilet preparation manufacturing	2004.. 1 263 001	256 571	1 006 430	19 717	57 815	928 899	3	
		2003.. 1 343 138	153 558	1 189 580	18 551	76 350	1 094 679	3	
		2002.. 2 059 783	274 061	1 785 722	32 784	92 617	1 660 321	X	
32561	Soap and cleaning compound manufacturing	2004.. 642 631	73 390	569 241	12 477	29 797	526 966	4	
		2003.. 682 203	75 003	607 200	10 992	30 118	566 090	5	
		2002.. 1 373 217	155 294	1 217 923	14 172	37 674	1 166 077	X	
32561M	Soap and cleaning compound manufacturing	2004.. 642 631	73 390	569 241	12 477	29 797	526 966	4	
		2003.. 682 203	75 003	607 200	10 992	30 118	566 090	5	
		2002.. 1 373 217	155 294	1 217 923	14 172	37 674	1 166 077	X	
32562	Toilet preparation manufacturing	2004.. 620 370	183 181	437 190	7 239	28 018	401 933	5	
		2003.. 660 935	78 555	582 380	7 559	46 232	528 589	4	
		2002.. 686 566	118 767	567 799	18 612	54 943	494 244	X	
325620	Toilet preparation manufacturing	2004.. 620 370	183 181	437 190	7 239	28 018	401 933	5	
		2003.. 660 935	78 555	582 380	7 559	46 232	528 589	4	
		2002.. 686 566	118 767	567 799	18 612	54 943	494 244	X	
3259	Other chemical product and preparation manufacturing	2004.. 943 949	157 049	786 900	26 872	48 062	711 966	5	
		2003.. 1 224 390	188 205	1 036 185	23 485	80 674	932 026	4	
		2002.. 1 305 893	226 831	1 079 062	24 881	66 318	987 863	X	
32591	Printing ink manufacturing	2004.. 106 158	14 954	91 205	2 691	4 004	84 510	37	
		2003.. 98 347	17 625	80 722	4 730	11 583	64 409	8	
		2002.. 102 066	13 498	88 568	3 910	8 461	76 197	X	
325910	Printing ink manufacturing	2004.. 106 158	14 954	91 205	2 691	4 004	84 510	37	
		2003.. 98 347	17 625	80 722	4 730	11 583	64 409	8	
		2002.. 102 066	13 498	88 568	3 910	8 461	76 197	X	
32592	Explosives manufacturing	2004.. 22 782	3 574	19 208	5 299	1 830	12 079	6	
		2003.. 18 637	5 890	12 748	1 063	1 851	9 834	14	
		2002.. 24 990	1 690	23 300	2 786	785	19 729	X	
325920	Explosives manufacturing	2004.. 22 782	3 574	19 208	5 299	1 830	12 079	6	
		2003.. 18 637	5 890	12 748	1 063	1 851	9 834	14	
		2002.. 24 990	1 690	23 300	2 786	785	19 729	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
325	Chemical manufacturing—Con.								
3259	Other chemical product and preparation manufacturing—Con.								
32599	All other chemical product and preparation manufacturing	2004.. 815 008	138 521	676 487	18 881	42 228	615 378	3	
		2003.. 1 107 406	164 691	942 715	17 692	67 240	857 783	4	
		2002.. 1 178 837	211 643	967 194	18 185	57 072	891 937	X	
325991	Custom compounding of purchased resins	2004.. 215 320	38 874	176 446	10 238	8 532	157 676	6	
		2003.. 251 455	28 460	222 995	9 530	12 591	200 874	6	
		2002.. 234 969	39 776	195 193	4 768	8 469	181 956	X	
32599N	All other miscellaneous chemical product and preparation manufacturing (including photographic)	2004.. 599 688	99 647	500 041	8 643	33 696	457 702	4	
		2003.. 855 951	136 230	719 720	8 162	54 649	656 909	5	
		2002.. 943 868	171 867	772 001	13 417	48 603	709 981	X	
326	Plastics and rubber products manufacturing	2004.. 6 649 735	652 971	5 996 764	114 126	273 050	5 609 588	2	
		2003.. 6 315 319	634 113	5 681 206	135 785	300 188	5 245 233	2	
		2002.. 7 446 211	921 324	6 524 887	168 050	357 358	5 999 479	X	
3261	Plastics product manufacturing	2004.. 5 487 577	541 166	4 946 411	91 121	227 425	4 627 865	2	
		2003.. 5 384 815	571 215	4 813 600	123 536	260 190	4 429 873	2	
		2002.. 6 346 183	808 019	5 538 164	148 953	319 665	5 069 546	X	
32611	Unsupported plastics film, sheet, and bag manufacturing ...	2004.. 793 722	77 948	715 774	8 760	34 823	672 191	3	
		2003.. 963 830	79 749	884 082	13 117	52 661	818 304	5	
		2002.. 1 279 793	143 740	1 136 053	17 945	71 879	1 046 229	X	
326111	Plastics bag manufacturing	2004.. 248 857	16 828	232 029	3 287	10 404	218 337	5	
		2003.. 247 978	23 721	224 257	5 306	9 772	209 178	5	
		2002.. 315 427	27 412	288 015	5 306	11 926	270 783	X	
326112	Plastics packaging film and sheet (including laminated) manufacturing	2004.. 203 795	22 514	181 281	1 297	10 388	169 596	3	
		2003.. 250 298	18 805	231 493	1 389	12 944	217 160	7	
		2002.. 256 655	29 960	226 695	3 616	8 079	215 000	X	
326113	Unlaminated plastics film and sheet (except packaging) manufacturing	2004.. 341 070	38 606	302 464	4 176	14 031	284 258	4	
		2003.. 465 555	37 223	428 332	6 422	29 944	391 966	8	
		2002.. 707 711	86 368	621 343	9 023	51 874	560 446	X	
32612	Plastics pipe, pipe fitting, and unsupported profile shape manufacturing	2004.. 447 098	53 522	393 576	4 855	12 686	376 036	4	
		2003.. 458 820	66 013	392 807	7 065	17 654	368 087	10	
		2002.. 543 861	74 452	469 409	8 965	22 494	437 950	X	
326121	Unsupported plastics profile shape manufacturing	2004.. 238 308	19 102	219 206	2 360	9 985	206 862	4	
		2003.. 226 426	30 914	195 512	3 343	11 458	180 712	13	
		2002.. 296 013	33 681	262 332	4 926	17 179	240 227	X	
326122	Plastics pipe and pipe fitting manufacturing	2004.. 208 790	34 420	174 369	2 495	2 701	169 174	6	
		2003.. 232 394	35 099	197 294	3 723	6 196	187 376	15	
		2002.. 247 848	40 771	207 077	4 039	5 315	197 723	X	
32613	Laminated plastics plate, sheet, and shape manufacturing	2004.. 75 071	10 017	65 054	2 350	3 372	59 333	5	
		2003.. 63 839	9 371	54 468	2 621	2 686	49 162	4	
		2002.. 75 651	9 957	65 694	3 738	6 938	55 018	X	
326130	Laminated plastics plate, sheet, and shape manufacturing	2004.. 75 071	10 017	65 054	2 350	3 372	59 333	5	
		2003.. 63 839	9 371	54 468	2 621	2 686	49 162	4	
		2002.. 75 651	9 957	65 694	3 738	6 938	55 018	X	
32614	Polystyrene foam product manufacturing	2004.. 201 017	22 246	178 771	5 954	6 884	165 932	6	
		2003.. 180 437	22 154	158 283	5 640	5 109	147 534	13	
		2002.. 270 553	53 773	216 780	7 494	15 293	193 993	X	
326140	Polystyrene foam product manufacturing	2004.. 201 017	22 246	178 771	5 954	6 884	165 932	6	
		2003.. 180 437	22 154	158 283	5 640	5 109	147 534	13	
		2002.. 270 553	53 773	216 780	7 494	15 293	193 993	X	
32615	Urethane and other foam product (except polystyrene) manufacturing	2004.. 150 317	22 054	128 262	6 195	6 585	115 482	6	
		2003.. 156 592	22 261	134 331	5 562	6 220	122 548	7	
		2002.. 186 092	26 787	159 305	8 796	10 192	140 317	X	
326150	Urethane and other foam product (except polystyrene) manufacturing	2004.. 150 317	22 054	128 262	6 195	6 585	115 482	6	
		2003.. 156 592	22 261	134 331	5 562	6 220	122 548	7	
		2002.. 186 092	26 787	159 305	8 796	10 192	140 317	X	
32616	Plastics bottle manufacturing	2004.. 431 987	17 204	414 784	2 193	5 287	407 303	4	
		2003.. 480 415	16 469	463 946	2 025	4 843	457 077	5	
		2002.. 520 977	30 934	490 043	4 726	13 829	471 488	X	
326160	Plastics bottle manufacturing	2004.. 431 987	17 204	414 784	2 193	5 287	407 303	4	
		2003.. 480 415	16 469	463 946	2 025	4 843	457 077	5	
		2002.. 520 977	30 934	490 043	4 726	13 829	471 488	X	
32619	Other plastics product manufacturing	2004.. 3 388 366	338 175	3 050 191	60 814	157 789	2 831 588	4	
		2003.. 3 080 884	355 199	2 725 684	87 506	171 018	2 467 161	3	
		2002.. 3 469 256	468 376	3 000 880	97 289	179 040	2 724 551	X	
32619M	Other plastics product manufacturing	2004.. 3 388 366	338 175	3 050 191	60 814	157 789	2 831 588	4	
		2003.. 3 080 884	355 199	2 725 684	87 506	171 018	2 467 161	3	
		2002.. 3 469 256	468 376	3 000 880	97 289	179 040	2 724 551	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—				
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures					
									A	B	C	D
326	Plastics and rubber products manufacturing—Con.											
3262	Rubber product manufacturing	2004.. 1 162 157	111 804	1 050 353	23 005	45 625	981 723	2				
		2003.. 930 504	62 897	867 607	12 249	39 998	815 360	3				
		2002.. 1 100 028	113 305	986 723	19 097	37 693	929 933	X				
32621	Tire manufacturing	2004.. 549 003	33 463	515 540	4 061	9 712	501 767	1				
		2003.. 492 321	20 150	472 171	3 263	13 051	455 857	5				
		2002.. 527 585	24 789	502 796	6 579	10 337	485 880	X				
32621M	Tire manufacturing	2004.. 549 003	33 463	515 540	4 061	9 712	501 767	1				
		2003.. 492 321	20 150	472 171	3 263	13 051	455 857	5				
		2002.. 527 585	24 789	502 796	6 579	10 337	485 880	X				
32622	Rubber and plastics hoses and belting manufacturing	2004.. 95 191	8 380	86 810	733	4 326	81 752	4				
		2003.. 91 243	14 357	76 886	859	4 480	71 547	6				
		2002.. 128 883	27 460	101 423	1 270	3 756	96 397	X				
326220	Rubber and plastics hoses and belting manufacturing	2004.. 95 191	8 380	86 810	733	4 326	81 752	4				
		2003.. 91 243	14 357	76 886	859	4 480	71 547	6				
		2002.. 128 883	27 460	101 423	1 270	3 756	96 397	X				
32629	Other rubber product manufacturing	2004.. 517 963	69 961	448 002	18 211	31 588	398 204	5				
		2003.. 346 940	28 391	318 550	8 127	22 467	287 956	5				
		2002.. 443 560	61 056	382 504	11 248	23 600	347 656	X				
32629M	Other rubber product manufacturing	2004.. 517 963	69 961	448 002	18 211	31 588	398 204	5				
		2003.. 346 940	28 391	318 550	8 127	22 467	287 956	5				
		2002.. 443 560	61 056	382 504	11 248	23 600	347 656	X				
327	Nonmetallic mineral product manufacturing	2004.. 4 830 662	580 746	4 249 916	598 896	135 116	3 515 903	2				
		2003.. 4 619 728	654 936	3 964 791	474 836	155 952	3 334 003	4				
		2002.. 5 203 534	776 356	4 427 178	420 044	183 628	3 823 506	X				
3271	Clay product and refractory manufacturing	2004.. 346 631	23 139	323 493	13 028	7 842	302 623	3				
		2003.. 361 418	52 396	309 022	32 004	14 276	262 742	6				
		2002.. 359 627	60 070	299 557	12 793	17 979	268 785	X				
32711	Pottery, ceramics, and plumbing fixture manufacturing	2004.. 113 929	9 310	104 619	1 270	3 505	99 844	6				
		2003.. 92 792	7 753	85 039	747	3 140	81 152	5				
		2002.. 108 466	16 273	92 193	1 800	6 441	83 952	X				
327111	Vitreous china plumbing fixture and china and earthenware bathroom accessories manufacturing	2004.. 7 277	1 527	5 750	20	109	5 621	4				
		2003.. 12 063	1 014	11 049	D	248	D	5				
		2002.. 25 191	2 288	22 903	D	2 859	D	X				
327112	Vitreous china, fine earthenware, and other pottery product manufacturing	2004.. 48 401	3 522	44 879	552	1 258	43 069	13				
		2003.. 59 583	4 249	55 334	601	1 531	53 203	7				
		2002.. 31 344	5 102	26 242	569	1 595	24 078	X				
327113	Porcelain electrical supply manufacturing	2004.. 58 252	4 262	53 990	697	2 138	51 155	6				
		2003.. 21 146	2 491	18 656	D	1 361	D	5				
		2002.. 51 931	8 883	43 048	D	1 987	D	X				
32712	Clay building material and refractories manufacturing	2004.. 232 702	13 828	218 874	11 758	4 337	202 779	4				
		2003.. 268 626	44 643	223 983	31 257	11 136	181 590	8				
		2002.. 251 161	43 797	207 364	10 993	11 538	184 833	X				
327121	Brick and structural clay tile manufacturing	2004.. 144 960	5 307	139 653	10 985	1 524	127 144	6				
		2003.. 164 429	32 447	131 983	28 706	4 242	99 035	13				
		2002.. 143 082	19 147	123 935	8 535	3 107	112 293	X				
327122	Ceramic wall and floor tile manufacturing	2004.. 20 734	2 435	18 300	52	834	17 414	3				
		2003.. 43 861	8 097	35 763	1 401	4 723	29 640	14				
		2002.. 33 756	5 950	27 806	954	3 946	22 906	X				
327123	Other structural clay product manufacturing	2004.. 8 832	2 217	6 615	191	166	6 258	8				
		2003.. 6 749	636	6 113	398	305	5 411	2				
		2002.. 16 654	4 238	12 416	511	236	11 669	X				
32712N	Refractory manufacturing	2004.. 58 176	3 870	54 306	531	1 812	51 962	5				
		2003.. 53 587	3 462	50 125	753	1 866	47 505	9				
		2002.. 57 669	14 462	43 207	993	4 249	37 965	X				
3272	Glass and glass product manufacturing	2004.. 1 264 801	162 536	1 102 265	11 705	29 269	1 061 292	1				
		2003.. 1 094 324	96 602	997 721	12 632	25 164	959 925	5				
		2002.. 1 094 963	104 830	990 133	13 106	36 719	940 308	X				
32721	Glass and glass product manufacturing	2004.. 1 264 801	162 536	1 102 265	11 705	29 269	1 061 292	1				
		2003.. 1 094 324	96 602	997 721	12 632	25 164	959 925	5				
		2002.. 1 094 963	104 830	990 133	13 106	36 719	940 308	X				
327211	Flat glass manufacturing	2004.. 297 265	42 828	254 437	2 676	4 727	247 033	1				
		2003.. 146 262	14 349	131 913	D	D	130 031	19				
		2002.. 156 944	9 453	147 491	863	2 057	144 571	X				
327212	Other pressed and blown glass and glassware manufacturing	2004.. 272 989	50 258	222 732	895	8 031	213 806	3				
		2003.. 314 415	18 500	295 915	825	7 096	287 993	1				
		2002.. 300 061	31 689	268 372	1 867	14 315	252 190	X				
327213	Glass container manufacturing	2004.. 310 201	14 744	295 458	195	2 786	292 476	3				
		2003.. 310 937	11 713	299 225	D	D	296 557	11				
		2002.. 273 468	23 662	249 806	232	1 895	247 679	X				
327215	Glass product manufacturing made of purchased glass	2004.. 384 345	54 706	329 639	7 938	13 724	307 977	3				
		2003.. 322 709	52 041	270 669	11 145	14 179	245 345	9				
		2002.. 364 490	40 026	324 464	10 144	18 452	295 868	X				

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
327	Nonmetallic mineral product manufacturing—Con.								
3273	Cement and concrete product manufacturing	2004... 2 226 479	251 895	1 974 584	540 555	69 421	1 364 608	3	
		2003... 2 313 463	377 614	1 935 849	409 604	85 274	1 440 970	7	
		2002... 2 849 378	460 376	2 389 002	364 255	96 799	1 927 948	X	
32731	Cement manufacturing	2004... 572 360	45 011	527 349	4 819	11 895	510 635	3	
		2003... 792 657	180 879	611 778	9 888	18 121	583 770	2	
		2002... 1 300 842	184 458	1 116 384	10 730	14 226	1 091 428	X	
327310	Cement manufacturing	2004... 572 360	45 011	527 349	4 819	11 895	510 635	3	
		2003... 792 657	180 879	611 778	9 888	18 121	583 770	2	
		2002... 1 300 842	184 458	1 116 384	10 730	14 226	1 091 428	X	
32732	Ready-mix concrete manufacturing.....	2004... 1 024 570	95 396	929 174	475 501	34 464	419 209	6	
		2003... 966 701	74 829	891 872	345 789	44 430	501 652	15	
		2002... 895 125	130 353	764 772	283 058	49 215	432 499	X	
327320	Ready-mix concrete manufacturing.....	2004... 1 024 570	95 396	929 174	475 501	34 464	419 209	6	
		2003... 966 701	74 829	891 872	345 789	44 430	501 652	15	
		2002... 895 125	130 353	764 772	283 058	49 215	432 499	X	
32733	Concrete pipe, brick, and block manufacturing	2004... 274 446	51 861	222 585	30 716	9 240	182 629	4	
		2003... 273 485	58 966	214 519	21 538	8 284	184 697	15	
		2002... 291 552	72 577	218 975	38 418	11 868	168 689	X	
32733M	Concrete pipe, brick, and block manufacturing	2004... 274 446	51 861	222 585	30 716	9 240	182 629	4	
		2003... 273 485	58 966	214 519	21 538	8 284	184 697	15	
		2002... 291 552	72 577	218 975	38 418	11 868	168 689	X	
32739	Other concrete product manufacturing	2004... 355 103	59 627	295 476	29 519	13 823	252 134	5	
		2003... 280 619	62 940	217 680	32 390	14 439	170 850	7	
		2002... 361 859	72 988	288 871	32 049	21 490	235 332	X	
327390	Other concrete product manufacturing	2004... 355 103	59 627	295 476	29 519	13 823	252 134	5	
		2003... 280 619	62 940	217 680	32 390	14 439	170 850	7	
		2002... 361 859	72 988	288 871	32 049	21 490	235 332	X	
3274	Lime and gypsum product manufacturing	2004... 209 159	14 094	195 065	4 793	1 367	188 905	3	
		2003... 307 623	45 421	262 202	4 091	3 009	255 101	12	
		2002... 202 103	26 026	176 077	4 283	4 381	167 413	X	
32741	Lime manufacturing	2004... 77 848	2 973	74 875	2 238	720	71 917	7	
		2003... 56 104	4 322	51 782	758	1 365	49 659	11	
		2002... 42 939	6 776	36 163	1 845	664	33 654	X	
327410	Lime manufacturing	2004... 77 848	2 973	74 875	2 238	720	71 917	7	
		2003... 56 104	4 322	51 782	758	1 365	49 659	11	
		2002... 42 939	6 776	36 163	1 845	664	33 654	X	
32742	Gypsum product manufacturing	2004... 131 311	11 120	120 190	2 555	648	116 988	1	
		2003... 251 519	41 099	210 420	3 334	1 645	205 442	15	
		2002... 159 164	19 250	139 914	2 438	3 717	133 759	X	
327420	Gypsum product manufacturing	2004... 131 311	11 120	120 190	2 555	648	116 988	1	
		2003... 251 519	41 099	210 420	3 334	1 645	205 442	15	
		2002... 159 164	19 250	139 914	2 438	3 717	133 759	X	
3279	Other nonmetallic mineral product manufacturing	2004... 783 592	129 083	654 509	28 816	27 217	598 475	5	
		2003... 542 901	82 903	459 998	16 505	28 228	415 265	4	
		2002... 697 463	125 054	572 409	25 607	27 750	519 052	X	
32791	Abrasive product manufacturing	2004... 118 026	25 031	92 995	1 526	4 279	87 189	9	
		2003... 126 657	26 909	99 748	2 748	4 432	92 568	9	
		2002... 94 990	12 057	82 933	2 329	3 743	76 861	X	
327910	Abrasive product manufacturing	2004... 118 026	25 031	92 995	1 526	4 279	87 189	9	
		2003... 126 657	26 909	99 748	2 748	4 432	92 568	9	
		2002... 94 990	12 057	82 933	2 329	3 743	76 861	X	
32799	All other nonmetallic mineral product manufacturing	2004... 665 566	104 052	561 514	27 290	22 938	511 286	5	
		2003... 416 244	55 994	360 249	13 757	23 796	322 697	5	
		2002... 602 473	112 997	489 476	23 278	24 007	442 191	X	
327991	Cut stone and stone product manufacturing	2004... 119 597	13 830	105 767	10 344	4 864	90 559	10	
		2003... 76 255	11 148	65 106	6 121	4 871	54 115	11	
		2002... 87 516	16 811	70 705	12 540	7 455	50 710	X	
327992	Ground or treated mineral and earth manufacturing	2004... 130 330	26 735	103 595	4 631	1 832	97 131	23	
		2003... 76 322	5 351	70 971	1 388	1 689	67 894	17	
		2002... 85 559	15 297	70 262	2 903	4 873	62 486	X	
327993	Mineral wool manufacturing	2004... 217 922	31 159	186 764	2 104	8 087	176 573	5	
		2003... 212 201	34 235	177 966	1 677	10 285	166 004	6	
		2002... 371 055	69 795	301 260	3 290	7 465	290 505	X	
327999	All other miscellaneous nonmetallic mineral product manufacturing	2004... 197 716	32 328	165 388	10 211	8 156	147 022	6	
		2003... 51 465	5 259	46 206	4 571	6 951	34 684	10	
		2002... 58 343	11 094	47 249	4 545	4 214	38 490	X	
331	Primary metal manufacturing	2004... 3 957 087	335 537	3 621 550	42 571	223 084	3 355 895	3	
		2003... 3 300 630	399 318	2 901 313	41 849	124 747	2 734 717	2	
		2002... 4 281 168	444 717	3 836 451	52 721	208 606	3 575 124	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
331	Primary metal manufacturing—Con.								
3311	Iron and steel mills and ferroalloy manufacturing								
	2004..	1 453 353	93 178	1 360 176	16 368	27 462	1 316 346	2	
	2003..	958 045	161 196	796 849	5 230	18 575	773 044	1	
	2002..	1 348 502	100 141	1 248 361	7 408	24 012	1 216 941	X	
33111	Iron and steel mills and ferroalloy manufacturing								
	2004..	1 453 353	93 178	1 360 176	16 368	27 462	1 316 346	2	
	2003..	958 045	161 196	796 849	5 230	18 575	773 044	1	
	2002..	1 348 502	100 141	1 248 361	7 408	24 012	1 216 941	X	
33111M	Iron and steel mills and ferroalloy manufacturing								
	2004..	1 453 353	93 178	1 360 176	16 368	27 462	1 316 346	2	
	2003..	958 045	161 196	796 849	5 230	18 575	773 044	1	
	2002..	1 348 502	100 141	1 248 361	7 408	24 012	1 216 941	X	
3312	Steel product manufacturing from purchased steel								
	2004..	480 118	39 365	440 753	4 891	124 563	311 299	24	
	2003..	420 360	53 824	366 536	5 801	19 035	341 700	6	
	2002..	413 235	65 492	347 743	4 531	15 603	327 609	X	
33121	Iron and steel pipe and tube manufacturing from purchased steel								
	2004..	166 480	24 985	141 495	2 570	4 747	134 178	5	
	2003..	230 404	27 675	202 729	2 093	6 759	193 877	9	
	2002..	213 899	39 963	173 936	1 575	5 442	166 919	X	
331210	Iron and steel pipe and tube manufacturing from purchased steel								
	2004..	166 480	24 985	141 495	2 570	4 747	134 178	5	
	2003..	230 404	27 675	202 729	2 093	6 759	193 877	9	
	2002..	213 899	39 963	173 936	1 575	5 442	166 919	X	
33122	Rolling and drawing of purchased steel								
	2004..	313 638	14 379	299 258	2 322	119 815	177 121	37	
	2003..	189 956	26 149	163 807	3 708	12 276	147 823	6	
	2002..	199 336	25 529	173 807	2 956	10 161	160 690	X	
33122M	Rolling and drawing of purchased steel								
	2004..	313 638	14 379	299 258	2 322	119 815	177 121	37	
	2003..	189 956	26 149	163 807	3 708	12 276	147 823	6	
	2002..	199 336	25 529	173 807	2 956	10 161	160 690	X	
3313	Alumina and aluminum production and processing								
	2004..	530 256	28 579	501 676	4 814	23 963	472 899	1	
	2003..	503 556	41 075	462 482	4 999	20 345	437 137	1	
	2002..	712 695	79 818	632 877	10 026	91 218	531 633	X	
33131	Alumina and aluminum production and processing								
	2004..	530 256	28 579	501 676	4 814	23 963	472 899	1	
	2003..	503 556	41 075	462 482	4 999	20 345	437 137	1	
	2002..	712 695	79 818	632 877	10 026	91 218	531 633	X	
331311	Alumina refining								
	2004..	20 121	124	19 997	—	85	19 912	2	
	2003..	20 108	D	D	D	D	D	6	
	2002..	19 890	D	D	D	D	D	X	
331312	Primary aluminum production								
	2004..	125 404	9 942	115 462	87	1 784	113 591	1	
	2003..	85 212	9 820	75 392	54	1 165	74 173	1	
	2002..	149 139	17 962	131 177	2 510	2 198	126 469	X	
331314	Secondary smelting and alloying of aluminum								
	2004..	56 090	3 905	52 186	1 503	2 362	48 320	9	
	2003..	54 813	D	D	D	D	D	7	
	2002..	66 062	D	D	D	D	D	X	
331316	Aluminum extruded product manufacturing								
	2004..	104 576	9 030	95 546	2 171	4 085	89 290	2	
	2003..	125 229	7 555	117 674	3 274	5 923	108 477	4	
	2002..	157 594	19 898	137 696	2 773	4 673	130 250	X	
33131N	Aluminum rolling and drawing								
	2004..	224 065	5 579	218 486	1 053	15 647	201 786	2	
	2003..	218 195	7 277	210 918	558	11 878	198 482	1	
	2002..	320 010	24 409	295 601	3 655	80 380	211 566	X	
3314	Nonferrous metal (except aluminum) production and processing								
	2004..	398 029	58 774	339 255	4 177	18 600	316 478	2	
	2003..	386 482	37 090	349 392	4 522	21 593	323 277	2	
	2002..	645 269	78 071	567 198	7 106	30 618	529 474	X	
33141	Nonferrous metal (except aluminum) smelting and refining								
	2004..	86 246	16 747	69 500	555	2 142	66 803	1	
	2003..	63 453	7 982	55 472	925	1 435	53 112	7	
	2002..	230 762	29 282	201 480	679	2 556	198 245	X	
331411	Primary smelting and refining of copper								
	2004..	10 602	D	D	D	D	D	1	
	2003..	4 843	D	D	D	D	D	6	
	2002..	D	D	D	D	D	D	X	
331419	Primary smelting and refining of nonferrous metal (except copper and aluminum)								
	2004..	75 644	D	D	D	D	D	1	
	2003..	58 611	D	D	D	D	D	7	
	2002..	D	D	D	D	D	D	X	
33142	Copper rolling, drawing, extruding, and alloying								
	2004..	140 689	21 827	118 861	1 631	9 469	107 761	2	
	2003..	166 792	20 475	146 317	1 049	16 004	129 264	4	
	2002..	226 347	25 140	201 207	2 811	13 947	184 449	X	
33142M	Copper rolling, drawing, extruding, and alloying								
	2004..	140 689	21 827	118 861	1 631	9 469	107 761	2	
	2003..	166 792	20 475	146 317	1 049	16 004	129 264	4	
	2002..	226 347	25 140	201 207	2 811	13 947	184 449	X	
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying								
	2004..	171 093	20 200	150 894	1 991	6 989	141 913	4	
	2003..	156 237	8 634	147 603	2 549	4 154	140 901	4	
	2002..	188 160	23 649	164 511	3 616	14 115	146 780	X	
33149M	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying								
	2004..	171 093	20 200	150 894	1 991	6 989	141 913	4	
	2003..	156 237	8 634	147 603	2 549	4 154	140 901	4	
	2002..	188 160	23 649	164 511	3 616	14 115	146 780	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
331	Primary metal manufacturing—Con.								
3315	Foundries.....	2004... 1 095 331	115 642	979 689	12 320	28 496	938 874	2	
		2003... 1 032 187	106 133	926 054	21 297	45 198	859 559	5	
		2002... 1 161 467	121 195	1 040 272	23 650	47 155	969 467	X	
33151	Ferrous metal foundries	2004... 722 773	81 634	641 140	6 454	13 042	621 643	2	
		2003... 674 995	68 311	606 684	12 319	30 690	563 675	7	
		2002... 775 822	73 124	702 698	15 432	31 580	655 686	X	
33151M	Ferrous metal foundries	2004... 722 773	81 634	641 140	6 454	13 042	621 643	2	
		2003... 674 995	68 311	606 684	12 319	30 690	563 675	7	
		2002... 775 822	73 124	702 698	15 432	31 580	655 686	X	
33152	Nonferrous metal foundries	2004... 372 558	34 008	338 550	5 866	15 454	317 231	2	
		2003... 357 192	37 822	319 370	8 978	14 508	295 884	5	
		2002... 385 645	48 071	337 574	8 218	15 575	313 781	X	
33152N	Aluminum foundries	2004... 302 034	25 661	276 373	3 699	11 480	261 194	2	
		2003... 269 411	29 849	239 563	6 366	9 534	223 663	6	
		2002... 285 538	36 362	249 176	5 814	10 197	233 165	X	
33152P	Foundries not aluminum	2004... 70 524	8 347	62 177	2 167	3 974	56 036	5	
		2003... 87 781	7 973	79 808	2 612	4 974	72 221	5	
		2002... 100 107	11 709	88 398	2 404	5 378	80 616	X	
332	Fabricated metal product manufacturing	2004... 7 421 421	993 154	6 428 268	244 101	444 519	5 739 648	2	
		2003... 6 682 951	842 561	5 840 390	353 099	584 235	4 903 055	2	
		2002... 7 942 864	1 141 889	6 800 975	360 159	646 714	5 794 102	X	
3321	Forging and stamping	2004... 772 761	79 781	692 981	17 126	41 252	634 602	4	
		2003... 668 030	66 047	601 983	20 387	43 887	537 710	4	
		2002... 765 018	91 534	673 484	20 568	44 790	608 126	X	
33211	Forging and stamping	2004... 772 761	79 781	692 981	17 126	41 252	634 602	4	
		2003... 668 030	66 047	601 983	20 387	43 887	537 710	4	
		2002... 765 018	91 534	673 484	20 568	44 790	608 126	X	
332114	Custom roll forming	2004... 89 159	7 126	82 034	2 240	5 143	74 650	18	
		2003... 116 377	16 569	99 808	4 032	5 197	90 578	5	
		2002... 105 353	16 921	88 432	3 873	4 684	79 875	X	
332117	Powder metallurgy parts manufacturing	2004... 50 871	1 803	49 068	1 155	1 832	46 081	5	
		2003... 76 000	6 487	69 513	1 162	2 681	65 670	17	
		2002... 62 080	2 943	59 137	804	1 852	56 481	X	
33211N	Forging	2004... 224 061	11 716	212 345	2 651	7 181	202 512	3	
		2003... 216 974	22 690	194 285	4 564	14 195	175 527	3	
		2002... 234 407	28 869	205 538	4 476	12 495	188 567	X	
33211P	Crown, closure, and metal stamping manufacturing	2004... 408 670	59 136	349 534	11 080	27 096	311 358	6	
		2003... 258 679	20 301	238 378	10 628	21 814	205 935	7	
		2002... 363 178	42 801	320 377	11 415	25 759	283 203	X	
3322	Cutlery and handtool manufacturing	2004... 330 732	36 726	294 006	5 253	15 202	273 551	4	
		2003... 281 508	33 369	248 140	8 699	34 208	205 233	6	
		2002... 311 498	47 647	263 851	7 235	24 133	232 483	X	
33221	Cutlery and hand tool manufacturing	2004... 330 732	36 726	294 006	5 253	15 202	273 551	4	
		2003... 281 508	33 369	248 140	8 699	34 208	205 233	6	
		2002... 311 498	47 647	263 851	7 235	24 133	232 483	X	
33221N	Cutlery, kitchen utensil, pot, and pan manufacturing	2004... 139 844	20 537	119 306	459	3 011	115 837	1	
		2003... 99 860	27 789	72 071	692	2 956	68 424	10	
		2002... 105 053	22 519	82 534	988	2 819	78 727	X	
33221P	Hand tool and saw blade manufacturing	2004... 190 888	16 189	174 699	4 793	12 191	157 715	8	
		2003... 181 648	5 580	176 069	8 008	31 252	136 809	7	
		2002... 206 445	25 128	181 317	6 247	21 314	153 756	X	
3323	Architectural and structural metals manufacturing	2004... 1 359 220	241 020	1 118 200	83 332	118 399	916 469	4	
		2003... 1 154 444	118 778	1 035 666	109 064	135 364	791 238	3	
		2002... 1 623 081	295 369	1 327 712	111 270	153 953	1 062 489	X	
33231	Plate work and fabricated structural product manufacturing	2004... 514 958	117 350	397 607	37 770	38 560	321 278	5	
		2003... 496 003	56 964	439 039	53 198	54 505	331 337	5	
		2002... 756 858	165 871	590 987	56 467	77 407	457 113	X	
33231M	Plate work and fabricated structural product manufacturing	2004... 514 958	117 350	397 607	37 770	38 560	321 278	5	
		2003... 496 003	56 964	439 039	53 198	54 505	331 337	5	
		2002... 756 858	165 871	590 987	56 467	77 407	457 113	X	
33232	Ornamental and architectural metal work manufacturing	2004... 844 263	123 670	720 593	45 562	79 839	595 191	5	
		2003... 658 441	61 814	596 627	55 867	80 859	459 901	4	
		2002... 866 223	129 498	736 725	54 803	76 546	605 376	X	
33232M	Ornamental and architectural metal work manufacturing	2004... 844 263	123 670	720 593	45 562	79 839	595 191	5	
		2003... 658 441	61 814	596 627	55 867	80 859	459 901	4	
		2002... 866 223	129 498	736 725	54 803	76 546	605 376	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
332	Fabricated metal product manufacturing—Con.								
3324	Boiler, tank, and shipping container manufacturing	2004.. 555 788	72 506	483 282	14 880	32 860	435 542	3	
		2003.. 492 079	77 648	414 431	16 296	44 292	353 843	3	
		2002.. 528 328	64 229	464 099	19 834	34 485	409 780	X	
33241	Power boiler and heat exchanger manufacturing	2004.. 133 525	27 609	105 916	5 285	18 713	81 918	7	
		2003.. 124 312	19 787	104 526	7 553	20 545	76 428	10	
		2002.. 115 519	20 849	94 670	5 274	17 045	72 351	X	
332410	Power boiler and heat exchanger manufacturing	2004.. 133 525	27 609	105 916	5 285	18 713	81 918	7	
		2003.. 124 312	19 787	104 526	7 553	20 545	76 428	10	
		2002.. 115 519	20 849	94 670	5 274	17 045	72 351	X	
33242	Metal tank (heavy gauge) manufacturing	2004.. 86 962	15 653	71 309	7 799	7 062	56 448	15	
		2003.. 58 415	4 833	53 582	3 954	6 849	42 779	7	
		2002.. 96 677	15 360	81 317	8 525	9 419	63 373	X	
332420	Metal tank (heavy gauge) manufacturing	2004.. 86 962	15 653	71 309	7 799	7 062	56 448	15	
		2003.. 58 415	4 833	53 582	3 954	6 849	42 779	7	
		2002.. 96 677	15 360	81 317	8 525	9 419	63 373	X	
33243	Metal can, box, and other metal container (light gauge) manufacturing	2004.. 335 301	29 244	306 058	1 797	7 084	297 177	3	
		2003.. 309 353	53 029	256 324	4 789	16 898	234 637	3	
		2002.. 316 132	28 020	288 112	6 035	8 021	274 056	X	
33243M	Metal can, box, and other metal container (light gauge) manufacturing	2004.. 335 301	29 244	306 058	1 797	7 084	297 177	3	
		2003.. 309 353	53 029	256 324	4 789	16 898	234 637	3	
		2002.. 316 132	28 020	288 112	6 035	8 021	274 056	X	
3325	Hardware manufacturing	2004.. 191 347	30 317	161 030	2 309	15 681	143 039	3	
		2003.. 202 780	32 176	170 604	4 286	16 106	150 213	8	
		2002.. 261 151	42 456	218 695	6 303	19 076	193 316	X	
33251	Hardware manufacturing	2004.. 191 347	30 317	161 030	2 309	15 681	143 039	3	
		2003.. 202 780	32 176	170 604	4 286	16 106	150 213	8	
		2002.. 261 151	42 456	218 695	6 303	19 076	193 316	X	
332510	Hardware manufacturing	2004.. 191 347	30 317	161 030	2 309	15 681	143 039	3	
		2003.. 202 780	32 176	170 604	4 286	16 106	150 213	8	
		2002.. 261 151	42 456	218 695	6 303	19 076	193 316	X	
3326	Spring and wire product manufacturing	2004.. 208 178	32 309	175 869	9 538	10 492	155 839	6	
		2003.. 223 290	43 241	180 049	11 094	16 279	152 676	7	
		2002.. 256 651	26 927	229 724	14 894	17 578	197 252	X	
33261	Spring and wire product manufacturing	2004.. 208 178	32 309	175 869	9 538	10 492	155 839	6	
		2003.. 223 290	43 241	180 049	11 094	16 279	152 676	7	
		2002.. 256 651	26 927	229 724	14 894	17 578	197 252	X	
33261M	Spring and wire product manufacturing	2004.. 208 178	32 309	175 869	9 538	10 492	155 839	6	
		2003.. 223 290	43 241	180 049	11 094	16 279	152 676	7	
		2002.. 256 651	26 927	229 724	14 894	17 578	197 252	X	
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	2004.. 2 024 991	234 536	1 790 455	65 900	93 750	1 630 805	4	
		2003.. 1 702 746	205 354	1 497 393	112 797	144 142	1 240 454	5	
		2002.. 2 037 721	289 818	1 747 903	91 420	184 442	1 472 041	X	
33271	Machine shops	2004.. 1 296 656	138 719	1 157 937	46 587	61 235	1 050 116	5	
		2003.. 984 387	97 085	887 301	60 628	97 976	728 697	6	
		2002.. 1 227 762	172 186	1 055 576	64 412	116 435	874 729	X	
332710	Machine shops	2004.. 1 296 656	138 719	1 157 937	46 587	61 235	1 050 116	5	
		2003.. 984 387	97 085	887 301	60 628	97 976	728 697	6	
		2002.. 1 227 762	172 186	1 055 576	64 412	116 435	874 729	X	
33272	Turned product and screw, nut, and bolt manufacturing	2004.. 728 335	95 817	632 518	19 314	32 516	580 689	5	
		2003.. 718 359	108 268	610 091	52 169	46 165	511 757	9	
		2002.. 809 959	117 632	692 327	27 008	68 007	597 312	X	
332721	Precision turned product manufacturing	2004.. 514 356	60 535	453 821	13 115	19 071	421 635	7	
		2003.. 412 232	57 454	354 778	26 800	25 190	302 788	8	
		2002.. 531 972	71 257	460 715	19 084	45 534	396 097	X	
332722	Bolt, nut, screw, rivet, and washer manufacturing	2004.. 213 979	35 282	178 697	6 198	13 445	159 054	4	
		2003.. 306 127	50 815	255 313	25 369	20 975	208 968	18	
		2002.. 277 987	46 375	231 612	7 924	22 473	201 215	X	
3328	Coating, engraving, heat treating, and allied activities	2004.. 705 164	78 420	626 744	21 783	42 971	561 990	9	
		2003.. 645 053	59 873	585 180	28 938	34 488	521 754	4	
		2002.. 688 024	74 735	613 289	33 518	44 288	535 483	X	
33281	Coating, engraving, heat treating, and allied activities	2004.. 705 164	78 420	626 744	21 783	42 971	561 990	9	
		2003.. 645 053	59 873	585 180	28 938	34 488	521 754	4	
		2002.. 688 024	74 735	613 289	33 518	44 288	535 483	X	
33281M	Coating, engraving, heat treating, and allied activities	2004.. 705 164	78 420	626 744	21 783	42 971	561 990	9	
		2003.. 645 053	59 873	585 180	28 938	34 488	521 754	4	
		2002.. 688 024	74 735	613 289	33 518	44 288	535 483	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
332	Fabricated metal product manufacturing—Con.								
3329	Other fabricated metal product manufacturing	2004.. 1 273 239	187 538	1 085 702	23 980	73 912	987 810	3	
		2003.. 1 313 018	206 074	1 106 944	41 538	115 471	949 935	4	
		2002.. 1 471 392	209 174	1 262 218	55 117	123 969	1 083 132	X	
33291	Metal valve manufacturing	2004.. 496 010	85 646	410 364	9 243	32 962	368 159	5	
		2003.. 488 285	57 908	430 377	11 392	52 171	366 814	3	
		2002.. 558 022	81 181	476 841	17 099	55 911	403 831	X	
332913	Plumbing fixture fitting and trim manufacturing	2004.. 51 556	6 232	45 323	491	4 710	40 122	19	
		2003.. 60 028	10 995	49 033	937	8 848	39 249	5	
		2002.. 67 559	11 926	55 633	1 793	4 628	49 212	X	
33291N	Valve and fitting (except plumbing) manufacturing	2004.. 444 454	79 413	365 041	8 752	28 252	328 037	5	
		2003.. 428 257	46 913	381 344	10 455	43 323	327 566	3	
		2002.. 490 463	69 255	421 208	15 306	51 283	354 619	X	
33299	All other fabricated metal product manufacturing	2004.. 777 230	101 892	675 338	14 737	40 950	619 651	4	
		2003.. 824 733	148 166	676 567	30 146	63 300	583 121	6	
		2002.. 913 370	127 993	785 377	38 018	68 058	679 301	X	
332991	Ball and roller bearing manufacturing	2004.. 208 470	17 909	190 560	818	4 171	185 571	9	
		2003.. 247 663	51 392	196 270	743	7 903	187 624	14	
		2002.. 211 506	11 143	200 363	1 426	7 337	191 600	X	
332992	Small arms ammunition manufacturing	2004.. 23 496	1 603	21 893	410	1 609	19 873	2	
		2003.. 20 900	2 286	18 614	42	2 644	15 928	2	
		2002.. 16 827	1 181	15 646	253	1 057	14 336	X	
332993	Ammunition (except small arms) manufacturing	2004.. 26 588	3 191	23 397	142	1 756	21 500	4	
		2003.. 15 540	2 719	12 821	418	535	11 869	14	
		2002.. 25 701	5 910	19 791	475	1 647	17 669	X	
332994	Small arms manufacturing	2004.. 38 114	2 784	35 331	506	3 043	31 782	4	
		2003.. 46 946	24 680	22 266	498	1 754	20 014	3	
		2002.. 50 426	16 136	34 290	988	4 153	29 149	X	
332995	Other ordnance and accessories manufacturing	2004.. 18 930	2 843	16 087	238	3 936	11 914	4	
		2003.. 25 819	1 889	23 930	670	9 825	13 435	4	
		2002.. 18 864	3 512	15 352	512	3 870	10 970	X	
332996	Fabricated pipe and pipe fitting manufacturing	2004.. 63 658	11 635	52 024	2 881	3 082	46 061	6	
		2003.. 97 767	8 907	88 861	5 761	7 134	75 965	10	
		2002.. 101 864	11 167	90 697	5 086	5 904	79 707	X	
33299N	Other fabricated metal products manufacturing	2004.. 397 974	61 928	336 046	9 741	23 353	302 952	6	
		2003.. 370 098	56 293	313 805	22 014	33 505	258 286	10	
		2002.. 488 182	78 944	409 238	29 278	44 090	335 870	X	
333	Machinery manufacturing	2004.. 5 995 235	779 304	5 215 930	133 951	613 517	4 468 463	1	
		2003.. 5 536 184	806 743	4 729 441	182 991	576 866	3 969 584	3	
		2002.. 6 668 783	1 050 787	5 617 996	216 038	646 433	4 755 525	X	
3331	Agriculture, construction, and mining machinery manufacturing	2004.. 962 998	155 351	807 647	28 777	76 719	702 150	2	
		2003.. 871 718	116 265	755 453	43 406	74 642	637 405	3	
		2002.. 1 116 362	171 884	944 478	37 900	98 859	807 719	X	
33311	Agricultural implement manufacturing	2004.. 409 388	69 344	340 044	10 545	25 061	304 439	2	
		2003.. 469 244	73 031	396 213	26 402	36 012	333 800	4	
		2002.. 528 577	59 918	468 659	15 570	39 300	413 789	X	
333111	Farm machinery and equipment manufacturing	2004.. 258 250	41 735	216 515	8 742	17 546	190 227	3	
		2003.. 322 526	62 501	260 025	26 033	28 261	205 732	6	
		2002.. 345 095	49 744	295 351	13 091	30 085	252 175	X	
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing	2004.. 151 138	27 609	123 529	1 802	7 514	114 212	1	
		2003.. 146 718	10 530	136 188	369	7 751	128 068	2	
		2002.. 183 482	10 174	173 308	2 479	9 215	161 614	X	
33312	Construction machinery manufacturing	2004.. 257 719	27 473	230 245	7 017	37 193	186 035	3	
		2003.. 209 709	19 613	190 095	11 083	23 752	155 260	5	
		2002.. 360 593	75 298	285 295	10 592	32 524	242 179	X	
333120	Construction machinery manufacturing	2004.. 257 719	27 473	230 245	7 017	37 193	186 035	3	
		2003.. 209 709	19 613	190 095	11 083	23 752	155 260	5	
		2002.. 360 593	75 298	285 295	10 592	32 524	242 179	X	
33313	Mining and oil and gas field machinery manufacturing	2004.. 295 891	58 534	237 357	11 215	14 465	211 676	4	
		2003.. 192 765	23 621	169 144	5 921	14 878	148 345	5	
		2002.. 227 192	36 668	190 524	11 738	27 035	151 751	X	
33313M	Mining and oil and gas field machinery manufacturing	2004.. 295 891	58 534	237 357	11 215	14 465	211 676	4	
		2003.. 192 765	23 621	169 144	5 921	14 878	148 345	5	
		2002.. 227 192	36 668	190 524	11 738	27 035	151 751	X	
3332	Industrial machinery manufacturing	2004.. 805 009	105 601	699 408	17 043	87 457	594 908	3	
		2003.. 715 338	142 678	572 660	22 045	94 010	456 605	3	
		2002.. 1 050 149	238 509	811 640	29 278	131 075	651 287	X	
33321	Sawmill and woodworking machinery manufacturing	2004.. 27 541	1 572	25 969	2 353	3 808	19 809	17	
		2003.. 20 771	517	20 254	809	2 577	16 868	31	
		2002.. 23 604	2 355	21 249	3 365	5 315	12 569	X	
333210	Sawmill and woodworking machinery manufacturing	2004.. 27 541	1 572	25 969	2 353	3 808	19 809	17	
		2003.. 20 771	517	20 254	809	2 577	16 868	31	
		2002.. 23 604	2 355	21 249	3 365	5 315	12 569	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
333	Machinery manufacturing—Con.								
3332	Industrial machinery manufacturing—Con.								
33322	Plastics and rubber industry machinery manufacturing	2004.. 60 225	5 226	54 999	1 516	7 906	45 577	11	
		2003.. 36 115	1 699	34 416	993	5 753	27 670	18	
		2002.. 61 730	7 922	53 808	1 849	7 677	44 282	X	
333220	Plastics and rubber industry machinery manufacturing	2004.. 60 225	5 226	54 999	1 516	7 906	45 577	11	
		2003.. 36 115	1 699	34 416	993	5 753	27 670	18	
		2002.. 61 730	7 922	53 808	1 849	7 677	44 282	X	
33329	Other industrial machinery manufacturing	2004.. 717 243	98 803	618 440	13 174	75 743	529 522	4	
		2003.. 658 452	140 462	517 990	20 243	85 680	412 066	3	
		2002.. 964 815	228 232	736 583	24 064	118 083	594 436	X	
333295	Semiconductor machinery manufacturing	2004.. 389 081	35 076	354 005	1 035	25 314	327 656	4	
		2003.. 365 206	100 033	265 173	5 546	39 255	220 373	2	
		2002.. 535 994	155 802	380 192	4 541	57 569	318 082	X	
33329N	Other machinery manufacturing	2004.. 328 162	63 727	264 435	12 139	50 430	201 866	7	
		2003.. 293 246	40 429	252 816	14 697	46 425	191 694	7	
		2002.. 428 821	72 430	356 391	19 523	60 514	276 354	X	
3333	Commercial and service industry machinery manufacturing	2004.. 549 977	76 017	473 960	10 399	169 138	294 423	2	
		2003.. 490 634	80 389	410 245	33 380	92 194	284 671	14	
		2002.. 599 618	115 934	483 684	19 864	79 284	384 536	X	
33331	Commercial and service industry machinery manufacturing	2004.. 549 977	76 017	473 960	10 399	169 138	294 423	2	
		2003.. 490 634	80 389	410 245	33 380	92 194	284 671	14	
		2002.. 599 618	115 934	483 684	19 864	79 284	384 536	X	
333313	Office machinery manufacturing	2004.. 181 876	19 835	162 041	1 319	D	D	2	
		2003.. 68 872	D	D	D	40 286	18 810	10	
		2002.. 59 676	11 621	48 055	1 413	19 809	26 833	X	
333314	Optical instrument and lens manufacturing	2004.. 113 155	24 772	88 383	605	10 403	77 375	3	
		2003.. 97 047	7 973	89 074	2 204	10 629	76 241	13	
		2002.. 129 282	36 574	92 708	3 469	11 045	78 194	X	
333315	Photographic and photocopying equipment manufacturing	2004.. 31 405	7 420	23 986	851	D	D	9	
		2003.. 14 069	D	D	D	2 258	8 251	25	
		2002.. 87 051	14 283	72 768	884	4 564	67 320	X	
33331N	All other commercial and service industry machinery manufacturing	2004.. 223 540	23 990	199 550	7 624	33 550	158 376	3	
		2003.. 310 646	64 967	245 679	25 290	39 021	181 369	21	
		2002.. 323 609	53 456	270 153	14 098	43 866	212 189	X	
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2004.. 859 894	129 162	730 732	10 885	40 899	678 948	5	
		2003.. 511 772	64 044	447 728	10 001	40 830	396 897	8	
		2002.. 596 970	88 690	508 280	14 620	38 178	455 482	X	
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2004.. 859 894	129 162	730 732	10 885	40 899	678 948	5	
		2003.. 511 772	64 044	447 728	10 001	40 830	396 897	8	
		2002.. 596 970	88 690	508 280	14 620	38 178	455 482	X	
333414	Heating equipment (except warm air furnaces) manufacturing	2004.. 82 386	26 327	56 059	1 987	5 360	48 712	15	
		2003.. 74 667	13 777	60 890	1 938	7 907	51 045	11	
		2002.. 90 699	19 150	71 549	2 666	6 390	62 493	X	
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing	2004.. 701 730	86 661	615 069	7 314	28 903	578 852	6	
		2003.. 376 505	41 813	334 692	4 507	25 326	304 858	11	
		2002.. 410 919	53 378	357 541	7 528	20 693	329 320	X	
33341N	Ventilation equipment manufacturing	2004.. 75 778	16 174	59 605	1 584	6 636	51 384	12	
		2003.. 60 600	8 454	52 146	3 556	7 597	40 994	5	
		2002.. 95 352	16 162	79 190	4 426	11 095	63 669	X	
3335	Metalworking machinery manufacturing	2004.. 852 774	71 633	781 141	31 504	71 020	678 618	5	
		2003.. 773 465	102 838	670 627	29 079	85 742	555 806	13	
		2002.. 903 959	100 253	803 706	49 662	95 630	658 414	X	
33351	Metalworking machinery manufacturing	2004.. 852 774	71 633	781 141	31 504	71 020	678 618	5	
		2003.. 773 465	102 838	670 627	29 079	85 742	555 806	13	
		2002.. 903 959	100 253	803 706	49 662	95 630	658 414	X	
333511	Industrial mold manufacturing	2004.. 245 350	29 106	216 244	8 130	14 063	194 052	9	
		2003.. 176 136	27 779	148 357	8 462	20 787	119 107	15	
		2002.. 266 886	25 165	241 721	11 800	27 750	202 171	X	
333512	Machine tool (metal cutting types) manufacturing	2004.. 42 430	1 759	40 671	1 957	5 867	32 847	8	
		2003.. 45 804	6 897	38 907	1 193	6 980	30 734	14	
		2002.. 60 908	8 985	51 923	3 077	8 013	40 833	X	
333513	Machine tool (metal forming types) manufacturing	2004.. 23 756	805	22 951	1 112	2 715	19 123	9	
		2003.. 14 071	777	13 295	618	3 230	9 446	7	
		2002.. 29 268	4 380	24 888	2 397	3 227	19 264	X	
333514	Special die and tool, die set, jig, and fixture manufacturing	2004.. 284 277	30 191	254 086	10 289	21 610	222 187	9	
		2003.. 261 438	23 174	238 265	11 732	27 363	199 170	17	
		2002.. 272 681	33 028	239 653	23 122	32 977	183 554	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
333	Machinery manufacturing—Con.								
3335	Metalworking machinery manufacturing—Con.								
33351	Metalworking machinery manufacturing—Con.								
333515	Cutting tool and machine tool accessory manufacturing	2004.. 184 047	6 582	177 465	5 292	10 706	161 468	17	
		2003.. 228 122	34 570	193 552	4 538	17 982	171 033	39	
		2002.. 196 852	19 027	177 825	5 887	13 240	158 698	X	
333516	Rolling mill machinery and equipment manufacturing	2004.. 14 795	244	14 550	2 567	1 808	10 175	27	
		2003.. 11 520	431	11 089	479	1 221	9 388	36	
		2002.. 17 473	1 580	15 893	395	882	14 616	X	
333518	Other metalworking machinery manufacturing	2004.. 58 119	2 946	55 173	2 157	14 250	38 766	9	
		2003.. 36 372	9 210	27 162	2 056	8 178	16 928	11	
		2002.. 59 891	8 088	51 803	2 984	9 541	39 278	X	
3336	Engine, turbine, and power transmission equipment manufacturing	2004.. 738 965	41 691	697 273	2 585	28 364	666 325	2	
		2003.. 963 638	50 095	913 543	3 871	38 548	871 124	2	
		2002.. 1 076 009	87 784	988 225	6 364	41 236	940 625	X	
33361	Engine, turbine, and power transmission equipment manufacturing	2004.. 738 965	41 691	697 273	2 585	28 364	666 325	2	
		2003.. 963 638	50 095	913 543	3 871	38 548	871 124	2	
		2002.. 1 076 009	87 784	988 225	6 364	41 236	940 625	X	
333611	Turbine and turbine generator set unit manufacturing	2004.. 128 064	3 347	124 718	487	5 270	118 961	9	
		2003.. 209 727	4 611	205 116	1 568	7 103	196 445	3	
		2002.. 202 739	17 161	185 578	1 816	4 695	179 067	X	
333612	Speed changer, industrial high-speed drive, and gear manufacturing	2004.. 50 576	1 722	48 855	656	1 919	46 280	7	
		2003.. 41 552	3 014	38 538	960	2 122	35 456	9	
		2002.. 59 519	6 661	52 858	808	2 975	49 075	X	
333613	Mechanical power transmission equipment manufacturing	2004.. 63 022	2 342	60 681	612	2 930	57 138	4	
		2003.. 87 320	3 185	84 135	209	4 428	79 498	16	
		2002.. 85 669	6 195	79 474	877	5 452	73 145	X	
333618	Other engine equipment manufacturing	2004.. 497 302	34 281	463 020	830	18 245	443 945	2	
		2003.. 625 040	39 285	585 755	1 135	24 895	559 725	3	
		2002.. 728 082	57 767	670 315	2 863	28 114	639 338	X	
3339	Other general purpose machinery manufacturing	2004.. 1 225 618	199 849	1 025 769	32 757	139 921	853 091	2	
		2003.. 1 209 619	250 434	959 185	41 209	150 900	767 076	3	
		2002.. 1 325 716	247 733	1 077 983	58 350	162 171	857 462	X	
33391	Pump and compressor manufacturing	2004.. 256 584	33 455	223 128	3 963	32 937	186 229	4	
		2003.. 269 481	64 254	205 227	7 649	29 744	167 834	11	
		2002.. 246 604	41 812	204 792	11 377	31 429	161 986	X	
333911	Pump and pumping equipment manufacturing	2004.. 155 869	23 486	132 383	2 267	13 389	116 728	4	
		2003.. 153 676	26 901	126 776	4 681	15 306	106 789	11	
		2002.. 146 627	23 276	123 351	7 205	18 341	97 805	X	
333912	Air and gas compressor manufacturing	2004.. 90 190	9 564	80 626	1 444	17 587	61 594	8	
		2003.. 105 771	37 288	68 483	2 195	13 021	53 267	22	
		2002.. 85 926	13 968	71 958	3 268	10 601	58 089	X	
333913	Measuring and dispensing pump manufacturing	2004.. 10 524	405	10 120	252	1 961	7 907	1	
		2003.. 10 033	65	9 968	772	1 417	7 779	2	
		2002.. 14 051	4 568	9 483	904	2 487	6 092	X	
33392	Material handling equipment manufacturing	2004.. 309 178	46 257	262 921	10 460	35 680	216 781	2	
		2003.. 295 311	36 628	258 683	16 513	45 234	196 936	4	
		2002.. 357 700	87 445	270 255	20 255	62 390	187 610	X	
33392M	Material handling equipment manufacturing	2004.. 309 178	46 257	262 921	10 460	35 680	216 781	2	
		2003.. 295 311	36 628	258 683	16 513	45 234	196 936	4	
		2002.. 357 700	87 445	270 255	20 255	62 390	187 610	X	
33399	All other general purpose machinery manufacturing	2004.. 659 857	120 137	539 720	18 335	71 304	450 081	3	
		2003.. 644 827	149 551	495 276	17 048	75 922	402 306	3	
		2002.. 721 412	118 476	602 936	26 718	68 352	507 866	X	
333991	Power-driven hand tool manufacturing	2004.. 38 804	2 838	35 966	458	2 395	33 112	6	
		2003.. 72 025	D	D	1 136	2 592	D	6	
		2002.. 49 494	3 243	46 251	609	2 417	43 225	X	
333993	Packaging machinery manufacturing	2004.. 44 158	5 211	38 948	1 816	8 780	28 352	5	
		2003.. 54 806	D	D	2 261	15 158	D	8	
		2002.. 81 767	14 693	67 074	4 981	14 146	47 947	X	
333994	Industrial process furnace and oven manufacturing	2004.. 31 300	7 655	23 645	853	4 553	18 240	27	
		2003.. 26 121	5 436	20 685	2 127	5 095	13 463	10	
		2002.. 32 678	4 955	27 723	1 732	3 784	22 207	X	
33399N	Fluid power equipment manufacturing	2004.. 171 040	3 971	167 069	2 341	10 279	154 449	3	
		2003.. 131 110	6 097	125 014	3 097	8 698	113 219	4	
		2002.. 202 213	35 417	166 796	2 678	14 771	149 347	X	
33399P	All other miscellaneous general purpose machinery manufacturing	2004.. 374 555	100 462	274 092	12 867	45 297	215 928	5	
		2003.. 360 766	109 399	251 367	8 427	44 380	198 560	4	
		2002.. 355 260	60 168	295 092	16 718	33 234	245 140	X	

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				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures	
334	Computer and electronic product manufacturing	2004.. 11 955 505	1 991 472	9 964 032	82 224	1 008 330	8 873 478	1
		2003.. 12 604 004	2 015 772	10 588 232	117 003	1 699 811	8 771 418	2
		2002.. 13 640 773	2 545 064	11 095 709	229 006	1 324 953	9 541 750	X
3341	Computer and peripheral equipment manufacturing	2004.. 1 245 651	105 414	1 140 236	10 145	133 450	996 642	1
		2003.. 1 994 005	519 275	1 474 730	26 962	143 982	1 303 787	1
		2002.. 2 413 332	626 410	1 786 922	63 644	259 414	1 463 864	X
33411	Computer and peripheral equipment manufacturing	2004.. 1 245 651	105 414	1 140 236	10 145	133 450	996 642	1
		2003.. 1 994 005	519 275	1 474 730	26 962	143 982	1 303 787	1
		2002.. 2 413 332	626 410	1 786 922	63 644	259 414	1 463 864	X
334111	Electronic computer manufacturing	2004.. 527 670	32 133	495 537	2 784	59 719	433 034	1
		2003.. 1 168 520	447 760	720 760	18 285	63 416	639 059	1
		2002.. 1 320 734	455 549	865 185	44 257	107 298	713 630	X
334112	Computer storage device manufacturing	2004.. 272 689	13 940	258 750	983	18 453	239 313	1
		2003.. 450 260	23 420	426 840	5 818	22 434	398 588	5
		2002.. 485 743	37 654	448 089	5 177	61 157	381 755	X
334113	Computer terminal manufacturing	2004.. 5 667	243	5 424	237	1 688	3 499	1
		2003.. 13 559	1 248	12 311	235	2 376	9 701	4
		2002.. 14 990	1 029	13 961	426	6 121	7 414	X
334119	Other computer peripheral equipment manufacturing	2004.. 439 624	59 098	380 526	6 140	53 590	320 795	2
		2003.. 361 667	46 848	314 819	2 624	55 756	256 440	4
		2002.. 591 865	132 178	459 687	13 784	84 838	361 065	X
3342	Communications equipment manufacturing	2004.. 975 921	187 213	788 708	9 715	174 569	604 425	3
		2003.. 1 494 255	292 750	1 201 504	16 167	318 229	867 108	12
		2002.. 1 660 304	404 498	1 255 806	35 238	218 560	1 002 008	X
33421	Telephone apparatus manufacturing	2004.. 245 688	31 456	214 232	1 531	60 237	152 464	3
		2003.. 592 382	125 185	467 197	6 428	153 487	307 282	1
		2002.. 672 671	137 110	535 561	17 373	96 689	421 499	X
334210	Telephone apparatus manufacturing	2004.. 245 688	31 456	214 232	1 531	60 237	152 464	3
		2003.. 592 382	125 185	467 197	6 428	153 487	307 282	1
		2002.. 672 671	137 110	535 561	17 373	96 689	421 499	X
33422	Radio and television broadcasting and wireless communications equipment manufacturing	2004.. 686 535	152 109	534 425	6 623	106 948	420 854	4
		2003.. 829 712	163 238	666 474	7 756	149 816	508 901	22
		2002.. 886 388	255 736	630 652	11 177	105 611	513 864	X
334220	Radio and television broadcasting and wireless communications equipment manufacturing	2004.. 686 535	152 109	534 425	6 623	106 948	420 854	4
		2003.. 829 712	163 238	666 474	7 756	149 816	508 901	22
		2002.. 886 388	255 736	630 652	11 177	105 611	513 864	X
33429	Other communications equipment manufacturing	2004.. 43 698	3 647	40 051	1 560	7 384	31 106	4
		2003.. 72 161	4 327	67 833	1 983	14 926	50 925	12
		2002.. 101 245	11 652	89 593	6 688	16 260	66 645	X
334290	Other communications equipment manufacturing	2004.. 43 698	3 647	40 051	1 560	7 384	31 106	4
		2003.. 72 161	4 327	67 833	1 983	14 926	50 925	12
		2002.. 101 245	11 652	89 593	6 688	16 260	66 645	X
3343	Audio and video equipment manufacturing	2004.. 173 552	40 600	132 952	2 451	7 218	123 283	3
		2003.. 130 973	7 223	123 750	3 303	15 658	104 790	6
		2002.. 139 213	26 002	113 211	3 147	14 545	95 519	X
33431	Audio and video equipment manufacturing	2004.. 173 552	40 600	132 952	2 451	7 218	123 283	3
		2003.. 130 973	7 223	123 750	3 303	15 658	104 790	6
		2002.. 139 213	26 002	113 211	3 147	14 545	95 519	X
334310	Audio and video equipment manufacturing	2004.. 173 552	40 600	132 952	2 451	7 218	123 283	3
		2003.. 130 973	7 223	123 750	3 303	15 658	104 790	6
		2002.. 139 213	26 002	113 211	3 147	14 545	95 519	X
3344	Semiconductor and other electronic component manufacturing	2004.. 6 364 920	833 806	5 531 114	20 632	348 758	5 161 724	2
		2003.. 5 495 405	451 234	5 044 171	38 650	749 732	4 255 789	3
		2002.. 6 364 589	925 521	5 439 068	67 449	490 013	4 881 606	X
33441	Semiconductor and other electronic component manufacturing	2004.. 6 364 920	833 806	5 531 114	20 632	348 758	5 161 724	2
		2003.. 5 495 405	451 234	5 044 171	38 650	749 732	4 255 789	3
		2002.. 6 364 589	925 521	5 439 068	67 449	490 013	4 881 606	X
334411	Electron tube manufacturing	2004.. 21 231	5 718	15 514	90	972	14 452	21
		2003.. 41 360	8 566	32 794	90	1 268	31 436	5
		2002.. 40 943	6 272	34 671	301	1 657	32 713	X
334412	Bare printed circuit board manufacturing	2004.. 174 623	17 527	157 096	3 262	11 754	142 080	3
		2003.. 123 918	16 318	107 600	1 436	10 151	96 013	5
		2002.. 225 245	24 202	201 043	10 028	19 552	171 463	X
334413	Semiconductor and related device manufacturing	2004.. 5 363 240	751 881	4 611 359	5 826	171 487	4 434 045	2
		2003.. 4 288 903	277 559	4 011 345	15 237	547 135	3 448 973	3
		2002.. 4 761 470	692 285	4 069 185	26 256	224 241	3 818 688	X
334414	Electronic capacitor manufacturing	2004.. 55 955	5 134	50 821	370	5 285	45 166	4
		2003.. 53 808	2 992	50 816	843	4 042	45 931	16
		2002.. 125 137	18 132	107 005	4 637	9 593	92 775	X
334415	Electronic resistor manufacturing	2004.. 31 689	2 055	29 634	666	3 725	25 243	5
		2003.. 43 220	16 327	26 892	166	1 902	24 825	30
		2002.. 29 305	7 669	21 636	1 049	2 782	17 805	X

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
334	Computer and electronic product manufacturing—Con.								
3344	Semiconductor and other electronic component manufacturing—Con.								
33441	Semiconductor and other electronic component manufacturing—Con.								
334416	Electronic coil, transformer, and other inductor manufacturing	2004.. 32 296	2 990	29 306	662	1 728	26 916	44	
		2003.. 8 792	765	8 027	463	1 186	6 377	11	
		2002.. 26 489	1 770	24 719	704	1 573	22 442	X	
334417	Electronic connector manufacturing	2004.. 105 073	5 170	99 902	648	6 984	92 270	5	
		2003.. 134 823	3 277	131 546	5 665	8 613	117 268	9	
		2002.. 143 333	7 111	136 222	2 136	8 796	125 290	X	
334418	Printed circuit assembly (electronic assembly) manufacturing	2004.. 352 126	25 177	326 949	3 716	102 389	220 845	7	
		2003.. 411 213	71 875	339 338	3 115	116 943	219 281	5	
		2002.. 601 956	73 565	528 391	10 996	176 765	340 630	X	
334419	Other electronic component manufacturing	2004.. 228 688	18 154	210 534	5 393	44 435	160 706	4	
		2003.. 389 368	53 556	335 812	11 634	58 494	265 685	11	
		2002.. 410 711	94 515	316 196	11 342	45 054	259 800	X	
3345	Navigational, measuring, electromedical, and control instruments manufacturing	2004.. 2 758 029	775 061	1 982 968	36 379	313 136	1 633 452	2	
		2003.. 3 093 525	723 660	2 369 866	27 597	445 948	1 896 321	5	
		2002.. 2 652 632	527 650	2 124 982	54 493	322 185	1 748 304	X	
33451	Navigational, measuring, medical, and control instruments manufacturing	2004.. 2 758 029	775 061	1 982 968	36 379	313 136	1 633 452	2	
		2003.. 3 093 525	723 660	2 369 866	27 597	445 948	1 896 321	5	
		2002.. 2 652 632	527 650	2 124 982	54 493	322 185	1 748 304	X	
334510	Electromedical and electrotherapeutic apparatus manufacturing	2004.. 450 517	145 647	304 870	2 533	40 972	261 365	4	
		2003.. 460 337	170 498	289 838	3 327	42 365	244 146	2	
		2002.. 467 416	79 462	387 954	7 199	79 249	301 506	X	
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	2004.. 1 073 016	359 624	713 392	10 937	93 042	609 413	2	
		2003.. 1 389 663	393 345	996 317	4 366	247 221	744 731	2	
		2002.. 932 020	171 209	760 811	18 223	99 729	642 859	X	
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use	2004.. 55 477	5 799	49 678	559	2 608	46 510	15	
		2003.. 49 642	3 414	46 228	237	3 425	42 565	5	
		2002.. 71 682	5 108	66 574	2 128	7 026	57 420	X	
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables	2004.. 132 804	31 991	100 813	3 457	19 471	77 884	7	
		2003.. 110 286	11 933	98 353	3 110	21 104	74 138	8	
		2002.. 176 590	33 393	143 197	6 130	30 856	106 211	X	
334514	Totalizing fluid meter and counting device manufacturing	2004.. 69 607	6 619	62 987	603	5 449	56 935	5	
		2003.. 70 339	7 964	62 376	429	7 506	54 441	7	
		2002.. 90 420	7 228	83 192	2 526	6 437	74 229	X	
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	2004.. 406 195	36 075	370 120	8 703	76 801	284 616	6	
		2003.. 502 953	39 441	463 512	7 770	52 361	403 380	3	
		2002.. 458 567	137 741	320 826	6 321	29 786	284 719	X	
334516	Analytical laboratory instrument manufacturing	2004.. 339 305	138 252	201 054	6 011	39 332	155 710	9	
		2003.. 342 003	64 966	277 037	4 516	42 305	230 217	44	
		2002.. 238 041	54 345	183 696	4 495	29 498	149 703	X	
334517	Irradiation apparatus manufacturing	2004.. 113 604	27 950	85 653	334	18 182	67 137	9	
		2003.. 58 935	15 694	43 240	214	12 663	30 363	3	
		2002.. 84 737	15 157	69 580	1 611	14 962	53 007	X	
334518	Watch, clock, and parts manufacturing	2004.. 4 973	846	4 126	98	1 088	2 941	12	
		2003.. 4 364	666	3 698	357	573	2 768	16	
		2002.. 9 303	1 181	8 122	600	1 537	5 985	X	
334519	Other measuring and controlling device manufacturing	2004.. 112 533	22 258	90 275	3 144	16 191	70 940	5	
		2003.. 105 005	15 738	89 267	3 270	16 425	69 572	10	
		2002.. 123 856	22 826	101 030	5 260	23 105	72 665	X	
3346	Manufacturing and reproducing magnetic and optical media	2004.. 437 432	49 378	388 054	2 903	31 199	353 952	2	
		2003.. 395 840	21 629	374 211	4 325	26 262	343 624	9	
		2002.. 410 703	34 983	375 720	5 035	20 236	350 449	X	
33461	Manufacturing and reproducing magnetic and optical media	2004.. 437 432	49 378	388 054	2 903	31 199	353 952	2	
		2003.. 395 840	21 629	374 211	4 325	26 262	343 624	9	
		2002.. 410 703	34 983	375 720	5 035	20 236	350 449	X	
334611	Software reproducing	2004.. 25 979	2 940	23 039	263	3 414	19 362	4	
		2003.. 15 485	1 168	14 317	497	4 598	9 222	25	
		2002.. 19 060	3 078	15 982	1 071	3 041	11 870	X	
334612	Prerecorded compact disc (except software), tape, and record reproducing	2004.. 185 129	15 840	169 289	1 791	16 293	151 205	2	
		2003.. 277 518	5 871	271 647	3 680	17 467	250 500	13	
		2002.. 254 428	14 395	240 033	3 324	13 319	223 390	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
334	Computer and electronic product manufacturing—Con.								
3346	Manufacturing and reproducing magnetic and optical media—Con.								
33461	Manufacturing and reproducing magnetic and optical media—Con.								
334613	Magnetic and optical recording media manufacturing	2004.. 226 324	30 597	195 726	849	11 492	183 386	3	
		2003.. 102 836	14 589	88 247	149	4 197	83 901	2	
		2002.. 137 215	17 510	119 705	640	3 876	115 189	X	
335	Electrical equipment, appliance, and component manufacturing	2004.. 2 196 147	203 790	1 992 357	28 781	177 403	1 786 172	1	
		2003.. 2 214 934	226 468	1 988 466	32 685	176 749	1 779 032	4	
		2002.. 2 688 685	415 338	2 273 347	47 584	210 498	2 015 265	X	
3351	Electric lighting equipment manufacturing	2004.. 231 164	22 277	208 887	3 443	23 718	181 727	3	
		2003.. 200 956	19 625	181 330	4 699	26 529	150 102	6	
		2002.. 275 921	45 669	230 252	6 934	37 057	186 261	X	
33511	Electric lamp bulb and parts manufacturing	2004.. 61 345	1 996	59 349	189	1 287	57 873	2	
		2003.. 54 788	1 310	53 477	64	3 480	49 933	12	
		2002.. 77 272	8 909	68 363	1 694	3 955	62 714	X	
335110	Electric lamp bulb and parts manufacturing	2004.. 61 345	1 996	59 349	189	1 287	57 873	2	
		2003.. 54 788	1 310	53 477	64	3 480	49 933	12	
		2002.. 77 272	8 909	68 363	1 694	3 955	62 714	X	
33512	Lighting fixture manufacturing	2004.. 169 819	20 281	149 538	3 254	22 430	123 854	4	
		2003.. 146 168	18 315	127 853	4 635	23 049	100 169	7	
		2002.. 198 649	36 760	161 889	5 240	33 102	123 547	X	
33512M	Lighting fixture manufacturing	2004.. 169 819	20 281	149 538	3 254	22 430	123 854	4	
		2003.. 146 168	18 315	127 853	4 635	23 049	100 169	7	
		2002.. 198 649	36 760	161 889	5 240	33 102	123 547	X	
3352	Household appliance manufacturing	2004.. 451 480	29 499	421 981	1 625	15 168	405 189	1	
		2003.. 646 094	56 620	589 474	1 579	13 389	574 506	14	
		2002.. 604 362	73 816	530 546	2 305	23 292	504 949	X	
33521	Small electrical appliance manufacturing	2004.. 60 923	3 791	57 132	454	6 504	50 174	1	
		2003.. 95 203	27 261	67 942	700	4 803	62 439	5	
		2002.. 122 961	12 465	110 496	958	9 055	100 483	X	
33521M	Small electrical appliance manufacturing	2004.. 60 923	3 791	57 132	454	6 504	50 174	1	
		2003.. 95 203	27 261	67 942	700	4 803	62 439	5	
		2002.. 122 961	12 465	110 496	958	9 055	100 483	X	
33522	Major appliance manufacturing	2004.. 390 557	25 708	364 849	1 171	8 664	355 015	1	
		2003.. 550 891	29 359	521 532	878	8 586	512 068	16	
		2002.. 481 401	61 351	420 050	1 347	14 237	404 466	X	
335221	Household cooking appliance manufacturing	2004.. 116 778	12 001	104 778	D	D	101 660	1	
		2003.. 154 643	11 963	142 680	351	2 847	139 481	4	
		2002.. 117 090	19 285	97 805	626	4 138	93 041	X	
335222	Household refrigerator and home freezer manufacturing	2004.. 125 369	3 936	121 433	D	D	D	2	
		2003.. 131 790	3 456	128 334	253	D	D	1	
		2002.. 155 257	8 674	146 583	D	D	144 131	X	
335224	Household laundry equipment manufacturing	2004.. 61 837	3 898	57 939	—	D	D	1	
		2003.. 71 984	5 101	66 883	—	D	D	1	
		2002.. 80 070	9 018	71 052	D	D	70 035	X	
335228	Other major household appliance manufacturing	2004.. 86 573	5 874	80 699	614	4 196	75 889	1	
		2003.. 192 474	8 839	183 635	274	3 686	179 674	45	
		2002.. 128 984	24 374	104 610	293	7 058	97 259	X	
3353	Electrical equipment manufacturing	2004.. 640 118	57 982	582 136	12 942	56 448	512 745	2	
		2003.. 439 389	49 823	389 566	9 026	45 168	335 372	3	
		2002.. 679 862	101 524	578 338	16 462	62 309	499 567	X	
33531	Electrical equipment manufacturing	2004.. 640 118	57 982	582 136	12 942	56 448	512 745	2	
		2003.. 439 389	49 823	389 566	9 026	45 168	335 372	3	
		2002.. 679 862	101 524	578 338	16 462	62 309	499 567	X	
335311	Power, distribution, and specialty transformer manufacturing	2004.. 39 762	8 767	30 995	1 721	5 201	24 073	4	
		2003.. 31 616	3 208	28 408	1 128	3 822	23 459	3	
		2002.. 78 138	14 114	64 024	2 021	4 678	57 325	X	
335312	Motor and generator manufacturing	2004.. 369 143	25 089	344 053	6 154	25 216	312 683	2	
		2003.. 154 741	9 518	145 223	2 613	7 057	135 554	5	
		2002.. 218 430	23 304	195 126	4 971	13 355	176 800	X	
335313	Switchgear and switchboard apparatus manufacturing	2004.. 106 481	12 236	94 245	1 964	11 996	80 284	3	
		2003.. 111 967	5 282	106 685	2 807	15 640	88 238	5	
		2002.. 191 141	33 119	158 022	4 496	17 995	135 531	X	
335314	Relay and industrial control manufacturing	2004.. 124 732	11 890	112 842	3 102	14 035	95 705	4	
		2003.. 141 065	31 815	109 250	2 479	18 649	88 122	8	
		2002.. 192 153	30 987	161 166	4 974	26 281	129 911	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
335	Electrical equipment, appliance, and component manufacturing—Con.								
3359	Other electrical equipment and component manufacturing	2004.. 873 384	94 031	779 353	10 772	82 070	686 511	2	
		2003.. 928 496	100 400	828 096	17 381	91 663	719 052	2	
		2002.. 1 128 540	194 329	934 211	21 883	87 840	824 488	X	
33591	Battery manufacturing	2004.. 163 875	25 078	138 797	224	4 790	133 784	3	
		2003.. 176 499	14 262	162 237	721	10 410	151 106	8	
		2002.. 165 004	21 871	143 133	1 848	5 489	135 796	X	
335911	Storage battery manufacturing	2004.. 90 978	13 140	77 838	120	3 450	74 269	2	
		2003.. 120 458	9 494	110 964	650	8 707	101 607	7	
		2002.. 81 282	11 528	69 754	1 666	2 708	65 380	X	
335912	Primary battery manufacturing	2004.. 72 897	11 938	60 959	104	1 340	59 515	6	
		2003.. 56 041	4 768	51 273	71	1 703	49 499	21	
		2002.. 83 722	10 343	73 379	182	2 781	70 416	X	
33592	Communication and energy wire and cable manufacturing	2004.. 239 974	30 419	209 555	2 321	12 030	195 204	4	
		2003.. 198 793	11 066	187 728	3 129	13 065	171 534	5	
		2002.. 329 317	74 377	254 940	7 944	19 722	227 274	X	
33592M	Communication and energy wire and cable manufacturing	2004.. 239 974	30 419	209 555	2 321	12 030	195 204	4	
		2003.. 198 793	11 066	187 728	3 129	13 065	171 534	5	
		2002.. 329 317	74 377	254 940	7 944	19 722	227 274	X	
33593	Wiring device manufacturing	2004.. 186 223	12 592	173 631	2 834	16 727	154 070	2	
		2003.. 200 377	15 429	184 948	4 546	18 416	161 985	4	
		2002.. 274 107	37 339	236 768	5 415	22 925	208 428	X	
33593M	Wiring device manufacturing	2004.. 186 223	12 592	173 631	2 834	16 727	154 070	2	
		2003.. 200 377	15 429	184 948	4 546	18 416	161 985	4	
		2002.. 274 107	37 339	236 768	5 415	22 925	208 428	X	
33599	All other electrical equipment and component manufacturing	2004.. 283 312	25 942	257 370	5 393	48 524	203 454	4	
		2003.. 352 826	59 643	293 183	8 985	49 771	234 426	3	
		2002.. 360 112	60 742	299 370	6 676	39 704	252 990	X	
335991	Carbon and graphite product manufacturing	2004.. 67 313	5 898	61 415	382	2 112	58 921	5	
		2003.. 51 394	5 690	45 704	662	2 063	42 980	14	
		2002.. 93 497	9 793	83 704	592	2 109	81 003	X	
335999	All other miscellaneous electrical equipment and component manufacturing	2004.. 215 999	20 045	195 955	5 011	46 411	144 533	5	
		2003.. 301 432	53 953	247 479	8 324	47 709	191 447	2	
		2002.. 286 615	50 949	215 666	6 084	37 595	171 987	X	
336	Transportation equipment manufacturing	2004.. 14 461 799	2 016 691	12 445 109	197 954	1 004 658	11 242 497	1	
		2003.. 16 204 526	2 133 101	14 071 426	280 835	1 110 096	12 680 494	2	
		2002.. 16 610 567	2 572 189	14 038 378	451 199	780 215	12 806 964	X	
3361	Motor vehicle manufacturing	2004.. 4 688 212	537 462	4 150 749	53 449	436 356	3 660 945	1	
		2003.. 5 167 455	588 784	4 578 671	66 440	338 833	4 173 398	1	
		2002.. 4 797 866	815 053	3 982 813	D	150 591	D	X	
33611	Automobile and light duty motor vehicle manufacturing	2004.. 4 526 885	480 125	4 046 760	51 556	D	D	1	
		2003.. 5 004 002	572 618	4 431 384	65 847	329 592	4 035 945	1	
		2002.. 4 643 777	781 816	3 861 961	D	134 089	D	X	
336111	Automobile manufacturing	2004.. 2 391 525	228 824	2 162 701	37 329	D	D	1	
		2003.. 2 114 710	125 255	1 989 455	D	150 832	D	1	
		2002.. 2 052 217	323 548	1 728 669	D	75 413	D	X	
336112	Light truck and utility vehicle manufacturing	2004.. 2 135 360	251 301	1 884 059	14 227	D	D	1	
		2003.. 2 889 292	447 363	2 441 929	D	178 760	D	1	
		2002.. 2 591 560	458 268	2 133 292	D	58 676	D	X	
33612	Heavy duty truck manufacturing	2004.. 161 327	57 337	103 989	1 892	D	D	1	
		2003.. 163 453	16 166	147 287	593	9 241	137 453	3	
		2002.. 154 089	33 237	120 852	D	16 502	D	X	
336120	Heavy duty truck manufacturing	2004.. 161 327	57 337	103 989	1 892	D	D	1	
		2003.. 163 453	16 166	147 287	593	9 241	137 453	3	
		2002.. 154 089	33 237	120 852	D	16 502	D	X	
3362	Motor vehicle body and trailer manufacturing	2004.. 437 142	131 872	305 270	30 369	29 433	245 468	4	
		2003.. 388 901	115 982	272 919	30 901	33 453	208 565	6	
		2002.. 328 374	91 592	236 782	19 959	25 990	190 833	X	
33621	Motor vehicle body and trailer manufacturing	2004.. 437 142	131 872	305 270	30 369	29 433	245 468	4	
		2003.. 388 901	115 982	272 919	30 901	33 453	208 565	6	
		2002.. 328 374	91 592	236 782	19 959	25 990	190 833	X	
336211	Motor vehicle body manufacturing	2004.. 152 016	38 647	113 369	5 696	17 014	90 659	5	
		2003.. 179 530	49 391	130 139	9 996	16 717	103 425	10	
		2002.. 149 886	41 884	108 002	5 750	12 546	89 706	X	
336212	Truck trailer manufacturing	2004.. 126 498	22 950	103 548	14 337	4 759	84 452	10	
		2003.. 61 622	7 892	53 730	9 754	3 518	40 458	11	
		2002.. 53 764	12 087	41 677	4 325	3 292	34 060	X	
336213	Motor home manufacturing	2004.. 80 312	35 517	44 796	3 695	3 224	37 877	3	
		2003.. 56 082	19 665	36 417	2 959	6 660	26 798	3	
		2002.. 50 980	18 636	32 344	2 511	3 664	26 169	X	
336214	Travel trailer and camper manufacturing	2004.. 78 315	34 758	43 557	6 641	4 436	32 480	5	
		2003.. 91 667	39 034	52 633	8 193	6 558	37 883	16	
		2002.. 73 744	18 985	54 759	7 373	6 488	40 898	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
336	Transportation equipment manufacturing—Con.								
3363	Motor vehicle parts manufacturing	2004.. 6 271 372	515 502	5 755 869	62 491	292 028	5 401 350	1	
		2003.. 7 418 652	672 814	6 745 838	103 059	459 335	6 183 443	3	
		2002.. 7 555 622	838 060	6 717 562	84 391	245 519	6 387 652	X	
33631	Motor vehicle gasoline engine and engine parts manufacturing	2004.. 1 003 489	111 052	892 437	10 386	18 867	863 184	4	
		2003.. 1 150 310	169 027	981 283	15 503	23 183	942 597	3	
		2002.. 1 285 841	109 023	1 176 818	9 905	27 954	1 138 959	X	
33631M	Motor vehicle gasoline engine and engine parts manufacturing	2004.. 1 003 489	111 052	892 437	10 386	18 867	863 184	4	
		2003.. 1 150 310	169 027	981 283	15 503	23 183	942 597	3	
		2002.. 1 285 841	109 023	1 176 818	9 905	27 954	1 138 959	X	
33632	Motor vehicle electrical and electronic equipment manufacturing	2004.. 535 748	37 045	498 703	5 967	21 974	470 762	2	
		2003.. 690 867	56 424	634 443	7 033	51 098	576 313	8	
		2002.. 709 763	71 837	637 926	11 682	34 434	591 810	X	
33632M	Motor vehicle electrical and electronic equipment manufacturing	2004.. 535 748	37 045	498 703	5 967	21 974	470 762	2	
		2003.. 690 867	56 424	634 443	7 033	51 098	576 313	8	
		2002.. 709 763	71 837	637 926	11 682	34 434	591 810	X	
33633	Motor vehicle steering and suspension component (except spring) manufacturing	2004.. 317 186	18 592	298 594	1 469	11 031	286 094	6	
		2003.. 364 245	38 710	325 535	2 274	7 971	315 290	6	
		2002.. 400 763	38 738	362 025	2 452	8 797	350 776	X	
336330	Motor vehicle steering and suspension component (except spring) manufacturing	2004.. 317 186	18 592	298 594	1 469	11 031	286 094	6	
		2003.. 364 245	38 710	325 535	2 274	7 971	315 290	6	
		2002.. 400 763	38 738	362 025	2 452	8 797	350 776	X	
33634	Motor vehicle brake system manufacturing	2004.. 461 167	21 074	440 093	4 063	16 872	419 159	2	
		2003.. 423 296	14 172	409 123	2 146	12 162	394 815	4	
		2002.. 568 244	46 331	521 913	6 836	17 907	497 170	X	
336340	Motor vehicle brake system manufacturing	2004.. 461 167	21 074	440 093	4 063	16 872	419 159	2	
		2003.. 423 296	14 172	409 123	2 146	12 162	394 815	4	
		2002.. 568 244	46 331	521 913	6 836	17 907	497 170	X	
33635	Motor vehicle transmission and power train parts manufacturing	2004.. 1 327 217	55 406	1 271 811	4 169	60 948	1 206 694	2	
		2003.. 1 192 810	136 575	1 056 235	12 120	44 520	999 596	8	
		2002.. 1 620 123	179 091	1 441 032	8 758	35 689	1 396 585	X	
336350	Motor vehicle transmission and power train parts manufacturing	2004.. 1 327 217	55 406	1 271 811	4 169	60 948	1 206 694	2	
		2003.. 1 192 810	136 575	1 056 235	12 120	44 520	999 596	8	
		2002.. 1 620 123	179 091	1 441 032	8 758	35 689	1 396 585	X	
33636	Motor vehicle seating and interior trim manufacturing	2004.. 286 085	30 274	255 811	3 834	11 501	240 475	4	
		2003.. 295 383	28 602	266 781	2 195	12 009	252 577	4	
		2002.. 331 290	73 477	257 813	6 339	15 426	236 048	X	
336360	Motor vehicle seating and interior trim manufacturing	2004.. 286 085	30 274	255 811	3 834	11 501	240 475	4	
		2003.. 295 383	28 602	266 781	2 195	12 009	252 577	4	
		2002.. 331 290	73 477	257 813	6 339	15 426	236 048	X	
33637	Motor vehicle metal stamping	2004.. 1 016 346	114 544	901 802	14 067	94 810	792 925	3	
		2003.. 1 938 932	146 443	1 792 489	42 279	238 437	1 511 773	11	
		2002.. 1 027 707	156 389	871 318	12 932	43 306	815 080	X	
336370	Motor vehicle metal stamping	2004.. 1 016 346	114 544	901 802	14 067	94 810	792 925	3	
		2003.. 1 938 932	146 443	1 792 489	42 279	238 437	1 511 773	11	
		2002.. 1 027 707	156 389	871 318	12 932	43 306	815 080	X	
33639	Other motor vehicle parts manufacturing	2004.. 1 324 134	127 514	1 196 619	18 537	56 026	1 122 057	3	
		2003.. 1 362 809	82 862	1 279 948	19 510	69 955	1 190 483	6	
		2002.. 1 611 891	163 174	1 448 717	25 487	62 006	1 361 224	X	
336391	Motor vehicle air-conditioning manufacturing	2004.. 115 231	9 835	105 395	2 604	7 378	95 413	2	
		2003.. 135 460	5 989	129 471	1 691	6 690	121 090	3	
		2002.. 214 058	14 892	199 166	4 113	8 689	186 364	X	
336399	All other miscellaneous motor vehicle parts manufacturing	2004.. 1 208 903	117 679	1 091 224	15 933	48 648	1 026 644	3	
		2003.. 1 227 349	76 872	1 150 477	17 820	63 265	1 069 393	7	
		2002.. 1 397 833	148 282	1 249 551	21 374	53 317	1 174 860	X	
3364	Aerospace product and parts manufacturing	2004.. 2 292 934	693 297	1 599 637	23 917	183 538	1 392 183	2	
		2003.. 2 388 963	625 281	1 763 682	49 725	210 668	1 503 288	1	
		2002.. 2 842 294	583 527	2 258 767	44 826	277 421	1 936 520	X	
33641	Aerospace product and parts manufacturing	2004.. 2 292 934	693 297	1 599 637	23 917	183 538	1 392 183	2	
		2003.. 2 388 963	625 281	1 763 682	49 725	210 668	1 503 288	1	
		2002.. 2 842 294	583 527	2 258 767	44 826	277 421	1 936 520	X	
336411	Aircraft manufacturing	2004.. 891 639	411 964	479 675	6 769	72 198	400 709	5	
		2003.. 694 895	368 174	326 721	2 966	44 406	279 349	1	
		2002.. 905 987	244 110	661 877	6 330	58 458	597 089	X	
336412	Aircraft engine and engine parts manufacturing	2004.. 435 596	59 510	376 086	4 184	22 229	349 673	2	
		2003.. 672 246	11 772	660 474	18 856	55 957	585 661	3	
		2002.. 795 972	85 181	710 791	4 786	67 521	638 484	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
336	Transportation equipment manufacturing—Con.								
3364	Aerospace product and parts manufacturing—Con.								
33641	Aerospace product and parts manufacturing—Con.								
336413	Other aircraft parts and auxiliary equipment manufacturing	2004.. 557 949	89 825	468 124	10 484	65 488	392 153	3	
		2003.. 491 965	90 370	401 595	13 274	55 470	332 852	5	
		2002.. 652 469	146 038	506 431	15 628	108 386	382 417	X	
336414	Guided missile and space vehicle manufacturing	2004.. 318 279	110 567	207 712	1 060	16 484	190 168	1	
		2003.. 438 055	140 652	297 403	D	D	242 511	1	
		2002.. 364 009	73 463	290 546	D	D	243 302	X	
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing	2004.. 64 469	15 779	48 690	1 061	5 327	42 302	1	
		2003.. 79 818	13 792	66 026	D	D	52 971	4	
		2002.. 105 889	29 716	76 173	D	D	63 914	X	
336419	Other guided missile and space vehicle parts and auxiliary equipment manufacturing	2004.. 25 002	5 651	19 350	360	1 813	17 178	41	
		2003.. 11 984	521	11 463	89	1 429	9 944	3	
		2002.. 17 968	5 019	12 949	496	1 139	11 314	X	
3365	Railroad rolling stock manufacturing	2004.. 111 339	15 313	96 026	2 980	7 753	85 293	2	
		2003.. 96 180	10 860	85 319	2 332	6 600	76 388	6	
		2002.. 124 503	31 715	92 788	D	9 598	D	X	
33651	Railroad rolling stock manufacturing	2004.. 111 339	15 313	96 026	2 980	7 753	85 293	2	
		2003.. 96 180	10 860	85 319	2 332	6 600	76 388	6	
		2002.. 124 503	31 715	92 788	D	9 598	D	X	
336510	Railroad rolling stock manufacturing	2004.. 111 339	15 313	96 026	2 980	7 753	85 293	2	
		2003.. 96 180	10 860	85 319	2 332	6 600	76 388	6	
		2002.. 124 503	31 715	92 788	D	9 598	D	X	
3366	Ship and boat building	2004.. 358 367	84 219	274 148	19 263	26 118	228 767	4	
		2003.. 375 347	77 285	298 062	22 022	39 174	236 866	4	
		2002.. 439 948	106 907	333 041	16 537	42 041	274 463	X	
33661	Ship and boat building	2004.. 358 367	84 219	274 148	19 263	26 118	228 767	4	
		2003.. 375 347	77 285	298 062	22 022	39 174	236 866	4	
		2002.. 439 948	106 907	333 041	16 537	42 041	274 463	X	
336611	Ship building and repairing	2004.. 176 623	49 398	127 225	6 954	11 988	108 283	2	
		2003.. 238 329	52 311	186 018	12 206	29 210	144 602	4	
		2002.. 276 310	73 640	202 670	5 666	28 559	168 445	X	
336612	Boat building	2004.. 181 744	34 821	146 923	12 308	14 131	120 484	8	
		2003.. 137 018	24 974	112 044	9 817	9 963	92 264	8	
		2002.. 163 638	33 267	130 371	10 871	13 482	106 018	X	
3369	Other transportation equipment manufacturing	2004.. 302 435	39 026	263 409	5 485	29 432	228 492	2	
		2003.. 369 029	42 094	326 935	6 355	22 033	298 547	10	
		2002.. 521 960	105 335	416 625	D	29 055	D	X	
33699	Other transportation equipment manufacturing	2004.. 302 435	39 026	263 409	5 485	29 432	228 492	2	
		2003.. 369 029	42 094	326 935	6 355	22 033	298 547	10	
		2002.. 521 960	105 335	416 625	D	29 055	D	X	
336991	Motorcycle, bicycle, and parts manufacturing	2004.. 100 004	16 727	83 277	2 505	16 165	64 606	2	
		2003.. 152 239	3 294	148 945	2 829	9 886	136 230	12	
		2002.. 310 942	53 926	257 016	D	17 126	D	X	
336992	Military armored vehicle, tank, and tank component manufacturing	2004.. 18 376	2 967	15 408	190	5 247	9 971	13	
		2003.. 21 980	2 644	19 336	1 702	4 241	13 394	1	
		2002.. 15 477	2 813	12 664	D	2 910	D	X	
336999	All other transportation equipment manufacturing	2004.. 184 056	19 332	164 724	2 790	8 020	153 914	4	
		2003.. 194 811	36 156	158 654	1 825	7 906	148 923	17	
		2002.. 195 541	48 596	146 945	D	9 019	D	X	
337	Furniture and related product manufacturing	2004.. 1 300 439	272 160	1 028 279	68 171	122 182	837 926	3	
		2003.. 1 387 720	228 720	1 159 000	146 058	187 980	824 962	7	
		2002.. 1 731 821	327 336	1 404 485	97 490	177 629	1 129 366	X	
3371	Household and institutional furniture and kitchen cabinet manufacturing	2004.. 829 024	187 463	641 562	45 709	73 678	522 174	5	
		2003.. 854 600	142 953	711 648	110 485	128 043	473 119	11	
		2002.. 1 023 139	230 096	793 043	65 484	92 730	634 829	X	
33711	Wood kitchen cabinet and counter top manufacturing	2004.. 412 936	92 748	320 188	28 638	34 322	257 229	9	
		2003.. 476 772	57 943	418 829	89 307	81 458	248 063	18	
		2002.. 443 371	107 480	335 891	29 926	32 015	273 950	X	
337110	Wood kitchen cabinet and counter top manufacturing	2004.. 412 936	92 748	320 188	28 638	34 322	257 229	9	
		2003.. 476 772	57 943	418 829	89 307	81 458	248 063	18	
		2002.. 443 371	107 480	335 891	29 926	32 015	273 950	X	
33712	Household and institutional furniture manufacturing	2004.. 416 089	94 715	321 374	17 072	39 356	264 946	4	
		2003.. 377 828	85 009	292 819	21 178	46 586	225 056	8	
		2002.. 579 768	122 616	457 152	35 558	60 715	360 879	X	
337121	Upholstered household furniture manufacturing	2004.. 108 473	33 369	75 105	7 259	9 568	58 278	2	
		2003.. 91 429	19 863	71 566	9 317	12 681	49 569	5	
		2002.. 172 006	47 689	124 317	12 188	13 299	98 830	X	
337122	Nonupholstered wood household furniture manufacturing	2004.. 155 152	40 335	114 817	4 582	11 819	98 416	6	
		2003.. 137 411	14 404	123 007	6 061	15 855	101 091	6	
		2002.. 217 853	41 598	176 255	13 689	22 447	140 119	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
337	Furniture and related product manufacturing—Con.								
3371	Household and institutional furniture and kitchen cabinet manufacturing—Con.								
33712	Household and institutional furniture manufacturing—Con.								
337127	Institutional furniture manufacturing	2004.. 101 108	17 208	83 900	4 240	13 628	66 031	7	
		2003.. 105 862	40 966	64 896	4 406	13 309	47 181	25	
		2002.. 123 357	26 094	97 263	7 449	18 970	70 844	X	
33712N	Other household nonupholstered furniture	2004.. 51 355	3 804	47 552	992	4 340	42 220	23	
		2003.. 43 126	9 776	33 350	1 395	4 740	27 215	4	
		2002.. 66 552	7 235	59 317	2 232	5 999	51 086	X	
3372	Office furniture (including fixtures) manufacturing	2004.. 365 133	62 093	303 040	16 816	38 401	247 822	3	
		2003.. 420 119	60 593	359 526	26 853	43 640	289 034	7	
		2002.. 532 996	67 579	465 417	21 755	61 737	381 925	X	
33721	Office furniture (including fixtures) manufacturing	2004.. 365 133	62 093	303 040	16 816	38 401	247 822	3	
		2003.. 420 119	60 593	359 526	26 853	43 640	289 034	7	
		2002.. 532 996	67 579	465 417	21 755	61 737	381 925	X	
337212	Custom architectural woodwork and millwork manufacturing	2004.. 76 592	12 597	63 995	6 370	6 484	51 141	9	
		2003.. 54 198	5 025	49 172	5 702	5 605	37 865	11	
		2002.. 89 386	13 584	75 802	8 259	9 972	57 571	X	
337215	Showcase, partition, shelving, and locker manufacturing	2004.. 156 542	30 962	125 580	5 247	14 196	106 137	5	
		2003.. 199 680	48 292	151 387	18 642	19 535	113 210	13	
		2002.. 205 531	35 433	170 098	9 214	18 775	142 109	X	
33721N	Office furniture manufacturing	2004.. 131 998	18 534	113 465	5 199	17 722	90 544	4	
		2003.. 166 242	7 275	158 967	2 508	18 500	137 959	6	
		2002.. 238 079	18 562	219 517	4 282	32 990	182 245	X	
3379	Other furniture related product manufacturing	2004.. 106 282	22 605	83 677	5 646	10 102	67 929	3	
		2003.. 113 000	25 174	87 826	8 720	16 296	62 810	10	
		2002.. 175 686	29 661	146 025	10 251	23 162	112 612	X	
33791	Mattress manufacturing	2004.. 61 748	15 223	46 526	3 585	2 893	40 048	4	
		2003.. 64 784	17 155	47 630	6 566	4 116	36 948	15	
		2002.. 74 537	10 375	64 162	6 065	7 315	50 782	X	
337910	Mattress manufacturing	2004.. 61 748	15 223	46 526	3 585	2 893	40 048	4	
		2003.. 64 784	17 155	47 630	6 566	4 116	36 948	15	
		2002.. 74 537	10 375	64 162	6 065	7 315	50 782	X	
33792	Blind and shade manufacturing	2004.. 44 534	7 382	37 152	2 061	7 209	27 882	6	
		2003.. 48 216	8 020	40 196	2 154	12 181	25 861	11	
		2002.. 101 149	19 286	81 863	4 186	15 847	61 830	X	
337920	Blind and shade manufacturing	2004.. 44 534	7 382	37 152	2 061	7 209	27 882	6	
		2003.. 48 216	8 020	40 196	2 154	12 181	25 861	11	
		2002.. 101 149	19 286	81 863	4 186	15 847	61 830	X	
339	Miscellaneous manufacturing	2004.. 4 080 399	623 828	3 456 571	92 049	477 675	2 886 846	5	
		2003.. 3 342 594	468 045	2 874 549	99 340	455 502	2 319 707	2	
		2002.. 3 984 102	737 735	3 246 367	131 143	542 024	2 573 200	X	
3391	Medical equipment and supplies manufacturing	2004.. 2 247 761	373 335	1 874 426	30 158	264 836	1 579 432	2	
		2003.. 1 946 660	299 262	1 647 398	36 093	281 284	1 330 021	3	
		2002.. 2 216 886	458 961	1 757 925	53 367	300 945	1 403 613	X	
33911	Medical equipment and supplies manufacturing	2004.. 2 247 761	373 335	1 874 426	30 158	264 836	1 579 432	2	
		2003.. 1 946 660	299 262	1 647 398	36 093	281 284	1 330 021	3	
		2002.. 2 216 886	458 961	1 757 925	53 367	300 945	1 403 613	X	
339111	Laboratory apparatus and furniture manufacturing	2004.. 98 063	16 411	81 651	2 211	12 418	67 022	5	
		2003.. 89 092	8 600	80 492	1 891	15 179	63 421	9	
		2002.. 133 146	22 220	110 926	3 812	19 122	87 992	X	
339112	Surgical and medical instrument manufacturing	2004.. 829 110	172 330	656 780	6 578	106 484	543 718	4	
		2003.. 736 265	100 255	636 010	7 223	93 347	535 440	6	
		2002.. 918 435	185 255	733 180	15 579	97 571	620 030	X	
339113	Surgical appliance and supplies manufacturing	2004.. 919 321	157 499	761 822	14 255	100 804	646 763	3	
		2003.. 750 320	133 405	616 915	7 615	126 557	482 743	4	
		2002.. 778 004	172 483	605 521	16 536	142 166	446 819	X	
339114	Dental equipment and supplies manufacturing	2004.. 60 465	5 952	54 513	2 062	9 998	42 453	5	
		2003.. 86 865	10 089	76 776	4 435	12 342	60 000	10	
		2002.. 145 108	32 711	112 397	3 629	17 861	90 907	X	
339115	Ophthalmic goods manufacturing	2004.. 241 745	7 580	234 164	1 421	22 369	210 375	3	
		2003.. 168 464	32 833	135 631	3 376	20 667	111 588	7	
		2002.. 147 561	33 181	114 380	3 611	13 767	97 002	X	
339116	Dental laboratories	2004.. 99 058	13 562	85 496	3 632	12 762	69 102	8	
		2003.. 115 654	14 080	101 574	11 553	13 192	76 829	14	
		2002.. 94 632	13 111	81 521	10 200	10 458	60 863	X	
3399	Other miscellaneous manufacturing	2004.. 1 832 638	250 493	1 582 145	61 891	212 840	1 307 415	11	
		2003.. 1 395 934	168 783	1 227 151	63 247	174 218	989 686	3	
		2002.. 1 767 216	278 774	1 488 442	77 776	241 079	1 169 587	X	
33991	Jewelry and silverware manufacturing	2004.. 138 045	25 659	112 386	2 971	37 933	71 482	5	
		2003.. 112 003	6 948	105 054	3 964	20 670	80 421	15	
		2002.. 130 173	13 990	116 183	5 090	29 310	81 783	X	
33991M	Jewelry and silverware manufacturing	2004.. 138 045	25 659	112 386	2 971	37 933	71 482	5	
		2003.. 112 003	6 948	105 054	3 964	20 670	80 421	15	
		2002.. 130 173	13 990	116 183	5 090	29 310	81 783	X	

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment by Industry Groups and Industries: 2004 and Earlier Years—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	Total (new and used)	Buildings and other structures	Machinery and equipment				Relative standard error of estimate ² (percent) for column—	
				Total	Automobiles, trucks, etc., for highway use	Computers and peripheral data processing equipment	All other expenditures		
									A
339	Miscellaneous manufacturing—Con.								
3399	Other miscellaneous manufacturing—Con.								
33992	Sporting and athletic goods manufacturing	2004.. 408 685	44 799	363 886	5 380	39 302	319 204	47	
		2003.. 289 975	32 002	257 973	10 408	30 202	217 363	4	
		2002.. 325 492	42 458	283 034	10 200	52 865	219 969	X	
339920	Sporting and athletic goods manufacturing	2004.. 408 685	44 799	363 886	5 380	39 302	319 204	47	
		2003.. 289 975	32 002	257 973	10 408	30 202	217 363	4	
		2002.. 325 492	42 458	283 034	10 200	52 865	219 969	X	
33993	Doll, toy, and game manufacturing	2004.. 80 240	27 721	52 519	620	4 629	47 270	25	
		2003.. 79 104	5 023	74 081	3 497	14 320	56 264	16	
		2002.. 114 233	18 238	95 995	1 651	18 534	75 810	X	
33993M	Doll, toy, and game manufacturing	2004.. 80 240	27 721	52 519	620	4 629	47 270	25	
		2003.. 79 104	5 023	74 081	3 497	14 320	56 264	16	
		2002.. 114 233	18 238	95 995	1 651	18 534	75 810	X	
33994	Office supplies (except paper) manufacturing	2004.. 91 836	11 630	80 206	1 603	11 653	66 949	6	
		2003.. 71 813	8 830	62 983	2 086	9 374	51 523	4	
		2002.. 101 034	13 354	87 680	3 379	12 234	72 067	X	
33994M	Office supplies (except paper) manufacturing	2004.. 91 836	11 630	80 206	1 603	11 653	66 949	6	
		2003.. 71 813	8 830	62 983	2 086	9 374	51 523	4	
		2002.. 101 034	13 354	87 680	3 379	12 234	72 067	X	
33995	Sign manufacturing	2004.. 223 581	31 228	192 353	20 372	26 414	145 567	8	
		2003.. 162 899	14 850	148 049	23 518	28 382	96 150	6	
		2002.. 243 469	42 626	200 843	25 885	32 758	142 200	X	
339950	Sign manufacturing	2004.. 223 581	31 228	192 353	20 372	26 414	145 567	8	
		2003.. 162 899	14 850	148 049	23 518	28 382	96 150	6	
		2002.. 243 469	42 626	200 843	25 885	32 758	142 200	X	
33999	All other miscellaneous manufacturing	2004.. 890 253	109 458	780 795	30 945	92 908	656 942	6	
		2003.. 680 140	101 130	579 010	19 775	71 271	487 964	4	
		2002.. 852 815	148 108	704 707	31 571	95 378	577 758	X	
339991	Gasket, packing, and sealing device manufacturing	2004.. 221 149	29 497	191 652	3 532	17 221	170 899	8	
		2003.. 147 535	20 928	126 606	1 461	9 209	115 936	10	
		2002.. 183 905	28 994	154 911	5 032	14 282	135 597	X	
339992	Musical instrument manufacturing	2004.. 40 163	6 866	33 297	1 396	8 561	23 340	6	
		2003.. 24 794	3 346	21 447	1 538	3 200	16 709	8	
		2002.. 39 022	7 690	31 332	1 422	4 382	25 528	X	
339993	Fastener, button, needle, and pin manufacturing	2004.. 23 480	2 509	20 971	114	1 251	19 606	10	
		2003.. 38 960	4 647	34 313	467	3 987	29 859	8	
		2002.. 35 028	3 210	31 818	336	4 359	27 123	X	
339994	Broom, brush, and mop manufacturing	2004.. 76 496	10 032	66 464	492	5 679	60 294	6	
		2003.. 57 263	9 829	47 434	1 514	5 478	40 443	7	
		2002.. 63 043	7 532	55 511	5 360	11 549	38 602	X	
339995	Burial casket manufacturing	2004.. 12 782	786	11 996	948	946	10 102	12	
		2003.. 13 861	757	13 104	1 422	1 359	10 323	17	
		2002.. 17 468	1 237	16 231	1 207	734	14 290	X	
339999	All other miscellaneous manufacturing	2004.. 516 182	59 767	456 415	24 463	59 250	372 702	9	
		2003.. 397 729	61 623	336 106	13 372	48 037	274 696	5	
		2002.. 514 349	99 445	414 904	18 214	60 072	336 618	X	

¹For a comparison of the Annual Survey of Manufactures (ASM) general statistics NAICS-based codes to the 2002 Economic Census NAICS codes, see Appendix F.

²Description of relative standard error of estimate is given in Appendix C. Percentage standard errors shown are approximate relative standard errors of estimates of level.

Note 1: Previous years' data may differ from that published in the 2003 Annual Survey of Manufactures (ASM) because of changes encountered in subsequent review of the 2004 ASM.

Note 2: The data in this table are based on the 2004 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The data in this table contain sampling errors and nonsampling errors. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—				
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.					
		A	B	C	D	E	F	G	H	A	B	C	D	
31-33	Manufacturing	2004..	423 195 438	157 874 545	114 827 325	150 493 567	395 918 071	147 053 180	111 969 205	136 895 686	1	1	1	1
		2003..	408 681 666	151 905 592	115 518 572	141 257 502	408 751 899	150 972 872	115 249 644	142 529 384	1	1	1	1
		2002..	412 375 960	152 417 903	115 893 354	144 064 703	417 539 195	154 839 110	116 677 804	146 022 281	X	X	X	X
311	Food manufacturing	2004..	31 678 966	17 677 810	2 753 224	11 247 932	31 223 546	17 532 591	2 631 187	11 059 768	1	1	4	2
		2003..	31 629 731	17 829 412	2 704 423	11 095 895	30 392 878	17 450 562	2 615 396	10 326 921	1	1	2	1
		2002..	31 333 896	18 298 257	2 719 850	10 315 789	30 305 849	17 726 458	2 608 994	9 970 397	X	X	X	X
3111	Animal food manufacturing	2004..	1 408 255	614 686	124 272	669 297	1 584 209	628 277	101 637	854 294	2	3	5	2
		2003..	1 439 279	593 515	97 585	748 178	1 359 220	612 038	117 504	A	2	3	5	2
		2002..	1 379 194	638 474	119 769	620 951	1 373 685	523 298	122 519	727 868	X	X	X	X
31111	Animal food manufacturing	2004..	1 408 255	614 686	124 272	669 297	1 584 209	628 277	101 637	854 294	2	3	5	2
		2003..	1 439 279	593 515	97 585	748 178	1 359 220	612 038	117 504	A	2	3	5	2
		2002..	1 379 194	638 474	119 769	620 951	1 373 685	523 298	122 519	727 868	X	X	X	X
311111	Dog and cat food manufacturing	2004..	448 929	233 629	18 875	196 425	475 431	239 682	13 579	222 170	1	2	3	2
		2003..	468 510	221 777	9 067	237 667	470 791	250 434	10 747	209 610	1	3	24	3
		2002..	453 431	232 367	11 376	209 688	388 752	185 476	11 965	191 311	X	X	X	X
311119	Other animal food manufacturing	2004..	959 326	381 057	105 397	472 872	1 108 778	388 595	88 058	632 124	3	5	5	3
		2003..	970 769	371 738	88 519	510 512	A	361 604	106 757	A	2	4	6	3
		2002..	925 763	406 107	108 393	411 263	984 933	337 822	110 554	536 557	X	X	X	X
3112	Grain and oilseed milling	2004..	3 443 053	1 305 753	288 731	1 848 568	3 598 420	1 374 104	217 954	2 006 362	1	1	1	2
		2003..	3 684 704	1 408 778	237 222	2 038 704	3 309 492	1 299 085	202 295	1 808 113	1	2	6	1
		2002..	3 373 281	1 323 662	205 822	1 843 797	3 035 671	1 196 228	182 077	1 657 366	X	X	X	X
31121	Flour milling and malt manufacturing	2004..	1 097 870	229 800	83 906	784 165	1 106 865	217 257	63 288	826 319	1	2	1	1
		2003..	1 152 708	221 390	62 486	868 832	1 059 465	211 730	57 250	790 485	1	1	3	2
		2002..	1 049 555	208 113	57 395	784 047	926 384	193 760	45 645	686 979	X	X	X	X
31121M	Flour milling and malt manufacturing	2004..	1 097 870	229 800	83 906	784 165	1 106 865	217 257	63 288	826 319	1	2	1	1
		2003..	1 152 708	221 390	62 486	868 832	1 059 465	211 730	57 250	790 485	1	1	3	2
		2002..	1 049 555	208 113	57 395	784 047	926 384	193 760	45 645	686 979	X	X	X	X
31122	Starch and vegetable fats and oils manufacturing	2004..	2 028 645	962 235	193 122	873 288	2 124 497	1 015 963	139 640	968 895	2	1	1	5
		2003..	2 178 217	1 048 484	159 848	969 885	1 922 912	945 937	134 239	842 736	2	3	8	2
		2002..	2 011 379	991 861	136 854	882 664	1 792 598	901 922	127 521	763 155	X	X	X	X
311221	Wet corn milling	2004..	484 451	240 798	32 684	210 968	496 836	260 132	28 554	208 150	1	1	1	3
		2003..	480 849	253 455	26 804	200 590	469 018	249 604	30 999	188 415	2	3	3	2
		2002..	472 835	254 118	31 367	187 350	435 518	231 337	24 203	179 978	X	X	X	X
311225	Fats and oils refining and blending	2004..	473 939	200 782	94 691	178 467	415 523	189 111	53 489	172 923	1	1	1	1
		2003..	373 736	195 478	40 007	138 251	326 791	157 683	27 673	141 435	3	2	14	4
		2002..	389 369	184 362	39 339	165 668	354 000	170 406	41 573	142 021	X	X	X	X
31122N	Soybean and other oilseed processing	2004..	1 070 255	520 655	65 747	483 853	1 212 139	566 719	57 598	587 822	4	1	1	8
		2003..	1 323 632	599 552	93 038	631 043	1 127 103	538 650	75 567	512 866	3	5	12	4
		2002..	1 149 175	553 381	66 148	529 646	1 003 080	500 179	61 745	441 156	X	X	X	X
31123	Breakfast cereal manufacturing	2004..	316 537	113 718	11 704	191 116	367 058	140 884	15 025	211 148	1	1	2	2
		2003..	353 778	138 903	14 887	199 988	327 115	141 418	10 805	174 892	1	1	1	1
		2002..	312 347	123 688	11 573	177 086	316 689	100 546	8 911	207 232	X	X	X	X
311230	Breakfast cereal manufacturing	2004..	316 537	113 718	11 704	191 116	367 058	140 884	15 025	211 148	1	1	2	2
		2003..	353 778	138 903	14 887	199 988	327 115	141 418	10 805	174 892	1	1	1	1
		2002..	312 347	123 688	11 573	177 086	316 689	100 546	8 911	207 232	X	X	X	X
3113	Sugar and confectionery product manufacturing	2004..	3 399 803	1 929 465	326 183	1 144 155	3 310 966	1 876 000	271 975	1 162 991	2	2	3	1
		2003..	3 300 558	1 866 690	281 063	1 152 805	3 223 961	1 880 904	263 641	1 079 416	3	4	3	1
		2002..	3 185 679	1 842 474	269 835	1 073 370	3 230 462	1 962 879	244 589	1 022 994	X	X	X	X
31131	Sugar manufacturing	2004..	1 419 120	944 758	136 429	337 932	1 444 469	950 440	127 957	366 072	1	1	1	1
		2003..	1 413 597	913 268	128 061	372 268	1 361 474	911 738	107 230	342 506	6	8	1	4
		2002..	1 311 674	867 118	107 570	336 986	1 397 462	962 247	101 935	333 280	X	X	X	X
311313	Beet sugar manufacturing	2004..	707 173	451 405	90 960	164 808	724 687	445 156	99 542	179 989	1	1	1	1
		2003..	685 697	405 724	99 612	180 361	660 388	394 254	93 388	172 745	12	17	2	8
		2002..	629 735	365 831	93 984	169 920	585 520	342 474	86 714	156 332	X	X	X	X
31131N	Sugar cane mills and refining	2004..	711 947	493 353	45 470	173 124	719 782	505 284	28 415	186 083	1	2	1	1
		2003..	727 900	507 544	28 449	191 907	701 087	517 484	13 842	169 761	1	1	1	1
		2002..	681 939	501 287	13 586	167 066	811 942	619 773	15 221	176 948	X	X	X	X

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—															
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.																
		A	B	C	D	E	F	G	H	A	B	C	D												
311	Food manufacturing—Con.																								
3113	Sugar and confectionery product manufacturing—Con.																								
31132	Chocolate and confectionery manufacturing from cacao beans	2004.. 703 206	337 007	73 547	292 651	642 813	290 810	58 414	293 589	7	10	2	4	2003.. 621 530	292 935	53 126	275 469	595 362	286 328	69 512	239 522	1	4	16	1
		2002.. 576 154	273 959	65 126	237 069	548 057	264 362	61 952	221 743	X	X	X	X												
311320	Chocolate and confectionery manufacturing from cacao beans	2004.. 703 206	337 007	73 547	292 651	642 813	290 810	58 414	293 589	7	10	2	4	2003.. 621 530	292 935	53 126	275 469	595 362	286 328	69 512	239 522	1	4	16	1
		2002.. 576 154	273 959	65 126	237 069	548 057	264 362	61 952	221 743	X	X	X	X												
31133	Confectionery manufacturing from purchased chocolate	2004.. 741 375	399 439	62 671	279 265	669 745	352 942	50 441	266 362	2	2	14	1	2003.. 713 856	387 396	50 857	275 603	767 276	452 317	45 604	269 355	2	2	2	2
		2002.. 792 197	468 114	50 747	273 336	807 313	495 533	44 824	266 956	X	X	X	X												
311330	Confectionery manufacturing from purchased chocolate	2004.. 741 375	399 439	62 671	279 265	669 745	352 942	50 441	266 362	2	2	14	1	2003.. 713 856	387 396	50 857	275 603	767 276	452 317	45 604	269 355	2	2	2	2
		2002.. 792 197	468 114	50 747	273 336	807 313	495 533	44 824	266 956	X	X	X	X												
31134	Nonchocolate confectionery manufacturing	2004.. 536 103	248 261	53 535	234 307	553 939	281 809	35 163	236 967	2	3	2	3	2003.. 551 576	273 092	49 018	229 466	499 849	230 520	41 295	228 034	1	2	8	1
		2002.. 505 654	233 283	46 392	225 979	477 630	240 737	35 878	201 015	X	X	X	X												
311340	Nonchocolate confectionery manufacturing	2004.. 536 103	248 261	53 535	234 307	553 939	281 809	35 163	236 967	2	3	2	3	2003.. 551 576	273 092	49 018	229 466	499 849	230 520	41 295	228 034	1	2	8	1
		2002.. 505 654	233 283	46 392	225 979	477 630	240 737	35 878	201 015	X	X	X	X												
3114	Fruit and vegetable preserving and specialty food manufacturing	2004.. 7 534 113	4 906 917	746 419	1 880 777	7 552 702	4 948 139	851 907	1 752 656	2	2	12	3	2003.. 7 738 141	5 061 057	898 456	1 778 628	7 864 956	5 350 158	797 644	1 717 155	2	3	3	2
		2002.. 8 164 743	5 523 300	893 046	1 748 397	8 065 758	5 501 263	810 235	1 754 260	X	X	X	X												
31141	Frozen food manufacturing	2004.. 2 309 021	1 529 657	122 135	657 229	2 384 043	1 640 396	119 790	623 858	3	3	5	6	2003.. 2 504 409	1 730 431	149 998	623 981	2 527 199	1 776 057	146 258	604 885	1	1	1	2
		2002.. 2 684 611	1 918 255	146 968	619 388	2 532 307	1 745 799	116 798	669 710	X	X	X	X												
31141M	Frozen food manufacturing	2004.. 2 309 021	1 529 657	122 135	657 229	2 384 043	1 640 396	119 790	623 858	3	3	5	6	2003.. 2 504 409	1 730 431	149 998	623 981	2 527 199	1 776 057	146 258	604 885	1	1	1	2
		2002.. 2 684 611	1 918 255	146 968	619 388	2 532 307	1 745 799	116 798	669 710	X	X	X	X												
31142	Fruit and vegetable canning, pickling, and drying	2004.. 5 225 092	3 377 260	624 284	1 223 548	5 168 658	3 307 743	732 117	1 128 798	2	3	14	3	2003.. 5 233 731	3 330 626	748 458	1 154 647	5 337 757	3 574 101	651 386	1 112 270	3	4	4	2
		2002.. 5 480 132	3 605 045	746 078	1 129 009	5 533 451	3 755 464	693 437	1 084 550	X	X	X	X												
31142M	Fruit and vegetable canning, pickling, and drying	2004.. 5 225 092	3 377 260	624 284	1 223 548	5 168 658	3 307 743	732 117	1 128 798	2	3	14	3	2003.. 5 233 731	3 330 626	748 458	1 154 647	5 337 757	3 574 101	651 386	1 112 270	3	4	4	2
		2002.. 5 480 132	3 605 045	746 078	1 129 009	5 533 451	3 755 464	693 437	1 084 550	X	X	X	X												
3115	Dairy product manufacturing	2004.. 3 560 549	2 303 591	189 754	1 067 204	3 502 696	2 261 798	172 019	1 068 878	1	1	2	1	2003.. 3 530 381	2 275 144	151 886	1 103 352	3 322 317	2 127 729	183 994	1 010 594	1	2	18	2
		2002.. 3 266 375	2 091 755	181 463	993 157	3 105 980	1 965 757	180 432	959 791	X	X	X	X												
31151	Dairy product (except frozen) manufacturing	2004.. 3 217 817	2 075 786	185 213	956 818	3 123 047	2 010 844	166 847	945 357	1	1	2	1	2003.. 3 105 907	1 990 478	145 071	970 358	2 909 510	1 852 563	176 552	880 394	2	2	18	2
		2002.. 2 854 617	1 816 059	174 380	864 178	2 692 879	1 698 390	172 252	822 237	X	X	X	X												
311513	Cheese manufacturing	2004.. 1 727 002	1 125 344	119 887	481 771	1 621 916	1 046 645	102 692	472 580	1	1	2	1	2003.. 1 625 907	1 048 992	100 285	476 631	1 508 999	973 934	113 276	421 789	3	4	3	3
		2002.. 1 480 778	959 711	112 492	408 575	1 381 525	932 140	107 920	341 465	X	X	X	X												
311514	Dry, condensed, and evaporated dairy product manufacturing	2004.. 623 577	384 557	32 935	206 085	641 665	421 234	40 068	180 364	1	1	2	1	2003.. 633 238	438 281	39 283	175 713	609 170	404 296	38 646	166 228	3	4	A	5
		2002.. 631 164	404 875	39 283	187 006	669 905	422 282	41 525	206 098	X	X	X	X												
31151N	Fluid milk and butter manufacturing	2004.. 867 238	565 884	32 392	268 962	859 466	542 965	24 087	292 413	1	1	4	2	2003.. 846 762	503 206	25 542	318 014	791 342	474 334	24 630	292 377	1	1	1	1
		2002.. 742 675	451 473	22 605	268 597	641 449	343 968	22 807	274 674	X	X	X	X												

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—										
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.											
		A	B	C	D	E	F	G	H	A	B	C	D							
311	Food manufacturing—Con.																			
3115	Dairy product manufacturing—Con.																			
31152	Ice cream and frozen dessert manufacturing . . .	2004.. 342 732	227 805	4 541	110 386	379 648	250 955	5 172	123 521	2	2	1	3							
		2003.. 424 474	284 665	6 815	132 994	412 807	275 166	7 442	130 199	2	2	5	2							
		2002.. 411 758	275 696	7 083	128 979	413 101	267 367	8 180	137 554	X	X	X	X							
311520	Ice cream and frozen dessert manufacturing	2004.. 342 732	227 805	4 541	110 386	379 648	250 955	5 172	123 521	2	2	1	3							
		2003.. 424 474	284 665	6 815	132 994	412 807	275 166	7 442	130 199	2	2	5	2							
		2002.. 411 758	275 696	7 083	128 979	413 101	267 367	8 180	137 554	X	X	X	X							
3116	Animal slaughtering and processing	2004.. 4 582 449	2 764 207	596 086	1 222 156	4 366 701	2 697 998	551 557	1 117 146	2	2	6	2							
		2003.. 4 606 664	2 844 328	578 456	1 183 879	4 326 040	2 707 403	513 829	1 104 809	1	2	3	1							
		2002.. 4 438 858	2 801 936	519 431	1 117 491	4 168 299	2 527 120	542 620	1 098 559	X	X	X	X							
31161	Animal slaughtering and processing	2004.. 4 582 449	2 764 207	596 086	1 222 156	4 366 701	2 697 998	551 557	1 117 146	2	2	6	2							
		2003.. 4 606 664	2 844 328	578 456	1 183 879	4 326 040	2 707 403	513 829	1 104 809	1	2	3	1							
		2002.. 4 438 858	2 801 936	519 431	1 117 491	4 168 299	2 527 120	542 620	1 098 559	X	X	X	X							
311615	Poultry processing	2004.. 1 365 486	869 628	118 514	377 344	1 314 519	839 613	115 123	359 783	3	3	11	2							
		2003.. 1 412 884	896 646	134 455	381 784	1 304 918	827 541	126 216	351 161	1	1	1	1							
		2002.. 1 359 966	865 858	128 329	365 779	1 161 431	640 393	168 081	352 957	X	X	X	X							
31161N	Animal (except poultry) slaughtering and processing	2004.. 3 216 963	1 894 579	477 571	844 812	3 052 182	1 858 385	436 434	757 363	3	3	7	2							
		2003.. 3 193 779	1 947 682	444 001	802 096	3 021 122	1 879 862	387 613	753 647	2	2	3	1							
		2002.. 3 078 892	1 936 078	391 102	751 712	3 006 868	1 886 727	374 539	745 602	X	X	X	X							
3117	Seafood product preparation and packaging	2004.. 1 077 155	796 761	32 860	247 534	1 091 618	808 890	27 353	255 376	4	5	7	2							
		2003.. 1 098 722	839 640	17 471	241 611	993 674	737 519	21 988	234 168	4	5	29	4							
		2002.. 918 224	648 201	26 329	243 694	1 047 813	739 743	37 412	270 658	X	X	X	X							
31171	Seafood product preparation and packaging	2004.. 1 077 155	796 761	32 860	247 534	1 091 618	808 890	27 353	255 376	4	5	7	2							
		2003.. 1 098 722	839 640	17 471	241 611	993 674	737 519	21 988	234 168	4	5	29	4							
		2002.. 918 224	648 201	26 329	243 694	1 047 813	739 743	37 412	270 658	X	X	X	X							
31171M	Seafood product preparation and packaging	2004.. 1 077 155	796 761	32 860	247 534	1 091 618	808 890	27 353	255 376	4	5	7	2							
		2003.. 1 098 722	839 640	17 471	241 611	993 674	737 519	21 988	234 168	4	5	29	4							
		2002.. 918 224	648 201	26 329	243 694	1 047 813	739 743	37 412	270 658	X	X	X	X							
3118	Bakeries and tortilla manufacturing	2004.. 2 168 715	818 652	39 809	1 310 254	1 886 804	827 977	59 015	999 811	15	7	10	20							
		2003.. 1 858 328	828 045	56 365	973 919	1 795 672	773 825	39 438	982 409	2	2	10	2							
		2002.. 1 807 927	821 061	39 322	947 544	1 646 439	734 387	38 041	874 011	X	X	X	X							
31181	Bread and bakery product manufacturing	2004.. 1 269 984	361 244	26 405	882 335	953 646	316 890	35 269	601 487	25	16	15	29							
		2003.. 897 528	303 757	23 460	570 311	893 450	289 308	23 625	580 516	2	3	8	2							
		2002.. 850 534	285 346	23 720	541 468	813 164	263 087	21 915	528 162	X	X	X	X							
31181M	Bread and bakery product manufacturing	2004.. 1 269 984	361 244	26 405	882 335	953 646	316 890	35 269	601 487	25	16	15	29							
		2003.. 897 528	303 757	23 460	570 311	893 450	289 308	23 625	580 516	2	3	8	2							
		2002.. 850 534	285 346	23 720	541 468	813 164	263 087	21 915	528 162	X	X	X	X							
31182	Cookie, cracker, and pasta manufacturing	2004.. 844 156	438 914	11 893	393 349	886 151	493 945	22 506	369 699	1	1	8	2							
		2003.. 886 474	488 942	24 581	372 952	857 323	468 539	14 742	374 043	1	1	7	2							
		2002.. 910 967	520 037	14 562	376 368	793 565	456 630	14 994	321 941	X	X	X	X							
31182M	Cookie, cracker, and pasta manufacturing	2004.. 844 156	438 914	11 893	393 349	886 151	493 945	22 506	369 699	1	1	8	2							
		2003.. 886 474	488 942	24 581	372 952	857 323	468 539	14 742	374 043	1	1	7	2							
		2002.. 910 967	520 037	14 562	376 368	793 565	456 630	14 994	321 941	X	X	X	X							
31183	Tortilla manufacturing	2004.. 54 575	18 494	1 511	34 570	47 008	17 142	1 240	28 625	8	17	7	16							
		2003.. 74 326	S	S	30 657	44 898	15 978	1 071	27 850	29	S	S	3							
		2002.. 46 426	15 678	1 040	29 708	39 710	14 670	1 132	23 908	X	X	X	X							
311830	Tortilla manufacturing	2004.. 54 575	18 494	1 511	34 570	47 008	17 142	1 240	28 625	8	17	7	16							
		2003.. 74 326	S	S	30 657	44 898	15 978	1 071	27 850	29	S	S	3							
		2002.. 46 426	15 678	1 040	29 708	39 710	14 670	1 132	23 908	X	X	X	X							
3119	Other food manufacturing	2004.. 4 504 874	2 237 777	409 110	1 857 987	4 329 430	2 109 407	377 770	1 842 254	1	2	4	2							
		2003.. 4 372 953	2 112 215	385 921	1 874 818	4 197 546	1 961 903	475 064	1 760 580	1	2	8	1							
		2002.. 4 799 615	2 607 394	464 833	1 727 388	4 631 742	2 575 783	451 069	1 604 890	X	X	X	X							
31191	Snack food manufacturing	2004.. 1 165 587	660 201	96 261	409 125	1 014 367	527 366	105 906	381 095	4	6	15	3							
		2003.. 1 018 726	580 395	95 197	343 134	1 044 486	489 626	205 534	349 326	4	5	31	2							
		2002.. 1 745 625	1 169 881	210 836	364 908	1 772 871	1 216 412	224 199	332 260	X	X	X	X							
31191M	Snack food manufacturing	2004.. 1 165 587	660 201	96 261	409 125	1 014 367	527 366	105 906	381 095	4	6	15	3							
		2003.. 1 018 726	580 395	95 197	343 134	1 044 486	489 626	205 534	349 326	4	5	31	2							
		2002.. 1 745 625	1 169 881	210 836	364 908	1 772 871	1 216 412	224 199	332 260	X	X	X	X							

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—																											
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.																												
		A	B	C	D	E	F	G	H	A	B	C	D																								
311	Food manufacturing—Con.																																				
3119	Other food manufacturing—Con.																																				
31192	Coffee and tea manufacturing	2004.. 519 229	245 527	54 884	218 819	486 662	235 784	50 666	200 212	1	1	3	2	2003.. 511 790	244 877	54 736	212 177	473 316	209 042	53 442	210 833	2	2	2	4	2002.. 468 824	203 532	52 531	212 761	468 297	222 863	47 600	197 834	X	X	X	X
311920	Coffee and tea manufacturing	2004.. 519 229	245 527	54 884	218 819	486 662	235 784	50 666	200 212	1	1	3	2	2003.. 511 790	244 877	54 736	212 177	473 316	209 042	53 442	210 833	2	2	2	4	2002.. 468 824	203 532	52 531	212 761	468 297	222 863	47 600	197 834	X	X	X	X
31193	Flavoring syrup and concentrate manufacturing	2004.. 319 980	193 754	50 375	75 851	267 275	177 818	15 122	74 334	5	19	1	27	2003.. 274 309	130 900	17 206	126 203	290 923	140 562	16 788	133 573	12	24	1	3	2002.. 277 458	134 077	16 415	126 966	292 271	135 048	15 765	141 458	X	X	X	X
311930	Flavoring syrup and concentrate manufacturing	2004.. 319 980	193 754	50 375	75 851	267 275	177 818	15 122	74 334	5	19	1	27	2003.. 274 309	130 900	17 206	126 203	290 923	140 562	16 788	133 573	12	24	1	3	2002.. 277 458	134 077	16 415	126 966	292 271	135 048	15 765	141 458	X	X	X	X
31194	Seasoning and dressing manufacturing	2004.. 1 212 441	589 466	106 553	516 422	1 242 188	583 820	103 988	554 380	1	1	1	2	2003.. 1 270 539	602 210	102 922	565 407	1 182 528	581 415	103 249	497 864	1	3	1	2	2002.. 1 151 052	575 383	98 732	476 937	1 057 782	516 691	89 842	451 249	X	X	X	X
31194M	Seasoning and dressing manufacturing	2004.. 1 212 441	589 466	106 553	516 422	1 242 188	583 820	103 988	554 380	1	1	1	2	2003.. 1 270 539	602 210	102 922	565 407	1 182 528	581 415	103 249	497 864	1	3	1	2	2002.. 1 151 052	575 383	98 732	476 937	1 057 782	516 691	89 842	451 249	X	X	X	X
31199	All other food manufacturing	2004.. 1 287 637	548 829	101 038	637 770	1 318 939	584 618	102 088	632 233	2	2	8	2	2003.. 1 297 589	553 833	115 860	627 897	1 206 293	541 257	96 052	568 983	1	2	3	2	2002.. 1 156 656	524 521	86 319	545 816	1 040 521	484 769	73 663	482 089	X	X	X	X
31199M	All other food manufacturing	2004.. 1 287 637	548 829	101 038	637 770	1 318 939	584 618	102 088	632 233	2	2	8	2	2003.. 1 297 589	553 833	115 860	627 897	1 206 293	541 257	96 052	568 983	1	2	3	2	2002.. 1 156 656	524 521	86 319	545 816	1 040 521	484 769	73 663	482 089	X	X	X	X
312	Beverage and tobacco product manufacturing	2004.. 14 960 617	5 362 154	4 262 381	5 336 083	14 765 367	5 045 857	4 359 084	5 360 426	1	1	2	1	2003.. 14 714 198	4 931 594	4 313 064	5 469 540	14 891 354	4 813 592	4 383 242	5 694 520	1	3	2	1	2002.. 14 882 022	4 810 458	4 405 290	5 666 274	14 730 996	4 692 070	4 380 068	5 658 858	X	X	X	X
3121	Beverage manufacturing	2004.. 10 049 678	4 582 358	4 138 366	1 328 955	9 721 063	4 255 357	4 237 131	1 228 575	1	1	2	2	2003.. 9 569 155	4 130 219	4 187 022	1 251 914	9 684 885	4 115 003	4 262 094	1 307 788	2	3	2	1	2002.. 9 718 724	4 115 929	4 305 499	1 297 296	9 412 387	3 957 555	4 268 794	1 186 038	X	X	X	X
31211	Soft drink and ice manufacturing	2004.. 1 475 489	864 273	55 950	555 266	1 410 359	767 786	88 256	554 317	1	1	4	2	2003.. 1 397 378	764 655	46 607	586 116	1 408 755	724 267	56 665	627 823	2	2	6	2	2002.. 1 423 127	734 667	59 466	628 994	1 352 005	705 657	56 139	590 209	X	X	X	X
31211M	Soft drink and ice manufacturing	2004.. 1 475 489	864 273	55 950	555 266	1 410 359	767 786	88 256	554 317	1	1	4	2	2003.. 1 397 378	764 655	46 607	586 116	1 408 755	724 267	56 665	627 823	2	2	6	2	2002.. 1 423 127	734 667	59 466	628 994	1 352 005	705 657	56 139	590 209	X	X	X	X
31212	Breweries	2004.. 472 478	72 300	170 081	230 097	478 610	78 987	172 582	227 041	1	1	1	1	2003.. 487 222	81 938	175 426	229 858	494 712	77 998	175 181	241 533	1	1	1	1	2002.. 488 581	76 155	178 617	233 809	518 888	74 854	185 579	258 455	X	X	X	X
312120	Breweries	2004.. 472 478	72 300	170 081	230 097	478 610	78 987	172 582	227 041	1	1	1	1	2003.. 487 222	81 938	175 426	229 858	494 712	77 998	175 181	241 533	1	1	1	1	2002.. 488 581	76 155	178 617	233 809	518 888	74 854	185 579	258 455	X	X	X	X
31213	Wineries	2004.. 5 836 616	2 055 307	3 360 945	420 364	5 750 862	1 962 135	3 453 994	334 733	2	3	2	6	2003.. 5 747 699	1 935 292	3 477 552	334 855	5 748 800	1 854 576	3 566 258	327 967	2	3	2	3	2002.. 5 733 812	1 844 363	3 565 444	324 005	5 530 595	1 709 653	3 574 247	246 695	X	X	X	X
312130	Wineries	2004.. 5 836 616	2 055 307	3 360 945	420 364	5 750 862	1 962 135	3 453 994	334 733	2	3	2	6	2003.. 5 747 699	1 935 292	3 477 552	334 855	5 748 800	1 854 576	3 566 258	327 967	2	3	2	3	2002.. 5 733 812	1 844 363	3 565 444	324 005	5 530 595	1 709 653	3 574 247	246 695	X	X	X	X
31214	Distilleries	2004.. 2 265 096	1 590 478	551 389	123 228	2 081 233	1 446 450	522 298	112 485	1	1	1	2	2003.. 1 936 856	1 348 335	487 436	101 085	2 032 618	1 458 162	463 990	110 466	7	9	1	3	2002.. 2 073 204	1 460 744	501 972	110 488	2 010 899	1 467 391	452 829	90 679	X	X	X	X
312140	Distilleries	2004.. 2 265 096	1 590 478	551 389	123 228	2 081 233	1 446 450	522 298	112 485	1	1	1	2	2003.. 1 936 856	1 348 335	487 436	101 085	2 032 618	1 458 162	463 990	110 466	7	9	1	3	2002.. 2 073 204	1 460 744	501 972	110 488	2 010 899	1 467 391	452 829	90 679	X	X	X	X
3122	Tobacco manufacturing	2004.. 4 910 939	779 796	124 015	4 007 128	5 044 304	790 500	121 953	4 131 851	1	1	1	1	2003.. 5 145 044	801 375	126 042	4 217 626	5 206 469	698 589	121 148	4 386 732	1	1	1	1	2002.. 5 163 298	694 529	99 791	4 368 978	5 318 609	734 515	111 274	4 472 820	X	X	X	X

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—									
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	A	B	C	D						
		A	B	C	D	E	F	G	H	A	B	C	D						
312	Beverage and tobacco product manufacturing—Con.																		
3122	Tobacco manufacturing—Con.																		
31221	Tobacco stemming and redrying	206 613	162 590	8 338	35 685	228 519	182 186	9 841	36 492	1	1	1	1						
		239 660	192 001	11 051	36 608	232 879	173 966	2 965	55 948	1	1	1	1						
		232 723	173 917	2 930	55 876	280 910	233 940	13 242	33 728	X	X	X	X						
312210	Tobacco stemming and redrying	206 613	162 590	8 338	35 685	228 519	182 186	9 841	36 492	1	1	1	1						
		239 660	192 001	11 051	36 608	232 879	173 966	2 965	55 948	1	1	1	1						
		232 723	173 917	2 930	55 876	280 910	233 940	13 242	33 728	X	X	X	X						
31222	Tobacco product manufacturing	4 704 326	617 206	115 677	3 971 443	4 815 785	608 314	112 112	4 095 359	1	1	1	1						
		4 905 384	609 374	114 991	4 181 018	4 973 590	524 623	118 183	4 330 784	1	2	1	1						
		4 930 575	520 612	96 861	4 313 102	5 037 699	500 575	98 032	4 439 092	X	X	X	X						
31222M	Tobacco product manufacturing	4 704 326	617 206	115 677	3 971 443	4 815 785	608 314	112 112	4 095 359	1	1	1	1						
		4 905 384	609 374	114 991	4 181 018	4 973 590	524 623	118 183	4 330 784	1	2	1	1						
		4 930 575	520 612	96 861	4 313 102	5 037 699	500 575	98 032	4 439 092	X	X	X	X						
313	Textile mills	3 853 931	1 634 791	1 025 054	1 194 085	4 146 985	1 767 528	1 103 925	1 275 532	2	3	2	4						
		4 607 939	2 025 720	1 237 137	1 345 082	4 704 345	2 125 033	1 241 239	1 338 072	1	1	1	1						
		4 751 012	2 148 065	1 255 266	1 347 681	5 142 181	2 330 275	1 381 662	1 430 244	X	X	X	X						
3131	Fiber, yarn, and thread mills	615 639	258 549	151 033	206 057	680 059	276 024	169 258	234 776	3	4	2	3						
		725 613	299 428	180 954	245 231	714 223	320 651	157 735	235 837	1	2	6	3						
		699 214	301 577	155 478	242 159	839 050	363 974	182 322	292 754	X	X	X	X						
31311	Fiber, yarn, and thread mills	615 639	258 549	151 033	206 057	680 059	276 024	169 258	234 776	3	4	2	3						
		725 613	299 428	180 954	245 231	714 223	320 651	157 735	235 837	1	2	6	3						
		699 214	301 577	155 478	242 159	839 050	363 974	182 322	292 754	X	X	X	X						
31311M	Fiber, yarn, and thread mills	615 639	258 549	151 033	206 057	680 059	276 024	169 258	234 776	3	4	2	3						
		725 613	299 428	180 954	245 231	714 223	320 651	157 735	235 837	1	2	6	3						
		699 214	301 577	155 478	242 159	839 050	363 974	182 322	292 754	X	X	X	X						
3132	Fabric mills	2 312 421	976 078	690 198	646 144	2 451 174	1 040 967	741 018	669 188	1	2	1	2						
		2 682 867	1 160 751	803 797	718 319	2 733 815	1 232 494	786 626	714 695	1	2	1	1						
		2 788 411	1 268 557	803 242	716 612	2 951 868	1 376 227	850 154	725 487	X	X	X	X						
31321	Broadwoven fabric mills	1 297 327	563 918	406 775	326 634	1 292 393	547 674	434 652	310 066	2	3	2	2						
		1 430 931	627 679	466 619	336 632	1 488 719	683 356	472 816	332 548	2	3	2	2						
		1 532 358	705 032	486 026	341 300	1 640 232	762 830	526 199	351 203	X	X	X	X						
313210	Broadwoven fabric mills	1 297 327	563 918	406 775	326 634	1 292 393	547 674	434 652	310 066	2	3	2	2						
		1 430 931	627 679	466 619	336 632	1 488 719	683 356	472 816	332 548	2	3	2	2						
		1 532 358	705 032	486 026	341 300	1 640 232	762 830	526 199	351 203	X	X	X	X						
31322	Narrow fabric mills and schiffli machine embroidery	208 407	80 169	58 743	69 495	238 104	94 255	58 955	84 893	4	6	5	9						
		242 305	96 774	61 529	84 002	251 946	101 532	60 935	89 480	2	2	3	2						
		247 224	101 550	61 770	83 904	256 798	108 327	63 601	84 870	X	X	X	X						
31322M	Narrow fabric mills and schiffli machine embroidery	208 407	80 169	58 743	69 495	238 104	94 255	58 955	84 893	4	6	5	9						
		242 305	96 774	61 529	84 002	251 946	101 532	60 935	89 480	2	2	3	2						
		247 224	101 550	61 770	83 904	256 798	108 327	63 601	84 870	X	X	X	X						
31323	Nonwoven fabric mills	580 369	262 484	135 270	182 616	653 255	317 292	147 176	188 788	1	2	2	2						
		711 670	333 213	170 081	208 375	660 837	325 414	144 485	190 937	2	2	1	2						
		669 989	337 837	144 662	187 490	665 806	323 678	151 840	190 288	X	X	X	X						
313230	Nonwoven fabric mills	580 369	262 484	135 270	182 616	653 255	317 292	147 176	188 788	1	2	2	2						
		711 670	333 213	170 081	208 375	660 837	325 414	144 485	190 937	2	2	1	2						
		669 989	337 837	144 662	187 490	665 806	323 678	151 840	190 288	X	X	X	X						
31324	Knit fabric mills	226 317	69 507	89 409	67 400	267 422	81 746	100 235	85 441	3	4	2	4						
		297 962	103 084	105 567	89 310	332 313	122 193	108 390	101 730	2	5	3	5						
		338 840	124 138	110 784	103 918	389 032	181 392	108 514	99 126	X	X	X	X						
31324M	Knit fabric mills	226 317	69 507	89 409	67 400	267 422	81 746	100 235	85 441	3	4	2	4						
		297 962	103 084	105 567	89 310	332 313	122 193	108 390	101 730	2	5	3	5						
		338 840	124 138	110 784	103 918	389 032	181 392	108 514	99 126	X	X	X	X						
3133	Textile and fabric finishing and fabric coating mills	925 871	400 164	183 823	341 883	1 015 752	450 537	193 648	371 568	9	11	7	12						
		1 199 459	565 541	252 386	381 532	1 256 306	571 888	296 878	387 540	2	2	2	2						
		1 263 387	577 931	296 546	388 910	1 351 263	590 074	349 186	412 003	X	X	X	X						
31331	Textile and fabric finishing mills	624 138	276 666	133 784	213 688	746 942	331 979	154 896	260 068	13	15	9	19						
		922 659	438 879	216 024	267 756	988 921	450 191	260 427	278 303	2	3	2	3						
		1 005 369	460 927	261 359	283 083	1 072 142	465 613	311 565	294 964	X	X	X	X						
31331M	Textile and fabric finishing mills	624 138	276 666	133 784	213 688	746 942	331 979	154 896	260 068	13	15	9	19						
		922 659	438 879	216 024	267 756	988 921	450 191	260 427	278 303	2	3	2	3						
		1 005 369	460 927	261 359	283 083	1 072 142	465 613	311 565	294 964	X	X	X	X						

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—										
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.											
		A	B	C	D	E	F	G	H	A	B	C	D							
313	Textile mills—Con.																			
31332	Textile and fabric finishing and fabric coating mills—Con.																			
	Fabric coating mills	2004..	301 733	123 498	50 039	128 196	268 810	118 558	38 752	111 500	5	4	9	8						
		2003..	276 800	126 662	36 362	113 776	267 385	121 697	36 450	109 237	3	3	6	4						
		2002..	258 018	117 004	35 187	105 827	279 121	124 461	37 621	117 039	X	X	X	X						
313320	Fabric coating mills	2004..	301 733	123 498	50 039	128 196	268 810	118 558	38 752	111 500	5	4	9	8						
		2003..	276 800	126 662	36 362	113 776	267 385	121 697	36 450	109 237	3	3	6	4						
		2002..	258 018	117 004	35 187	105 827	279 121	124 461	37 621	117 039	X	X	X	X						
314	Textile product mills	2004..	2 885 838	1 299 249	444 640	1 141 948	3 184 574	1 473 724	501 688	1 209 162	5	4	5	6						
		2003..	3 416 537	1 635 715	550 163	1 230 659	3 359 863	1 543 641	567 299	1 248 923	1	1	1	2						
		2002..	3 403 451	1 567 576	571 316	1 264 559	4 358 392	2 074 303	669 874	1 614 215	X	X	X	X						
3141	Textile furnishings mills	2004..	1 863 422	863 037	314 898	685 487	2 214 515	1 039 035	375 529	799 951	2	2	2	2						
		2003..	2 226 048	1 053 495	398 847	773 706	2 201 808	981 832	411 110	808 866	1	1	1	1						
		2002..	2 203 947	982 822	412 321	808 804	3 137 058	1 474 225	512 194	1 150 639	X	X	X	X						
31411	Carpet and rug mills	2004..	871 933	334 370	170 522	367 041	873 577	353 840	176 539	343 199	3	4	3	2						
		2003..	889 345	362 258	201 747	325 340	880 954	343 581	193 674	343 699	1	2	1	1						
		2002..	882 531	343 084	193 323	346 124	1 817 248	814 128	301 944	701 176	X	X	X	X						
314110	Carpet and rug mills	2004..	871 933	334 370	170 522	367 041	873 577	353 840	176 539	343 199	3	4	3	2						
		2003..	889 345	362 258	201 747	325 340	880 954	343 581	193 674	343 699	1	2	1	1						
		2002..	882 531	343 084	193 323	346 124	1 817 248	814 128	301 944	701 176	X	X	X	X						
31412	Curtain and linen mills	2004..	991 489	528 667	144 376	318 446	1 340 938	685 195	198 991	456 752	2	2	2	4						
		2003..	1 336 703	691 237	197 100	448 366	1 320 854	638 251	217 436	465 167	1	2	1	2						
		2002..	1 321 416	639 738	218 998	462 680	1 319 810	660 097	210 250	449 463	X	X	X	X						
31412M	Curtain and linen mills	2004..	991 489	528 667	144 376	318 446	1 340 938	685 195	198 991	456 752	2	2	2	4						
		2003..	1 336 703	691 237	197 100	448 366	1 320 854	638 251	217 436	465 167	1	2	1	2						
		2002..	1 321 416	639 738	218 998	462 680	1 319 810	660 097	210 250	449 463	X	X	X	X						
3149	Other textile product mills	2004..	1 022 415	436 212	129 742	456 461	970 059	434 689	126 159	409 211	12	11	16	14						
		2003..	1 190 489	582 219	151 316	456 953	1 158 055	561 809	156 189	440 057	2	2	3	4						
		2002..	1 199 504	584 754	158 995	455 755	1 221 334	600 078	157 680	463 576	X	X	X	X						
31491	Textile bag and canvas mills	2004..	232 183	58 274	29 927	143 981	213 741	71 453	24 386	117 902	53	77	67	43						
		2003..	392 882	157 864	45 913	189 105	362 508	139 557	47 616	175 334	3	7	5	3						
		2002..	352 213	137 686	46 202	168 325	358 468	134 894	45 715	177 859	X	X	X	X						
31491M	Textile bag and canvas mills	2004..	232 183	58 274	29 927	143 981	213 741	71 453	24 386	117 902	53	77	67	43						
		2003..	392 882	157 864	45 913	189 105	362 508	139 557	47 616	175 334	3	7	5	3						
		2002..	352 213	137 686	46 202	168 325	358 468	134 894	45 715	177 859	X	X	X	X						
31499	All other textile product mills	2004..	790 232	377 937	99 815	312 480	756 318	363 236	101 773	291 309	4	6	4	4						
		2003..	797 607	424 355	105 403	267 849	795 547	422 252	108 573	264 723	2	2	4	6						
		2002..	847 291	447 068	112 793	287 430	862 866	465 184	111 965	285 717	X	X	X	X						
314991	Rope, cordage, and twine mills	2004..	117 455	60 843	17 490	39 122	122 212	68 469	19 374	34 369	8	6	11	14						
		2003..	121 916	71 720	17 910	32 285	123 790	74 889	18 420	30 480	3	3	10	4						
		2002..	132 168	78 070	20 977	33 121	124 526	77 539	17 843	29 144	X	X	X	X						
314992	Tire cord and tire fabric mills	2004..	125 719	55 570	27 946	42 203	115 442	55 802	24 426	35 214	1	1	1	1						
		2003..	119 616	60 503	25 194	33 919	119 424	58 266	26 300	34 858	1	2	1	1						
		2002..	101 457	46 408	23 991	31 058	119 590	60 644	22 886	36 060	X	X	X	X						
314999	All other miscellaneous textile product mills	2004..	547 059	261 524	54 379	231 156	518 664	238 964	57 973	221 726	6	8	7	5						
		2003..	556 076	292 132	62 299	201 644	552 333	289 097	63 852	199 384	3	2	6	7						
		2002..	613 666	322 590	67 825	223 251	618 750	327 001	71 236	220 513	X	X	X	X						
315	Apparel manufacturing	2004..	4 260 921	2 249 431	760 738	1 250 752	4 595 905	2 450 441	865 892	1 279 571	1	1	1	1						
		2003..	5 257 696	2 946 255	952 854	1 358 587	5 319 514	2 851 335	1 000 784	1 467 395	1	1	2	1						
		2002..	5 465 736	2 896 411	1 038 387	1 530 938	5 749 936	3 111 974	1 042 156	1 595 806	X	X	X	X						
3151	Apparel knitting mills	2004..	449 540	192 466	139 224	117 850	638 236	278 786	221 715	137 735	3	3	3	5						
		2003..	705 537	338 823	226 293	140 820	711 570	330 655	226 283	154 631	2	2	1	6						
		2002..	763 684	350 909	238 950	173 425	838 047	395 915	256 608	185 524	X	X	X	X						
31511	Hosiery and sock mills	2004..	310 612	129 974	95 545	85 093	417 245	163 723	156 453	97 069	3	3	4	5						
		2003..	446 616	195 391	160 712	90 513	462 182	189 669	167 815	104 698	3	2	1	9						
		2002..	471 635	196 866	169 028	105 741	509 604	221 996	180 890	106 718	X	X	X	X						
31511M	Hosiery and sock mills	2004..	310 612	129 974	95 545	85 093	417 245	163 723	156 453	97 069	3	3	4	5						
		2003..	446 616	195 391	160 712	90 513	462 182	189 669	167 815	104 698	3	2	1	9						
		2002..	471 635	196 866	169 028	105 741	509 604	221 996	180 890	106 718	X	X	X	X						
31519	Other apparel knitting mills	2004..	138 929	62 493	43 679	32 757	220 991	115 064	65 261	40 667	8	8	7	12						
		2003..	258 921	143 432	65 582	49 907	249 387	140 986	58 469	49 933	3	4	3	6						
		2002..	292 049	154 043	69 922	68 084	328 443	173 919	75 718	78 806	X	X	X	X						
31519M	Other apparel knitting mills	2004..	138 929	62 493	43 679	32 757	220 991	115 064	65 261	40 667	8	8	7	12						
		2003..	258 921	143 432	65 582	49 907	249 387	140 986	58 469	49 933	3	4	3	6						
		2002..	292 049	154 043	69 922	68 084	328 443	173 919	75 718	78 806	X	X	X	X						

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—										
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.											
		A	B	C	D	E	F	G	H	A	B	C	D							
315	Apparel manufacturing—Con.																			
3152	Cut and sew apparel manufacturing	2004..	3 447 262	1 860 481	584 634	1 002 147	3 547 262	1 940 320	604 676	1 002 266	1	2	2	1						
		2003..	4 089 134	2 340 662	684 288	1 064 183	4 135 316	2 246 291	733 492	1 155 533	1	1	2	2						
		2002..	4 221 645	2 267 633	757 595	1 196 417	4 412 773	2 432 739	737 748	1 242 286	X	X	X	X						
31521	Cut and sew apparel contractors	2004..	249 097	104 592	57 918	86 587	277 207	114 641	63 109	99 457	11	21	10	7						
		2003..	282 243	130 125	56 145	95 973	359 164	147 722	76 310	135 132	5	6	6	9						
		2002..	304 715	128 438	60 711	115 566	310 118	134 316	63 876	111 926	X	X	X	X						
31521M	Cut and sew apparel contractors	2004..	249 097	104 592	57 918	86 587	277 207	114 641	63 109	99 457	11	21	10	7						
		2003..	282 243	130 125	56 145	95 973	359 164	147 722	76 310	135 132	5	6	6	9						
		2002..	304 715	128 438	60 711	115 566	310 118	134 316	63 876	111 926	X	X	X	X						
31522	Men's and boys' cut and sew apparel manufacturing	2004..	1 346 638	700 408	241 178	405 052	1 349 419	734 018	229 198	386 203	1	2	2	1						
		2003..	1 439 205	824 167	226 020	389 018	1 445 762	764 362	249 521	431 878	2	3	3	3						
		2002..	1 506 033	790 622	263 429	451 982	1 536 031	837 862	238 738	459 431	X	X	X	X						
31522M	Men's and boys' cut and sew apparel manufacturing	2004..	1 346 638	700 408	241 178	405 052	1 349 419	734 018	229 198	386 203	1	2	2	1						
		2003..	1 439 205	824 167	226 020	389 018	1 445 762	764 362	249 521	431 878	2	3	3	3						
		2002..	1 506 033	790 622	263 429	451 982	1 536 031	837 862	238 738	459 431	X	X	X	X						
31523	Women's and girls' cut and sew apparel manufacturing	2004..	1 522 609	846 645	258 646	417 318	1 618 020	900 771	283 757	433 492	1	2	2	2						
		2003..	2 039 202	1 185 551	364 402	489 249	2 015 273	1 142 578	372 187	500 508	2	2	3	2						
		2002..	2 068 825	1 139 057	395 802	533 966	2 215 378	1 238 583	399 353	577 442	X	X	X	X						
31523M	Women's and girls' cut and sew apparel manufacturing	2004..	1 522 609	846 645	258 646	417 318	1 618 020	900 771	283 757	433 492	1	2	2	2						
		2003..	2 039 202	1 185 551	364 402	489 249	2 015 273	1 142 578	372 187	500 508	2	2	3	2						
		2002..	2 068 825	1 139 057	395 802	533 966	2 215 378	1 238 583	399 353	577 442	X	X	X	X						
31529	Other cut and sew apparel manufacturing	2004..	328 919	208 837	26 892	93 190	302 616	190 891	28 611	83 114	3	4	8	4						
		2003..	328 485	200 820	37 722	89 944	315 118	191 629	35 474	88 015	3	3	7	3						
		2002..	342 072	209 516	37 653	94 903	351 246	221 978	35 781	93 487	X	X	X	X						
31529M	Other cut and sew apparel manufacturing	2004..	328 919	208 837	26 892	93 190	302 616	190 891	28 611	83 114	3	4	8	4						
		2003..	328 485	200 820	37 722	89 944	315 118	191 629	35 474	88 015	3	3	7	3						
		2002..	342 072	209 516	37 653	94 903	351 246	221 978	35 781	93 487	X	X	X	X						
3159	Apparel accessories and other apparel manufacturing	2004..	364 119	196 483	36 880	130 756	410 407	231 335	39 502	139 570	4	4	7	5						
		2003..	463 025	266 769	42 272	153 984	472 629	274 389	41 009	157 230	2	3	2	2						
		2002..	480 407	277 869	41 842	160 696	499 116	283 320	47 800	167 996	X	X	X	X						
31599	Apparel accessories and other apparel manufacturing	2004..	364 119	196 483	36 880	130 756	410 407	231 335	39 502	139 570	4	4	7	5						
		2003..	463 025	266 769	42 272	153 984	472 629	274 389	41 009	157 230	2	3	2	2						
		2002..	480 407	277 869	41 842	160 696	499 116	283 320	47 800	167 996	X	X	X	X						
31599M	Apparel accessories and other apparel manufacturing	2004..	364 119	196 483	36 880	130 756	410 407	231 335	39 502	139 570	4	4	7	5						
		2003..	463 025	266 769	42 272	153 984	472 629	274 389	41 009	157 230	2	3	2	2						
		2002..	480 407	277 869	41 842	160 696	499 116	283 320	47 800	167 996	X	X	X	X						
316	Leather and allied product manufacturing	2004..	757 027	384 560	111 341	261 126	758 701	397 820	115 823	245 058	1	1	1	2						
		2003..	780 524	418 099	116 250	246 175	812 201	439 778	129 459	242 964	2	2	5	3						
		2002..	829 192	448 005	132 058	249 129	943 342	503 436	154 285	285 621	X	X	X	X						
3161	Leather and hide tanning and finishing	2004..	138 491	40 855	48 355	49 282	156 395	53 523	53 259	49 613	3	2	1	6						
		2003..	159 455	58 590	56 617	44 249	152 361	53 312	64 898	34 151	4	8	3	5						
		2002..	156 707	55 132	64 759	36 816	194 831	68 977	81 607	44 247	X	X	X	X						
31611	Leather and hide tanning and finishing	2004..	138 491	40 855	48 355	49 282	156 395	53 523	53 259	49 613	3	2	1	6						
		2003..	159 455	58 590	56 617	44 249	152 361	53 312	64 898	34 151	4	8	3	5						
		2002..	156 707	55 132	64 759	36 816	194 831	68 977	81 607	44 247	X	X	X	X						
316110	Leather and hide tanning and finishing	2004..	138 491	40 855	48 355	49 282	156 395	53 523	53 259	49 613	3	2	1	6						
		2003..	159 455	58 590	56 617	44 249	152 361	53 312	64 898	34 151	4	8	3	5						
		2002..	156 707	55 132	64 759	36 816	194 831	68 977	81 607	44 247	X	X	X	X						
3162	Footwear manufacturing	2004..	313 666	173 664	34 324	105 679	334 363	200 495	35 244	98 624	1	1	1	1						
		2003..	343 766	208 310	31 809	103 647	381 387	233 214	36 787	111 386	3	2	17	5						
		2002..	390 712	238 339	40 097	112 276	452 059	282 797	41 006	128 256	X	X	X	X						

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—									
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.										
		A	B	C	D	E	F	G	H	A	B	C	D						
316	Leather and allied product manufacturing—Con.																		
3162	Footwear manufacturing—Con.																		
31621	Footwear manufacturing	2004..	313 666	173 664	34 324	105 679	334 363	200 495	35 244	98 624	1	1	1	1					
		2003..	343 766	208 310	31 809	103 647	381 387	233 214	36 787	111 386	3	2	17	5					
		2002..	390 712	238 339	40 097	112 276	452 059	282 797	41 006	128 256	X	X	X	X					
31621M	Footwear manufacturing	2004..	313 666	173 664	34 324	105 679	334 363	200 495	35 244	98 624	1	1	1	1					
		2003..	343 766	208 310	31 809	103 647	381 387	233 214	36 787	111 386	3	2	17	5					
		2002..	390 712	238 339	40 097	112 276	452 059	282 797	41 006	128 256	X	X	X	X					
3169	Other leather and allied product manufacturing	2004..	304 870	170 041	28 662	106 166	267 944	143 802	27 320	96 821	2	2	5	3					
		2003..	277 303	151 199	27 824	98 280	278 452	153 252	27 773	97 427	3	4	2	4					
		2002..	281 773	154 534	27 202	100 037	296 452	151 662	31 672	113 118	X	X	X	X					
31699	Other leather and allied product manufacturing	2004..	304 870	170 041	28 662	106 166	267 944	143 802	27 320	96 821	2	2	5	3					
		2003..	277 303	151 199	27 824	98 280	278 452	153 252	27 773	97 427	3	4	2	4					
		2002..	281 773	154 534	27 202	100 037	296 452	151 662	31 672	113 118	X	X	X	X					
31699M	Other leather and allied product manufacturing	2004..	304 870	170 041	28 662	106 166	267 944	143 802	27 320	96 821	2	2	5	3					
		2003..	277 303	151 199	27 824	98 280	278 452	153 252	27 773	97 427	3	4	2	4					
		2002..	281 773	154 534	27 202	100 037	296 452	151 662	31 672	113 118	X	X	X	X					
321	Wood product manufacturing	2004..	10 662 867	3 958 474	2 055 473	4 648 920	9 398 380	3 625 158	1 796 232	3 976 990	1	1	2	1					
		2003..	9 525 495	3 641 564	1 864 620	4 019 312	9 428 642	3 764 039	1 819 253	3 845 350	1	1	2	1					
		2002..	9 508 369	3 779 442	1 826 864	3 902 063	9 309 957	3 697 624	1 822 048	3 790 285	X	X	X	X					
3211	Sawmills and wood preservation	2004..	3 664 044	1 563 651	913 450	1 186 943	3 197 646	1 452 895	756 107	988 644	2	2	4	3					
		2003..	3 339 132	1 514 191	805 960	1 018 981	3 355 599	1 545 365	791 581	1 018 653	2	2	3	3					
		2002..	3 363 830	1 545 619	786 496	1 031 715	3 402 086	1 589 671	834 120	978 295	X	X	X	X					
32111	Sawmills and wood preservation	2004..	3 664 044	1 563 651	913 450	1 186 943	3 197 646	1 452 895	756 107	988 644	2	2	4	3					
		2003..	3 339 132	1 514 191	805 960	1 018 981	3 355 599	1 545 365	791 581	1 018 653	2	2	3	3					
		2002..	3 363 830	1 545 619	786 496	1 031 715	3 402 086	1 589 671	834 120	978 295	X	X	X	X					
32111M	Sawmills and wood preservation	2004..	3 664 044	1 563 651	913 450	1 186 943	3 197 646	1 452 895	756 107	988 644	2	2	4	3					
		2003..	3 339 132	1 514 191	805 960	1 018 981	3 355 599	1 545 365	791 581	1 018 653	2	2	3	3					
		2002..	3 363 830	1 545 619	786 496	1 031 715	3 402 086	1 589 671	834 120	978 295	X	X	X	X					
3212	Veneer, plywood, and engineered wood product manufacturing	2004..	1 915 027	704 570	182 542	1 027 915	1 718 553	651 702	166 241	900 611	2	2	3	3					
		2003..	1 706 095	656 690	160 764	888 641	1 743 313	721 529	162 482	859 303	1	1	5	2					
		2002..	1 777 998	727 295	170 501	880 202	1 714 821	700 103	152 980	861 738	X	X	X	X					
32121	Veneer, plywood, and engineered wood product manufacturing	2004..	1 915 027	704 570	182 542	1 027 915	1 718 553	651 702	166 241	900 611	2	2	3	3					
		2003..	1 706 095	656 690	160 764	888 641	1 743 313	721 529	162 482	859 303	1	1	5	2					
		2002..	1 777 998	727 295	170 501	880 202	1 714 821	700 103	152 980	861 738	X	X	X	X					
321219	Reconstituted wood product manufacturing	2004..	513 637	210 189	26 167	277 281	457 352	193 566	26 636	237 150	1	2	4	1					
		2003..	435 193	172 854	27 024	235 315	457 857	188 588	33 231	236 038	1	1	13	1					
		2002..	471 245	196 249	29 858	245 138	452 279	183 159	29 392	239 728	X	X	X	X					
32121N	Veneer and plywood manufacturing	2004..	797 005	296 832	102 732	397 441	740 124	278 509	98 067	363 547	4	3	3	7					
		2003..	731 093	297 412	88 865	344 815	768 328	329 060	99 286	339 982	2	2	7	2					
		2002..	790 113	339 050	104 536	346 527	781 814	324 436	93 380	363 998	X	X	X	X					
32121P	Engineered wood product manufacturing	2004..	604 385	197 548	53 643	353 194	521 078	179 626	41 537	299 914	3	7	6	3					
		2003..	539 809	186 424	44 875	308 511	517 128	203 881	29 965	283 282	3	2	6	5					
		2002..	516 640	191 996	36 107	288 537	480 728	192 508	30 208	258 012	X	X	X	X					
3219	Other wood product manufacturing	2004..	5 083 796	1 690 253	959 481	2 434 062	4 482 180	1 520 561	873 885	2 087 734	1	3	2	2					
		2003..	4 480 268	1 470 683	897 895	2 111 690	4 329 730	1 497 146	865 190	1 967 395	1	1	2	2					
		2002..	4 366 541	1 506 528	869 867	1 990 146	4 193 050	1 407 850	834 948	1 950 252	X	X	X	X					
32191	Millwork	2004..	3 153 322	982 471	599 746	1 571 105	2 702 202	852 376	531 853	1 317 973	2	3	2	2					
		2003..	2 707 187	841 243	550 568	1 315 377	2 602 305	856 828	532 674	1 212 802	2	2	3	2					
		2002..	2 581 418	852 294	530 430	1 198 694	2 425 123	785 107	509 901	1 130 115	X	X	X	X					
32191M	Millwork	2004..	3 153 322	982 471	599 746	1 571 105	2 702 202	852 376	531 853	1 317 973	2	3	2	2					
		2003..	2 707 187	841 243	550 568	1 315 377	2 602 305	856 828	532 674	1 212 802	2	2	3	2					
		2002..	2 581 418	852 294	530 430	1 198 694	2 425 123	785 107	509 901	1 130 115	X	X	X	X					

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NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—																											
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.																												
		A	B	C	D	E	F	G	H	A	B	C	D																								
321	Wood product manufacturing—Con.																																				
3219	Other wood product manufacturing—Con.																																				
32192	Wood container and pallet manufacturing	2004.. 487 052	158 831	95 297	232 924	479 609	161 744	90 949	226 917	6	8	3	11	2003.. 459 865	130 863	94 085	234 917	440 101	131 157	90 891	218 054	4	5	3	7	2002.. 454 459	138 880	93 300	222 279	447 939	114 809	94 115	239 015	X	X	X	X
321920	Wood container and pallet manufacturing	2004.. 487 052	158 831	95 297	232 924	479 609	161 744	90 949	226 917	6	8	3	11	2003.. 459 865	130 863	94 085	234 917	440 101	131 157	90 891	218 054	4	5	3	7	2002.. 454 459	138 880	93 300	222 279	447 939	114 809	94 115	239 015	X	X	X	X
32199	All other wood product manufacturing	2004.. 1 443 423	548 951	264 438	630 033	1 300 369	506 441	251 083	542 845	3	5	2	2	2003.. 1 313 215	498 577	253 242	561 396	1 287 324	509 160	241 624	536 539	2	2	3	2	2002.. 1 330 664	515 354	246 137	569 173	1 319 988	507 934	230 932	581 122	X	X	X	X
321991	Manufactured home (mobile home) manufacturing	2004.. 321 762	57 491	59 504	204 767	265 772	47 513	53 114	165 145	3	2	3	3	2003.. 291 312	53 786	56 159	181 367	292 939	54 079	56 489	182 370	1	2	2	1	2002.. 291 917	53 362	57 493	181 062	298 045	60 351	51 360	186 334	X	X	X	X
321992	Prefabricated wood building manufacturing	2004.. 349 244	95 702	63 958	189 585	319 588	103 758	52 465	163 365	4	6	4	5	2003.. 344 706	106 995	54 117	183 595	281 479	85 811	43 242	152 425	4	4	10	6	2002.. 304 532	87 553	45 256	171 723	294 437	83 126	44 387	166 924	X	X	X	X
321999	All other miscellaneous wood product manufacturing	2004.. 772 416	395 758	140 976	235 681	715 009	355 170	145 504	214 335	4	7	3	3	2003.. 677 197	337 797	142 966	196 435	712 906	369 270	141 893	201 743	2	3	3	3	2002.. 734 215	374 439	143 388	216 388	727 506	364 457	135 185	227 864	X	X	X	X
322	Paper manufacturing	2004.. 14 082 904	6 102 295	1 162 080	6 818 529	13 447 876	5 926 473	1 162 908	6 358 495	1	1	1	1	2003.. 13 779 985	6 065 794	1 175 055	6 539 137	14 147 716	6 136 963	1 209 631	6 801 122	1	1	1	1	2002.. 14 285 192	6 154 784	1 224 865	6 905 543	14 026 543	6 108 924	1 197 366	6 720 253	X	X	X	X
3221	Pulp, paper, and paperboard mills	2004.. 6 266 639	2 813 569	429 654	3 023 416	6 180 103	2 783 744	465 030	2 931 329	1	1	1	1	2003.. 6 290 150	2 806 430	465 965	3 017 756	6 386 425	2 804 006	456 617	3 125 802	1	1	1	1	2002.. 6 492 977	2 827 636	473 542	3 191 799	5 931 651	2 664 671	454 050	2 812 930	X	X	X	X
32211	Pulp mills	2004.. 435 626	191 965	14 585	229 077	480 301	240 717	16 547	223 037	1	1	1	1	2003.. 473 597	236 474	16 484	220 639	508 454	255 376	16 484	236 594	1	1	2	1	2002.. 482 592	244 749	14 925	222 918	435 023	229 059	20 452	185 512	X	X	X	X
322110	Pulp mills	2004.. 435 626	191 965	14 585	229 077	480 301	240 717	16 547	223 037	1	1	1	1	2003.. 473 597	236 474	16 484	220 639	508 454	255 376	16 484	236 594	1	1	2	1	2002.. 482 592	244 749	14 925	222 918	435 023	229 059	20 452	185 512	X	X	X	X
32212	Paper mills	2004.. 4 446 762	2 116 471	365 976	1 964 316	4 338 160	2 078 804	391 886	1 867 471	1	1	1	1	2003.. 4 432 820	2 123 737	389 946	1 919 137	4 404 721	2 049 411	383 558	1 971 751	1	1	1	1	2002.. 4 502 228	2 089 308	396 516	2 016 404	4 082 584	1 957 479	375 246	1 749 859	X	X	X	X
32212M	Paper and newsprint mills	2004.. 4 446 762	2 116 471	365 976	1 964 316	4 338 160	2 078 804	391 886	1 867 471	1	1	1	1	2003.. 4 432 820	2 123 737	389 946	1 919 137	4 404 721	2 049 411	383 558	1 971 751	1	1	1	1	2002.. 4 502 228	2 089 308	396 516	2 016 404	4 082 584	1 957 479	375 246	1 749 859	X	X	X	X
32213	Paperboard mills	2004.. 1 384 251	505 134	49 093	830 024	1 361 642	464 224	56 597	840 821	1	3	1	1	2003.. 1 383 733	446 218	59 535	877 980	1 473 251	499 218	56 575	917 458	1	1	1	1	2002.. 1 508 157	493 579	62 101	952 477	1 414 044	478 133	58 352	877 559	X	X	X	X
322130	Paperboard mills	2004.. 1 384 251	505 134	49 093	830 024	1 361 642	464 224	56 597	840 821	1	3	1	1	2003.. 1 383 733	446 218	59 535	877 980	1 473 251	499 218	56 575	917 458	1	1	1	1	2002.. 1 508 157	493 579	62 101	952 477	1 414 044	478 133	58 352	877 559	X	X	X	X
3222	Converted paper product manufacturing	2004.. 7 816 265	3 288 725	732 427	3 795 113	7 267 773	3 142 729	697 878	3 427 166	1	1	1	1	2003.. 7 489 835	3 259 364	709 090	3 521 381	7 761 290	3 332 957	753 014	3 675 319	1	1	2	1	2002.. 7 792 215	3 327 148	751 323	3 713 744	8 094 892	3 444 253	743 316	3 907 323	X	X	X	X
32221	Paperboard container manufacturing	2004.. 4 049 283	1 506 519	290 951	2 251 813	3 662 980	1 398 834	266 555	1 997 591	1	1	2	1	2003.. 3 699 318	1 411 912	256 779	2 030 627	3 898 420	1 452 847	303 937	2 141 636	1	2	2	1	2002.. 3 911 952	1 438 609	306 629	2 166 714	3 997 877	1 436 380	284 138	2 277 359	X	X	X	X
32221M	Paperboard container manufacturing	2004.. 4 049 283	1 506 519	290 951	2 251 813	3 662 980	1 398 834	266 555	1 997 591	1	1	2	1	2003.. 3 699 318	1 411 912	256 779	2 030 627	3 898 420	1 452 847	303 937	2 141 636	1	2	2	1	2002.. 3 911 952	1 438 609	306 629	2 166 714	3 997 877	1 436 380	284 138	2 277 359	X	X	X	X
32222	Paper bag and coated and treated paper manufacturing	2004.. 1 963 629	852 229	315 742	795 658	1 875 252	828 738	312 402	734 112	1	1	2	1	2003.. 1 982 151	875 060	339 339	767 751	2 008 717	866 866	329 556	812 296	1	1	3	1	2002.. 1 984 226	861 243	315 870	807 113	2 052 987	915 604	331 964	805 419	X	X	X	X
32222N	Coated and laminated paper and packaging manufacturing	2004.. 1 321 123	585 811	247 129	488 183	1 271 144	573 443	245 881	451 821	1	2	2	2	2003.. 1 344 454	601 789	267 407	475 257	1 367 110	608 720	262 083	496 307	1	2	3	1	2002.. 1 340 290	605 783	247 951	486 556	1 393 150	630 069	255 749	507 332	X	X	X	X

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A.]

NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—																											
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.																												
		A	B	C	D	E	F	G	H	A	B	C	D																								
322	Paper manufacturing—Con.																																				
3222	Converted paper product manufacturing—Con.																																				
32222	Paper bag and coated and treated paper manufacturing—Con.																																				
32222P	Coated, uncoated, and multiwall bag and packaging manufacturing	2004.. 642 506	266 418	68 613	307 475	604 108	255 296	66 521	282 291	1	1	1	2	2003.. 637 697	273 271	71 932	292 494	641 608	258 146	67 473	315 989	1	2	1	1	2002.. 643 936	255 460	67 919	320 557	659 837	285 535	76 215	298 087	X	X	X	X
32223	Stationery product manufacturing	2004.. 816 999	437 019	51 921	328 058	789 420	450 170	65 082	274 169	2	2	4	6	2003.. 857 505	494 064	65 692	297 749	819 304	472 840	67 004	279 460	3	2	2	7	2002.. 871 599	513 185	65 386	293 028	964 660	588 917	55 958	319 785	X	X	X	X
32223M	Stationery product manufacturing	2004.. 816 999	437 019	51 921	328 058	789 420	450 170	65 082	274 169	2	2	4	6	2003.. 857 505	494 064	65 692	297 749	819 304	472 840	67 004	279 460	3	2	2	7	2002.. 871 599	513 185	65 386	293 028	964 660	588 917	55 958	319 785	X	X	X	X
32229	Other converted paper product manufacturing	2004.. 986 354	492 958	73 813	419 583	940 120	464 986	53 839	421 295	1	2	6	3	2003.. 950 861	478 328	47 280	425 254	1 034 849	540 405	52 517	441 928	1	1	16	3	2002.. 1 024 438	514 111	63 438	446 889	1 079 368	503 352	71 256	504 760	X	X	X	X
322291	Sanitary paper product manufacturing	2004.. 509 310	265 393	44 313	199 605	488 289	257 880	27 116	203 292	1	2	7	1	2003.. 534 245	284 624	31 524	218 097	585 001	333 011	30 253	221 737	1	1	1	2	2002.. 589 042	331 788	30 250	227 004	601 878	328 886	41 485	231 507	X	X	X	X
322299	All other converted paper product manufacturing	2004.. 477 044	227 565	29 500	219 979	451 832	207 106	26 723	218 003	3	3	12	5	2003.. 416 616	193 704	15 755	207 157	449 847	207 393	22 264	220 190	3	2	49	5	2002.. 435 396	182 323	33 188	219 885	477 490	174 466	29 771	273 253	X	X	X	X
323	Printing and related support activities	2004.. 5 765 160	1 585 016	1 430 708	2 749 437	5 507 706	1 540 039	1 413 642	2 554 025	1	3	1	1	2003.. 5 660 627	1 549 080	1 460 747	2 650 800	5 817 890	1 621 905	1 508 248	2 687 737	1	3	2	1	2002.. 5 772 898	1 568 475	1 490 197	2 714 226	5 812 961	1 613 896	1 489 695	2 709 370	X	X	X	X
3231	Printing and related support activities	2004.. 5 765 160	1 585 016	1 430 708	2 749 437	5 507 706	1 540 039	1 413 642	2 554 025	1	3	1	1	2003.. 5 660 627	1 549 080	1 460 747	2 650 800	5 817 890	1 621 905	1 508 248	2 687 737	1	3	2	1	2002.. 5 772 898	1 568 475	1 490 197	2 714 226	5 812 961	1 613 896	1 489 695	2 709 370	X	X	X	X
32311	Printing	2004.. 5 491 753	1 520 545	1 304 430	2 666 778	5 242 316	1 474 812	1 291 566	2 475 938	1	3	1	1	2003.. 5 360 286	1 446 133	1 337 892	2 576 261	5 523 569	1 534 618	1 382 914	2 606 037	1	3	2	1	2002.. 5 492 959	1 489 682	1 367 446	2 635 831	5 541 014	1 538 357	1 370 035	2 632 622	X	X	X	X
32311M	Printing	2004.. 5 491 753	1 520 545	1 304 430	2 666 778	5 242 316	1 474 812	1 291 566	2 475 938	1	3	1	1	2003.. 5 360 286	1 446 133	1 337 892	2 576 261	5 523 569	1 534 618	1 382 914	2 606 037	1	3	2	1	2002.. 5 492 959	1 489 682	1 367 446	2 635 831	5 541 014	1 538 357	1 370 035	2 632 622	X	X	X	X
32312	Support activities for printing	2004.. 273 407	64 471	126 278	82 658	265 390	65 228	122 076	78 086	6	20	7	8	2003.. 300 341	102 947	122 855	74 539	294 321	87 288	125 334	81 700	6	15	4	4	2002.. 279 939	78 793	122 751	78 395	271 947	75 539	119 660	76 748	X	X	X	X
32312M	Support activities for printing	2004.. 273 407	64 471	126 278	82 658	265 390	65 228	122 076	78 086	6	20	7	8	2003.. 300 341	102 947	122 855	74 539	294 321	87 288	125 334	81 700	6	15	4	4	2002.. 279 939	78 793	122 751	78 395	271 947	75 539	119 660	76 748	X	X	X	X
324	Petroleum and coal products manufacturing	2004.. 18 675 456	9 153 993	3 557 853	5 963 610	15 466 484	7 365 582	3 053 740	5 047 162	1	1	1	1	2003.. 16 142 875	7 685 790	3 236 136	5 220 949	14 210 004	6 893 422	3 298 536	4 018 046	1	1	1	1	2002.. 14 256 128	6 882 245	3 519 717	3 854 166	12 611 336	5 952 557	3 161 954	3 496 825	X	X	X	X
3241	Petroleum and coal products manufacturing	2004.. 18 675 456	9 153 993	3 557 853	5 963 610	15 466 484	7 365 582	3 053 740	5 047 162	1	1	1	1	2003.. 16 142 875	7 685 790	3 236 136	5 220 949	14 210 004	6 893 422	3 298 536	4 018 046	1	1	1	1	2002.. 14 256 128	6 882 245	3 519 717	3 854 166	12 611 336	5 952 557	3 161 954	3 496 825	X	X	X	X
32411	Petroleum refineries	2004.. 16 920 368	8 193 969	3 422 079	5 304 320	13 914 234	6 491 245	2 939 496	4 483 493	1	1	1	1	2003.. 14 411 246	6 751 021	3 113 642	4 546 582	12 610 209	6 019 544	3 175 719	3 414 947	1	1	1	1	2002.. 12 680 921	6 020 336	3 394 068	3 266 517	11 089 281	5 156 669	3 041 385	2 891 227	X	X	X	X
324110	Petroleum refineries	2004.. 16 920 368	8 193 969	3 422 079	5 304 320	13 914 234	6 491 245	2 939 496	4 483 493	1	1	1	1	2003.. 14 411 246	6 751 021	3 113 642	4 546 582	12 610 209	6 019 544	3 175 719	3 414 947	1	1	1	1	2002.. 12 680 921	6 020 336	3 394 068	3 266 517	11 089 281	5 156 669	3 041 385	2 891 227	X	X	X	X
32412	Asphalt paving, roofing, and saturated materials manufacturing	2004.. 986 460	562 902	44 747	378 811	822 841	471 389	37 568	313 883	2	2	4	4	2003.. 958 764	519 231	40 281	399 252	855 333	499 213	37 188	318 932	2	1	3	4	2002.. 837 647	487 688	36 475	313 484	766 734	420 175	21 849	324 710	X	X	X	X
324121	Asphalt paving mixture and block manufacturing	2004.. 427 314	183 271	31 360	212 683	353 369	147 393	27 397	178 578	5	5	5	8	2003.. 447 657	160 599	29 149	257 909	371 957	153 533	27 772	190 652	4	2	1	6	2002.. 397 296	168 766	28 519	200 011	385 608	151 238	15 177	219 193	X	X	X	X

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Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—				
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.					
		A	B	C	D	E	F	G	H	A	B	C	D	
324	Petroleum and coal products manufacturing—Con.													
3241	Petroleum and coal products manufacturing—Con.													
32412	Asphalt paving, roofing, and saturated materials manufacturing—Con.													
324122	Asphalt shingle and coating materials manufacturing	2004.. 559 146	379 631	13 387	166 128	469 472	323 996	10 171	135 306	1	1	1	2	
		2003.. 511 107	358 631	11 133	141 343	483 376	345 680	9 416	128 280	1	1	9	2	
		2002.. 440 351	318 922	7 956	113 473	381 126	268 937	6 672	105 517	X	X	X	X	
32419	Other petroleum and coal products manufacturing	2004.. 768 628	397 121	91 027	280 479	729 409	402 948	76 676	249 785	2	3	4	3	
		2003.. 772 866	415 539	82 212	275 115	744 462	374 665	85 628	284 168	2	2	1	3	
		2002.. 737 560	374 221	89 174	274 165	755 321	375 713	98 720	280 888	X	X	X	X	
324191	Petroleum lubricating oil and grease manufacturing	2004.. 601 900	337 441	63 625	200 834	555 803	323 837	52 616	179 351	3	3	4	4	
		2003.. 585 982	336 304	51 381	198 296	567 324	300 988	57 533	208 802	3	2	1	4	
		2002.. 557 287	300 320	60 793	196 174	547 617	297 258	62 402	187 957	X	X	X	X	
324199	All other petroleum and coal products manufacturing	2004.. 166 727	59 680	27 402	79 645	173 606	79 112	24 060	70 435	3	2	8	2	
		2003.. 186 884	79 234	30 831	76 818	177 138	73 677	28 095	75 366	3	1	1	7	
		2002.. 180 273	73 901	28 381	77 991	207 704	78 455	36 318	92 931	X	X	X	X	
325	Chemical manufacturing	2004.. 53 052 303	26 228 318	10 585 898	16 238 088	47 901 721	23 128 508	9 324 879	15 448 334	1	1	1	1	
		2003.. 49 522 539	23 961 438	9 938 156	15 622 946	48 263 508	23 418 621	8 849 910	15 994 977	1	1	2	2	
		2002.. 48 321 572	23 344 925	8 870 230	16 106 417	47 953 437	23 754 227	8 376 108	15 823 102	X	X	X	X	
3251	Basic chemical manufacturing	2004.. 12 124 556	6 896 843	1 474 306	3 753 406	10 664 408	5 982 129	1 295 397	3 386 883	1	1	1	1	
		2003.. 10 820 272	6 033 804	1 284 541	3 501 927	10 618 720	5 922 201	1 186 803	3 509 716	1	1	1	1	
		2002.. 10 597 665	5 876 214	1 209 396	3 512 055	10 691 430	6 039 747	1 098 486	3 553 197	X	X	X	X	
32511	Petrochemical manufacturing	2004.. 1 619 459	935 735	231 491	452 233	1 012 738	533 190	140 657	338 891	1	1	1	1	
		2003.. 1 030 086	539 412	148 208	342 466	843 808	415 473	79 111	349 224	1	1	3	1	
		2002.. 854 022	419 693	79 513	354 816	929 953	438 093	86 245	405 615	X	X	X	X	
325110	Petrochemical manufacturing	2004.. 1 619 459	935 735	231 491	452 233	1 012 738	533 190	140 657	338 891	1	1	1	1	
		2003.. 1 030 086	539 412	148 208	342 466	843 808	415 473	79 111	349 224	1	1	3	1	
		2002.. 854 022	419 693	79 513	354 816	929 953	438 093	86 245	405 615	X	X	X	X	
32512	Industrial gas manufacturing	2004.. 348 769	165 858	63 074	119 837	350 348	169 375	73 545	107 428	1	2	3	2	
		2003.. 346 257	178 714	65 867	101 676	353 602	192 231	54 783	106 588	1	1	2	1	
		2002.. 330 444	181 060	53 288	96 096	285 378	151 491	46 214	87 673	X	X	X	X	
325120	Industrial gas manufacturing	2004.. 348 769	165 858	63 074	119 837	350 348	169 375	73 545	107 428	1	2	3	2	
		2003.. 346 257	178 714	65 867	101 676	353 602	192 231	54 783	106 588	1	1	2	1	
		2002.. 330 444	181 060	53 288	96 096	285 378	151 491	46 214	87 673	X	X	X	X	
32513	Synthetic dye and pigment manufacturing ..	2004.. 982 001	482 191	103 170	396 640	1 193 178	578 078	106 545	508 556	1	2	4	2	
		2003.. 1 205 650	583 912	105 303	516 434	1 159 443	564 991	108 891	485 561	2	3	3	2	
		2002.. 1 216 496	593 192	126 723	496 581	1 229 703	622 121	116 878	490 704	X	X	X	X	
32513M	Synthetic dye and pigment manufacturing	2004.. 982 001	482 191	103 170	396 640	1 193 178	578 078	106 545	508 556	1	2	4	2	
		2003.. 1 205 650	583 912	105 303	516 434	1 159 443	564 991	108 891	485 561	2	3	3	2	
		2002.. 1 216 496	593 192	126 723	496 581	1 229 703	622 121	116 878	490 704	X	X	X	X	
32518	Other basic inorganic chemical manufacturing	2004.. 1 863 861	907 242	321 942	634 677	1 866 282	969 664	306 571	590 047	1	1	2	2	
		2003.. 1 822 977	956 019	256 827	610 131	1 875 774	974 925	251 987	648 862	1	1	2	1	
		2002.. 1 942 185	990 790	268 641	682 754	2 007 041	1 025 577	271 117	710 347	X	X	X	X	
325181	Alkalies and chlorine manufacturing	2004.. 215 668	105 545	2 732	107 391	216 643	104 304	2 948	109 391	3	1	1	5	
		2003.. 211 007	99 663	2 771	108 573	217 143	101 461	3 389	112 293	1	3	1	1	
		2002.. 234 333	105 459	3 364	125 510	219 415	94 004	2 816	122 595	X	X	X	X	
325182	Carbon black manufacturing	2004.. 106 322	52 476	22	53 825	126 018	68 561	22	57 435	1	1	1	2	
		2003.. 124 207	66 233	22	57 952	115 795	68 643	22	47 130	1	2	1	1	
		2002.. 117 848	72 678	22	45 148	118 828	69 267	55	49 506	X	X	X	X	
325188	All other basic inorganic chemical manufacturing	2004.. 1 541 871	749 221	319 188	473 461	1 523 621	796 800	303 601	423 220	1	2	2	2	
		2003.. 1 487 763	790 123	254 034	443 606	1 542 836	804 821	248 576	489 438	1	1	2	2	
		2002.. 1 590 004	812 653	265 255	512 096	1 668 798	862 306	268 246	538 246	X	X	X	X	

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Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—									
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.										
		A	B	C	D	E	F	G	H	A	B	C	D						
325	Chemical manufacturing—Con.																		
3254	Pharmaceutical and medicine manufacturing—Con.																		
32541	Pharmaceutical and medicine manufacturing	2004.. 19 603 887	7 487 499	6 849 616	5 266 773	17 973 193	6 456 807	5 925 073	5 591 313	1	1	2	2						
		2003.. 18 238 396	6 606 469	6 400 298	5 231 629	17 102 783	6 060 293	5 405 425	5 637 064		4	3	7						
		2002.. 17 349 726	6 147 979	5 466 063	5 735 684	16 604 389	6 388 249	5 000 342	5 215 798	X	X	X	X						
325411	Medicinal and botanical manufacturing	2004.. 1 610 166	666 013	528 308	415 845	1 555 100	613 949	524 781	416 370	1	1	2	2						
		2003.. 1 665 480	707 046	524 465	433 970	1 613 985	654 242	506 397	453 346		1	1	2						
		2002.. 1 692 196	694 824	533 301	464 071	1 645 543	701 262	501 161	443 120	X	X	X	X						
325412	Pharmaceutical preparation manufacturing	2004.. 13 944 165	5 111 617	4 824 796	4 007 753	12 721 904	4 379 153	3 960 944	4 381 807	2	2	3	2						
		2003.. 12 749 309	4 372 011	4 408 823	3 968 474	11 828 393	3 962 656	3 486 184	4 379 553	2	6	4	9						
		2002.. 12 016 166	4 033 327	3 532 959	4 449 880	11 668 469	4 457 854	3 206 241	4 004 374	X	X	X	X						
325413	In-vitro diagnostic substance manufacturing	2004.. 1 284 085	625 142	237 620	421 323	1 131 087	498 015	233 667	399 404	1	1	2	1						
		2003.. 1 223 930	528 582	256 123	439 226	1 188 107	540 124	255 587	392 396	1	1	1	2						
		2002.. 1 162 771	524 893	247 349	390 529	1 175 183	540 731	266 086	368 366	X	X	X	X						
325414	Biological product (except diagnostic) manufacturing	2004.. 2 765 471	1 084 726	1 258 892	421 852	2 565 102	965 690	1 205 681	393 731	2	3	2	5						
		2003.. 2 599 677	998 831	1 210 888	389 958	2 472 298	903 271	1 157 257	411 770	1	4	2	1						
		2002.. 2 478 593	894 935	1 152 454	431 204	2 115 194	688 402	1 026 854	399 938	X	X	X	X						
3255	Paint, coating, and adhesive manufacturing	2004.. 2 582 428	1 450 104	136 867	995 457	2 464 867	1 414 025	130 873	919 968	1	1	2	2						
		2003.. 2 652 069	1 529 225	135 638	987 206	2 688 138	1 546 033	131 934	1 010 172	1	2	6	2						
		2002.. 2 570 373	1 459 521	138 866	971 986	2 622 340	1 496 569	137 775	987 996	X	X	X	X						
32551	Paint and coating manufacturing	2004.. 1 874 108	1 090 056	73 680	710 371	1 792 702	1 055 773	69 009	667 920	1	1	4	2						
		2003.. 1 863 292	1 098 202	75 113	689 977	1 916 914	1 130 352	77 853	708 708	1	2	7	1						
		2002.. 1 889 960	1 102 798	82 159	705 003	1 965 663	1 164 428	82 804	718 431	X	X	X	X						
325510	Paint and coating manufacturing	2004.. 1 874 108	1 090 056	73 680	710 371	1 792 702	1 055 773	69 009	667 920	1	1	4	2						
		2003.. 1 863 292	1 098 202	75 113	689 977	1 916 914	1 130 352	77 853	708 708	1	2	7	1						
		2002.. 1 889 960	1 102 798	82 159	705 003	1 965 663	1 164 428	82 804	718 431	X	X	X	X						
32552	Adhesive manufacturing	2004.. 708 320	360 048	63 186	285 086	672 165	358 252	61 864	252 049	2	1	2	5						
		2003.. 788 777	431 023	60 526	297 229	771 224	415 681	54 080	301 463	3	4	9	4						
		2002.. 680 413	356 723	56 707	266 983	656 677	332 141	54 971	269 565	X	X	X	X						
325520	Adhesive manufacturing	2004.. 708 320	360 048	63 186	285 086	672 165	358 252	61 864	252 049	2	1	2	5						
		2003.. 788 777	431 023	60 526	297 229	771 224	415 681	54 080	301 463	3	4	9	4						
		2002.. 680 413	356 723	56 707	266 983	656 677	332 141	54 971	269 565	X	X	X	X						
3256	Soap, cleaning compound, and toilet preparation manufacturing	2004.. 4 938 096	2 735 154	341 344	1 861 599	4 545 092	2 484 784	330 191	1 730 117	1	1	2	2						
		2003.. 4 902 080	2 599 023	358 388	1 944 668	4 732 777	2 595 182	356 313	1 781 282	2	2	2	4						
		2002.. 4 778 837	2 593 329	353 092	1 832 416	4 842 064	2 718 203	302 873	1 820 988	X	X	X	X						
32561	Soap and cleaning compound manufacturing	2004.. 2 100 084	1 310 632	120 896	668 556	1 860 372	1 157 892	120 285	582 195	1	1	1	1						
		2003.. 1 964 875	1 216 918	129 146	618 811	1 954 951	1 221 081	126 750	607 120	2	3	3	3						
		2002.. 1 911 106	1 191 497	125 935	593 674	1 963 520	1 250 376	114 547	598 597	X	X	X	X						
32561M	Soap and cleaning compound manufacturing	2004.. 2 100 084	1 310 632	120 896	668 556	1 860 372	1 157 892	120 285	582 195	1	1	1	1						
		2003.. 1 964 875	1 216 918	129 146	618 811	1 954 951	1 221 081	126 750	607 120	2	3	3	3						
		2002.. 1 911 106	1 191 497	125 935	593 674	1 963 520	1 250 376	114 547	598 597	X	X	X	X						
32562	Toilet preparation manufacturing	2004.. 2 838 012	1 424 521	220 447	1 193 043	2 684 720	1 326 891	209 906	1 147 922	2	2	3	3						
		2003.. 2 937 205	1 382 105	229 243	1 325 857	2 777 826	1 374 101	229 563	1 174 162	4	4	2	5						
		2002.. 2 867 731	1 401 832	227 157	1 238 742	2 878 544	1 467 827	188 326	1 222 391	X	X	X	X						
325620	Toilet preparation manufacturing	2004.. 2 838 012	1 424 521	220 447	1 193 043	2 684 720	1 326 891	209 906	1 147 922	2	2	3	3						
		2003.. 2 937 205	1 382 105	229 243	1 325 857	2 777 826	1 374 101	229 563	1 174 162	4	4	2	5						
		2002.. 2 867 731	1 401 832	227 157	1 238 742	2 878 544	1 467 827	188 326	1 222 391	X	X	X	X						
3259	Other chemical product and preparation manufacturing	2004.. 3 902 504	1 777 266	574 355	1 550 883	3 721 846	1 744 013	575 297	1 402 536	1	1	1	1						
		2003.. 3 975 035	1 847 493	648 902	1 478 640	4 122 653	1 935 771	703 951	1 482 931	1	2	3	2						
		2002.. 4 045 625	1 903 283	693 374	1 448 968	4 262 799	1 908 754	751 010	1 603 035	X	X	X	X						

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—				
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.					
		A	B	C	D	E	F	G	H	A	B	C	D	
327	Nonmetallic mineral product manufacturing	2004..	9 569 684	4 858 014	1 082 615	3 629 056	9 114 421	4 637 842	1 114 890	3 361 689	1	1	1	1
		2003..	9 496 745	4 779 567	1 175 166	3 542 012	9 526 151	4 806 430	1 221 205	3 498 516	1	1	1	1
		2002..	9 488 357	4 777 658	1 240 516	3 470 183	9 280 007	4 656 609	1 194 639	3 428 759	X	X	X	X
3271	Clay product and refractory manufacturing	2004..	1 285 441	766 208	171 092	348 140	1 242 380	755 924	167 711	318 745	2	2	3	2
		2003..	1 271 474	741 098	173 289	357 088	1 268 266	740 129	181 289	346 849	1	2	1	1
		2002..	1 300 461	767 447	185 754	347 260	1 240 670	714 328	184 791	341 551	X	X	X	X
32711	Pottery, ceramics, and plumbing fixture manufacturing	2004..	412 441	187 386	104 264	120 792	418 996	200 696	104 318	113 981	4	7	5	3
		2003..	440 625	212 748	103 122	124 756	445 396	211 373	111 443	122 581	1	2	1	1
		2002..	472 448	229 133	116 808	126 507	466 424	216 060	118 427	131 937	X	X	X	X
327111	Vitreous china plumbing fixture and china and earthenware bathroom accessories manufacturing	2004..	73 350	42 003	12 445	18 902	89 301	58 050	11 362	19 888	3	5	3	2
		2003..	91 102	59 866	10 545	20 691	75 073	46 346	11 353	17 374	2	3	3	1
		2002..	89 391	54 987	14 882	19 522	79 028	44 727	15 952	18 349	X	X	X	X
327112	Vitreous china, fine earthenware, and other pottery product manufacturing	2004..	173 749	90 662	39 762	43 324	173 894	88 851	38 041	47 001	7	14	9	4
		2003..	174 650	88 770	37 708	48 173	173 396	89 108	39 112	45 176	2	3	2	1
		2002..	181 945	95 774	40 205	45 966	191 445	97 832	44 654	48 959	X	X	X	X
327113	Porcelain electrical supply manufacturing	2004..	165 343	54 721	52 056	58 566	155 801	53 794	54 915	47 092	4	7	6	6
		2003..	174 873	64 113	54 869	55 892	196 927	75 919	60 978	60 031	1	2	2	2
		2002..	201 112	78 372	61 721	61 019	195 951	73 501	57 821	64 629	X	X	X	X
32712	Clay building material and refractories manufacturing	2004..	872 999	578 821	66 829	227 349	823 385	555 228	63 393	204 764	2	2	2	2
		2003..	830 849	528 350	70 167	232 332	822 870	528 756	69 846	224 268	1	2	2	1
		2002..	828 013	538 314	68 946	220 753	774 246	498 268	66 364	209 614	X	X	X	X
327121	Brick and structural clay tile manufacturing	2004..	365 651	287 920	14 547	63 184	351 036	284 942	13 293	52 801	3	4	2	3
		2003..	318 744	256 299	12 190	50 254	324 036	261 504	12 234	50 298	2	3	3	3
		2002..	332 883	270 425	12 361	50 097	287 373	225 976	10 625	50 772	X	X	X	X
327122	Ceramic wall and floor tile manufacturing	2004..	168 918	124 299	9 557	35 062	152 771	106 480	9 804	36 487	3	3	8	4
		2003..	160 824	101 944	11 466	47 414	140 431	87 731	10 784	41 916	1	2	4	1
		2002..	137 754	85 893	10 626	41 235	133 481	85 883	8 471	39 127	X	X	X	X
327123	Other structural clay product manufacturing	2004..	36 228	27 399	1 567	7 261	35 046	26 873	1 405	6 768	1	1	11	2
		2003..	37 434	28 807	1 498	7 129	36 644	26 256	2 835	7 553	1	1	1	1
		2002..	34 769	24 745	2 681	7 343	30 229	22 363	2 387	5 479	X	X	X	X
32712N	Refractory manufacturing	2004..	302 203	139 203	41 158	121 841	284 532	136 933	38 890	108 708	2	3	4	2
		2003..	313 848	141 300	45 013	127 535	321 759	153 265	43 993	124 501	3	6	3	2
		2002..	322 607	157 251	43 278	122 078	323 163	164 046	44 881	114 236	X	X	X	X
3272	Glass and glass product manufacturing	2004..	2 656 847	1 597 623	277 536	781 688	2 644 545	1 557 623	283 608	803 314	1	1	3	1
		2003..	2 787 462	1 613 612	327 441	846 410	2 767 895	1 594 298	335 776	837 821	1	1	4	2
		2002..	2 762 053	1 576 280	348 548	837 225	2 838 821	1 648 359	341 458	849 004	X	X	X	X
32721	Glass and glass product manufacturing	2004..	2 656 847	1 597 623	277 536	781 688	2 644 545	1 557 623	283 608	803 314	1	1	3	1
		2003..	2 787 462	1 613 612	327 441	846 410	2 767 895	1 594 298	335 776	837 821	1	1	4	2
		2002..	2 762 053	1 576 280	348 548	837 225	2 838 821	1 648 359	341 458	849 004	X	X	X	X
327211	Flat glass manufacturing	2004..	331 449	228 317	30 588	72 544	301 285	207 804	28 942	64 539	1	1	1	1
		2003..	290 222	201 949	28 655	59 618	295 508	199 044	31 835	64 629	1	2	1	1
		2002..	295 445	199 004	31 839	64 602	315 133	216 187	34 946	64 000	X	X	X	X
327212	Other pressed and blown glass and glassware manufacturing	2004..	702 981	471 955	93 769	137 257	816 105	494 712	109 843	211 549	2	4	3	3
		2003..	816 325	473 015	113 335	229 975	835 614	486 278	96 891	252 445	1	1	2	1
		2002..	828 951	476 506	101 717	250 728	942 610	560 890	104 126	277 594	X	X	X	X
327213	Glass container manufacturing	2004..	634 106	510 943	1 021	122 141	638 279	512 533	977	124 769	2	3	3	2
		2003..	680 400	547 668	1 005	131 726	636 225	513 568	1 148	121 509	2	3	11	2
		2002..	638 566	515 297	1 127	122 142	630 337	516 118	1 110	113 109	X	X	X	X
327215	Glass product manufacturing made of purchased glass	2004..	988 312	386 409	152 157	449 746	888 877	342 574	143 846	402 457	2	2	5	2
		2003..	1 000 516	390 979	184 446	425 090	1 000 548	395 408	205 903	399 238	2	3	7	3
		2002..	999 091	385 473	213 865	399 753	950 741	355 164	201 276	394 301	X	X	X	X

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Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—										
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.											
		A	B	C	D	E	F	G	H	A	B	C	D							
327	Nonmetallic mineral product manufacturing—Con.																			
3273	Cement and concrete product manufacturing	2004..	3 702 892	1 719 949	333 396	1 649 546	3 390 805	1 565 119	350 458	1 475 228	1	2	2	2						
		2003..	3 544 044	1 644 080	363 202	1 536 762	3 523 213	1 657 939	375 324	1 489 951	1	2	2	2						
		2002..	3 488 519	1 645 398	372 259	1 470 862	3 303 410	1 549 921	350 513	1 402 976	X	X	X	X						
32731	Cement manufacturing	2004..	1 137 997	264 973	199 148	673 876	1 113 519	267 924	210 139	635 456	1	2	1	2						
		2003..	1 141 141	264 370	207 098	669 673	1 181 942	294 786	218 719	668 437	1	2	1	1						
		2002..	1 177 876	294 430	218 461	664 985	1 098 474	262 392	194 442	641 640	X	X	X	X						
327310	Cement manufacturing	2004..	1 137 997	264 973	199 148	673 876	1 113 519	267 924	210 139	635 456	1	2	1	2						
		2003..	1 141 141	264 370	207 098	669 673	1 181 942	294 786	218 719	668 437	1	2	1	1						
		2002..	1 177 876	294 430	218 461	664 985	1 098 474	262 392	194 442	641 640	X	X	X	X						
32732	Ready-mix concrete manufacturing	2004..	818 451	214 322	9 919	594 210	719 029	172 306	15 181	531 543	6	12	42	6						
		2003..	687 336	156 565	18 643	512 128	688 848	167 734	20 716	500 397	5	11	7	6						
		2002..	683 549	175 299	20 547	487 703	622 947	163 428	17 329	442 190	X	X	X	X						
327320	Ready-mix concrete manufacturing	2004..	818 451	214 322	9 919	594 210	719 029	172 306	15 181	531 543	6	12	42	6						
		2003..	687 336	156 565	18 643	512 128	688 848	167 734	20 716	500 397	5	11	7	6						
		2002..	683 549	175 299	20 547	487 703	622 947	163 428	17 329	442 190	X	X	X	X						
32733	Concrete pipe, brick, and block manufacturing	2004..	916 087	745 349	22 731	148 006	781 214	645 776	19 487	115 950	2	2	7	5						
		2003..	836 877	674 183	25 013	137 681	836 649	689 135	26 060	121 454	2	2	4	2						
		2002..	809 228	671 133	19 633	118 462	766 863	627 676	23 635	115 552	X	X	X	X						
32733M	Concrete pipe, brick, and block manufacturing	2004..	916 087	745 349	22 731	148 006	781 214	645 776	19 487	115 950	2	2	7	5						
		2003..	836 877	674 183	25 013	137 681	836 649	689 135	26 060	121 454	2	2	4	2						
		2002..	809 228	671 133	19 633	118 462	766 863	627 676	23 635	115 552	X	X	X	X						
32739	Other concrete product manufacturing	2004..	830 357	495 305	101 598	233 454	777 043	479 113	105 651	192 279	2	2	5	3						
		2003..	878 690	548 963	112 449	217 279	815 774	506 284	109 829	199 662	2	2	7	3						
		2002..	817 866	504 536	113 618	199 712	815 126	496 425	115 107	203 594	X	X	X	X						
327390	Other concrete product manufacturing	2004..	830 357	495 305	101 598	233 454	777 043	479 113	105 651	192 279	2	2	5	3						
		2003..	878 690	548 963	112 449	217 279	815 774	506 284	109 829	199 662	2	2	7	3						
		2002..	817 866	504 536	113 618	199 712	815 126	496 425	115 107	203 594	X	X	X	X						
3274	Lime and gypsum product manufacturing	2004..	332 094	99 103	9 538	223 453	295 405	92 294	12 124	190 988	1	1	1	1						
		2003..	297 105	93 291	12 340	191 474	309 017	98 173	12 919	197 925	1	2	4	2						
		2002..	315 610	96 608	14 889	204 113	321 217	95 516	15 242	210 459	X	X	X	X						
32741	Lime manufacturing	2004..	108 230	25 721	5 061	77 447	83 140	22 765	5 277	55 098	2	1	1	3						
		2003..	72 741	17 886	4 914	49 941	79 762	20 961	5 798	53 003	2	5	9	1						
		2002..	89 965	21 392	7 739	60 834	100 371	21 857	6 705	71 809	X	X	X	X						
327410	Lime manufacturing	2004..	108 230	25 721	5 061	77 447	83 140	22 765	5 277	55 098	2	1	1	3						
		2003..	72 741	17 886	4 914	49 941	79 762	20 961	5 798	53 003	2	5	9	1						
		2002..	89 965	21 392	7 739	60 834	100 371	21 857	6 705	71 809	X	X	X	X						
32742	Gypsum product manufacturing	2004..	223 865	73 382	4 477	146 006	212 264	69 529	6 847	135 889	1	1	3	1						
		2003..	224 364	75 405	7 426	141 533	229 255	77 212	7 121	144 922	2	2	2	2						
		2002..	225 645	75 216	7 150	143 279	220 846	73 659	8 537	138 650	X	X	X	X						
327420	Gypsum product manufacturing	2004..	223 865	73 382	4 477	146 006	212 264	69 529	6 847	135 889	1	1	3	1						
		2003..	224 364	75 405	7 426	141 533	229 255	77 212	7 121	144 922	2	2	2	2						
		2002..	225 645	75 216	7 150	143 279	220 846	73 659	8 537	138 650	X	X	X	X						
3279	Other nonmetallic mineral product manufacturing	2004..	1 592 411	675 131	291 052	626 228	1 541 286	666 881	300 989	573 415	2	3	2	3						
		2003..	1 596 658	687 485	298 893	610 279	1 657 760	715 892	315 897	625 971	1	2	2	2						
		2002..	1 621 714	691 925	319 066	610 723	1 575 889	648 485	302 635	624 769	X	X	X	X						
32791	Abrasive product manufacturing	2004..	535 051	183 720	191 933	159 398	500 262	156 035	207 477	136 750	2	4	3	3						
		2003..	508 945	152 296	211 113	145 537	556 592	168 068	222 560	165 964	2	4	1	2						
		2002..	551 712	166 741	221 958	163 013	535 368	161 722	204 200	169 446	X	X	X	X						
327910	Abrasive product manufacturing	2004..	535 051	183 720	191 933	159 398	500 262	156 035	207 477	136 750	2	4	3	3						
		2003..	508 945	152 296	211 113	145 537	556 592	168 068	222 560	165 964	2	4	1	2						
		2002..	551 712	166 741	221 958	163 013	535 368	161 722	204 200	169 446	X	X	X	X						
32799	All other nonmetallic mineral product manufacturing	2004..	1 057 359	491 411	99 119	466 829	1 041 024	510 847	93 512	436 665	3	4	3	4						
		2003..	1 087 713	535 189	87 781	464 743	1 101 168	547 824	93 338	460 006	2	2	5	2						
		2002..	1 070 002	525 184	97 108	447 710	1 040 521	486 763	98 435	455 323	X	X	X	X						
327991	Cut stone and stone product manufacturing	2004..	276 511	118 207	39 204	119 101	257 680	120 002	34 785	102 894	4	5	4	5						
		2003..	297 812	144 894	38 842	114 076	298 035	148 242	40 772	109 022	2	3	5	2						
		2002..	292 095	141 945	41 253	108 897	265 724	129 560	39 526	96 638	X	X	X	X						

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		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.											
		A	B	C	D	E	F	G	H	A	B	C	D							
327	Nonmetallic mineral product manufacturing—Con.																			
3279	Other nonmetallic mineral product manufacturing—Con.																			
32799	All other nonmetallic mineral product manufacturing—Con.																			
327992	Ground or treated mineral and earth manufacturing	2004.. 254 637	83 059	34 234	137 343	258 591	91 748	33 599	133 244	9	11	5	13							
		2003.. 281 471	106 078	27 324	148 069	260 813	100 569	23 911	136 333	2	3	5	3							
		2002.. 239 708	90 116	24 357	125 235	241 144	80 187	23 293	137 664	X	X	X	X							
327993	Mineral wool manufacturing	2004.. 359 011	199 446	17 835	141 731	368 318	221 100	18 009	129 209	6	9	2	4							
		2003.. 349 037	205 118	17 418	126 501	393 667	224 890	20 150	148 626	2	1	4	3							
		2002.. 389 766	222 327	20 132	147 307	389 233	205 933	22 427	160 873	X	X	X	X							
327999	All other miscellaneous nonmetallic mineral product manufacturing	2004.. 167 200	90 700	7 846	68 654	156 435	77 997	7 120	71 318	2	2	21	2							
		2003.. 159 392	79 099	4 196	76 097	148 653	74 122	8 505	66 026	8	7	79	10							
		2002.. 148 433	70 796	11 366	66 271	144 420	71 083	13 189	60 148	X	X	X	X							
331	Primary metal manufacturing	2004.. 24 409 983	7 744 178	7 418 195	9 247 610	18 621 291	6 473 892	5 964 973	6 182 426	1	1	1	1							
		2003.. 18 480 675	6 301 669	5 856 950	6 322 057	19 632 040	6 330 895	6 421 414	6 879 730	1	1	1	1							
		2002.. 19 597 067	6 301 126	6 420 362	6 875 579	19 701 790	6 410 204	6 456 899	6 834 687	X	X	X	X							
3311	Iron and steel mills and ferroalloy manufacturing	2004.. 10 410 783	3 347 275	2 968 725	4 094 784	7 406 048	2 764 976	2 246 895	2 394 177	1	3	1	3							
		2003.. 7 362 116	2 610 326	2 192 848	2 558 941	8 487 851	2 745 084	2 776 598	2 966 168	1	1	1	1							
		2002.. 8 313 823	2 709 107	2 695 470	2 909 246	8 180 750	2 789 063	2 677 816	2 713 871	X	X	X	X							
33111	Iron and steel mills and ferroalloy manufacturing	2004.. 10 410 783	3 347 275	2 968 725	4 094 784	7 406 048	2 764 976	2 246 895	2 394 177	1	3	1	3							
		2003.. 7 362 116	2 610 326	2 192 848	2 558 941	8 487 851	2 745 084	2 776 598	2 966 168	1	1	1	1							
		2002.. 8 313 823	2 709 107	2 695 470	2 909 246	8 180 750	2 789 063	2 677 816	2 713 871	X	X	X	X							
33111M	Iron and steel mills and ferroalloy manufacturing	2004.. 10 410 783	3 347 275	2 968 725	4 094 784	7 406 048	2 764 976	2 246 895	2 394 177	1	3	1	3							
		2003.. 7 362 116	2 610 326	2 192 848	2 558 941	8 487 851	2 745 084	2 776 598	2 966 168	1	1	1	1							
		2002.. 8 313 823	2 709 107	2 695 470	2 909 246	8 180 750	2 789 063	2 677 816	2 713 871	X	X	X	X							
3312	Steel product manufacturing from purchased steel	2004.. 3 790 004	1 283 017	643 371	1 863 616	2 480 834	953 923	549 328	977 583	1	2	1	2							
		2003.. 2 415 438	909 547	539 502	966 389	2 555 747	934 363	562 546	1 058 839	1	1	2	2							
		2002.. 2 636 614	951 127	605 329	1 080 158	2 455 349	932 307	611 102	911 940	X	X	X	X							
33121	Iron and steel pipe and tube manufacturing from purchased steel	2004.. 1 460 878	510 478	172 706	777 694	884 400	349 970	126 574	407 857	2	2	2	4							
		2003.. 928 747	372 822	132 882	423 043	1 000 109	369 076	147 345	483 689	2	2	2	3							
		2002.. 1 008 570	360 318	160 413	487 839	973 461	346 650	198 126	428 685	X	X	X	X							
331210	Iron and steel pipe and tube manufacturing from purchased steel	2004.. 1 460 878	510 478	172 706	777 694	884 400	349 970	126 574	407 857	2	2	2	4							
		2003.. 928 747	372 822	132 882	423 043	1 000 109	369 076	147 345	483 689	2	2	2	3							
		2002.. 1 008 570	360 318	160 413	487 839	973 461	346 650	198 126	428 685	X	X	X	X							
33122	Rolling and drawing of purchased steel	2004.. 2 329 126	772 539	470 665	1 085 922	1 596 434	603 953	422 754	569 727	2	2	2	2							
		2003.. 1 486 691	536 726	406 620	543 346	1 555 638	565 286	415 202	575 150	2	1	3	3							
		2002.. 1 628 044	590 809	444 916	592 319	1 481 888	585 657	412 976	483 255	X	X	X	X							
33122M	Rolling and drawing of purchased steel	2004.. 2 329 126	772 539	470 665	1 085 922	1 596 434	603 953	422 754	569 727	2	2	2	2							
		2003.. 1 486 691	536 726	406 620	543 346	1 555 638	565 286	415 202	575 150	2	1	3	3							
		2002.. 1 628 044	590 809	444 916	592 319	1 481 888	585 657	412 976	483 255	X	X	X	X							
3313	Alumina and aluminum production and processing	2004.. 3 487 256	850 701	1 366 417	1 270 139	3 033 020	797 963	1 145 559	1 089 497	1	1	1	1							
		2003.. 3 076 480	842 390	1 136 010	1 098 081	2 926 262	750 327	991 369	1 184 566	1	1	1	1							
		2002.. 2 961 488	768 363	995 881	1 197 244	3 127 485	738 479	951 969	1 437 037	X	X	X	X							
33131	Alumina and aluminum production and processing	2004.. 3 487 256	850 701	1 366 417	1 270 139	3 033 020	797 963	1 145 559	1 089 497	1	1	1	1							
		2003.. 3 076 480	842 390	1 136 010	1 098 081	2 926 262	750 327	991 369	1 184 566	1	1	1	1							
		2002.. 2 961 488	768 363	995 881	1 197 244	3 127 485	738 479	951 969	1 437 037	X	X	X	X							
331311	Alumina refining	2004.. 94 935	29 414	31 793	33 728	105 590	30 220	38 843	36 527	1	2	1	1							
		2003.. 101 071	26 254	38 498	36 318	102 238	25 534	33 988	42 716	3	13	1	1							
		2002.. 110 091	29 547	36 859	43 685	110 044	26 668	32 863	50 513	X	X	X	X							
331312	Primary aluminum production	2004.. 626 140	86 776	154 665	384 698	525 174	59 762	118 416	346 996	2	2	2	3							
		2003.. 539 559	61 157	121 540	356 862	556 790	53 809	149 349	353 632	1	1	1	1							
		2002.. 597 470	63 773	169 199	364 498	638 804	80 850	232 962	324 992	X	X	X	X							

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—																											
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.																												
		A	B	C	D	E	F	G	H	A	B	C	D																								
331	Primary metal manufacturing—Con.																																				
3313	Alumina and aluminum production and processing—Con.																																				
33131	Alumina and aluminum production and processing—Con.																																				
331314	Secondary smelting and alloying of aluminum.....	2004.. 345 903	164 181	18 036	163 686	273 093	139 307	19 536	114 249	4	3	2	5	2003.. 285 617	142 149	20 114	123 354	255 671	132 444	20 025	103 203	2	2	2	2	2002.. 247 891	130 265	18 119	99 507	275 542	138 279	30 807	106 456	X	X	X	X
331316	Aluminum extruded product manufacturing	2004.. 563 262	151 193	206 270	205 798	474 781	133 927	171 647	169 207	1	2	1	3	2003.. 474 102	135 788	174 278	164 036	501 467	125 204	173 909	202 355	3	3	2	6	2002.. 473 398	126 456	147 514	199 428	502 453	121 977	157 735	222 741	X	X	X	X
33131N	Aluminum rolling and drawing	2004.. 1 857 017	419 137	955 652	482 228	1 654 381	434 746	797 116	422 518	1	1	1	1	2003.. 1 676 131	477 042	781 579	417 510	1 510 096	413 337	614 099	482 660	1	1	1	1	2002.. 1 532 638	418 322	624 190	490 126	1 600 642	370 705	497 602	732 335	X	X	X	X
3314	Nonferrous metal (except aluminum) production and processing.....	2004.. 3 807 639	1 148 908	1 665 042	993 688	3 203 010	1 004 879	1 329 068	869 063	1	3	1	1	2003.. 3 138 575	1 003 312	1 261 583	873 680	3 127 574	901 916	1 364 246	861 412	2	3	5	1	2002.. 3 111 259	868 370	1 374 255	868 634	3 315 621	979 440	1 435 266	900 915	X	X	X	X
33141	Nonferrous metal (except aluminum) smelting and refining	2004.. 834 702	193 710	402 667	238 325	717 106	199 559	303 690	213 857	1	2	1	2	2003.. 681 346	167 224	307 992	206 129	653 072	111 209	340 837	201 027	1	4	1	2	2002.. 670 731	120 434	339 841	210 456	715 456	162 633	337 670	215 153	X	X	X	X
331411	Primary smelting and refining of copper	2004.. 349 486	31 376	290 397	27 713	255 395	29 508	196 146	29 741	1	1	1	1	2003.. 256 540	29 472	196 031	31 037	235 485	18 534	161 105	55 846	1	1	1	1	2002.. 232 903	18 534	161 105	53 264	305 234	29 175	206 263	69 796	X	X	X	X
331419	Primary smelting and refining of nonferrous metal (except copper and aluminum)	2004.. 485 216	162 334	112 270	210 612	461 711	170 051	107 544	184 116	1	2	1	2	2003.. 424 805	137 752	111 961	175 092	417 587	92 675	179 732	145 181	2	5	1	2	2002.. 437 828	101 900	178 736	157 192	410 222	133 458	131 407	145 357	X	X	X	X
33142	Copper rolling, drawing, extruding, and alloying ..	2004.. 1 404 000	517 829	583 612	302 559	1 081 268	397 395	417 613	266 260	1	1	1	3	2003.. 1 089 420	429 420	398 772	261 228	1 057 422	396 281	378 390	282 751	3	7	1	1	2002.. 1 014 343	359 116	380 901	274 326	1 069 529	397 137	372 727	299 665	X	X	X	X
33142M	Copper rolling, drawing, extruding, and alloying	2004.. 1 404 000	517 829	583 612	302 559	1 081 268	397 395	417 613	266 260	1	1	1	3	2003.. 1 089 420	429 420	398 772	261 228	1 057 422	396 281	378 390	282 751	3	7	1	1	2002.. 1 014 343	359 116	380 901	274 326	1 069 529	397 137	372 727	299 665	X	X	X	X
33149	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying ..	2004.. 1 568 936	437 369	678 764	452 804	1 404 636	407 925	607 765	388 946	2	8	1	2	2003.. 1 367 809	406 668	554 818	406 323	1 417 080	394 426	645 019	377 634	4	3	11	2	2002.. 1 426 185	388 820	653 513	383 852	1 530 636	419 670	724 869	386 097	X	X	X	X
33149M	Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying	2004.. 1 568 936	437 369	678 764	452 804	1 404 636	407 925	607 765	388 946	2	8	1	2	2003.. 1 367 809	406 668	554 818	406 323	1 417 080	394 426	645 019	377 634	4	3	11	2	2002.. 1 426 185	388 820	653 513	383 852	1 530 636	419 670	724 869	386 097	X	X	X	X
3315	Foundries	2004.. 2 914 301	1 114 277	774 639	1 025 384	2 498 380	952 151	694 123	852 106	1	1	2	3	2003.. 2 488 066	936 093	727 007	824 966	2 534 605	999 205	726 654	808 746	1	1	1	1	2002.. 2 573 883	1 004 159	749 427	820 297	2 622 585	970 915	780 746	870 924	X	X	X	X
33151	Ferrous metal foundries ..	2004.. 1 918 140	804 311	436 335	677 494	1 549 646	643 559	374 000	532 087	2	1	2	4	2003.. 1 527 048	645 493	375 679	505 876	1 569 035	694 561	381 252	493 221	1	1	2	1	2002.. 1 585 425	697 088	390 721	497 616	1 610 288	663 074	418 038	529 176	X	X	X	X
33151M	Ferrous metal foundries	2004.. 1 918 140	804 311	436 335	677 494	1 549 646	643 559	374 000	532 087	2	1	2	4	2003.. 1 527 048	645 493	375 679	505 876	1 569 035	694 561	381 252	493 221	1	1	2	1	2002.. 1 585 425	697 088	390 721	497 616	1 610 288	663 074	418 038	529 176	X	X	X	X
33152	Nonferrous metal foundries	2004.. 996 161	309 966	338 305	347 890	948 734	308 592	320 123	320 019	2	2	2	3	2003.. 961 018	290 600	351 328	319 090	965 571	304 644	345 402	315 525	2	2	2	2	2002.. 988 458	307 071	358 706	322 681	1 012 297	307 841	362 708	341 748	X	X	X	X
33152N	Aluminum foundries.....	2004.. 582 337	176 444	178 673	227 220	574 071	179 563	172 874	221 634	2	3	3	3	2003.. 573 666	170 541	187 658	215 468	591 561	191 530	213 105	213 105	2	3	4	3	2002.. 607 393	187 564	201 014	218 815	600 159	184 077	192 322	223 760	X	X	X	X

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—									
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.										
		A	B	C	D	E	F	G	H	A	B	C	D						
332	Fabricated metal product manufacturing—Con.																		
3324	Boiler, tank, and shipping container manufacturing	2 552 025	981 496	594 921	975 607	2 246 934	928 054	550 855	768 025	1	1	3	2						
	2004..	2 323 173	951 349	571 973	799 851	2 343 718	980 490	567 100	796 128	1	1	3	1						
	2003..	2 376 464	1 008 001	570 276	798 187	2 494 373	1 072 013	594 641	827 719	X	X	X	X						
33241	Power boiler and heat exchanger manufacturing	372 591	56 500	195 901	120 190	343 350	58 131	192 526	92 693	6	14	9	6						
	2004..	387 475	70 862	209 473	107 140	402 390	68 393	218 857	115 140	3	3	5	4						
	2003..	401 408	67 849	214 841	118 718	438 220	76 768	234 630	126 822	X	X	X	X						
332410	Power boiler and heat exchanger manufacturing	372 591	56 500	195 901	120 190	343 350	58 131	192 526	92 693	6	14	9	6						
	2004..	387 475	70 862	209 473	107 140	402 390	68 393	218 857	115 140	3	3	5	4						
	2003..	401 408	67 849	214 841	118 718	438 220	76 768	234 630	126 822	X	X	X	X						
33242	Metal tank (heavy gauge) manufacturing	717 441	157 833	241 877	317 732	570 312	140 106	188 527	241 678	2	2	3	3						
	2004..	589 996	144 000	189 962	256 033	560 796	134 533	179 568	246 695	3	7	7	1						
	2003..	566 189	143 540	181 582	241 067	606 881	155 172	190 308	261 401	X	X	X	X						
332420	Metal tank (heavy gauge) manufacturing	717 441	157 833	241 877	317 732	570 312	140 106	188 527	241 678	2	2	3	3						
	2004..	589 996	144 000	189 962	256 033	560 796	134 533	179 568	246 695	3	7	7	1						
	2003..	566 189	143 540	181 582	241 067	606 881	155 172	190 308	261 401	X	X	X	X						
33243	Metal can, box, and other metal container (light gauge) manufacturing	1 461 992	767 164	157 143	537 685	1 333 273	729 816	169 802	433 654	1	1	3	2						
	2004..	1 345 702	736 486	172 537	436 678	1 380 533	777 564	168 675	434 293	1	1	4	1						
	2003..	1 408 867	796 612	173 853	438 402	1 449 272	840 073	169 703	439 496	X	X	X	X						
33243M	Metal can, box, and other metal container (light gauge) manufacturing	1 461 992	767 164	157 143	537 685	1 333 273	729 816	169 802	433 654	1	1	3	2						
	2004..	1 345 702	736 486	172 537	436 678	1 380 533	777 564	168 675	434 293	1	1	4	1						
	2003..	1 408 867	796 612	173 853	438 402	1 449 272	840 073	169 703	439 496	X	X	X	X						
3325	Hardware manufacturing	1 108 601	412 278	276 249	420 075	1 017 570	362 437	274 144	380 989	2	2	4	2						
	2004..	1 050 789	362 726	292 677	395 385	1 143 556	415 210	309 957	418 388	2	2	1	5						
	2003..	1 137 820	410 925	311 042	415 853	1 163 633	396 515	330 418	436 700	X	X	X	X						
33251	Hardware manufacturing	1 108 601	412 278	276 249	420 075	1 017 570	362 437	274 144	380 989	2	2	4	2						
	2004..	1 050 789	362 726	292 677	395 385	1 143 556	415 210	309 957	418 388	2	2	1	5						
	2003..	1 137 820	410 925	311 042	415 853	1 163 633	396 515	330 418	436 700	X	X	X	X						
332510	Hardware manufacturing	1 108 601	412 278	276 249	420 075	1 017 570	362 437	274 144	380 989	2	2	4	2						
	2004..	1 050 789	362 726	292 677	395 385	1 143 556	415 210	309 957	418 388	2	2	1	5						
	2003..	1 137 820	410 925	311 042	415 853	1 163 633	396 515	330 418	436 700	X	X	X	X						
3326	Spring and wire product manufacturing	1 072 497	556 172	162 048	354 277	944 887	508 290	150 980	285 618	2	3	3	3						
	2004..	1 084 651	572 238	196 225	316 188	1 108 104	596 094	198 494	313 517	2	4	4	2						
	2003..	1 056 833	586 446	167 373	303 014	1 076 619	583 589	176 054	316 976	X	X	X	X						
33261	Spring and wire product manufacturing	1 072 497	556 172	162 048	354 277	944 887	508 290	150 980	285 618	2	3	3	3						
	2004..	1 084 651	572 238	196 225	316 188	1 108 104	596 094	198 494	313 517	2	4	4	2						
	2003..	1 056 833	586 446	167 373	303 014	1 076 619	583 589	176 054	316 976	X	X	X	X						
33261M	Spring and wire product manufacturing	1 072 497	556 172	162 048	354 277	944 887	508 290	150 980	285 618	2	3	3	3						
	2004..	1 084 651	572 238	196 225	316 188	1 108 104	596 094	198 494	313 517	2	4	4	2						
	2003..	1 056 833	586 446	167 373	303 014	1 076 619	583 589	176 054	316 976	X	X	X	X						
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing	5 794 574	2 166 717	2 237 984	1 389 873	5 818 337	2 044 227	2 381 832	1 392 279	2	3	2	2						
	2004..	5 334 218	1 928 699	2 164 380	1 241 139	5 213 250	1 838 524	2 103 688	1 271 038	2	3	2	2						
	2003..	5 122 475	1 778 492	2 073 424	1 270 559	5 070 267	1 742 067	2 086 727	1 241 473	X	X	X	X						
33271	Machine shops	3 304 866	1 000 972	1 521 453	782 442	3 705 613	1 031 327	1 768 245	906 041	2	5	3	3						
	2004..	3 092 209	859 042	1 504 699	728 469	2 985 151	783 580	1 460 929	740 641	3	6	3	2						
	2003..	2 909 329	737 164	1 425 742	746 423	2 859 812	721 716	1 420 454	717 642	X	X	X	X						
332710	Machine shops	3 304 866	1 000 972	1 521 453	782 442	3 705 613	1 031 327	1 768 245	906 041	2	5	3	3						
	2004..	3 092 209	859 042	1 504 699	728 469	2 985 151	783 580	1 460 929	740 641	3	6	3	2						
	2003..	2 909 329	737 164	1 425 742	746 423	2 859 812	721 716	1 420 454	717 642	X	X	X	X						
33272	Turned product and screw, nut, and bolt manufacturing	2 489 708	1 165 746	716 531	607 431	2 112 724	1 012 900	613 586	486 237	2	4	2	2						
	2004..	2 242 008	1 069 657	659 681	512 671	2 228 099	1 054 944	642 758	530 397	1	2	1	2						
	2003..	2 213 146	1 041 328	647 682	524 136	2 210 455	1 020 351	666 273	523 831	X	X	X	X						
332721	Precision turned product manufacturing	1 194 275	483 660	398 274	312 341	1 011 819	426 561	338 323	246 935	3	7	2	3						
	2004..	1 052 779	437 165	365 946	249 669	1 058 886	435 930	358 639	264 317	2	4	2	3						
	2003..	1 048 966	431 237	362 046	255 683	1 054 001	422 410	368 032	263 559	X	X	X	X						

See footnotes at end of table.

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NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—				
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.					
		A	B	C	D	E	F	G	H	A	B	C	D	
332	Fabricated metal product manufacturing—Con.													
3327	Machine shops; turned product; and screw, nut, and bolt manufacturing—Con.													
33272	Turned product and screw, nut, and bolt manufacturing—Con.													
332722	Bolt, nut, screw, rivet, and washer manufacturing	2004.. 1 295 433	682 085	318 257	295 090	1 100 905	586 339	275 264	239 302	3	4	4	3	
		2003.. 1 189 229	632 492	293 735	263 002	1 169 213	619 014	284 119	266 080	2	2	2	2	
		2002.. 1 164 180	610 091	285 636	268 453	1 156 454	597 941	298 241	260 272	X	X	X	X	
3328	Coating, engraving, heat treating, and allied activities	2004.. 1 761 359	696 511	326 777	738 071	1 492 952	613 750	247 083	632 120	1	2	2	1	
		2003.. 1 946 341	635 065	664 936	646 340	2 050 810	626 161	685 473	739 176	8	4	4	16	
		2002.. 1 730 265	635 552	354 348	740 365	1 643 433	630 026	292 532	720 875	X	X	X	X	
33281	Coating, engraving, heat treating, and allied activities	2004.. 1 761 359	696 511	326 777	738 071	1 492 952	613 750	247 083	632 120	1	2	2	1	
		2003.. 1 946 341	635 065	664 936	646 340	2 050 810	626 161	685 473	739 176	8	4	4	16	
		2002.. 1 730 265	635 552	354 348	740 365	1 643 433	630 026	292 532	720 875	X	X	X	X	
33281M	Coating, engraving, heat treating, and allied activities	2004.. 1 761 359	696 511	326 777	738 071	1 492 952	613 750	247 083	632 120	1	2	2	1	
		2003.. 1 946 341	635 065	664 936	646 340	2 050 810	626 161	685 473	739 176	8	4	4	16	
		2002.. 1 730 265	635 552	354 348	740 365	1 643 433	630 026	292 532	720 875	X	X	X	X	
3329	Other fabricated metal product manufacturing	2004.. 8 040 541	3 001 880	2 258 757	2 779 904	7 469 259	2 864 557	2 091 770	2 512 932	1	2	1	1	
		2003.. 7 949 957	3 269 139	2 088 489	2 592 328	8 126 466	3 316 114	2 212 872	2 597 480	1	1	2	1	
		2002.. 8 063 375	3 262 261	2 151 050	2 650 064	8 212 529	3 357 167	2 187 646	2 667 716	X	X	X	X	
33291	Metal valve manufacturing	2004.. 3 652 674	1 569 319	861 961	1 221 395	3 399 974	1 473 627	802 852	1 123 496	2	2	2	2	
		2003.. 3 801 257	1 803 916	815 344	1 181 997	3 830 264	1 754 338	878 661	1 197 265	2	3	3	2	
		2002.. 3 884 088	1 777 964	898 090	1 208 034	4 014 199	1 833 520	931 619	1 249 060	X	X	X	X	
332913	Plumbing fixture fitting and trim manufacturing	2004.. 426 206	167 149	101 085	157 972	340 069	123 744	85 286	131 039	10	19	6	8	
		2003.. 392 538	173 555	84 098	134 885	411 576	155 482	100 174	155 920	1	2	3	1	
		2002.. 427 637	167 137	100 919	159 581	434 274	185 425	111 208	137 641	X	X	X	X	
33291N	Valve and fitting (except plumbing) manufacturing	2004.. 3 226 468	1 402 169	760 876	1 063 423	3 059 905	1 349 883	717 566	992 457	1	1	2	2	
		2003.. 3 408 719	1 630 361	731 246	1 047 112	3 418 688	1 598 856	778 488	1 041 345	2	3	3	3	
		2002.. 3 456 451	1 610 827	797 171	1 048 453	3 579 925	1 648 095	820 411	1 111 419	X	X	X	X	
33299	All other fabricated metal product manufacturing	2004.. 4 387 867	1 432 561	1 396 796	1 558 509	4 069 285	1 390 930	1 288 919	1 389 436	1	2	2	2	
		2003.. 4 148 700	1 465 223	1 273 145	1 410 331	4 296 202	1 561 776	1 334 211	1 400 215	1	1	2	1	
		2002.. 4 179 287	1 484 297	1 252 960	1 442 030	4 198 330	1 523 647	1 256 027	1 418 656	X	X	X	X	
332991	Ball and roller bearing manufacturing	2004.. 847 763	295 906	284 586	267 271	749 933	274 390	240 517	235 025	2	4	3	3	
		2003.. 766 824	253 876	258 870	254 078	803 149	293 609	259 290	250 250	3	3	6	1	
		2002.. 807 333	298 283	261 978	247 072	855 097	322 099	272 969	260 029	X	X	X	X	
332992	Small arms ammunition manufacturing	2004.. 249 388	119 839	66 913	62 635	239 175	128 276	61 605	49 294	1	1	1	1	
		2003.. 243 961	130 513	62 718	50 730	247 092	131 595	63 559	51 938	1	1	1	2	
		2002.. 236 273	132 455	51 771	52 047	191 565	107 462	32 845	51 258	X	X	X	X	
332993	Ammunition (except small arms) manufacturing	2004.. 177 462	9 691	152 113	15 658	134 207	2 310	118 047	13 850	11	1	13	6	
		2003.. 108 845	2 371	94 364	12 110	83 555	1 670	67 293	14 592	3	7	3	4	
		2002.. 95 684	1 642	78 934	15 108	93 135	1 659	80 549	10 927	X	X	X	X	
332994	Small arms manufacturing	2004.. 503 108	181 556	135 514	186 038	488 156	163 455	135 348	189 353	2	4	2	5	
		2003.. 463 216	165 512	128 495	169 209	534 544	201 759	179 501	153 283	1	1	1	1	
		2002.. 446 362	132 887	123 549	189 926	412 831	148 161	120 105	144 565	X	X	X	X	
332995	Other ordnance and accessories manufacturing	2004.. 232 757	8 745	212 796	11 217	261 377	9 885	240 822	10 670	1	4	1	1	
		2003.. 247 218	7 836	227 253	12 128	226 230	6 780	206 781	12 669	1	12	1	1	
		2002.. 226 501	6 709	206 986	12 806	201 806	9 226	179 713	12 867	X	X	X	X	
332996	Fabricated pipe and pipe fitting manufacturing	2004.. 634 418	202 442	142 441	289 535	591 744	206 461	121 932	263 351	3	5	10	2	
		2003.. 595 290	223 914	105 198	266 178	652 085	222 360	139 716	290 009	3	4	13	4	
		2002.. 627 348	220 031	111 478	295 839	648 898	222 088	130 406	296 404	X	X	X	X	

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—									
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.										
		A	B	C	D	E	F	G	H	A	B	C	D						
332	Fabricated metal product manufacturing—Con.																		
3329	Other fabricated metal product manufacturing—Con.																		
33299	All other fabricated metal product manufacturing—Con.																		
33299N	Other fabricated metal products manufacturing	2004.. 1 742 972	614 383	402 433	726 156	1 604 694	606 153	370 648	627 894	2	4	2	3						
		2003.. 1 723 347	681 202	396 247	645 897	1 749 548	704 003	418 070	627 474	1	2	2	1						
		2002.. 1 739 786	692 290	418 264	629 232	1 794 998	712 952	439 440	642 606	X	X	X	X						
333	Machinery manufacturing	2004.. 39 913 857	13 889 928	11 362 106	14 661 824	37 464 558	12 963 861	10 965 879	13 534 818	1	1	1	1						
		2003.. 39 175 662	13 495 976	11 363 995	14 315 691	40 382 750	13 950 727	11 706 002	14 726 021	1	1	1	1						
		2002.. 40 952 627	13 935 386	11 970 636	15 046 605	41 952 249	14 248 101	12 938 633	14 765 515	X	X	X	X						
3331	Agriculture, construction, and mining machinery manufacturing	2004.. 8 813 630	4 019 663	2 053 461	2 740 506	7 839 135	3 768 024	1 667 264	2 403 847	1	1	2	1						
		2003.. 8 294 441	4 004 492	1 731 369	2 558 580	8 268 729	4 048 536	1 675 187	2 545 005	1	1	3	1						
		2002.. 8 373 748	4 052 649	1 713 408	2 607 691	8 850 483	4 290 854	1 854 670	2 704 959	X	X	X	X						
33311	Agricultural implement manufacturing	2004.. 3 332 442	1 749 923	560 560	1 021 959	3 011 010	1 567 844	519 926	923 240	1	1	5	2						
		2003.. 3 159 332	1 650 641	542 754	965 937	3 122 961	1 609 135	516 425	997 401	1	1	2	2						
		2002.. 3 103 549	1 572 891	520 294	1 010 364	3 228 753	1 673 144	545 085	1 010 524	X	X	X	X						
333111	Farm machinery and equipment manufacturing	2004.. 2 205 025	971 470	472 015	761 540	1 891 139	811 950	405 154	674 035	1	2	3	2						
		2003.. 2 045 494	892 610	421 461	731 423	2 136 296	954 295	402 572	779 429	2	2	3	3						
		2002.. 2 106 082	926 433	399 442	780 207	2 142 222	943 685	422 738	775 799	X	X	X	X						
333112	Lawn and garden tractor and home lawn and garden equipment manufacturing	2004.. 1 127 417	778 453	88 544	260 420	1 119 871	755 894	114 771	249 205	2	1	28	1						
		2003.. 1 113 838	758 031	121 293	234 514	986 665	654 840	113 853	217 972	1	1	3	1						
		2002.. 997 467	646 458	120 852	230 157	1 086 531	729 459	122 347	234 725	X	X	X	X						
33312	Construction machinery manufacturing	2004.. 3 323 064	1 055 501	985 657	1 281 906	2 754 556	1 025 482	677 516	1 051 559	1	2	1	2						
		2003.. 2 935 009	1 096 106	692 442	1 146 461	3 043 023	1 193 324	740 852	1 108 847	2	2	4	2						
		2002.. 3 135 973	1 239 198	760 771	1 136 004	3 429 880	1 381 349	898 052	1 150 479	X	X	X	X						
333120	Construction machinery manufacturing	2004.. 3 323 064	1 055 501	985 657	1 281 906	2 754 556	1 025 482	677 516	1 051 559	1	2	1	2						
		2003.. 2 935 009	1 096 106	692 442	1 146 461	3 043 023	1 193 324	740 852	1 108 847	2	2	4	2						
		2002.. 3 135 973	1 239 198	760 771	1 136 004	3 429 880	1 381 349	898 052	1 150 479	X	X	X	X						
33313	Mining and oil and gas field machinery manufacturing	2004.. 2 158 124	1 214 239	507 244	436 640	2 073 569	1 174 699	469 823	429 047	2	2	3	4						
		2003.. 2 200 100	1 257 745	496 173	446 182	2 102 745	1 246 077	417 910	438 757	4	4	8	3						
		2002.. 2 134 226	1 240 560	432 343	461 323	2 191 850	1 236 361	411 533	543 956	X	X	X	X						
33313M	Mining and oil and gas field machinery manufacturing	2004.. 2 158 124	1 214 239	507 244	436 640	2 073 569	1 174 699	469 823	429 047	2	2	3	4						
		2003.. 2 200 100	1 257 745	496 173	446 182	2 102 745	1 246 077	417 910	438 757	4	4	8	3						
		2002.. 2 134 226	1 240 560	432 343	461 323	2 191 850	1 236 361	411 533	543 956	X	X	X	X						
3332	Industrial machinery manufacturing	2004.. 6 253 709	1 748 452	1 779 700	2 725 557	5 886 327	1 611 442	1 719 158	2 555 727	1	3	2	2						
		2003.. 6 081 623	1 550 554	1 802 672	2 728 397	7 118 053	1 873 698	1 985 121	3 259 233	1	2	2	1						
		2002.. 7 293 341	1 923 023	2 031 408	3 338 910	6 783 132	1 828 683	2 030 028	2 924 421	X	X	X	X						
33321	Sawmill and woodworking machinery manufacturing	2004.. 169 725	44 276	37 942	87 507	176 392	53 625	38 208	84 559	4	5	10	8						
		2003.. 183 454	54 937	45 106	83 410	168 706	48 960	42 927	76 820	3	3	5	5						
		2002.. 169 396	47 261	42 736	79 399	196 183	60 014	53 958	82 211	X	X	X	X						
333210	Sawmill and woodworking machinery manufacturing	2004.. 169 725	44 276	37 942	87 507	176 392	53 625	38 208	84 559	4	5	10	8						
		2003.. 183 454	54 937	45 106	83 410	168 706	48 960	42 927	76 820	3	3	5	5						
		2002.. 169 396	47 261	42 736	79 399	196 183	60 014	53 958	82 211	X	X	X	X						
33322	Plastics and rubber industry machinery manufacturing	2004.. 561 247	170 442	201 239	189 567	583 379	189 438	194 719	199 223	3	4	5	3						
		2003.. 595 734	187 917	197 661	210 156	609 307	224 870	159 641	224 796	3	4	3	4						
		2002.. 619 901	229 695	162 933	227 273	735 731	246 376	207 757	281 598	X	X	X	X						
333220	Plastics and rubber industry machinery manufacturing	2004.. 561 247	170 442	201 239	189 567	583 379	189 438	194 719	199 223	3	4	5	3						
		2003.. 595 734	187 917	197 661	210 156	609 307	224 870	159 641	224 796	3	4	3	4						
		2002.. 619 901	229 695	162 933	227 273	735 731	246 376	207 757	281 598	X	X	X	X						

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NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—										
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.											
		A	B	C	D	E	F	G	H	A	B	C	D							
333	Machinery manufacturing—Con.																			
3332	Industrial machinery manufacturing—Con.																			
33329	Other industrial machinery manufacturing	2004.. 5 522 737	1 533 734	1 540 519	2 448 483	5 126 556	1 368 379	1 486 231	2 271 945	2	3	2	2							
		2003.. 5 302 435	1 307 700	1 559 905	2 434 831	6 340 039	1 599 868	1 782 553	2 957 617	1	2	2	2							
		2002.. 6 504 044	1 646 067	1 825 739	3 032 238	5 851 218	1 522 293	1 768 313	2 560 612	X	X	X	X							
333295	Semiconductor machinery manufacturing	2004.. 2 396 556	456 482	612 006	1 328 068	2 108 587	313 924	576 603	1 218 060	2	3	3	2							
		2003.. 2 277 393	338 594	641 002	1 297 797	3 207 792	562 328	857 409	1 788 055	2	4	1	2							
		2002.. 3 281 202	576 375	880 090	1 824 737	2 477 218	391 200	798 480	1 287 538	X	X	X	X							
33329N	Other machinery manufacturing	2004.. 3 126 180	1 077 252	928 513	1 120 416	3 017 969	1 054 455	909 628	1 053 885	2	4	3	4							
		2003.. 3 025 042	969 105	918 903	1 137 033	3 132 247	1 037 540	925 145	1 169 562	2	2	3	2							
		2002.. 3 222 842	1 069 692	945 649	1 207 501	3 374 000	1 131 093	969 833	1 273 074	X	X	X	X							
3333	Commercial and service industry machinery manufacturing	2004.. 2 939 900	873 301	696 488	1 370 112	2 860 813	832 116	683 474	1 345 223	1	2	2	2							
		2003.. 2 977 537	878 799	681 714	1 417 024	2 879 041	833 281	699 334	1 346 427	2	1	5	2							
		2002.. 2 974 186	848 127	695 678	1 430 381	3 006 481	819 995	680 108	1 506 378	X	X	X	X							
33331	Commercial and service industry machinery manufacturing	2004.. 2 939 900	873 301	696 488	1 370 112	2 860 813	832 116	683 474	1 345 223	1	2	2	2							
		2003.. 2 977 537	878 799	681 714	1 417 024	2 879 041	833 281	699 334	1 346 427	2	1	5	2							
		2002.. 2 974 186	848 127	695 678	1 430 381	3 006 481	819 995	680 108	1 506 378	X	X	X	X							
333313	Office machinery manufacturing	2004.. 303 475	101 953	75 509	126 014	335 667	100 775	78 467	156 425	4	11	1	1							
		2003.. 302 693	99 952	61 356	141 385	305 141	82 261	71 383	151 498	2	3	5	2							
		2002.. 282 478	69 594	69 076	143 808	299 489	70 353	87 197	141 939	X	X	X	X							
333314	Optical instrument and lens manufacturing ...	2004.. 556 391	135 480	197 013	223 897	469 067	99 594	179 560	189 913	3	6	6	4							
		2003.. 483 886	114 708	165 624	203 555	487 446	117 265	174 169	196 012	7	5	15	5							
		2002.. 503 232	118 193	176 592	208 447	486 571	109 849	171 871	204 851	X	X	X	X							
333315	Photographic and photocopying equipment manufacturing	2004.. 303 140	88 704	33 836	180 599	337 933	99 693	39 615	198 625	2	3	6	3							
		2003.. 333 143	86 810	40 498	205 835	287 572	78 859	49 475	159 238	4	6	2	5							
		2002.. 349 704	83 352	47 268	219 084	354 099	63 020	66 381	224 698	X	X	X	X							
33331N	All other commercial and service industry machinery manufacturing	2004.. 1 776 895	547 163	390 129	839 602	1 718 146	532 054	385 832	800 260	2	1	2	2							
		2003.. 1 857 815	577 329	414 236	866 250	1 798 881	554 895	404 307	839 679	2	2	6	2							
		2002.. 1 838 772	576 988	402 742	859 042	1 866 322	576 773	354 659	934 890	X	X	X	X							
3334	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing ...	2004.. 3 484 975	1 541 246	545 871	1 397 858	3 173 558	1 354 193	556 515	1 262 850	2	3	3	3							
		2003.. 3 380 047	1 454 884	591 221	1 333 941	3 279 475	1 365 606	535 699	1 378 170	1	3	2	1							
		2002.. 3 309 623	1 374 583	548 983	1 386 057	3 575 153	1 462 485	616 149	1 496 519	X	X	X	X							
33341	Ventilation, heating, air-conditioning, and commercial refrigeration equipment manufacturing	2004.. 3 484 975	1 541 246	545 871	1 397 858	3 173 558	1 354 193	556 515	1 262 850	2	3	3	3							
		2003.. 3 380 047	1 454 884	591 221	1 333 941	3 279 475	1 365 606	535 699	1 378 170	1	3	2	1							
		2002.. 3 309 623	1 374 583	548 983	1 386 057	3 575 153	1 462 485	616 149	1 496 519	X	X	X	X							
333414	Heating equipment (except warm air furnaces) manufacturing	2004.. 548 819	220 257	91 038	237 524	476 633	191 395	72 800	212 438	4	6	8	5							
		2003.. 534 952	235 053	78 387	221 512	539 872	226 056	79 241	234 575	5	9	6	3							
		2002.. 535 377	226 530	79 822	229 025	571 123	242 411	82 198	246 514	X	X	X	X							
333415	Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing	2004.. 2 473 932	1 194 933	379 142	899 857	2 254 398	1 070 028	387 711	796 659	2	4	3	4							
		2003.. 2 376 827	1 112 935	421 594	842 298	2 249 631	1 028 060	363 622	857 950	2	3	2	2							
		2002.. 2 302 012	1 033 547	369 038	899 427	2 497 214	1 094 978	432 110	970 126	X	X	X	X							
33341N	Ventilation equipment manufacturing	2004.. 462 224	126 056	75 691	260 476	442 527	92 770	96 004	253 753	2	2	6	2							
		2003.. 468 268	106 896	91 240	270 132	489 972	111 490	92 836	285 645	2	4	4	3							
		2002.. 472 234	114 506	100 123	257 605	506 816	125 096	101 841	279 879	X	X	X	X							

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NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—										
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.											
		A	B	C	D	E	F	G	H	A	B	C	D							
333	Machinery manufacturing—Con.																			
3335	Metalworking machinery manufacturing	2004..	4 053 781	1 295 805	1 921 344	836 632	3 894 551	1 255 472	1 857 525	781 554	1	2	2	2						
		2003..	4 042 519	1 264 477	1 924 298	853 744	4 249 037	1 347 844	2 017 299	883 894	1	2	2	1						
		2002..	4 354 536	1 375 646	2 072 927	905 963	4 609 880	1 432 913	2 225 301	951 666	X	X	X	X						
33351	Metalworking machinery manufacturing	2004..	4 053 781	1 295 805	1 921 344	836 632	3 894 551	1 255 472	1 857 525	781 554	1	2	2	2						
		2003..	4 042 519	1 264 477	1 924 298	853 744	4 249 037	1 347 844	2 017 299	883 894	1	2	2	1						
		2002..	4 354 536	1 375 646	2 072 927	905 963	4 609 880	1 432 913	2 225 301	951 666	X	X	X	X						
333511	Industrial mold manufacturing	2004..	517 811	101 052	318 862	97 897	540 459	122 782	325 833	91 844	2	5	3	5						
		2003..	529 299	90 922	344 554	93 823	586 453	114 894	368 829	102 731	5	24	3	4						
		2002..	597 442	115 775	378 202	103 465	622 726	129 426	382 671	110 629	X	X	X	X						
333512	Machine tool (metal cutting types) manufacturing	2004..	829 969	256 521	355 722	217 726	806 322	251 368	354 291	200 662	4	8	5	4						
		2003..	813 505	240 938	358 998	213 568	879 598	257 582	406 500	215 517	2	4	4	4						
		2002..	901 808	265 183	413 556	223 069	989 220	305 785	445 964	237 471	X	X	X	X						
333513	Machine tool (metal forming types) manufacturing	2004..	273 340	95 716	119 000	58 625	257 471	86 371	109 761	61 338	3	3	4	8						
		2003..	272 041	101 963	109 390	60 689	274 462	99 159	113 694	61 609	3	3	4	5						
		2002..	255 239	92 617	106 341	56 281	262 664	100 913	98 470	63 281	X	X	X	X						
333514	Special die and tool, die set, jig, and fixture manufacturing	2004..	963 811	254 109	554 235	155 466	962 144	234 351	583 931	143 862	2	3	2	7						
		2003..	991 516	242 055	574 935	174 525	999 107	247 810	572 881	178 416	4	8	6	3						
		2002..	1 015 703	256 821	577 302	181 580	1 022 506	235 457	611 702	175 347	X	X	X	X						
333515	Cutting tool and machine tool accessory manufacturing	2004..	863 801	481 792	192 862	189 147	811 191	457 003	176 915	177 273	2	2	5	3						
		2003..	847 017	481 952	188 050	177 015	904 288	519 512	198 058	186 717	1	1	2	2						
		2002..	941 578	531 801	208 044	201 733	1 001 002	552 802	221 570	226 630	X	X	X	X						
333516	Rolling mill machinery and equipment manufacturing	2004..	105 082	20 305	58 371	26 407	79 161	18 919	47 708	12 534	7	28	6	3						
		2003..	132 293	27 006	54 137	51 149	158 759	28 016	69 541	61 202	2	2	5	1						
		2002..	157 907	27 857	68 950	61 100	166 916	25 160	80 756	61 000	X	X	X	X						
333518	Other metalworking machinery manufacturing	2004..	499 966	86 310	322 292	91 365	437 804	84 678	259 086	94 039	5	8	6	10						
		2003..	456 848	79 641	294 234	82 974	446 370	80 872	287 796	77 702	4	7	5	4						
		2002..	484 859	85 592	320 532	78 735	544 846	83 370	384 168	77 308	X	X	X	X						
3336	Engine, turbine, and power transmission equipment manufacturing	2004..	4 148 607	1 142 444	1 366 710	1 639 453	4 197 782	1 118 840	1 293 806	1 785 136	1	2	1	1						
		2003..	4 329 287	1 194 154	1 301 923	1 833 210	4 541 589	1 280 966	1 482 109	1 778 513	1	1	1	1						
		2002..	4 560 169	1 246 724	1 505 898	1 807 547	4 855 728	1 162 959	2 255 587	1 437 182	X	X	X	X						
33361	Engine, turbine, and power transmission equipment manufacturing	2004..	4 148 607	1 142 444	1 366 710	1 639 453	4 197 782	1 118 840	1 293 806	1 785 136	1	2	1	1						
		2003..	4 329 287	1 194 154	1 301 923	1 833 210	4 541 589	1 280 966	1 482 109	1 778 513	1	1	1	1						
		2002..	4 560 169	1 246 724	1 505 898	1 807 547	4 855 728	1 162 959	2 255 587	1 437 182	X	X	X	X						
333611	Turbine and turbine generator set unit manufacturing	2004..	1 024 934	177 484	424 271	423 179	1 412 895	272 268	403 452	737 175	2	9	3	1						
		2003..	1 411 490	273 473	402 947	735 071	1 615 956	235 187	592 249	788 520	1	2	3	1						
		2002..	1 606 727	175 773	642 317	788 637	1 923 701	141 237	1 276 233	506 231	X	X	X	X						
333612	Speed changer, industrial high-speed drive, and gear manufacturing	2004..	416 501	151 771	119 013	145 717	385 767	139 363	110 143	136 262	3	4	3	5						
		2003..	431 034	174 942	114 936	141 156	418 305	156 173	121 775	140 357	1	1	2	2						
		2002..	439 606	166 482	129 207	143 917	456 761	176 050	133 491	147 220	X	X	X	X						
333613	Mechanical power transmission equipment manufacturing	2004..	517 514	271 190	135 409	110 915	524 456	271 099	148 052	105 305	1	2	1	3						
		2003..	533 972	273 208	144 180	116 584	519 374	286 018	130 245	103 111	3	4	7	7						
		2002..	541 657	285 553	145 536	110 568	576 412	301 456	150 885	124 071	X	X	X	X						
333618	Other engine equipment manufacturing	2004..	2 189 657	541 999	688 016	959 642	1 874 665	436 111	632 160	806 395	1	4	1	1						
		2003..	1 952 791	472 531	639 861	840 399	1 987 954	603 588	637 840	746 526	1	1	1	1						
		2002..	1 972 179	618 916	588 838	764 425	1 898 854	544 216	694 978	659 660	X	X	X	X						

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—									
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.										
		A	B	C	D	E	F	G	H	A	B	C	D						
333	Machinery manufacturing—Con.																		
3339	Other general purpose machinery manufacturing	2004.. 10 219 256	3 269 017	2 998 534	3 951 705	9 612 391	3 023 773	3 188 137	3 400 481	1	2	1	1						
		2003.. 10 070 209	3 148 616	3 330 798	3 590 794	10 046 827	3 200 796	3 311 253	3 534 778	2	1	3	4						
		2002.. 10 087 024	3 114 634	3 402 334	3 570 056	10 271 392	3 250 212	3 276 790	3 744 390	X	X	X	X						
33391	Pump and compressor manufacturing	2004.. 2 394 279	1 030 557	523 204	840 517	2 275 663	940 648	556 874	778 140	4	6	2	5						
		2003.. 2 532 762	963 103	629 851	939 808	2 355 790	953 485	637 728	764 577	9	3	16	14						
		2002.. 2 323 475	919 412	579 387	824 676	2 333 801	967 403	519 324	847 074	X	X	X	X						
333911	Pump and pumping equipment manufacturing	2004.. 1 319 660	568 174	247 008	504 478	1 254 913	539 182	239 851	475 880	2	2	4	2						
		2003.. 1 274 618	565 646	219 893	489 079	1 251 100	529 916	227 514	493 671	2	4	7	3						
		2002.. 1 224 856	506 640	220 817	497 399	1 264 473	547 300	208 897	508 276	X	X	X	X						
333912	Air and gas compressor manufacturing	2004.. 972 368	430 841	256 440	285 086	911 444	362 604	293 424	255 416	11	15	2	14						
		2003.. 1 130 511	351 854	384 640	394 018	970 918	378 590	383 207	209 120	21	5	25	34						
		2002.. 970 878	370 844	332 789	267 245	930 999	374 194	276 258	280 547	X	X	X	X						
333913	Measuring and dispensing pump manufacturing	2004.. 102 251	31 542	19 756	50 953	109 306	38 862	23 599	46 844	2	1	4	3						
		2003.. 127 632	45 603	25 318	56 711	133 772	44 979	27 007	61 786	1	2	1	1						
		2002.. 127 741	41 928	25 781	60 032	138 329	45 909	34 169	58 251	X	X	X	X						
33392	Material handling equipment manufacturing	2004.. 2 358 953	660 503	486 458	1 211 992	2 050 193	613 828	399 583	1 036 783	2	3	6	2						
		2003.. 2 097 300	662 413	384 967	1 049 920	2 246 826	707 187	437 981	1 101 658	2	3	3	2						
		2002.. 2 194 354	697 780	442 388	1 054 186	2 279 818	730 993	491 170	1 057 655	X	X	X	X						
33392M	Material handling equipment manufacturing	2004.. 2 358 953	660 503	486 458	1 211 992	2 050 193	613 828	399 583	1 036 783	2	3	6	2						
		2003.. 2 097 300	662 413	384 967	1 049 920	2 246 826	707 187	437 981	1 101 658	2	3	3	2						
		2002.. 2 194 354	697 780	442 388	1 054 186	2 279 818	730 993	491 170	1 057 655	X	X	X	X						
33399	All other general purpose machinery manufacturing	2004.. 5 466 024	1 577 956	1 988 871	1 899 196	5 286 535	1 469 296	2 231 680	1 585 558	1	1	1	1						
		2003.. 5 440 147	1 523 100	2 315 981	1 601 066	5 444 212	1 540 124	2 235 544	1 668 543	1	2	1	1						
		2002.. 5 569 195	1 497 442	2 380 559	1 691 194	5 657 773	1 551 816	2 266 296	1 839 661	X	X	X	X						
333991	Power-driven hand tool manufacturing	2004.. 370 801	204 457	57 541	108 803	364 145	194 267	59 611	110 267	2	4	5	1						
		2003.. 380 944	211 555	75 364	94 024	390 987	218 157	80 309	92 521	1	1	2	1						
		2002.. 363 751	199 811	73 742	90 198	373 661	209 550	73 889	90 222	X	X	X	X						
333993	Packaging machinery manufacturing	2004.. 717 679	231 247	255 523	230 908	713 981	214 184	245 462	254 335	3	3	4	4						
		2003.. 804 952	233 000	284 517	287 435	810 841	235 964	267 047	307 829	2	4	5	2						
		2002.. 803 546	238 273	264 130	301 143	843 491	247 609	275 495	320 387	X	X	X	X						
333994	Industrial process furnace and oven manufacturing	2004.. 227 027	38 320	88 331	100 376	220 958	40 773	82 448	97 737	5	12	6	5						
		2003.. 237 579	38 913	84 947	113 719	246 288	42 153	84 991	119 145	5	8	6	4						
		2002.. 253 615	44 925	88 331	120 359	295 228	47 981	95 035	152 212	X	X	X	X						
33399N	Fluid power equipment manufacturing	2004.. 1 271 133	390 559	392 333	488 241	1 114 954	361 778	326 474	426 702	2	2	4	2						
		2003.. 1 042 120	305 437	357 151	379 532	1 063 184	294 275	382 675	386 234	1	1	1	1						
		2002.. 1 054 544	288 302	382 061	384 181	1 082 507	266 602	429 767	386 138	X	X	X	X						
33399P	All other miscellaneous general purpose machinery manufacturing	2004.. 2 879 384	713 374	1 195 143	970 868	2 872 496	658 295	1 517 684	696 517	1	2	1	2						
		2003.. 2 974 554	734 195	1 514 002	726 356	2 932 911	749 575	1 420 522	762 814	1	4	2	2						
		2002.. 3 093 739	726 131	1 572 295	795 313	3 062 886	780 074	1 392 110	890 702	X	X	X	X						
334	Computer and electronic product manufacturing	2004.. 41 074 029	8 270 795	17 615 769	15 187 465	39 309 690	8 202 708	16 465 122	14 641 860	1	2	1	1						
		2003.. 42 496 954	8 902 082	17 883 496	15 711 376	43 131 823	9 198 401	16 841 106	17 092 316	1	1	1	1						
		2002.. 44 642 566	9 815 869	17 085 300	17 741 397	49 470 522	11 727 391	17 695 890	20 047 241	X	X	X	X						
3341	Computer and peripheral equipment manufacturing	2004.. 3 971 566	1 049 835	1 235 239	1 686 493	3 661 263	1 012 753	1 093 542	1 554 968	2	7	1	2						
		2003.. 4 442 192	1 144 588	1 220 228	2 077 377	4 854 391	1 051 319	1 489 840	2 313 232	1	2	1	1						
		2002.. 5 268 455	1 159 931	1 497 479	2 611 045	5 283 039	1 339 941	1 484 798	2 458 300	X	X	X	X						
33411	Computer and peripheral equipment manufacturing	2004.. 3 971 566	1 049 835	1 235 239	1 686 493	3 661 263	1 012 753	1 093 542	1 554 968	2	7	1	2						
		2003.. 4 442 192	1 144 588	1 220 228	2 077 377	4 854 391	1 051 319	1 489 840	2 313 232	1	2	1	1						
		2002.. 5 268 455	1 159 931	1 497 479	2 611 045	5 283 039	1 339 941	1 484 798	2 458 300	X	X	X	X						
334111	Electronic computer manufacturing	2004.. 1 193 367	172 184	267 842	753 340	1 111 582	210 025	206 242	695 315	1	1	1	1						
		2003.. 1 729 825	246 147	295 128	1 188 550	1 959 570	236 984	372 122	1 350 464	1	1	1	1						
		2002.. 1 961 676	235 807	373 929	1 351 940	1 818 757	352 896	442 926	1 022 935	X	X	X	X						

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NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—									
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.										
		A	B	C	D	E	F	G	H	A	B	C	D						
334	Computer and electronic product manufacturing—Con.																		
3341	Computer and peripheral equipment manufacturing—Con.																		
33411	Computer and peripheral equipment manufacturing—Con.																		
334112	Computer storage device manufacturing	2004.. 784 993	158 768	431 645	194 580	830 908	219 862	396 463	214 583	5	11	3	4						
		2003.. 1 004 145	323 381	449 439	231 325	1 077 428	276 362	573 773	227 293	1	2	1	3						
		2002.. 1 206 851	291 451	578 206	337 194	1 211 131	312 808	515 216	383 107	X	X	X	X						
334113	Computer terminal manufacturing	2004.. 30 032	11 298	5 493	13 240	32 447	10 470	8 444	13 533	7	29	13	7						
		2003.. 23 626	6 216	5 707	11 704	48 920	16 914	7 877	24 129	17	8	7	27						
		2002.. 48 779	17 473	7 776	23 530	60 914	16 819	12 774	31 321	X	X	X	X						
334119	Other computer peripheral equipment manufacturing	2004.. 1 963 175	707 584	530 257	725 333	1 686 327	572 396	482 393	631 538	4	11	1	4						
		2003.. 1 684 596	568 844	469 954	645 798	1 768 473	521 058	536 069	711 346	3	4	3	4						
		2002.. 2 051 149	615 200	537 568	898 381	2 192 237	657 418	513 882	1 020 937	X	X	X	X						
3342	Communications equipment manufacturing	2004.. 10 535 361	1 902 092	5 471 331	3 161 938	9 971 198	2 034 444	4 881 729	3 055 025	1	4	1	3						
		2003.. 10 542 850	2 298 045	5 128 193	3 116 613	10 825 249	2 451 062	4 800 395	3 573 792	1	2	1	3						
		2002.. 11 335 330	2 723 722	4 822 457	3 789 151	13 326 464	3 868 291	4 191 494	5 266 679	X	X	X	X						
33421	Telephone apparatus manufacturing	2004.. 2 323 732	875 570	372 884	1 075 278	2 475 717	953 911	407 509	1 114 297	3	4	4	3						
		2003.. 2 580 343	1 074 301	405 036	1 101 006	2 650 787	1 059 134	381 068	1 210 585	5	2	6	8						
		2002.. 3 267 205	1 347 186	452 653	1 467 366	5 558 219	1 963 478	827 660	2 767 081	X	X	X	X						
334210	Telephone apparatus manufacturing	2004.. 2 323 732	875 570	372 884	1 075 278	2 475 717	953 911	407 509	1 114 297	3	4	4	3						
		2003.. 2 580 343	1 074 301	405 036	1 101 006	2 650 787	1 059 134	381 068	1 210 585	5	2	6	8						
		2002.. 3 267 205	1 347 186	452 653	1 467 366	5 558 219	1 963 478	827 660	2 767 081	X	X	X	X						
33422	Radio and television broadcasting and wireless communications equipment manufacturing	2004.. 7 610 808	870 017	5 005 950	1 734 841	6 909 341	920 645	4 381 457	1 607 240	2	8	1	5						
		2003.. 7 292 630	1 017 120	4 629 607	1 645 902	7 383 736	1 140 089	4 317 225	1 926 422	1	3	1	2						
		2002.. 7 263 855	1 119 197	4 265 338	1 879 320	6 986 711	1 679 864	3 265 394	2 041 453	X	X	X	X						
334220	Radio and television broadcasting and wireless communications equipment manufacturing	2004.. 7 610 808	870 017	5 005 950	1 734 841	6 909 341	920 645	4 381 457	1 607 240	2	8	1	5						
		2003.. 7 292 630	1 017 120	4 629 607	1 645 902	7 383 736	1 140 089	4 317 225	1 926 422	1	3	1	2						
		2002.. 7 263 855	1 119 197	4 265 338	1 879 320	6 986 711	1 679 864	3 265 394	2 041 453	X	X	X	X						
33429	Other communications equipment manufacturing	2004.. 600 821	156 505	92 496	351 819	586 140	159 888	92 763	333 489	2	2	2	2						
		2003.. 669 877	206 623	93 550	369 704	790 727	251 840	102 102	436 785	2	2	9	4						
		2002.. 804 270	257 339	104 466	442 465	781 534	224 949	98 440	458 145	X	X	X	X						
334290	Other communications equipment manufacturing	2004.. 600 821	156 505	92 496	351 819	586 140	159 888	92 763	333 489	2	2	2	2						
		2003.. 669 877	206 623	93 550	369 704	790 727	251 840	102 102	436 785	2	2	9	4						
		2002.. 804 270	257 339	104 466	442 465	781 534	224 949	98 440	458 145	X	X	X	X						
3343	Audio and video equipment manufacturing	2004.. 815 904	269 722	163 607	382 576	708 031	233 937	112 579	361 515	3	3	6	4						
		2003.. 757 823	281 052	73 523	403 248	765 460	295 995	100 123	369 341	2	3	5	2						
		2002.. 788 089	302 580	102 920	382 589	800 570	298 798	82 029	419 743	X	X	X	X						
33431	Audio and video equipment manufacturing	2004.. 815 904	269 722	163 607	382 576	708 031	233 937	112 579	361 515	3	3	6	4						
		2003.. 757 823	281 052	73 523	403 248	765 460	295 995	100 123	369 341	2	3	5	2						
		2002.. 788 089	302 580	102 920	382 589	800 570	298 798	82 029	419 743	X	X	X	X						
334310	Audio and video equipment manufacturing	2004.. 815 904	269 722	163 607	382 576	708 031	233 937	112 579	361 515	3	3	6	4						
		2003.. 757 823	281 052	73 523	403 248	765 460	295 995	100 123	369 341	2	3	5	2						
		2002.. 788 089	302 580	102 920	382 589	800 570	298 798	82 029	419 743	X	X	X	X						
3344	Semiconductor and other electronic component manufacturing	2004.. 11 005 929	1 899 540	4 848 570	4 257 819	10 632 711	1 779 647	4 719 336	4 133 728	1	3	1	2						
		2003.. 11 766 405	2 173 833	5 109 569	4 483 003	12 144 981	2 302 130	4 886 779	4 956 073	1	1	1	1						
		2002.. 12 463 585	2 425 998	5 018 483	5 019 104	13 682 799	2 763 879	5 284 880	5 634 040	X	X	X	X						

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		A	B	C	D	E	F	G	H	A	B	C	D																								
334	Computer and electronic product manufacturing—Con.																																				
3344	Semiconductor and other electronic component manufacturing—Con.																																				
33441	Semiconductor and other electronic component manufacturing	2004.. 11 005 929	1 899 540	4 848 570	4 257 819	10 632 711	1 779 647	4 719 336	4 133 728	1	3	1	2	2003.. 11 766 405	2 173 833	5 109 569	4 483 003	12 144 981	2 302 130	4 886 779	4 956 073	1	1	1	1	2002.. 12 463 585	2 425 998	5 018 483	5 019 104	13 682 799	2 763 879	5 284 880	5 634 040	X	X	X	X
334411	Electron tube manufacturing	2004.. 215 173	49 689	85 025	80 459	228 289	72 193	89 023	67 073	2	1	1	4	2003.. 292 988	127 127	90 454	75 407	301 437	134 008	82 152	85 276	1	1	1	1	2002.. 305 517	134 050	87 303	84 164	353 207	158 923	88 988	105 296	X	X	X	X
334412	Bare printed circuit board manufacturing ...	2004.. 549 775	90 559	194 232	264 984	514 430	94 571	168 865	250 994	2	4	2	4	2003.. 520 867	105 261	135 901	279 705	540 726	102 542	154 779	283 405	3	4	14	4	2002.. 663 056	120 754	212 120	330 182	716 558	107 934	230 357	378 267	X	X	X	X
334413	Semiconductor and related device manufacturing	2004.. 5 009 399	848 645	3 352 748	808 007	4 817 391	789 281	3 309 453	718 657	3	6	2	7	2003.. 5 384 740	986 295	3 563 530	834 914	5 413 158	1 046 179	3 328 461	1 038 518	1	1	1	3	2002.. 5 519 170	1 106 545	3 362 753	1 049 872	5 585 645	1 176 174	3 401 600	1 007 871	X	X	X	X
334414	Electronic capacitor manufacturing	2004.. 309 421	60 354	63 956	185 111	307 245	59 649	59 470	188 126	4	6	5	4	2003.. 315 840	60 687	60 165	194 988	374 187	74 169	70 812	229 205	4	5	3	5	2002.. 403 525	83 703	84 066	235 756	524 117	141 599	93 051	289 467	X	X	X	X
334415	Electronic resistor manufacturing	2004.. 131 140	44 327	42 304	44 509	122 563	40 106	42 008	40 449	1	3	3	1	2003.. 127 645	41 937	43 682	42 025	141 317	51 899	44 724	44 694	1	2	2	1	2002.. 120 744	43 333	36 424	40 987	144 815	55 678	42 681	46 456	X	X	X	X
334416	Electronic coil, transformer, and other inductor manufacturing	2004.. 191 915	67 383	31 661	92 870	164 945	46 476	30 678	87 791	9	19	4	6	2003.. 169 009	49 709	32 814	86 486	166 676	49 278	31 033	86 365	2	3	1	2	2002.. 155 388	48 824	27 672	78 892	178 869	57 968	26 788	94 113	X	X	X	X
334417	Electronic connector manufacturing	2004.. 538 690	115 383	112 256	311 051	548 760	111 775	134 188	302 798	3	11	3	2	2003.. 551 762	135 840	135 183	280 739	607 011	148 896	146 015	312 100	1	1	2	2	2002.. 599 140	147 146	143 770	308 224	658 483	176 097	165 419	316 967	X	X	X	X
334418	Printed circuit assembly (electronic assembly) manufacturing	2004.. 2 671 557	332 985	624 084	1 714 487	2 606 503	315 068	563 294	1 728 142	2	3	2	2	2003.. 2 927 457	373 803	673 402	1 880 252	3 028 357	398 099	625 335	2 004 923	2	6	5	3	2002.. 3 054 339	421 947	622 616	2 009 776	3 716 914	529 865	751 160	2 435 889	X	X	X	X
334419	Other electronic component manufacturing	2004.. 1 388 859	290 215	342 303	756 341	1 322 584	250 529	322 356	749 698	2	4	3	2	2003.. 1 476 098	293 174	374 438	808 486	1 572 113	297 060	403 467	871 586	2	3	3	2	2002.. 1 642 706	319 696	441 759	881 251	1 804 191	359 641	484 836	959 714	X	X	X	X
3345	Navigational, measuring, electromedical, and control instruments manufacturing	2004.. 14 319 812	3 002 174	5 820 630	5 497 008	13 875 035	2 981 302	5 570 315	5 323 418	1	3	2	2	2003.. 14 586 610	2 919 045	6 279 963	5 387 602	14 139 429	3 007 814	5 491 869	5 639 745	1	1	1	1	2002.. 14 394 184	3 107 879	5 574 562	5 711 743	15 935 266	3 335 167	6 582 828	6 017 271	X	X	X	X
33451	Navigational, measuring, medical, and control instruments manufacturing	2004.. 14 319 812	3 002 174	5 820 630	5 497 008	13 875 035	2 981 302	5 570 315	5 323 418	1	3	2	2	2003.. 14 586 610	2 919 045	6 279 963	5 387 602	14 139 429	3 007 814	5 491 869	5 639 745	1	1	1	1	2002.. 14 394 184	3 107 879	5 574 562	5 711 743	15 935 266	3 335 167	6 582 828	6 017 271	X	X	X	X
334510	Electromedical and electrotherapeutic apparatus manufacturing	2004.. 1 801 502	654 715	325 382	821 404	2 040 144	690 415	371 181	978 548	2	1	3	4	2003.. 2 006 976	702 697	375 994	928 286	2 092 362	710 001	464 101	918 259	1	1	1	1	2002.. 2 127 223	723 309	481 051	922 863	2 213 941	806 892	494 000	913 049	X	X	X	X
334511	Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing	2004.. 5 140 830	346 544	3 987 258	807 027	4 738 042	325 930	3 698 304	713 808	2	8	2	5	2003.. 5 449 686	275 349	4 349 036	825 301	4 537 843	320 000	3 360 041	857 802	1	3	1	2	2002.. 4 674 658	368 985	3 428 565	877 108	5 774 929	430 430	4 284 896	1 059 603	X	X	X	X

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

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NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—																											
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.																												
		A	B	C	D	E	F	G	H	A	B	C	D																								
334	Computer and electronic product manufacturing—Con.																																				
3345	Navigational, measuring, electromedical, and control instruments manufacturing—Con.																																				
33451	Navigational, measuring, medical, and control instruments manufacturing—Con.																																				
334512	Automatic environmental control manufacturing for residential, commercial, and appliance use	2004.. 219 189	65 070	47 114	107 005	268 366	71 344	78 655	118 368	3	3	8	2	2003.. 281 663	72 278	80 798	128 587	295 661	76 334	112 630	2	1	5	1	2002.. 315 055	91 445	115 796	107 814	371 956	114 464	126 764	130 728	X	X	X	X	
334513	Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables	2004.. 1 062 955	251 073	186 586	625 296	1 048 435	249 203	181 522	617 710	3	3	4	4	2003.. 1 123 793	292 359	228 458	602 976	1 171 180	271 232	251 712	2	2	3	2	2002.. 1 143 440	253 553	215 112	674 775	1 193 309	276 849	264 783	651 677	X	X	X	X	
334514	Totalizing fluid meter and counting device manufacturing	2004.. 320 720	53 907	94 581	172 232	306 571	52 090	94 046	160 435	1	10	2	2	2003.. 263 192	35 574	89 530	138 087	338 162	64 800	101 924	9	45	8	11	2002.. 335 882	62 164	103 456	170 262	347 874	72 512	90 692	184 670	X	X	X	X	
334515	Instrument manufacturing for measuring and testing electricity and electrical signals	2004.. 2 395 906	465 221	454 326	1 476 359	2 344 344	502 805	476 712	1 364 828	4	1	2	6	2003.. 2 351 498	511 146	479 012	1 361 340	2 543 934	526 873	530 492	1 486 569	1	2	1	2	2002.. 2 463 986	514 893	522 635	1 426 458	2 661 158	620 208	630 628	1 410 322	X	X	X	X
334516	Analytical laboratory instrument manufacturing	2004.. 1 373 945	518 224	221 514	634 208	1 277 946	495 052	196 864	586 030	8	14	17	2	2003.. 1 195 857	404 331	165 264	626 262	1 155 372	392 154	147 716	615 502	2	4	4	3	2002.. 1 178 518	406 463	156 284	615 771	1 236 042	341 816	165 901	728 325	X	X	X	X
334517	Irradiation apparatus manufacturing	2004.. 729 856	239 766	148 394	341 695	669 778	231 322	142 180	296 277	3	2	3	5	2003.. 677 590	237 865	140 316	299 409	753 812	249 332	154 116	350 364	1	2	2	1	2002.. 820 723	245 881	179 857	394 985	724 880	201 497	150 078	373 305	X	X	X	X
334518	Watch, clock, and parts manufacturing	2004.. 93 129	42 190	25 452	25 487	87 345	38 366	26 642	22 337	4	2	23	6	2003.. 94 647	50 050	18 295	26 302	96 462	48 465	20 434	27 563	5	5	7	5	2002.. 110 172	58 744	21 696	29 732	98 981	43 209	29 217	26 555	X	X	X	X
334519	Other measuring and controlling device manufacturing	2004.. 1 181 781	365 464	330 022	486 295	1 094 063	324 776	304 210	465 076	2	2	3	2	2003.. 1 141 706	337 396	353 258	451 052	1 154 642	348 622	348 703	457 316	2	3	4	3	2002.. 1 224 527	382 442	350 110	491 975	1 312 196	427 290	345 869	539 037	X	X	X	X
3346	Manufacturing and reproducing magnetic and optical media	2004.. 425 457	147 433	76 392	201 632	461 452	160 625	87 621	213 206	2	2	2	3	2003.. 401 073	85 520	72 021	243 533	402 312	90 080	72 100	240 133	2	6	5	3	2002.. 392 923	95 759	69 399	227 765	442 384	121 315	69 861	251 208	X	X	X	X
33461	Manufacturing and reproducing magnetic and optical media	2004.. 425 457	147 433	76 392	201 632	461 452	160 625	87 621	213 206	2	2	2	3	2003.. 401 073	85 520	72 021	243 533	402 312	90 080	72 100	240 133	2	6	5	3	2002.. 392 923	95 759	69 399	227 765	442 384	121 315	69 861	251 208	X	X	X	X
334611	Software reproducing	2004.. 24 148	6 767	5 336	12 045	23 705	6 993	4 713	11 999	13	10	14	15	2003.. 24 579	8 037	4 192	12 350	24 250	7 180	5 168	11 902	8	16	17	13	2002.. 26 168	7 120	4 100	14 948	25 581	7 216	4 250	14 115	X	X	X	X
334612	Prerecorded compact disc (except software), tape, and record reproducing	2004.. 165 529	56 246	20 760	88 522	175 522	56 940	23 570	95 013	3	3	5	3	2003.. 194 249	55 001	28 358	110 890	182 467	50 096	27 724	104 648	4	8	5	4	2002.. 189 088	60 609	26 351	102 128	192 461	59 072	23 126	110 263	X	X	X	X
334613	Magnetic and optical recording media manufacturing	2004.. 235 780	84 420	50 296	101 064	262 224	96 693	59 337	106 194	3	2	2	5	2003.. 182 245	22 482	39 471	120 292	195 595	32 805	39 208	123 583	2	10	8	4	2002.. 177 667	28 030	38 948	110 689	224 342	55 027	42 485	126 830	X	X	X	X

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Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

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		A	B	C	D	E	F	G	H	A	B	C	D	
335	Electrical equipment, appliance, and component manufacturing	2004..	11 693 470	4 303 247	2 436 497	4 953 727	11 026 557	4 082 282	2 384 289	4 559 987	1	1	1	1
		2003..	11 323 661	4 246 625	2 415 527	4 661 509	11 713 603	4 329 376	2 533 049	4 851 178	1	1	1	1
		2002..	12 099 658	4 446 030	2 701 531	4 952 097	12 615 348	4 612 309	2 898 977	5 104 062	X	X	X	X
3351	Electric lighting equipment manufacturing	2004..	1 419 011	528 062	229 192	661 757	1 392 665	523 230	219 630	649 805	2	3	2	3
		2003..	1 355 349	511 476	210 454	633 419	1 421 073	523 873	216 956	680 244	3	4	6	3
		2002..	1 461 957	536 931	229 981	695 045	1 492 786	525 330	225 135	742 321	X	X	X	X
33511	Electric lamp bulb and parts manufacturing	2004..	221 017	96 132	31 901	92 984	212 167	94 604	30 306	87 257	3	2	5	6
		2003..	214 077	99 585	32 330	82 162	215 061	93 467	27 841	93 753	1	3	4	5
		2002..	213 569	92 439	27 634	93 496	195 019	80 720	24 300	89 999	X	X	X	X
335110	Electric lamp bulb and parts manufacturing	2004..	221 017	96 132	31 901	92 984	212 167	94 604	30 306	87 257	3	2	5	6
		2003..	214 077	99 585	32 330	82 162	215 061	93 467	27 841	93 753	1	3	4	5
		2002..	213 569	92 439	27 634	93 496	195 019	80 720	24 300	89 999	X	X	X	X
33512	Lighting fixture manufacturing	2004..	1 197 994	431 929	197 291	568 774	1 180 498	428 626	189 325	562 548	2	4	3	3
		2003..	1 141 272	411 891	178 125	551 257	1 206 012	430 406	189 115	586 491	3	4	7	3
		2002..	1 248 388	444 492	202 347	601 549	1 297 767	444 610	200 835	652 322	X	X	X	X
33512M	Lighting fixture manufacturing	2004..	1 197 994	431 929	197 291	568 774	1 180 498	428 626	189 325	562 548	2	4	3	3
		2003..	1 141 272	411 891	178 125	551 257	1 206 012	430 406	189 115	586 491	3	4	7	3
		2002..	1 248 388	444 492	202 347	601 549	1 297 767	444 610	200 835	652 322	X	X	X	X
3352	Household appliance manufacturing	2004..	1 682 964	881 268	196 811	604 885	1 601 142	891 202	187 373	522 567	1	1	2	2
		2003..	1 703 574	958 857	202 802	541 915	1 754 377	992 628	214 607	547 141	1	1	1	1
		2002..	1 793 199	1 011 626	220 576	560 997	1 827 885	1 051 214	212 072	564 599	X	X	X	X
33521	Small electrical appliance manufacturing	2004..	461 527	273 928	66 891	120 708	450 386	270 396	77 310	102 680	1	1	1	1
		2003..	516 712	311 712	88 480	116 520	514 404	301 596	87 721	125 087	1	1	1	1
		2002..	543 995	315 334	93 300	135 361	522 729	292 742	80 582	149 405	X	X	X	X
33521M	Small electrical appliance manufacturing	2004..	461 527	273 928	66 891	120 708	450 386	270 396	77 310	102 680	1	1	1	1
		2003..	516 712	311 712	88 480	116 520	514 404	301 596	87 721	125 087	1	1	1	1
		2002..	543 995	315 334	93 300	135 361	522 729	292 742	80 582	149 405	X	X	X	X
33522	Major appliance manufacturing	2004..	1 221 437	607 340	129 920	484 177	1 150 756	620 806	110 063	419 887	1	1	4	2
		2003..	1 186 863	647 145	114 323	425 395	1 239 972	691 032	126 886	422 054	1	1	2	1
		2002..	1 249 204	696 292	127 276	425 636	1 305 156	758 472	131 490	415 194	X	X	X	X
335221	Household cooking appliance manufacturing	2004..	405 209	175 472	48 488	181 249	365 880	167 046	34 491	164 344	1	2	6	1
		2003..	390 220	187 514	33 132	169 573	427 276	227 392	40 195	159 689	2	2	5	2
		2002..	431 456	231 934	40 035	159 487	405 929	216 610	39 261	150 058	X	X	X	X
335222	Household refrigerator and home freezer manufacturing	2004..	335 027	195 304	19 862	119 861	303 578	188 422	20 685	94 471	4	3	1	5
		2003..	308 749	188 833	21 424	98 492	348 404	211 630	21 555	115 219	1	2	1	1
		2002..	352 034	211 606	21 839	118 589	404 562	250 446	27 842	126 274	X	X	X	X
335224	Household laundry equipment manufacturing	2004..	192 508	95 928	29 743	66 837	210 180	130 758	24 874	54 548	1	1	1	1
		2003..	210 413	126 624	26 288	57 501	231 457	136 277	29 173	66 007	1	1	1	1
		2002..	231 746	136 452	29 239	66 055	261 786	164 142	35 487	62 157	X	X	X	X
335228	Other major household appliance manufacturing	2004..	288 694	140 636	31 827	116 231	271 118	134 580	30 013	106 524	2	2	12	7
		2003..	277 481	144 174	33 478	99 829	232 836	115 733	35 963	81 139	1	2	3	3
		2002..	233 968	116 300	36 163	81 505	232 879	127 274	28 900	76 705	X	X	X	X
3353	Electrical equipment manufacturing	2004..	3 808 837	1 041 521	1 012 547	1 754 769	3 653 716	1 038 371	980 825	1 634 520	1	2	3	2
		2003..	3 717 715	1 042 003	960 966	1 714 747	3 751 991	998 767	957 155	1 796 068	1	2	3	1
		2002..	3 883 026	1 031 527	1 045 458	1 806 041	4 154 880	1 119 999	1 138 089	1 896 792	X	X	X	X
33531	Electrical equipment manufacturing	2004..	3 808 837	1 041 521	1 012 547	1 754 769	3 653 716	1 038 371	980 825	1 634 520	1	2	3	2
		2003..	3 717 715	1 042 003	960 966	1 714 747	3 751 991	998 767	957 155	1 796 068	1	2	3	1
		2002..	3 883 026	1 031 527	1 045 458	1 806 041	4 154 880	1 119 999	1 138 089	1 896 792	X	X	X	X
335311	Power, distribution, and specialty transformer manufacturing	2004..	422 772	134 715	109 909	178 148	449 523	146 631	120 816	182 076	5	4	6	8
		2003..	501 655	160 676	128 042	212 937	521 173	165 654	121 774	233 745	1	1	2	2
		2002..	511 955	168 370	114 137	229 448	551 381	187 118	127 657	236 606	X	X	X	X
335312	Motor and generator manufacturing	2004..	1 362 805	444 121	346 917	571 767	1 187 077	410 532	282 277	494 268	2	5	3	1
		2003..	1 231 914	424 576	320 760	486 578	1 211 083	408 914	306 565	495 603	2	4	7	2
		2002..	1 244 568	416 048	320 362	508 158	1 341 757	454 037	349 816	537 904	X	X	X	X

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		A	B	C	D	E	F	G	H	A	B	C	D	
335	Electrical equipment, appliance, and component manufacturing—Con.													
3353	Electrical equipment manufacturing—Con.													
33531	Electrical equipment manufacturing—Con.													
335313	Switchgear and switchboard apparatus manufacturing	2004.. 853 166	223 783	210 142	419 241	829 877	211 946	231 410	386 521	2	1	10	4	
		2003.. 838 047	201 890	226 172	409 985	845 017	181 911	230 424	432 682	2	1	3	2	
		2002.. 867 875	185 958	240 786	441 131	927 768	200 716	261 698	465 354	X	X	X	X	
335314	Relay and industrial control manufacturing	2004.. 1 170 094	238 902	345 579	585 614	1 187 239	269 263	346 321	571 655	2	2	4	3	
		2003.. 1 146 099	254 860	285 992	605 246	1 174 719	242 288	298 392	634 039	2	3	4	2	
		2002.. 1 258 628	261 151	370 173	627 304	1 333 974	278 128	398 918	656 928	X	X	X	X	
3359	Other electrical equipment and component manufacturing	2004.. 4 782 658	1 852 397	997 947	1 932 315	4 379 034	1 629 479	996 461	1 753 095	1	1	2	1	
		2003.. 4 547 023	1 734 290	1 041 304	1 771 429	4 786 163	1 814 107	1 144 331	1 827 725	1	1	1	2	
		2002.. 4 961 476	1 865 946	1 205 516	1 890 014	5 139 797	1 915 766	1 323 681	1 900 350	X	X	X	X	
33591	Battery manufacturing	2004.. 459 738	137 533	157 467	164 737	484 342	156 581	161 348	166 413	4	1	11	5	
		2003.. 525 538	170 579	179 993	174 966	540 666	159 688	219 684	161 294	2	2	2	4	
		2002.. 534 178	156 407	217 949	159 822	576 853	171 455	228 288	177 110	X	X	X	X	
335911	Storage battery manufacturing	2004.. 280 203	118 169	81 790	80 245	295 727	138 504	74 218	83 004	6	1	21	1	
		2003.. 337 441	144 773	96 523	96 145	351 471	146 142	109 300	96 029	2	3	3	3	
		2002.. 344 918	142 858	107 524	94 536	384 807	162 307	112 360	110 140	X	X	X	X	
335912	Primary battery manufacturing	2004.. 179 535	19 365	75 677	84 492	188 615	18 076	87 130	83 409	5	8	5	9	
		2003.. 188 097	25 806	83 469	78 821	189 195	13 546	110 384	65 265	6	5	3	8	
		2002.. 189 260	13 549	110 425	65 286	192 046	9 148	115 928	66 970	X	X	X	X	
33592	Communication and energy wire and cable manufacturing	2004.. 1 362 002	726 737	249 297	385 968	1 152 307	555 232	242 548	354 527	1	1	3	3	
		2003.. 1 211 682	593 160	263 527	354 995	1 301 921	661 320	271 710	368 891	3	2	2	8	
		2002.. 1 441 667	726 293	297 639	417 735	1 567 868	737 731	376 263	453 874	X	X	X	X	
33592M	Communication and energy wire and cable manufacturing	2004.. 1 362 002	726 737	249 297	385 968	1 152 307	555 232	242 548	354 527	1	1	3	3	
		2003.. 1 211 682	593 160	263 527	354 995	1 301 921	661 320	271 710	368 891	3	2	2	8	
		2002.. 1 441 667	726 293	297 639	417 735	1 567 868	737 731	376 263	453 874	X	X	X	X	
33593	Wiring device manufacturing	2004.. 1 222 237	490 119	202 450	529 667	1 045 037	428 737	190 985	425 314	1	1	2	1	
		2003.. 1 040 544	441 010	186 980	412 554	1 148 436	464 196	214 293	469 947	1	2	1	1	
		2002.. 1 138 066	450 392	215 955	471 719	1 161 469	461 486	236 004	463 979	X	X	X	X	
33593M	Wiring device manufacturing	2004.. 1 222 237	490 119	202 450	529 667	1 045 037	428 737	190 985	425 314	1	1	2	1	
		2003.. 1 040 544	441 010	186 980	412 554	1 148 436	464 196	214 293	469 947	1	2	1	1	
		2002.. 1 138 066	450 392	215 955	471 719	1 161 469	461 486	236 004	463 979	X	X	X	X	
33599	All other electrical equipment and component manufacturing	2004.. 1 738 681	498 007	388 732	851 942	1 697 349	488 929	401 579	806 841	1	1	2	2	
		2003.. 1 769 259	529 541	410 805	828 913	1 795 141	528 904	438 644	827 593	2	3	2	2	
		2002.. 1 847 565	532 854	473 973	840 738	1 833 607	545 094	483 126	805 387	X	X	X	X	
335991	Carbon and graphite product manufacturing	2004.. 341 016	113 748	124 121	103 147	340 825	109 656	134 673	96 496	1	3	2	2	
		2003.. 333 104	112 044	126 271	94 788	382 678	124 888	159 378	98 412	3	6	1	5	
		2002.. 404 869	132 476	165 171	107 222	431 040	134 054	175 305	121 681	X	X	X	X	
335999	All other miscellaneous electrical equipment and component manufacturing	2004.. 1 397 665	384 260	264 611	748 795	1 356 523	379 273	266 906	710 344	1	1	2	2	
		2003.. 1 436 156	417 497	284 534	734 125	1 412 462	404 016	279 266	729 180	2	4	2	2	
		2002.. 1 442 696	400 378	308 802	733 516	1 402 567	411 040	307 821	683 706	X	X	X	X	
336	Transportation equipment manufacturing	2004.. 59 487 234	11 304 155	31 110 296	17 072 783	59 490 490	10 336 758	34 028 527	15 125 205	1	1	1	1	
		2003.. 59 722 361	10 457 333	33 850 260	15 414 767	61 222 483	11 025 971	34 471 525	15 724 987	1	1	1	1	
		2002.. 61 198 028	11 001 091	34 369 928	15 827 009	62 062 415	11 517 108	34 107 879	16 437 428	X	X	X	X	
3361	Motor vehicle manufacturing	2004.. 5 367 436	699 282	1 732 527	2 935 627	4 913 207	550 554	1 595 639	2 767 014	1	1	2	1	
		2003.. 4 838 410	545 934	1 590 563	2 701 913	4 579 715	439 311	1 464 955	2 675 450	1	1	1	1	
		2002.. 4 589 644	452 929	1 438 987	2 697 728	4 385 931	423 140	1 553 952	2 408 839	X	X	X	X	

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		A	B	C	D	E	F	G	H	A	B	C	D						
336	Transportation equipment manufacturing—Con.																		
3361	Motor vehicle manufacturing—Con.																		
33611	Automobile and light duty motor vehicle manufacturing	2004.. 4 194 992	488 225	1 417 728	2 289 039	3 960 350	392 275	1 293 602	2 274 473	1	1	2	1						
		2003.. 3 851 993	359 090	1 281 995	2 210 907	3 700 142	302 832	1 201 508	2 195 801	1	1	1	1						
		2002.. 3 668 628	314 848	1 156 957	2 196 823	3 530 764	250 538	1 270 793	2 009 433	X	X	X	X						
336111	Automobile manufacturing	2004.. 1 807 628	149 620	462 494	1 195 514	1 656 860	104 437	369 858	1 182 565	2	1	6	1						
		2003.. 1 705 939	108 683	395 120	1 202 135	1 668 752	84 015	373 970	1 210 766	1	1	1	1						
		2002.. 1 581 314	79 461	393 019	1 108 834	1 625 359	68 884	379 031	1 177 444	X	X	X	X						
336112	Light truck and utility vehicle manufacturing	2004.. 2 387 364	338 605	955 234	1 093 525	2 303 490	287 838	923 744	1 091 908	1	1	1	1						
		2003.. 2 146 054	250 407	886 875	1 008 772	2 031 390	218 817	827 538	985 035	1	1	1	1						
		2002.. 2 087 314	235 387	763 938	1 087 989	1 905 405	181 654	891 762	831 989	X	X	X	X						
33612	Heavy duty truck manufacturing	2004.. 1 172 445	211 057	314 800	646 588	952 857	158 279	302 037	492 541	1	4	3	2						
		2003.. 986 417	186 843	308 568	491 005	879 573	136 478	263 446	479 648	1	1	1	1						
		2002.. 921 016	138 081	282 030	500 905	855 167	172 602	283 159	399 406	X	X	X	X						
336120	Heavy duty truck manufacturing	2004.. 1 172 445	211 057	314 800	646 588	952 857	158 279	302 037	492 541	1	4	3	2						
		2003.. 986 417	186 843	308 568	491 005	879 573	136 478	263 446	479 648	1	1	1	1						
		2002.. 921 016	138 081	282 030	500 905	855 167	172 602	283 159	399 406	X	X	X	X						
3362	Motor vehicle body and trailer manufacturing	2004.. 3 466 110	966 917	855 090	1 644 103	2 969 407	827 683	748 839	1 392 884	1	2	3	2						
		2003.. 3 073 468	866 555	814 349	1 392 565	3 056 757	897 525	753 371	1 405 861	2	2	3	2						
		2002.. 3 138 782	909 005	773 442	1 456 335	2 947 573	918 314	705 668	1 323 591	X	X	X	X						
33621	Motor vehicle body and trailer manufacturing	2004.. 3 466 110	966 917	855 090	1 644 103	2 969 407	827 683	748 839	1 392 884	1	2	3	2						
		2003.. 3 073 468	866 555	814 349	1 392 565	3 056 757	897 525	753 371	1 405 861	2	2	3	2						
		2002.. 3 138 782	909 005	773 442	1 456 335	2 947 573	918 314	705 668	1 323 591	X	X	X	X						
336211	Motor vehicle body manufacturing	2004.. 1 219 822	321 482	383 581	514 759	1 144 697	299 507	376 364	468 827	3	3	6	3						
		2003.. 1 241 218	331 385	429 372	480 460	1 246 245	313 803	410 769	521 672	3	1	4	4						
		2002.. 1 230 958	305 371	406 377	519 210	1 189 995	345 820	363 688	480 487	X	X	X	X						
336212	Truck trailer manufacturing	2004.. 627 581	115 867	159 669	352 045	544 533	147 420	122 263	274 850	3	10	4	5						
		2003.. 527 662	132 129	118 100	277 432	544 415	137 303	118 311	288 801	6	6	7	8						
		2002.. 595 821	150 065	121 415	324 341	593 979	162 161	105 972	325 846	X	X	X	X						
336213	Motor home manufacturing	2004.. 867 500	250 131	227 120	390 250	675 034	152 028	180 712	342 294	2	4	1	2						
		2003.. 702 134	183 586	194 819	323 729	667 319	208 461	153 803	305 055	3	5	7	1						
		2002.. 698 973	209 551	175 566	313 856	622 559	194 911	167 691	259 957	X	X	X	X						
336214	Travel trailer and camper manufacturing	2004.. 751 206	279 437	84 720	387 049	605 141	228 729	69 499	306 913	2	2	4	2						
		2003.. 602 455	219 454	72 057	310 943	598 777	237 957	70 487	290 332	3	5	4	3						
		2002.. 613 030	244 018	70 084	298 928	541 040	215 422	68 317	257 301	X	X	X	X						
3363	Motor vehicle parts manufacturing	2004.. 13 003 528	3 693 262	3 062 515	6 247 751	12 803 595	3 663 523	3 325 756	5 814 316	1	1	1	1						
		2003.. 13 303 042	3 817 598	3 463 757	6 021 687	13 036 127	3 832 379	3 365 799	5 837 949	1	1	1	1						
		2002.. 13 160 761	3 849 520	3 375 574	5 935 667	12 533 941	3 729 528	3 089 869	5 714 544	X	X	X	X						
33631	Motor vehicle gasoline engine and engine parts manufacturing	2004.. 2 478 535	429 098	560 900	1 488 538	2 408 967	429 983	689 986	1 288 999	2	5	3	2						
		2003.. 2 446 783	451 891	686 698	1 308 194	2 230 673	490 554	689 229	1 050 890	1	3	1	1						
		2002.. 2 213 968	490 507	682 776	1 040 685	2 043 300	469 085	599 033	975 182	X	X	X	X						
33631M	Motor vehicle gasoline engine and engine parts manufacturing	2004.. 2 478 535	429 098	560 900	1 488 538	2 408 967	429 983	689 986	1 288 999	2	5	3	2						
		2003.. 2 446 783	451 891	686 698	1 308 194	2 230 673	490 554	689 229	1 050 890	1	3	1	1						
		2002.. 2 213 968	490 507	682 776	1 040 685	2 043 300	469 085	599 033	975 182	X	X	X	X						
33632	Motor vehicle electrical and electronic equipment manufacturing	2004.. 2 028 309	748 716	402 740	876 853	1 991 522	702 955	407 453	881 114	3	1	2	5						
		2003.. 2 364 581	823 373	485 531	1 055 677	2 390 310	805 348	468 534	1 116 428	2	1	1	3						
		2002.. 2 404 753	799 133	460 147	1 145 473	2 409 158	814 592	413 091	1 181 475	X	X	X	X						
33632M	Motor vehicle electrical and electronic equipment manufacturing	2004.. 2 028 309	748 716	402 740	876 853	1 991 522	702 955	407 453	881 114	3	1	2	5						
		2003.. 2 364 581	823 373	485 531	1 055 677	2 390 310	805 348	468 534	1 116 428	2	1	1	3						
		2002.. 2 404 753	799 133	460 147	1 145 473	2 409 158	814 592	413 091	1 181 475	X	X	X	X						

See footnotes at end of table.

Table 6. Value of Manufacturers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year—Con.

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—									
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.										
		A	B	C	D	E	F	G	H	A	B	C	D						
336	Transportation equipment manufacturing—Con.																		
3364	Aerospace product and parts manufacturing—Con.																		
33641	Aerospace product and parts manufacturing—Con.																		
336412	Aircraft engine and engine parts manufacturing	2 907 002	914 264	1 388 514	604 224	2 935 769	946 890	1 369 779	619 100	4	1	7	3						
	2003..	2 887 431	910 937	1 325 054	651 441	3 043 425	1 021 435	1 371 509	650 481	1	3	1	2						
	2002..	3 058 176	1 019 015	1 392 002	647 159	3 191 745	1 166 707	1 513 076	511 962	X	X	X	X						
336413	Other aircraft parts and auxiliary equipment manufacturing	5 966 760	1 609 601	2 416 913	1 940 245	4 792 561	826 673	3 045 281	920 608	1	1	1	3						
	2003..	4 705 550	787 390	3 089 669	828 490	5 175 986	765 244	3 439 871	970 871	1	3	1	4						
	2002..	5 187 029	753 146	3 459 112	974 771	5 624 910	769 696	3 755 474	1 099 740	X	X	X	X						
336414	Guided missile and space vehicle manufacturing	1 335 787	3 006	1 293 170	39 611	1 095 911	1 964	1 059 967	33 980	1	1	1	1						
	2003..	1 100 438	2 170	1 063 144	35 124	1 233 568	2 275	1 180 278	51 015	1	1	1	1						
	2002..	1 232 324	1 969	1 180 103	50 252	980 740	1 301	896 498	82 941	X	X	X	X						
336415	Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing	364 666	18 707	308 655	37 304	617 948	9 783	569 257	38 908	1	2	1	3						
	2003..	611 154	9 301	565 642	36 211	600 042	9 535	560 142	30 364	2	4	1	11						
	2002..	580 977	9 658	540 095	31 224	624 352	10 072	567 143	47 137	X	X	X	X						
336419	Other guided missile and space vehicle parts and auxiliary equipment manufacturing	140 617	16 777	98 776	25 064	123 952	10 757	94 623	18 572	1	4	1	1						
	2003..	119 362	10 037	91 183	18 143	97 384	10 255	70 667	16 462	1	2	1	2						
	2002..	111 024	10 254	84 573	16 197	80 842	13 309	54 591	12 942	X	X	X	X						
3365	Railroad rolling stock manufacturing	1 514 720	484 924	604 026	425 770	1 368 993	415 789	551 983	401 221	1	6	2	5						
	2003..	1 405 649	398 768	581 784	425 097	1 448 052	475 950	607 980	364 122	1	1	1	1						
	2002..	1 374 648	445 779	602 086	326 783	1 428 702	474 755	609 903	344 044	X	X	X	X						
33651	Railroad rolling stock manufacturing	1 514 720	484 924	604 026	425 770	1 368 993	415 789	551 983	401 221	1	6	2	5						
	2003..	1 405 649	398 768	581 784	425 097	1 448 052	475 950	607 980	364 122	1	1	1	1						
	2002..	1 374 648	445 779	602 086	326 783	1 428 702	474 755	609 903	344 044	X	X	X	X						
336510	Railroad rolling stock manufacturing	1 514 720	484 924	604 026	425 770	1 368 993	415 789	551 983	401 221	1	6	2	5						
	2003..	1 405 649	398 768	581 784	425 097	1 448 052	475 950	607 980	364 122	1	1	1	1						
	2002..	1 374 648	445 779	602 086	326 783	1 428 702	474 755	609 903	344 044	X	X	X	X						
3366	Ship and boat building	2 575 654	420 343	1 459 399	695 912	2 404 182	400 492	1 371 136	632 555	2	4	3	3						
	2003..	2 319 351	440 986	1 254 396	623 969	2 267 426	392 111	1 245 723	629 592	2	4	3	3						
	2002..	2 256 793	399 206	1 226 293	631 294	2 219 961	384 662	1 185 946	649 353	X	X	X	X						
33661	Ship and boat building	2 575 654	420 343	1 459 399	695 912	2 404 182	400 492	1 371 136	632 555	2	4	3	3						
	2003..	2 319 351	440 986	1 254 396	623 969	2 267 426	392 111	1 245 723	629 592	2	4	3	3						
	2002..	2 256 793	399 206	1 226 293	631 294	2 219 961	384 662	1 185 946	649 353	X	X	X	X						
336611	Ship building and repairing	1 142 489	61 008	919 226	162 255	1 168 017	63 818	933 565	170 633	2	5	1	7						
	2003..	1 225 555	79 222	967 363	178 971	1 180 921	73 537	914 775	192 609	3	14	3	3						
	2002..	1 142 691	63 973	894 746	183 972	1 147 273	42 137	885 440	219 696	X	X	X	X						
336612	Boat building	1 433 165	359 335	540 173	533 657	1 236 166	336 674	437 570	461 921	4	4	7	3						
	2003..	1 093 796	361 765	287 033	444 998	1 086 505	318 574	330 948	436 983	2	5	8	4						
	2002..	1 114 102	335 233	331 547	447 322	1 072 688	342 525	300 506	429 657	X	X	X	X						
3369	Other transportation equipment manufacturing ..	1 402 238	341 487	376 901	683 850	1 403 185	364 219	387 696	651 270	1	2	1	1						
	2003..	1 444 967	370 499	393 897	680 571	1 450 330	367 662	419 650	663 017	2	2	3	3						
	2002..	1 472 453	367 819	438 733	665 901	1 530 069	472 868	411 116	646 085	X	X	X	X						
33699	Other transportation equipment manufacturing	1 402 238	341 487	376 901	683 850	1 403 185	364 219	387 696	651 270	1	2	1	1						
	2003..	1 444 967	370 499	393 897	680 571	1 450 330	367 662	419 650	663 017	2	2	3	3						
	2002..	1 472 453	367 819	438 733	665 901	1 530 069	472 868	411 116	646 085	X	X	X	X						
336991	Motorcycle, bicycle, and parts manufacturing	397 939	141 793	92 044	164 102	370 134	131 004	98 537	140 594	2	4	5	4						
	2003..	393 671	128 928	107 887	156 855	409 766	134 905	100 943	173 919	2	3	3	2						
	2002..	403 838	133 418	100 541	169 879	445 507	214 363	93 760	137 384	X	X	X	X						
336992	Military armored vehicle, tank, and tank component manufacturing	414 304	4 513	248 170	161 621	470 309	4 165	250 261	215 883	1	1	1	1						
	2003..	483 325	7 128	258 201	217 996	483 142	6 016	276 264	200 862	2	36	1	1						
	2002..	485 806	4 729	275 391	205 686	432 527	3 857	244 991	183 679	X	X	X	X						

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NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—										
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.											
		A	B	C	D	E	F	G	H	A	B	C	D							
336	Transportation equipment manufacturing—Con.																			
3369	Other transportation equipment manufacturing—Con.																			
33699	Other transportation equipment manufacturing—Con.																			
336999	All other transportation equipment manufacturing																			
		2004..	589 995	195 182	36 687	358 127	562 742	229 050	38 899	294 793	2	2	2	2						
		2003..	567 971	234 444	27 808	305 719	557 421	226 741	42 444	288 236	4	3	34	6						
		2002..	582 809	229 672	62 801	290 336	652 035	254 648	72 365	325 022	X	X	X	X						
337	Furniture and related product manufacturing	2004..	7 877 887	2 916 934	1 513 543	3 447 410	7 315 638	2 673 225	1 400 508	3 241 905	1	2	2	1						
		2003..	7 495 986	2 707 184	1 400 638	3 388 164	7 495 425	2 746 162	1 401 176	3 348 087	1	1	1	2						
		2002..	7 705 516	2 800 216	1 437 911	3 467 389	7 402 456	2 639 568	1 408 588	3 354 300	X	X	X	X						
3371	Household and institutional furniture and kitchen cabinet manufacturing	2004..	5 247 207	2 035 464	983 506	2 228 237	4 907 233	1 872 012	926 472	2 108 749	1	2	2	1						
		2003..	5 047 796	1 864 174	924 064	2 259 558	5 009 672	1 926 360	930 285	2 153 027	1	1	2	1						
		2002..	5 141 249	1 956 795	956 557	2 227 897	4 828 810	1 786 876	943 626	2 098 308	X	X	X	X						
33711	Wood kitchen cabinet and counter top manufacturing	2004..	1 168 181	300 013	300 805	567 362	1 056 761	237 373	266 943	552 444	3	8	3	2						
		2003..	1 101 519	230 330	272 998	598 192	961 186	213 634	252 558	494 994	2	3	2	3						
		2002..	968 154	212 033	257 557	498 564	934 378	217 180	254 460	462 738	X	X	X	X						
337110	Wood kitchen cabinet and counter top manufacturing	2004..	1 168 181	300 013	300 805	567 362	1 056 761	237 373	266 943	552 444	3	8	3	2						
		2003..	1 101 519	230 330	272 998	598 192	961 186	213 634	252 558	494 994	2	3	2	3						
		2002..	968 154	212 033	257 557	498 564	934 378	217 180	254 460	462 738	X	X	X	X						
33712	Household and institutional furniture manufacturing	2004..	4 079 026	1 735 450	682 701	1 660 875	3 850 473	1 634 639	659 529	1 556 305	1	2	3	2						
		2003..	3 946 276	1 633 844	651 066	1 661 366	4 048 486	1 712 726	677 727	1 658 032	1	1	2	1						
		2002..	4 173 095	1 744 762	699 000	1 729 333	3 894 432	1 569 696	689 166	1 635 570	X	X	X	X						
337121	Upholstered household furniture manufacturing	2004..	1 059 911	275 251	150 527	634 133	1 037 225	286 848	150 089	600 289	3	8	3	2						
		2003..	1 001 246	234 633	133 237	633 376	947 728	222 287	127 094	598 348	2	3	4	1						
		2002..	979 267	219 437	141 391	618 439	877 837	194 631	139 236	543 970	X	X	X	X						
337122	Nonupholstered wood household furniture manufacturing	2004..	1 967 646	1 110 102	328 936	528 608	1 860 739	1 025 683	331 564	503 492	2	3	5	4						
		2003..	1 997 302	1 087 312	342 292	567 698	2 123 293	1 155 688	379 412	588 193	1	1	4	3						
		2002..	2 176 736	1 170 773	386 252	619 711	1 978 042	1 011 630	370 711	595 701	X	X	X	X						
337127	Institutional furniture manufacturing	2004..	615 310	175 414	136 359	303 537	532 504	145 365	111 391	275 748	1	2	3	2						
		2003..	518 420	139 273	109 304	269 842	543 206	157 161	105 578	280 468	3	5	4	3						
		2002..	553 553	159 277	106 037	288 239	543 359	154 506	107 430	281 423	X	X	X	X						
33712N	Other household nonupholstered furniture	2004..	436 159	174 683	66 878	194 598	420 004	176 743	66 485	176 776	3	3	6	3						
		2003..	429 309	172 626	66 234	190 450	434 258	177 591	65 644	191 023	3	4	3	4						
		2002..	463 539	195 275	65 320	202 944	495 194	208 929	71 789	214 476	X	X	X	X						
3372	Office furniture (including fixtures) manufacturing	2004..	2 046 125	684 048	482 732	879 345	1 846 188	617 732	426 195	802 262	1	2	3	2						
		2003..	1 881 743	665 395	428 853	787 495	1 915 632	653 836	422 681	839 115	3	4	2	5						
		2002..	1 968 972	671 438	430 476	867 058	1 964 701	664 949	417 991	881 761	X	X	X	X						
33721	Office furniture (including fixtures) manufacturing	2004..	2 046 125	684 048	482 732	879 345	1 846 188	617 732	426 195	802 262	1	2	3	2						
		2003..	1 881 743	665 395	428 853	787 495	1 915 632	653 836	422 681	839 115	3	4	2	5						
		2002..	1 968 972	671 438	430 476	867 058	1 964 701	664 949	417 991	881 761	X	X	X	X						
337212	Custom architectural woodwork and millwork manufacturing	2004..	389 411	130 973	123 540	134 899	328 879	111 466	101 000	116 413	4	6	9	3						
		2003..	374 099	123 082	109 295	141 723	368 720	116 155	108 164	144 401	4	10	5	8						
		2002..	369 127	118 623	107 585	142 919	369 584	126 301	107 757	135 526	X	X	X	X						
337215	Showcase, partition, shelving, and locker manufacturing	2004..	1 045 231	410 924	231 799	402 508	925 315	373 353	194 813	357 149	2	2	5	3						
		2003..	995 895	414 727	193 572	387 596	1 003 631	417 163	195 831	390 636	3	5	3	3						
		2002..	1 030 472	426 375	200 083	404 014	984 802	414 101	189 176	381 525	X	X	X	X						
33721N	Office furniture manufacturing	2004..	611 483	142 151	127 393	341 938	591 995	132 913	130 381	328 701	3	8	3	2						
		2003..	511 749	127 587	125 986	258 176	543 281	120 517	118 686	304 078	10	9	2	15						
		2002..	569 373	126 440	122 808	320 125	610 315	124 547	121 058	364 710	X	X	X	X						

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NAICS and NAICS-based code ¹	Industry group and industry	End of year				Beginning of year				Relative standard error of estimate ² (percent) for column—										
		Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.	Total	Finished products	Work-in-process	Materials, supplies, fuels, etc.											
		A	B	C	D	E	F	G	H	A	B	C	D							
339	Miscellaneous manufacturing—Con.																			
3399	Other miscellaneous manufacturing—Con.																			
33993	Doll, toy, and game manufacturing	2004.. 631 573	370 731	50 941	209 901	680 129	392 402	50 851	236 876	4	3	9	6							
		2003.. 681 550	396 743	54 266	230 540	741 508	436 705	64 454	240 348	3	3	8	3							
		2002.. 747 365	440 689	65 025	241 651	639 457	361 442	66 116	211 899	X	X	X	X							
33993M	Doll, toy, and game manufacturing	2004.. 631 573	370 731	50 941	209 901	680 129	392 402	50 851	236 876	4	3	9	6							
		2003.. 681 550	396 743	54 266	230 540	741 508	436 705	64 454	240 348	3	3	8	3							
		2002.. 747 365	440 689	65 025	241 651	639 457	361 442	66 116	211 899	X	X	X	X							
33994	Office supplies (except paper) manufacturing	2004.. 488 029	212 900	102 453	172 676	478 126	216 178	97 543	164 406	2	3	3	2							
		2003.. 495 010	224 408	97 079	173 523	496 964	215 800	105 465	175 700	2	3	2	2							
		2002.. 509 786	222 377	107 391	180 018	568 324	230 336	100 282	237 706	X	X	X	X							
33994M	Office supplies (except paper) manufacturing	2004.. 488 029	212 900	102 453	172 676	478 126	216 178	97 543	164 406	2	3	3	2							
		2003.. 495 010	224 408	97 079	173 523	496 964	215 800	105 465	175 700	2	3	2	2							
		2002.. 509 786	222 377	107 391	180 018	568 324	230 336	100 282	237 706	X	X	X	X							
33995	Sign manufacturing	2004.. 1 019 015	284 356	328 605	406 054	916 902	249 483	273 221	394 199	2	4	4	3							
		2003.. 957 948	266 686	272 754	418 508	944 866	253 750	283 318	407 798	2	6	3	2							
		2002.. 951 362	255 173	276 368	419 821	952 502	261 945	278 397	412 160	X	X	X	X							
339950	Sign manufacturing	2004.. 1 019 015	284 356	328 605	406 054	916 902	249 483	273 221	394 199	2	4	4	3							
		2003.. 957 948	266 686	272 754	418 508	944 866	253 750	283 318	407 798	2	6	3	2							
		2002.. 951 362	255 173	276 368	419 821	952 502	261 945	278 397	412 160	X	X	X	X							
33999	All other miscellaneous manufacturing	2004.. 3 665 647	1 610 135	555 996	1 499 516	3 505 855	1 572 266	533 474	1 400 115	1	2	2	1							
		2003.. 3 713 304	1 689 084	577 458	1 446 762	3 803 475	1 716 104	595 893	1 491 478	1	1	2	1							
		2002.. 3 713 692	1 679 886	581 747	1 452 059	3 688 542	1 636 342	587 048	1 465 152	X	X	X	X							
339991	Gasket, packing, and sealing device manufacturing	2004.. 600 823	270 967	115 298	214 557	569 130	258 686	118 335	192 110	2	3	2	3							
		2003.. 586 709	285 839	105 063	195 807	577 964	280 793	109 264	187 907	2	2	2	3							
		2002.. 591 520	286 318	113 543	191 659	584 279	283 666	111 575	189 038	X	X	X	X							
339992	Musical instrument manufacturing	2004.. 455 703	168 074	105 683	181 947	470 023	175 615	103 582	190 825	2	3	2	2							
		2003.. 461 999	178 690	100 717	182 593	453 243	169 247	102 545	181 452	3	4	3	4							
		2002.. 463 285	173 166	103 427	186 692	457 439	168 381	102 315	186 743	X	X	X	X							
339993	Fastener, button, needle, and pin manufacturing	2004.. 133 565	66 506	33 532	33 527	132 971	70 900	29 903	32 167	6	12	9	3							
		2003.. 140 765	71 214	36 035	33 517	145 227	69 974	37 879	37 374	4	7	4	3							
		2002.. 148 982	71 508	39 618	37 856	154 548	70 354	42 765	41 429	X	X	X	X							
339994	Broom, brush, and mop manufacturing	2004.. 335 741	155 533	34 940	145 268	325 631	155 408	35 163	135 060	3	3	5	3							
		2003.. 334 147	158 560	35 789	139 798	338 648	160 818	37 185	140 646	7	6	5	8							
		2002.. 335 907	159 419	35 932	140 556	311 905	149 771	30 521	131 613	X	X	X	X							
339995	Burial casket manufacturing	2004.. 62 678	24 529	13 057	25 092	53 081	22 096	12 916	18 069	3	3	7	4							
		2003.. 62 051	22 601	16 431	23 019	68 586	28 270	15 754	24 562	5	7	16	8							
		2002.. 66 524	26 664	15 836	24 024	84 672	51 412	15 671	17 589	X	X	X	X							
339999	All other miscellaneous manufacturing	2004.. 2 077 138	924 527	253 487	899 124	1 955 019	889 561	233 574	831 884	2	4	4	2							
		2003.. 2 127 634	972 181	283 425	872 029	2 219 806	1 007 002	293 267	919 537	1	1	3	2							
		2002.. 2 107 474	962 811	273 391	871 272	2 095 699	912 758	284 201	898 740	X	X	X	X							

¹For a comparison of the Annual Survey of Manufactures (ASM) general statistics NAICS-based codes to the 2002 Economic Census NAICS codes, see Appendix F.

²Description of relative standard error of estimate is given in Appendix C. Percentage standard errors shown are approximate relative standard errors of estimates of level.

Note 1: Previous years' data may differ from that published in the 2003 Annual Survey of Manufactures (ASM) because of changes encountered in subsequent review of the 2004 ASM.

Note 2: The data in this table are based on the 2004 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The data in this table contain sampling errors and nonsampling errors. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 7. Value of Shipments for Subsectors: 2004 and Earlier Years

[Thousand dollars. Data based on the 2004 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A]

NAICS code	Subsector	Value of shipments			Total miscellaneous receipts			Interplant transfers	Relative standard error of estimate ² (percent) for column—	
		Total	Products ¹	Total miscellaneous receipts	Value of resales	Contract receipts	Other miscellaneous receipts			
		A	B	C	D	E	F			G
31-33	Manufacturing	2004..	4 265 784 041	4 078 022 171	187 761 870	148 833 897	14 248 847	24 679 126	317 026 308	1
		2003..	4 015 080 847	3 825 583 810	189 497 038	151 015 432	15 193 445	23 288 161	303 004 735	1
		2002..	3 914 623 710	3 722 083 480	192 540 230	153 103 429	14 920 868	24 515 933	280 347 205	X
311	Food manufacturing	2004..	511 450 172	489 064 760	22 385 412	20 042 109	978 203	1 365 099	27 460 753	1
		2003..	483 225 641	460 790 500	22 435 141	20 829 673	807 710	797 757	28 230 829	1
		2002..	458 073 651	436 130 542	21 943 109	20 196 250	852 904	893 955	26 381 084	X
312	Beverage and tobacco product manufacturing	2004..	112 270 099	108 776 965	3 493 134	3 065 965	311 469	115 701	1 113 440	1
		2003..	108 806 338	106 256 065	2 550 273	2 200 447	287 212	62 613	1 223 060	1
		2002..	105 710 679	101 787 577	3 923 102	3 571 206	249 577	102 319	2 310 817	X
313	Textile mills	2004..	40 257 714	39 516 276	741 438	600 520	115 632	25 286	10 193 302	1
		2003..	42 587 897	41 713 433	874 464	703 526	121 310	49 629	11 118 450	1
		2002..	45 492 432	44 500 253	992 179	822 891	117 809	51 479	11 429 214	X
314	Textile product mills	2004..	33 254 443	31 317 383	1 937 060	1 730 186	191 263	15 610	5 194 170	1
		2003..	31 260 586	29 362 993	1 897 593	1 617 819	250 028	29 745	4 607 641	1
		2002..	32 086 580	30 057 192	2 029 388	1 749 892	242 560	36 936	4 541 225	X
315	Apparel manufacturing	2004..	33 495 296	28 336 983	5 158 312	4 906 054	221 752	30 507	1 469 360	1
		2003..	38 668 387	32 062 414	6 605 973	6 374 646	201 208	30 119	1 282 168	1
		2002..	41 935 931	36 604 881	5 331 050	5 082 465	207 836	40 749	1 394 006	X
316	Leather and allied product manufacturing	2004..	5 756 974	5 370 771	386 203	366 853	7 940	11 410	475 602	1
		2003..	5 784 384	5 216 504	567 881	544 794	9 329	13 757	537 003	1
		2002..	5 909 051	5 261 134	647 917	618 191	10 773	18 953	D	X
321	Wood product manufacturing	2004..	103 420 207	98 737 739	4 682 469	3 562 919	205 040	914 510	4 808 737	1
		2003..	92 119 490	87 308 389	4 811 101	3 419 929	275 421	1 115 751	4 313 132	1
		2002..	89 071 842	84 100 156	4 971 686	3 530 754	280 801	1 160 131	3 353 842	X
322	Paper manufacturing	2004..	153 969 038	149 168 023	4 801 014	3 569 996	469 754	761 264	15 484 810	1
		2003..	151 093 714	146 398 339	4 695 375	3 466 136	533 981	695 258	13 549 568	1
		2002..	153 749 276	149 309 771	4 439 505	3 429 786	248 038	761 681	13 079 248	X
323	Printing and related support activities	2004..	93 193 054	88 660 911	4 532 143	3 175 344	—	1 356 799	1 035 352	1
		2003..	92 663 126	87 534 977	5 128 149	3 455 993	—	1 672 156	973 467	1
		2002..	95 603 275	89 781 696	5 821 579	3 817 846	—	2 003 733	D	X
324	Petroleum and coal products manufacturing	2004..	312 884 951	306 824 319	6 060 632	5 092 774	97 650	870 208	8 679 430	1
		2003..	247 316 369	242 413 044	4 903 325	4 271 135	119 796	512 394	7 903 248	1
		2002..	215 462 504	210 350 707	5 111 797	4 735 959	103 103	272 735	8 868 897	X
325	Chemical manufacturing	2004..	528 215 361	497 199 016	31 016 345	24 024 264	4 139 665	2 852 416	50 025 626	1
		2003..	486 562 686	454 692 598	31 870 088	23 799 093	5 180 241	2 890 754	43 105 569	1
		2002..	461 495 985	433 889 983	27 606 002	20 944 160	4 554 539	2 107 303	33 701 341	X
326	Plastics and rubber products manufacturing	2004..	182 547 111	176 659 657	5 887 454	5 491 112	160 843	235 499	6 621 321	1
		2003..	178 328 039	171 522 623	6 805 416	5 955 963	400 589	448 865	6 800 375	1
		2002..	174 622 350	167 820 466	6 801 884	5 974 704	278 158	549 022	5 596 352	X
327	Nonmetallic mineral product manufacturing	2004..	101 869 828	97 466 442	4 403 386	3 739 224	214 802	449 360	3 616 899	1
		2003..	96 922 863	92 486 410	4 436 453	3 694 905	285 454	456 094	3 532 858	1
		2002..	95 052 390	90 800 316	4 252 074	3 623 027	250 622	378 425	2 984 170	X
331	Primary metal manufacturing	2004..	178 995 547	174 171 223	4 824 324	2 290 736	1 242 495	1 291 093	21 620 905	1
		2003..	138 142 483	134 342 889	3 799 594	1 990 376	881 069	928 149	16 885 534	1
		2002..	139 372 264	134 862 080	4 510 184	2 193 533	1 535 862	780 789	13 802 005	X
332	Fabricated metal product manufacturing	2004..	259 875 199	245 367 964	14 507 235	9 697 536	2 362 071	2 447 628	9 179 646	1
		2003..	245 550 280	230 548 541	15 001 739	9 925 902	2 298 921	2 776 916	9 055 340	1
		2002..	247 071 873	231 765 500	15 306 373	9 867 417	2 218 153	3 220 803	8 164 030	X
333	Machinery manufacturing	2004..	269 203 232	250 286 712	18 916 519	14 126 979	1 020 290	3 769 251	12 430 064	1
		2003..	257 374 593	238 132 684	19 241 909	14 836 832	1 040 921	3 364 157	12 522 490	1
		2002..	255 272 758	233 394 486	21 878 272	17 250 389	937 669	3 690 214	11 367 610	X
334	Computer and electronic product manufacturing	2004..	361 937 573	346 045 398	15 892 175	12 264 467	561 189	3 066 519	14 524 705	1
		2003..	352 635 677	334 638 031	17 997 646	14 013 619	680 842	3 303 185	15 154 536	1
		2002..	357 552 866	337 290 926	20 261 940	15 166 202	815 104	4 280 634	13 963 745	X
335	Electrical equipment, appliance, and component manufacturing	2004..	104 244 945	98 306 910	5 938 035	5 303 935	136 218	497 882	3 441 727	1
		2003..	100 139 566	94 475 582	5 663 984	5 048 108	122 455	493 420	3 175 299	1
		2002..	103 040 890	96 803 737	6 237 153	5 548 417	161 550	527 186	3 587 611	X
336	Transportation equipment manufacturing	2004..	666 502 920	649 574 512	16 928 407	12 422 246	1 034 906	3 471 256	115 149 171	1
		2003..	661 141 910	644 477 715	16 664 194	13 037 330	985 880	2 640 985	114 044 751	1
		2002..	636 715 498	620 799 781	15 915 717	12 438 392	935 612	2 541 713	111 039 228	X
337	Furniture and related product manufacturing	2004..	80 153 021	74 882 713	5 270 308	4 665 542	248 568	356 197	1 485 334	1
		2003..	75 422 981	70 798 817	4 624 164	4 067 484	208 582	348 097	1 709 352	1
		2002..	76 011 514	71 389 350	4 622 164	4 108 739	234 335	279 090	1 066 897	X
339	Miscellaneous manufacturing	2004..	132 287 359	122 287 495	9 999 864	8 695 136	529 095	775 633	3 015 953	1
		2003..	129 333 836	120 411 260	8 922 576	7 761 721	502 495	658 361	3 480 063	1
		2002..	125 320 101	115 382 946	9 937 155	8 433 209	685 863	818 083	2 218 544	X

¹Data represent the sum of primary and secondary product shipments.

²Description of relative standard error of estimate is given in Appendix C. Percentage standard errors shown are approximate relative standard errors of estimates of level.

Note 1: Previous years' data may differ from that published in the 2003 Annual Survey of Manufactures (ASM) because of changes encountered in subsequent review of the 2004 ASM.

Note 2: The data in this table are based on the 2004 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The data in this table contain sampling errors and nonsampling errors. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Appendix A.

Explanation of Terms

COMPANY

A company or “enterprise” is comprised of all the establishments that operate under the ownership or control of a single organization. A company may be a business, service, or membership organization; consist of one or several establishments; and operate at one or several locations. It includes all subsidiary organizations, all establishments that are majority-owned by the company or any subsidiary, and all the establishments that can be directed or managed by the company or any subsidiary.

A company may have one or many establishments. Examples include product and service sales offices (retail and wholesale), industrial production plants, processing or assembly operations, mines or well sites, and support operations (such as an administrative office, warehouse, customer service center, or regional headquarters). Each establishment should receive, complete, and return a separate census form.

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

Establishment

An establishment is a single physical location where business is conducted or where services or industrial operations are performed. Data in this sector includes those establishments where manufacturing is performed. A separate report is required for each manufacturing establishment (plant) with one employee or more that is in operation at any time during the year.

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

NUMBER OF EMPLOYEES

This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period that included the 12th of the months specified on the report form. Included are employees on paid sick leave, paid holidays, and paid vacations; not included are proprietors and partners of unincorporated businesses.

These individuals consist of all full-time and part-time employees who are on the payrolls of establishments who worked or received pay for any part of the pay period including the 12th of March, May, August, and November.

The “all employees” number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November.

Production Workers

The “production workers” number includes workers (up through the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and guard services, product

development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Employees above the working-supervisor level are excluded from this item.

All Other Employees

The "other employees" covers nonproduction employees of the manufacturing establishment including those engaged in factory supervision above the line-supervisor level. It includes sales (including driver-salespersons), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical employees. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations utilized as a separate work force.

PAYROLL

This item includes the gross earnings of all employees on the payrolls of operating manufacturing establishments paid in the calendar year. Respondents are 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 Annual Survey of Manufactures (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).

TOTAL FRINGE BENEFITS

This item is the employer's costs for social security tax, unemployment tax, workmen's compensation insurance, state disability insurance pension plans, stock purchase plans, union-negotiated benefits, life insurance premiums, and insurance premiums on hospital and medical plans for employees.

Fringe benefits are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation, whether they are 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.

PRODUCTION-WORKER HOURS

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

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.

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 total cost of materials 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.

TOTAL VALUE OF SHIPMENTS

Includes the received or receivable net selling values, “Free on Board” (FOB) plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and sold without further processing. Included are all 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 (interplant transfers).

In addition to the value for the North American Industry Classification System (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. value of resales — sales of products bought and sold without further manufacture, processing, or assembly;
2. contract receipts — receipts for work or services that a plant performed for others on their materials; and
3. other miscellaneous receipts — includes repair work, installation, sales of scrap, etc.

Total value of shipments is comprised of three components. These components are:

1. primary product value of shipments;
2. secondary product value of shipments; and
3. total miscellaneous receipts.

Duplication in cost of materials and value of shipments

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication, since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to the paper manufacturing group of industries.

Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the annual survey.

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

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

INTERPLANT TRANSFERS

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.

CAPITAL EXPENDITURES FOR NEW AND USED PLANT AND EQUIPMENT

Represents the total new and used capital expenditures reported by establishments in operation and any known plants under construction.

These data include expenditures for:

1. Permanent additions and major alterations to manufacturing and mining establishments.

-
2. New and used machinery and equipment used for replacement and additions to plant capacity, if they are of the type for which depreciation, depletion, or (for mining establishments) Office of Minerals Exploration accounts are ordinarily maintained. In addition, for mining establishments, these data include expenditures made during the year for development and exploration of mineral properties. For manufacturing establishments, these data are broken down into three types.
 - a. Automobiles, trucks, etc. for highway use. These include vehicles acquired under a lease-purchase agreement and excludes vehicles leased or normally designed to transport materials, property, or equipment on mining, construction, petroleum development, and similar projects. These vehicles are of such size or weight as to be normally restricted by state laws or regulations from operating on public highways. It also excludes purchases of vehicles that are purchased by a company for highway use.
 - b. Computers and peripheral data processing equipment. This item includes all purchases of computers and related equipment.
 - c. All other expenditures for machinery and equipment excluding automobiles and computer equipment.

Capital expenditures include work done by contract, as well as by the establishment's own workforce.

These data exclude expenditures for land and mineral rights and cost of maintenance and repairs charged as current operating expenses.

TOTAL BEGINNING AND END OF YEAR INVENTORIES

These items are comprised of:

1. finished products;
2. work-in-process; and
3. materials, supplies, fuels, etc.

Included are those inventories that are held outside the reporting establishment, such as a warehouse operated by the reporting establishment's company or in a public warehouse.

Inventories are reported at cost or market using generally accepted accounting methods.

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 the North American Industry Classification System (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 industry group comprises establishments primarily engaged in manufacturing food and feed for animals from ingredients, such as grains, oilseed mill products, and meat products.

31111 ANIMAL FOOD MANUFACTURING

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

311111 DOG AND CAT FOOD MANUFACTURING

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

311119 OTHER ANIMAL FOOD MANUFACTURING

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

3112 GRAIN AND OILSEED MILLING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

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1. milling flour or meal from grains or vegetables;
 2. preparing flour mixes or doughs from flour milled in the same establishment;
 3. milling, cleaning, and polishing rice; and
 4. malt from barley, rye, or other grains.

31121 FLOUR MILLING AND MALT MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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. malt from barley, rye, or other grains.

31121M FLOUR MILLING AND MALT MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 311211 Flour Milling;
2. 311212 Rice Milling; and
3. 311213 Malt Manufacturing.

311211 Flour Milling

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. milling flour or meal from grains (except rice) or vegetables and/or
2. milling flour and preparing flour mixes or doughs.

311212 Rice Milling

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. milling rice;
2. cleaning and polishing rice; or
3. milling, cleaning, and polishing rice.

The establishments in this industry may package the rice they mill with other ingredients.

311213 Malt Manufacturing

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

31122 STARCH AND VEGETABLE FATS AND OILS MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. wet milling corn and vegetables;
2. crushing oilseeds and tree nuts;
3. refining and/or blending vegetable oils;

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4. 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).

311225 FATS AND OILS REFINING AND BLENDING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. 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.

31122N SOYBEAN AND OTHER OILSEED PROCESSING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 311222 Soybean Processing and
2. 311223 Other Oilseed Processing.

311222 Soybean Processing

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

311223 Other Oilseed Processing

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

31123 BREAKFAST CEREAL MANUFACTURING

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

311230 BREAKFAST CEREAL MANUFACTURING

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

3113 SUGAR AND CONFECTIONERY PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

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

31131 SUGAR MANUFACTURING

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

311313 BEET SUGAR MANUFACTURING

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

31131N SUGAR CANE MILLS AND REFINING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 311311 Sugarcane Mills and
2. 311312 Cane Sugar Refining.

311311 Sugarcane Mills

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

311312 Cane Sugar Refining

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

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.

31133 CONFECTIONERY MANUFACTURING FROM PURCHASED CHOCOLATE

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

311330 CONFECTIONERY MANUFACTURING FROM PURCHASED CHOCOLATE

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

31134 NONCHOCOLATE CONFECTIONERY MANUFACTURING

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

3114 FRUIT AND VEGETABLE PRESERVING AND SPECIALTY FOOD MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

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1. frozen fruit, frozen juices, frozen vegetables, and frozen specialty foods and
 2. canned, pickled, and dried fruits, vegetables, and specialty foods.

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.

31141M FROZEN FOOD MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 311411 Frozen Fruit, Juice, and Vegetable Manufacturing and
2. 311412 Frozen Specialty Food Manufacturing.

311411 Frozen Fruit, Juice, and Vegetable Manufacturing

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

311412 Frozen Specialty Food Manufacturing

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

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.

31142M FRUIT AND VEGETABLE CANNING, PICKLING, AND DRYING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 311421 Fruit and Vegetable Canning;
2. 311422 Specialty Canning; and
3. 311423 Dried and Dehydrated Food Manufacturing.

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, spaghetti, barbeque, and tomato paste; pickles, relishes, and sauerkraut.

311422 Specialty Canning

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

311423 Dried and Dehydrated Food Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. drying (including freeze-dried) and/or dehydrating fruits, vegetables, and soup mixes and bouillon and/or
2. drying and/or dehydrating ingredients and packaging them with other purchased ingredients, such as rice and dry pasta.

3115 DAIRY PRODUCT MANUFACTURING

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

31151 DAIRY PRODUCT (EXCEPT FROZEN) MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. dairy products (except frozen) from raw milk and/or processed milk products;
2. dairy substitutes (except frozen) from soybeans and other nondairy substances; and
3. dry, condensed, concentrated, and evaporated dairy and dairy substitute products.

311513 CHEESE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. cheese products (except cottage cheese) from raw milk and/or processed milk products and/or
2. cheese substitutes from soybean and other nondairy substances.

311514 DRY, CONDENSED, AND EVAPORATED DAIRY PRODUCT MANUFACTURING

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

31151N FLUID MILK AND BUTTER MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 311511 Fluid Milk Manufacturing and
2. 311512 Creamery Butter Manufacturing.

311511 Fluid Milk Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. processed milk products, such as pasteurized milk or cream and sour cream and/or
2. fluid milk dairy substitutes from soybeans and other nondairy substances.

311512 Creamery Butter Manufacturing

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

31152 ICE CREAM AND FROZEN DESSERT MANUFACTURING

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

311520 ICE CREAM AND FROZEN DESSERT MANUFACTURING

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

3116 ANIMAL SLAUGHTERING AND PROCESSING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. slaughtering animals;
2. preparing processed meats and meat byproducts; and
3. rendering and/or refining animal fat, bones, and meat scraps.

This industry includes establishments primarily engaged in assembly cutting and packing of meats (i.e., boxed meats) from purchased carcasses.

31161 ANIMAL SLAUGHTERING AND PROCESSING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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.

311615 POULTRY PROCESSING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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

31161N ANIMAL (EXCEPT POULTRY) SLAUGHTERING AND PROCESSING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 311611 Animal (except Poultry) Slaughtering;
2. 311612 Meat Processed from Carcasses; and
3. 311613 Rendering and Meat Byproduct Processing.

311611 Animal (except Poultry) Slaughtering

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

311612 Meat Processed from Carcasses

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

311613 Rendering and Meat Byproduct Processing

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

3117 SEAFOOD PRODUCT PREPARATION AND PACKAGING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. canning seafood (including soup);
2. smoking, salting, and drying seafood;
3. eviscerating fresh fish by removing heads, fins, scales, bones, and entrails;
4. shucking and packing fresh shellfish;
5. processing marine fats and oils; and
6. freezing seafood.

Establishments known as “floating factory ships” that are engaged in the gathering and processing of seafood into canned seafood products are also included in this industry group.

31171 SEAFOOD PRODUCT PREPARATION AND PACKAGING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. canning seafood (including soup);
2. smoking, salting, and drying seafood;
3. eviscerating fresh fish by removing heads, fins, scales, bones, and entrails;
4. shucking and packing fresh shellfish;
5. processing marine fats and oils; and
6. freezing seafood.

Establishments known as “floating factory ships” that are engaged in the gathering and processing of seafood into canned seafood products are also included in this industry.

31171M SEAFOOD PRODUCT PREPARATION AND PACKAGING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 311711 Seafood Canning and
2. 311712 Fresh and Frozen Seafood Processing.

311711 Seafood Canning

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. canning seafood (including soup) and marine fats and oils and/or
2. smoking, salting, and drying seafood.

Establishments known as “floating factory ships” that are engaged in the gathering and processing of seafood into canned seafood products are also included in this industry.

311712 Fresh and Frozen Seafood Processing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. eviscerating fresh fish by removing heads, fins, scales, bones, and entrails;
2. shucking and packing fresh shellfish;
3. frozen seafood; and
4. processing fresh and frozen marine fats and oils.

3118 BAKERIES AND TORTILLA MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. bread and bakery products;
2. cookies, crackers, and pastas; and
3. tortillas.

31181 BREAD AND BAKERY PRODUCT MANUFACTURING

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

31181M BREAD AND BAKERY PRODUCT MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 311811 Retail Bakeries;
2. 311812 Commercial Bakeries; and
3. 311813 Frozen Cakes, Pies, and Other Pastries Manufacturing.

311811 Retail Bakeries

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

311812 Commercial Bakeries

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

311813 Frozen Cakes, Pies, and Other Pastries Manufacturing

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

31182 COOKIE, CRACKER, AND PASTA MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. cookies and crackers;
2. preparing flour and dough mixes and dough from flour ground elsewhere; and
3. dry pasta.

The establishments in this industry may package the dry pasta they manufacture with other ingredients.

31182M COOKIE, CRACKER, AND PASTA MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 311821 Cookie and Cracker Manufacturing;
2. 311822 Flour Mixes and Dough Manufacturing from Purchased Flour; and
3. 311823 Dry Pasta Manufacturing.

311821 Cookie and Cracker Manufacturing

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

311822 Flour Mixes and Dough Manufacturing from Purchased Flour

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

311823 Dry Pasta Manufacturing

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

31183 TORTILLA MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing tortillas.

311830 TORTILLA MANUFACTURING

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

3119 OTHER FOOD MANUFACTURING

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

31191 SNACK FOOD MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. salting, roasting, drying, cooking, or canning nuts;

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2. processing grains or seeds into snacks;
 3. peanut butter; and
 4. potato chips, corn chips, popped popcorn, pretzels (except soft), pork rinds, and similar snacks.

31191M SNACK FOOD MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 311911 Roasted Nuts and Peanut Butter Manufacturing and
2. 311919 Other Snack Food Manufacturing.

311911 Roasted Nuts and Peanut Butter Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. salting, roasting, drying, cooking, or canning nuts;
2. processing grains or seeds into snacks; and
3. peanut butter.

311919 Other Snack Food Manufacturing

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

31192 COFFEE AND TEA MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. roasting coffee;
2. coffee and tea concentrates (including instant and freeze-dried);
3. blending tea;
4. herbal tea; and
5. 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 manufacturing activities:

1. roasting coffee;
2. coffee and tea concentrates (including instant and freeze-dried);
3. blending tea;
4. herbal tea; and
5. coffee extracts, flavorings, and syrups.

31193 FLAVORING SYRUP AND CONCENTRATE MANUFACTURING

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

311930 FLAVORING SYRUP AND CONCENTRATE MANUFACTURING

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

31194 SEASONING AND DRESSING MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. 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. spices, table salt, seasonings, and flavoring extracts (except coffee and meat), and natural food colorings; and
3. dry mix food preparations, such as salad dressing mixes, gravy and sauce mixes, frosting mixes, and other dry mix preparations.

31194M SEASONING AND DRESSING MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 311941 Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing and
2. 311942 Spice and Extract Manufacturing.

311941 Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing

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

311942 Spice and Extract Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. spices, table salt, seasonings, flavoring extracts (except coffee and meat), and natural food colorings and/or
2. dry mix food preparations, such as salad dressing mixes, gravy and sauce mixes, frosting mixes, and other dry mix preparations.

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.

31199M ALL OTHER FOOD MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 311991 Perishable Prepared Food Manufacturing and
2. 311999 All Other Miscellaneous Food Manufacturing.

311991 Perishable Prepared Food Manufacturing

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

311999 All Other Miscellaneous Food Manufacturing

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

312 BEVERAGE AND TOBACCO PRODUCT MANUFACTURING

Industries in the Beverage and Tobacco Product Manufacturing subsector manufacture beverages and tobacco products. The industry group, Beverage Manufacturing, includes three types of establishments:

1. those that manufacture nonalcoholic beverages;
2. those that manufacture alcoholic beverages through the fermentation process; and
3. those that produce distilled alcoholic beverages.

Ice manufacturing, while not a beverage, is included with nonalcoholic beverage manufacturing because it uses the same production process as water purification.

In the case of activities related to the manufacture of beverages, the structure follows the defined productive processes. Brandy, a distilled beverage, was not placed under distillery product manufacturing, but rather under the North American Industry Classification System (NAICS) class for winery product manufacturing since the productive process used in the manufacturing of alcoholic grape-based beverages produces both wines (fermented beverage) and brandies (distilled beverage).

The industry group, Tobacco Manufacturing, includes two types of establishments:

1. those engaged in redrying and stemming tobacco and
2. those that manufacture tobacco products, such as cigarettes and cigars.

3121 BEVERAGE MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing soft drinks, ice, and bottled water; breweries; wineries; and/or distilleries.

31211 SOFT DRINK AND ICE MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. soft drinks;
2. ice; and
3. purifying and bottling water.

31211M SOFT DRINK AND ICE MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

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1. 312111 Soft Drink Manufacturing;
 2. 312112 Bottled Water Manufacturing; and
 3. 312113 Ice Manufacturing.

312111 Soft Drink Manufacturing

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

312112 Bottled Water Manufacturing

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

312113 Ice Manufacturing

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

31212 BREWERIES

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

312120 BREWERIES

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

31213 WINERIES

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. wine and brandies from grown grapes;
2. 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 manufacturing activities:

1. wine and brandies from grown grapes;
2. wine and brandies from grapes and other fruits grown elsewhere; and
3. blending wines and brandies.

31214 DISTILLERIES

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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 manufacturing activities:

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1. distilling potable liquors (except brandies);
 2. distilling and blending liquors; and
 3. blending and mixing liquors and other ingredients.

3122 TOBACCO MANUFACTURING

This industry group comprises establishments primarily engaged in the stemming and redrying of tobacco, and in the manufacturing of tobacco products.

31221 TOBACCO STEMMING AND REDRYING

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

312210 TOBACCO STEMMING AND REDRYING

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

31222 TOBACCO PRODUCT MANUFACTURING

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

31222M TOBACCO PRODUCT MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 312221 Cigarette Manufacturing and
2. 312229 Other Tobacco Product Manufacturing.

312221 Cigarette Manufacturing

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

312229 Other Tobacco Product Manufacturing

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

313 TEXTILE MILLS

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

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

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

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

3131 FIBER, YARN, AND THREAD MILLS

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. spinning yarn;
2. 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.

31311 FIBER, YARN, AND THREAD MILLS

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. spinning yarn;
2. 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.

31311M FIBER, YARN, AND THREAD MILLS

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 313111 Yarn Spinning Mills;
2. 313112 Yarn Texturizing, Throwing, and Twisting Mills; and
3. 313113 Thread Mills.

313111 Yarn Spinning Mills

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

313112 Yarn Texturizing, Throwing, and Twisting Mills

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

313113 Thread Mills

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

3132 FABRIC MILLS

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. weaving broadwoven fabrics and felts;

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2. weaving or braiding narrow fabrics and schiffli machine embroideries;
 3. nonwoven fabrics and felts; and
 4. milling knit fabrics.

31321 BROADWOVEN FABRIC MILLS

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

313210 BROADWOVEN FABRIC MILLS

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

31322 NARROW FABRIC MILLS AND SCHIFFLI MACHINE EMBROIDERY

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. weaving or braiding narrow fabrics;
2. Schiffli machine embroideries; and
3. making fabric-covered elastic yarn and thread.

31322M NARROW FABRIC MILLS AND SCHIFFLI MACHINE EMBROIDERY

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 313221 Narrow Fabric Mills and
2. 313222 Schiffli Machine Embroidery.

313221 Narrow Fabric Mills

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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.

313222 Schiffli Machine Embroidery

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

31323 NONWOVEN FABRIC MILLS

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

313230 NONWOVEN FABRIC MILLS

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

31324 KNIT FABRIC MILLS

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. knitting weft (i.e., circular) and warp (i.e., flat) fabric;
2. knitting and finishing weft and warp fabric;
3. lace; and
4. 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).

31324M KNIT FABRIC MILLS

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 313241 Weft Knit Fabric Mills and
2. 313249 Other Knit Fabric and Lace Mills.

313241 Weft Knit Fabric Mills

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

313249 Other Knit Fabric and Lace Mills

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. knitting warp (i.e., flat) fabric;
2. knitting and finishing warp fabric;
3. lace; or
4. dyeing or finishing lace and lace goods.

Establishments in this industry may knit only; knit and finish; or knit, finish, and further fabricate fabric products (except apparel).

3133 TEXTILE AND FABRIC FINISHING AND FABRIC COATING MILLS

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. finishing of textiles, fabrics, and apparel and
2. coating, laminating, varnishing, waxing, and rubberizing textiles and apparel.

31331 TEXTILE AND FABRIC FINISHING MILLS

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. finishing of textiles, fabrics, and apparel and

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2. 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, calendaring, mercerizing and napping; as well as cleaning, scouring, and the preparation of natural fibers and raw stock.

31331M TEXTILE AND FABRIC FINISHING MILLS

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 313311 Broadwoven Fabric Finishing Mills and
2. 313312 Textile and Fabric Finishing (Except Broadwoven Fabric) Mills.

313311 Broadwoven Fabric Finishing Mills

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. finishing of broadwoven fabrics and
2. converters who buy broadwoven fabrics in the grey, have them finished on contract, and sell at wholesale.

313312 Textile and Fabric Finishing (Except Broadwoven Fabric) Mills

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. dyeing, bleaching, printing, and other finishing of textiles, apparel, and fabrics (except broadwoven) and
2. 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, calendaring, mercerizing and napping; as well as cleaning, scouring, and the preparation of natural fibers and raw stock.

31332 FABRIC COATING MILLS

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

313320 FABRIC COATING MILLS

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

314 TEXTILE PRODUCT MILLS

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

3141 TEXTILE FURNISHINGS MILLS

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. carpets and rugs and
2. curtains and linens.

31411 CARPET AND RUG MILLS

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. 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 one or more of the following manufacturing activities:

1. woven, tufted, and other carpets and rugs, such as art squares, floor mattings, needlepunch carpeting, and door mats and mattings, from textile materials or from twisted paper, grasses, reeds, sisal, jute, or rags and/or
2. finishing carpets and rugs.

31412 CURTAIN AND LINEN MILLS

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

31412M CURTAIN AND LINEN MILLS

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 314121 Curtain and Drapery Mills and
2. 314129 Other Household Textile Product Mills.

314121 Curtain and Drapery Mills

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

314129 Other Household Textile Product Mills

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

3149 OTHER TEXTILE PRODUCT MILLS

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

31491 TEXTILE BAG AND CANVAS MILLS

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

31491M TEXTILE BAG AND CANVAS MILLS

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

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1. 314911 Textile Bag Mills and
 2. 314912 Canvas and Related Product Mills.

314911 Textile Bag Mills

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

314912 Canvas and Related Product Mills

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

31499 ALL OTHER TEXTILE PRODUCT MILLS

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

314991 ROPE, CORDAGE, AND TWINE MILLS

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

314992 TIRE CORD AND TIRE FABRIC MILLS

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

314999 ALL OTHER MISCELLANEOUS TEXTILE PRODUCT MILLS

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

315 APPAREL MANUFACTURING

Industries in the Apparel Manufacturing subsector group establishments with two distinct manufacturing processes:

1. cut and sew (i.e., purchasing fabric and cutting and sewing to make a garment), and
2. the manufacture of garments in establishments that first knit fabric and then cut and sew the fabric into a garment.

The Apparel Manufacturing subsector includes a diverse range of establishments manufacturing full lines of ready-to-wear apparel and custom apparel: apparel contractors, performing cutting or sewing operations on materials owned by others; jobbers performing entrepreneurial functions involved in apparel manufacture; and tailors, manufacturing custom garments for individual clients are all included. Knitting, when done alone, is classified in the Textile Mills subsector, but when knitting is combined with the production of complete garments, the activity is classified in Apparel Manufacturing.

3151 APPAREL KNITTING MILLS

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

31511 HOSIERY AND SOCK MILLS

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

31511M HOSIERY AND SOCK MILLS

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 315111 Sheer Hosiery Mills and
2. 315119 Other Hosiery and Sock Mills.

315111 Sheer Hosiery Mills

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

315119 Other Hosiery and Sock Mills

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

31519 OTHER APPAREL KNITTING MILLS

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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.

31519M OTHER APPAREL KNITTING MILLS

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 315191 Outerwear Knitting Mills and
2. 315192 Underwear and Nightwear Knitting Mills.

315191 Outerwear Knitting Mills

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. knitting outerwear;
2. knitting fabric and manufacturing outerwear; and
3. knitting, manufacturing, and finishing knit outerwear.

Examples of products made in knit outerwear mills are shirts, shorts, sweat suits, sweaters, gloves, and pants.

315192 Underwear and Nightwear Knitting Mills

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. knitting underwear and nightwear;
2. knitting fabric and manufacturing underwear and nightwear; or
3. knitting, manufacturing, and finishing knit underwear and nightwear.

Examples of products produced in underwear and nightwear knitting mills are briefs, underwear T-shirts, pajamas, nightshirts, foundation garments, and panties.

3152 CUT AND SEW APPAREL MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing cut and sew apparel from woven fabric or purchased knit fabric. Included in this industry group is a diverse range of establishments manufacturing full lines of ready-to-wear apparel and custom apparel: apparel contractors, performing cutting or sewing operations on materials owned by others; jobbers performing entrepreneurial functions involved in apparel manufacture; and tailors, manufacturing custom garments for individual clients. Establishments weaving or knitting fabric, without manufacturing apparel, are classified in Subsector 313, Textile Mills.

31521 CUT AND SEW APPAREL CONTRACTORS

This industry comprises establishments commonly referred to as contractors primarily engaged in one or more of the following manufacturing activities:

1. cutting materials owned by others for apparel and accessories and/or
2. sewing materials owned by others for apparel and accessories.

31521M CUT AND SEW APPAREL CONTRACTORS

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 315211 Men's and Boys' Cut and Sew Apparel Contractors and
2. 315212 Women's, Girls', and Infants' Cut and Sew Apparel Contractors.

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

This U.S. industry comprises establishments commonly referred to as contractors primarily engaged in one or more of the following manufacturing activities:

1. cutting materials owned by others for men's and boys' apparel and/or
2. sewing materials owned by others for men's and boys' apparel.

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

This U.S. industry comprises establishments commonly referred to as contractors primarily engaged in one or more of the following manufacturing activities:

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.

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.

31522M MEN'S AND BOYS' CUT AND SEW APPAREL MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 315221 Men's and Boys' Cut and Sew Underwear and Nightwear Manufacturing;

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2. 315222 Men's and Boys' Cut and Sew Suit, Coat, and Overcoat Manufacturing;
 3. 315223 Men's and Boys' Cut and Sew Shirt (except Work Shirt) Manufacturing;
 4. 315224 Men's and Boys' Cut and Sew Trouser, Slack, and Jean Manufacturing;
 5. 315225 Men's and Boys' Cut and Sew Work Clothing Manufacturing; and
 6. 315228 Men's and Boys' Cut and Sew Other Outerwear Manufacturing.

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

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

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

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

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

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' outerwear shirts from purchased fabric. Men's and boys' shirt (except work shirt) jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Unisex outerwear shirts, such as T-shirts and sweatshirts that are sized without specific reference to gender (i.e., adult S, M, L, XL) are included in this industry.

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

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

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

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

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

This U.S. industry comprises establishments primarily engaged in manufacturing men's and boys' cut and sew outerwear from purchased fabric (except underwear, nightwear, shirts, suits, overcoats and tailored coats, separate trousers and slacks, and work clothing). Men's and boys' other

outerwear jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Unisex sweatpants and similar garments that are sized without specific reference to gender (i.e., adult S, M, L, XL) are also included in this industry. Examples of products made by these establishments are athletic clothing (except athletic uniforms), bathing suits, down coats, outerwear shorts, windbreakers and jackets, and jogging suits.

31523 WOMEN'S AND GIRLS' CUT AND SEW APPAREL MANUFACTURING

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

31523M WOMEN'S AND GIRLS' CUT AND SEW APPAREL MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 315231 Women's and Girls' Cut and Sew Lingerie, Loungewear, and Nightwear Manufacturing;
2. 315232 Women's and Girls' Cut and Sew Blouse and Shirt Manufacturing;
3. 315233 Women's and Girls' Cut and Sew Dress Manufacturing;
4. 315234 Women's and Girls' Cut and Sew Suit, Coat, Tailored Jacket, and Skirt Manufacturing;
and
5. 315239 Women's and Girls' Cut and Sew Other Outerwear Manufacturing.

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

This U.S. industry comprises establishments primarily engaged in manufacturing women's and girls' bras, girdles, and other underwear; lingerie; loungewear; and nightwear from purchased fabric. Women's and girls' lingerie, loungewear, and nightwear jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Examples of products made by these establishments are bathrobes, foundation garments, nightgowns, pajamas, panties, and slips.

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

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

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

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

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

This U.S. industry comprises establishments primarily engaged in manufacturing women's and girls' suits, pantsuits, skirts, tailored jackets, vests, raincoats, and other tailored coats, (except fur and leather coats) from purchased fabric. Women's and girls' suit, coat, tailored jacket, and skirt jobbers, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included.

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

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

31529 OTHER CUT AND SEW APPAREL MANUFACTURING

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

31529M OTHER CUT AND SEW APPAREL MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 315291 Infants' Cut and Sew Apparel Manufacturing;
2. 315292 Fur and Leather Apparel Manufacturing; and
3. 315299 All Other Cut and Sew Apparel Manufacturing.

315291 Infants' Cut and Sew Apparel Manufacturing

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

315292 Fur and Leather Apparel Manufacturing

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

315299 All Other Cut and Sew Apparel Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing cut and sew apparel from purchased fabric (except cut and sew apparel contractors; men's and boys' cut and sew underwear, nightwear, suits, coats, shirts, trousers, work clothing, and other outerwear; women's and girls' lingerie, blouses, shirts, dresses, suits, coats, and other outerwear; infants'

apparel; and fur and leather apparel). Clothing jobbers for these products, who perform entrepreneurial functions involved in apparel manufacture, including buying raw materials, designing and preparing samples, arranging for apparel to be made from their materials, and marketing finished apparel, are included. Examples of products made by these establishments are team athletic uniforms, band uniforms, academic caps and gowns, clerical vestments, and costumes.

3159 APPAREL ACCESSORIES AND OTHER APPAREL MANUFACTURING

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

31599 APPAREL ACCESSORIES AND OTHER APPAREL MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing apparel and accessories (except apparel knitting mills, cut and sew apparel contractors, men's and boys' cut and sew apparel, women's and girls' cut and sew apparel, and other cut and sew apparel). Jobbers, who 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.

31599M APPAREL ACCESSORIES AND OTHER APPAREL MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 315991 Hat, Cap, and Millinery Manufacturing;
2. 315992 Glove and Mitten Manufacturing;
3. 315993 Men's and Boys' Neckwear Manufacturing; and
4. 315999 Other Apparel Accessories and Other Apparel Manufacturing.

315991 Hat, Cap, and Millinery Manufacturing

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

315992 Glove and Mitten Manufacturing

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

315993 Men's and Boys' Neckwear Manufacturing

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

315999 Other Apparel Accessories and Other Apparel Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing apparel and apparel accessories (except apparel knitting mills; cut and sew apparel contractors; cut and sew apparel; hats and caps; mittens and gloves; and men's and boys' neckwear). Jobbers for these products, who perform entrepreneurial functions involved in other apparel and accessory manufacture, including buying raw materials, designing and preparing samples, arranging for other apparel and accessories to be made from their materials, and marketing finished other apparel and accessories, are included. Examples of products made by these establishments are apparel trimmings and findings, belts, women's scarves, and suspenders.

316 LEATHER AND ALLIED PRODUCT MANUFACTURING

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

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

3161 LEATHER AND HIDE TANNING AND FINISHING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. tanning, currying, and finishing hides and skins;
2. having others process hides and skins on a contract basis; and
3. dyeing or dressing furs.

31611 LEATHER AND HIDE TANNING AND FINISHING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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 manufacturing activities:

1. tanning, currying, and finishing hides and skins;
2. having others process hides and skins on a contract basis; and
3. dyeing or dressing furs.

3162 FOOTWEAR MANUFACTURING

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

31621 FOOTWEAR MANUFACTURING

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

31621M FOOTWEAR MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 316211 Rubber and Plastics Footwear Manufacturing;
2. 316212 House Slipper Manufacturing;
3. 316213 Men's Footwear (except Athletic) Manufacturing
4. 316214 Women's Footwear (except Athletic) Manufacturing; and
5. 316219 Other Footwear Manufacturing.

316211 Rubber and Plastics Footwear Manufacturing

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

316212 House Slipper Manufacturing

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

316213 Men's Footwear (except Athletic) Manufacturing

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

316214 Women's Footwear (except Athletic) Manufacturing

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

316219 Other Footwear Manufacturing

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

3169 OTHER LEATHER AND ALLIED PRODUCT MANUFACTURING

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

31699 OTHER LEATHER AND ALLIED PRODUCT MANUFACTURING

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

31699M OTHER LEATHER AND ALLIED PRODUCT MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

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1. 316991 Luggage Manufacturing;
 2. 316992 Women's Handbag and Purse Manufacturing;
 3. 316993 Personal Leather Good (except Women's Handbag and Purse) Manufacturing; and
 4. 316999 All Other Leather Good Manufacturing.

316991 Luggage Manufacturing

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

316992 Women's Handbag and Purse Manufacturing

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

316993 Personal Leather Good (except Women's Handbag and Purse) Manufacturing

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

316999 All Other Leather Good Manufacturing

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

321 WOOD PRODUCT MANUFACTURING

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

3211 SAWMILLS AND WOOD PRESERVATION

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

32111 SAWMILLS AND WOOD PRESERVATION

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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

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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.

32111M SAWMILLS AND WOOD PRESERVATION

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 321113 Sawmills and
2. 321114 Wood Preservation.

321113 Sawmills

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

321114 Wood Preservation

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. treating wood sawed, planed, or shaped in other establishments with creosote or other preservatives, such as chromated copper arsenate, to prevent decay and to protect against fire and insects and/or
2. sawing round wood poles, pilings, and posts and treating them with preservatives.

3212 VENEER, PLYWOOD, AND ENGINEERED WOOD PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. veneer and/or plywood;
2. engineered wood members; and
3. reconstituted wood products.

This industry includes manufacturing plywood from veneer made in the same establishment or from veneer made in other establishments, and manufacturing plywood faced with nonwood materials, such as plastics or metal.

32121 VENEER, PLYWOOD, AND ENGINEERED WOOD PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. veneer and/or plywood;
2. engineered wood members; and
3. 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.

321219 RECONSTITUTED WOOD PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing reconstituted wood sheets and boards.

32121N VENEER AND PLYWOOD MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 321211 Hardwood Veneer and Plywood Manufacturing and
2. 321212 Softwood Veneer and Plywood Manufacturing.

321211 Hardwood Veneer and Plywood Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing hardwood veneer and/or hardwood plywood.

321212 Softwood Veneer and Plywood Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing softwood veneer and/or softwood plywood.

32121P ENGINEERED WOOD PRODUCT MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 321213 Engineered Wood Member (except Truss) Manufacturing and
2. 321214 Truss Manufacturing.

321213 Engineered Wood Member (except Truss) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated or laminated wood arches and/or other fabricated or laminated wood structural members.

321214 Truss Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing laminated or fabricated wood roof and floor trusses.

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.

32191M MILLWORK

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 321911 Wood Window and Door Manufacturing;
2. 321912 Cut Stock, Resawing Lumber, and Planing; and

3. 321918 Other Millwork (including Flooring).

321911 Wood Window and Door Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing window and door units, sash, window and door frames, and doors from wood or wood clad with metal or plastics.

321912 Cut Stock, Resawing Lumber, and Planing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. dimension lumber from purchased lumber;
2. dimension stock (i.e., shapes) or cut stock;
3. resawing the output of sawmills; and
4. planing purchased lumber.

These establishments generally use woodworking machinery, such as jointers, planers, lathes, and routers to shape wood.

321918 Other Millwork (including Flooring)

This U.S. industry comprises establishments primarily engaged in manufacturing millwork (except wood windows, wood doors, and cut stock).

32192 WOOD CONTAINER AND PALLET MANUFACTURING

This 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.

32199 ALL OTHER WOOD PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing wood products (except establishments operating sawmills and wood preservation facilities; and establishments manufacturing veneer, plywood, engineered wood products, millwork, wood containers, or pallets).

321991 MANUFACTURED HOME (MOBILE HOME) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in making manufactured homes (i.e., mobile homes) and nonresidential mobile buildings. Manufactured homes are designed to accept permanent water, sewer, and utility connections and although equipped with wheels, they are not intended for regular highway movement.

321992 PREFABRICATED WOOD BUILDING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing prefabricated wood buildings and wood sections and panels for prefabricated wood buildings.

321999 ALL OTHER MISCELLANEOUS WOOD PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wood products (except establishments operating sawmills and preservation facilities; establishments manufacturing veneer, engineered wood products, millwork, wood containers, pallets, and wood container parts; and establishments making manufactured homes (i.e., mobile homes) and prefabricated buildings and components).

322 PAPER MANUFACTURING

Industries in the Paper Manufacturing subsector make pulp, paper, or converted paper products. The manufacturing of these products is grouped together because they constitute a series of vertically connected processes. More than one is often carried out in a single establishment. There are essentially three activities. The manufacturing of pulp involves separating the cellulose fibers from other impurities in wood or used paper. The manufacturing of paper involves matting these fibers into a sheet. Converted paper products are made from paper and other materials by various cutting and shaping techniques and includes coating and laminating activities.

The Paper Manufacturing subsector is subdivided into two industry groups, the first for the manufacturing of pulp and paper and the second for the manufacturing of converted paper products. Paper making is treated as the core activity of the subsector. Therefore, any establishment that makes paper (including paperboard), either alone or in combination with pulp manufacturing or paper converting, is classified as a paper or paperboard mill. Establishments that make pulp without making paper are classified as pulp mills. Pulp mills, paper mills and paperboard mills comprise the first industry group.

Establishments that make products from purchased paper and other materials make up the second industry group, Converted Paper Product Manufacturing. This general activity is then subdivided based, for the most part, on process distinctions. Paperboard container manufacturing uses corrugating, cutting, and shaping machinery to form paperboard into containers. Paper bag and coated and treated paper manufacturing establishments cut and coat paper and foil. Stationery product manufacturing establishments make a variety of paper products used for writing, filing, and similar applications. Other converted paper product manufacturing includes, in particular, the conversion of sanitary paper stock into such things as tissue paper and disposable diapers.

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 North American Industry Classification System (NAICS) Subsector 326, Plastics and Rubber Products Manufacturing, because establishments that do this often first make the film. The same situation holds with respect to bags. The manufacturing of bags from plastics only, whether or not laminated, is classified in Subsector 326, Plastics and Rubber Products Manufacturing, but all other bag manufacturing is classified in this subsector.

Excluded from this subsector are photosensitive papers. These papers are chemically treated and are classified in Industry 32599, All Other Chemical Product and Preparation Manufacturing.

3221 PULP, PAPER, AND PAPERBOARD MILLS

This industry group comprises establishments primarily engaged in manufacturing pulp, paper, or paperboard.

32211 PULP MILLS

This industry comprises establishments primarily engaged in manufacturing pulp without manufacturing paper or paperboard. The pulp is made by separating the cellulose fibers from the other impurities in wood or other materials, such as used or recycled rags, linters, scrap paper, and straw.

322110 PULP MILLS

This U.S. industry comprises establishments primarily engaged in manufacturing pulp without manufacturing paper or paperboard. The pulp is made by separating the cellulose fibers from the other impurities in wood or other materials, such as used or recycled rags, linters, scrap paper, and straw.

32212 PAPER MILLS

This industry comprises establishments primarily engaged in manufacturing paper from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may convert the paper they make. The activity of making paper classifies an establishment into this industry regardless of the output.

32212M PAPER AND NEWSPRINT MILLS

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 322121 Paper (except Newsprint) Mills and
2. 322122 Newsprint Mills.

322121 Paper (except Newsprint) Mills

This U.S. industry comprises establishments primarily engaged in manufacturing paper (except newsprint and uncoated groundwood paper) from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paper they make.

322122 Newsprint Mills

This U.S. industry comprises establishments primarily engaged in manufacturing newsprint and uncoated groundwood paper from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paper they make.

32213 PAPERBOARD MILLS

This industry comprises establishments primarily engaged in manufacturing paperboard from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paperboard they make.

322130 PAPERBOARD MILLS

This U.S. industry comprises establishments primarily engaged in manufacturing paperboard from pulp. These establishments may manufacture or purchase pulp. In addition, the establishments may also convert the paperboard they make.

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.

32221M PAPERBOARD CONTAINER MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 322211 Corrugated and Solid Fiber Box Manufacturing;
2. 322212 Folding Paperboard Box Manufacturing;
3. 322213 Setup Paperboard Box Manufacturing;
4. 322214 Fiber Can, Tube, Drum, and Similar Products Manufacturing; and

5. 322215 Nonfolding Sanitary Food Container Manufacturing.

322211 Corrugated and Solid Fiber Box Manufacturing

This U.S. industry comprises establishments primarily engaged in laminating purchased paper or paperboard into corrugated or solid fiber boxes and related products, such as pads, partitions, pallets, and corrugated paper without manufacturing paperboard. These boxes are generally used for shipping.

322212 Folding Paperboard Box Manufacturing

This U.S. industry comprises establishments primarily engaged in converting paperboard (except corrugated) into folding paperboard boxes without manufacturing paper and paperboard.

322213 Setup Paperboard Box Manufacturing

This U.S. industry comprises establishments primarily engaged in converting paperboard into setup paperboard boxes (i.e., rigid-sided boxes not shipped flat) without manufacturing paperboard.

322214 Fiber Can, Tube, Drum, and Similar Products Manufacturing

This U.S. industry comprises establishments primarily engaged in converting paperboard into fiber cans, tubes, drums, and similar products without manufacturing paperboard.

322215 Nonfolding Sanitary Food Container Manufacturing

This U.S. industry comprises establishments primarily engaged in converting sanitary foodboard into food containers (except folding).

32222 PAPER BAG AND COATED AND TREATED PAPER MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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. 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. laminated aluminum and other converted metal foils from purchased foils; and
5. surface coating paper or paperboard.

32222N COATED AND LAMINATED PAPER AND PACKAGING MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 322221 Coated and Laminated Packaging Paper and Plastics Film Manufacturing and
2. 322222 Coated and Laminated Paper Manufacturing.

322221 Coated and Laminated Packaging Paper and Plastics Film Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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.

322222 Coated and Laminated Paper Manufacturing

This U.S. industry comprises establishments primarily engaged in performing one or more of the following manufacturing activities associated with making products designed for purposes other than packaging:

1. cutting and coating paper;
2. cutting and laminating paper and other flexible materials (except plastics film to plastics film); and
3. laminating aluminum and other metal foils for nonpackaging uses from purchased foils.

The products made in this industry are made from purchased sheet materials and may be printed in the same establishment.

32222P COATED, UNCOATED, AND MULTIWALL BAG AND PACKAGING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 322223 Plastics, Foil, and Coated Paper Bag Manufacturing;
2. 322224 Uncoated Paper and Multiwall Bag Manufacturing;
3. 322225 Laminated Aluminum Foil Manufacturing for Flexible Packaging Uses; and
4. 322226 Surface-Coated Paperboard Manufacturing.

322223 Plastics, Foil, and Coated Paper Bag Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing bags of coated paper, of metal foil, or of laminated or coated combinations of plastics, foil, and paper, whether or not printed.

322224 Uncoated Paper and Multiwall Bag Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing uncoated paper bags or multiwall bags and sacks.

322225 Laminated Aluminum Foil Manufacturing for Flexible Packaging Uses

This U.S. industry comprises establishments primarily engaged in laminating aluminum and other metal foil into products with flexible packaging uses or gift wrap and other packaging wrap applications.

322226 Surface-Coated Paperboard Manufacturing

This U.S. industry comprises establishments primarily engaged in laminating, lining, or surface coating purchased paperboard to make other paperboard products.

32223 STATIONERY PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in converting paper or paperboard into products used for writing, filing, art work, and similar applications.

32223M STATIONERY PRODUCT MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 322231 Die-Cut Paper and Paperboard Office Supplies Manufacturing;

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2. 322232 Envelope Manufacturing; and
 3. 322233 Stationery, Tablet, and Related Product Manufacturing.

322231 Die-Cut Paper and Paperboard Office Supplies Manufacturing

This U.S. industry comprises establishments primarily engaged in converting paper rollstock or paperboard into die-cut paper or paperboard office supplies. For the purpose of this industry, office supplies are defined as office products, such as filing folders, index cards, rolls for adding machines, file separators and dividers, tabulating cards, and other paper and paperboard office supplies.

322232 Envelope Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing envelopes for mailing or stationery of any material including combinations.

322233 Stationery, Tablet, and Related Product Manufacturing

This U.S. industry comprises establishments primarily engaged in converting paper and paperboard into products used for writing and similar applications (e.g., looseleaf fillers, notebooks, pads, stationery, and tablets).

32229 OTHER CONVERTED PAPER PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in one of the following manufacturing activities:

1. converting paper and paperboard into products (except containers, bags, coated and treated paper and paperboard, and stationery products), or
2. converting pulp into pulp products, such as disposable diapers, or molded pulp egg cartons, food trays, and dishes.

Processes used include laminating or lining purchased paper or paperboard.

322291 SANITARY PAPER PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting purchased sanitary paper stock or wadding into sanitary paper products, such as facial tissues and handkerchiefs, table napkins, toilet paper, towels, disposable diapers, sanitary napkins, and tampons.

322299 ALL OTHER CONVERTED PAPER PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting paper or paperboard into products (except containers, bags, coated and treated paper, stationery products, and sanitary paper products) or converting pulp into pulp products, such as egg cartons, food trays, and other food containers from molded pulp.

323 PRINTING AND RELATED SUPPORT ACTIVITIES

Industries in the Printing and Related Support Activities subsector print products, such as newspapers, books, labels, business cards, stationery, business forms, and other materials, and perform support activities, such as data imaging, platemaking services, and bookbinding. The support activities included here are an integral part of the printing industry, and a product (a printing plate, a bound book, or a computer disk or file) that is an integral part of the printing industry is almost always provided by these operations.

Processes used in printing include a variety of methods used to transfer an image from a plate, screen, film, or computer file to some medium, such as paper, plastics, metal, textile articles, or wood. The most prominent of these methods is to transfer the image from a plate or screen to the

medium (lithographic, gravure, screen, and flexographic printing). A rapidly growing new technology uses a computer file to directly “drive” the printing mechanism to create the image and new electrostatic and other types of equipment (digital or nonimpact printing).

In contrast to many other classification systems that locate publishing of printed materials in manufacturing, the North American Industry Classification System (NAICS) classifies the publishing of printed products in Subsector 511, Publishing Industries (except Internet). Though printing and publishing are often carried out by the same enterprise (a newspaper, for example), it is less and less the case that these distinct activities are carried out in the same establishment. When publishing and printing are done in the same establishment, the establishment is classified in Sector 51, Information, in the appropriate NAICS industry even if the receipts for printing exceed those for publishing.

This subsector includes printing on clothing because the production process for that activity is printing, not clothing manufacturing. For instance, the printing of T-shirts is included in this subsector. In contrast, printing on fabric (or grey goods) is not included. This activity is part of the process of finishing the fabric and is included in the NAICS Textile Mills subsector in Industry 31331, Textile and Fabric Finishing Mills.

3231 PRINTING AND RELATED SUPPORT ACTIVITIES

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. printing on apparel and textile products, paper, metal, glass, plastics, and other materials, except fabric (grey goods) and/or
2. performing prepress (e.g., platemaking, typesetting) and postpress services (e.g., book binding) in support of printing activities.

32311 PRINTING

This industry comprises establishments primarily engaged in printing on apparel and textile products, paper, metal, glass, plastics, and other materials, except fabric (grey goods). The printing processes employed include, but are not limited to, lithographic, gravure, screen, flexographic, digital, and letterpress. Establishments in this industry do not manufacture the stock that they print but may perform postprinting activities, such as folding, cutting, or laminating the materials they print, and mailing.

32311M PRINTING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 323110 Commercial Lithographic Printing;
2. 323111 Commercial Gravure Printing;
3. 323112 Commercial Flexographic Printing;
4. 323113 Commercial Screen Printing;
5. 323114 Quick Printing;
6. 323115 Digital Printing;
7. 323116 Manifold Business Forms Printing;
8. 323117 Books Printing;
9. 323118 Blankbook, Looseleaf Binders, and Devices Manufacturing; and
10. 323119 Other Commercial Printing.

323110 Commercial Lithographic Printing

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

323111 Commercial Gravure Printing

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

323112 Commercial Flexographic Printing

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

323113 Commercial Screen Printing

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

323114 Quick Printing

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

323115 Digital Printing

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

323116 Manifold Business Forms Printing

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

323117 Books Printing

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

323118 Blankbook, Looseleaf Binders, and Devices Manufacturing

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

323119 Other Commercial Printing

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

32312 SUPPORT ACTIVITIES FOR PRINTING

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

32312M SUPPORT ACTIVITIES FOR PRINTING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 323121 Tradebinding and Related Work and
2. 323122 Prepress Services.

323121 Tradebinding and Related Work

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. tradebinding;
2. sample mounting; and
3. postpress services (e.g., book or paper bronzing, die-cutting, edging, embossing, folding, gilding, gluing, indexing).

323122 Prepress Services

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. prepress services, such as imagesetting or typesetting, for printers and
2. preparing film or plates for printing purposes.

324 PETROLEUM AND COAL PRODUCTS MANUFACTURING

The Petroleum and Coal Products Manufacturing subsector is based on the transformation of crude petroleum and coal into usable products. The dominant process is petroleum refining that involves the separation of crude petroleum into component products through such techniques as cracking and distillation.

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

3241 PETROLEUM AND COAL PRODUCTS MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. refining crude petroleum into refined petroleum;
2. asphalt paving, roofing, and saturated materials; and/or
3. other petroleum and coal products.

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 manufacturing 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 manufacturing activities:

1. fractionation;
2. straight distillation of crude oil; and
3. cracking.

32412 ASPHALT PAVING, ROOFING, AND SATURATED MATERIALS MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. asphalt and tar paving mixtures and blocks and roofing cements and coatings from purchased asphaltic materials and/or
2. saturating purchased mats and felts with asphalt or tar from purchased asphaltic materials.

324121 ASPHALT PAVING MIXTURE AND BLOCK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing asphalt and tar paving mixtures and blocks from purchased asphaltic materials.

324122 ASPHALT SHINGLE AND COATING MATERIALS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. saturating purchased mats and felts with asphalt or tar from purchased asphaltic materials and
2. asphalt and tar and roofing cements and coatings from purchased asphaltic materials.

32419 OTHER PETROLEUM AND COAL PRODUCTS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing petroleum products (except asphalt paving, roofing and saturated materials) from refined petroleum or coal products made in coke ovens not integrated with a steel mill.

324191 PETROLEUM LUBRICATING OIL AND GREASE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in blending or compounding refined petroleum to make lubricating oils and greases and/or re-refining used petroleum lubricating oils.

324199 ALL OTHER PETROLEUM AND COAL PRODUCTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing petroleum products (except asphalt paving, roofing, and saturated materials and lubricating oils and greases) from refined petroleum and coal products made in coke ovens not integrated with a steel mill.

325 CHEMICAL MANUFACTURING

The Chemical Manufacturing subsector is based on the transformation of organic and inorganic raw materials by a chemical process and the formulation of products. This subsector distinguishes the production of basic chemicals that comprise the first industry group from the production of intermediate and end products produced by further processing of basic chemicals that make up the remaining industry groups.

This subsector does not include all industries transforming raw materials by a chemical process. It is common for some chemical processing to occur during mining operations. These benefiting operations, such as copper concentrating, are classified in Sector 21, Mining. Furthermore, the refining of crude petroleum is included in Subsector 324, Petroleum and Coal Products Manufacturing. In addition, the manufacturing of aluminum oxide is included in Subsector 331, Primary Metal Manufacturing; and beverage distilleries are classified in Subsector 312, Beverage and Tobacco Product Manufacturing. As in the case of these two activities, the grouping of industries into subsectors may take into account the association of the activities performed with other activities in the subsector.

3251 BASIC CHEMICAL MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing chemicals using basic processes, such as thermal cracking and distillation. Chemicals manufactured in this industry group are usually separate chemical elements or separate chemically-defined compounds.

32511 PETROCHEMICAL MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. acyclic (i.e., aliphatic) hydrocarbons such as ethylene, propylene, and butylene made from refined petroleum or liquid hydrocarbon and/or
2. cyclic aromatic hydrocarbons such as benzene, toluene, styrene, xylene, ethyl benzene, and cumene made from refined petroleum or liquid hydrocarbons.

325110 PETROCHEMICAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. acyclic (i.e., aliphatic) hydrocarbons such as ethylene, propylene, and butylene made from refined petroleum or liquid hydrocarbon and/or
2. cyclic aromatic hydrocarbons such as benzene, toluene, styrene, xylene, ethyl benzene, and cumene made from refined petroleum or liquid hydrocarbons.

32512 INDUSTRIAL GAS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing industrial organic and inorganic gases in compressed, liquid, and solid forms.

325120 INDUSTRIAL GAS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing industrial organic and inorganic gases in compressed, liquid, and solid forms.

32513 SYNTHETIC DYE AND PIGMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing synthetic organic and inorganic dyes and pigments, such as lakes and toners (except electrostatic and photographic).

32513M SYNTHETIC DYE AND PIGMENT MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 325131 Inorganic Dye and Pigment Manufacturing and
2. 325132 Synthetic Organic Dye and Pigment Manufacturing.

325131 Inorganic Dye and Pigment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing inorganic dyes and pigments.

325132 Synthetic Organic Dye and Pigment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing synthetic organic dyes and pigments, such as lakes and toners (except electrostatic and photographic).

32518 OTHER BASIC INORGANIC CHEMICAL MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing basic inorganic chemicals (except industrial gases and synthetic dyes and pigments).

325181 ALKALIES AND CHLORINE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing chlorine, sodium hydroxide (i.e., caustic soda), and other alkalies often using an electrolysis process.

325182 CARBON BLACK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing carbon black, bone black, and lamp black.

325188 ALL OTHER BASIC INORGANIC CHEMICAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing basic inorganic chemicals (except industrial gases, inorganic dyes and pigments, alkalies and chlorine, and carbon black).

32519 OTHER BASIC ORGANIC CHEMICAL MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing basic organic chemicals (except petrochemicals, industrial gases, and synthetic dyes and pigments).

32519M OTHER BASIC ORGANIC CHEMICAL MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 325191 Gum and Wood Chemical Manufacturing;
2. 325192 Cyclic Crude and Intermediate Manufacturing;
3. 325193 Ethyl Alcohol Manufacturing; and
4. 325199 All Other Basic Organic Chemical Manufacturing.

325191 Gum and Wood Chemical Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. distilling wood or gum into products, such as tall oil and wood distillates and
2. wood or gum chemicals, such as naval stores, natural tanning materials, charcoal briquettes, and charcoal (except activated).

325192 Cyclic Crude and Intermediate Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. distilling coal tars and/or
2. cyclic crudes or, cyclic intermediates (i.e., hydrocarbons, except aromatic petrochemicals) from refined petroleum or natural gas.

325193 Ethyl Alcohol Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonpotable ethyl alcohol.

325199 All Other Basic Organic Chemical Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing basic organic chemical products (except aromatic petrochemicals, industrial gases, synthetic organic dyes and pigments, gum and wood chemicals, cyclic crudes and intermediates, and ethyl alcohol).

3252 RESIN, SYNTHETIC RUBBER, AND ARTIFICIAL AND SYNTHETIC FIBERS AND FILAMENTS MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. resins and synthetic rubber and
2. artificial and synthetic fibers and filaments.

32521 RESIN AND SYNTHETIC RUBBER MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. synthetic resins, plastics materials, and nonvulcanizable elastomers and mixing and blending resins on a custom basis;
2. noncustomized synthetic resins; and
3. synthetic rubber.

325211 PLASTICS MATERIAL AND RESIN MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. resins, plastics materials, and nonvulcanizable thermoplastic elastomers and mixing and blending resins on a custom basis and/or
2. noncustomized synthetic resins.

325212 SYNTHETIC RUBBER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing synthetic rubber.

32522 ARTIFICIAL AND SYNTHETIC FIBERS AND FILAMENTS MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. 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.

32522M ARTIFICIAL AND SYNTHETIC FIBERS AND FILAMENTS MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 325221 Cellulosic Organic Fiber Manufacturing and
2. 325222 Noncellulosic Organic Fiber Manufacturing.

325221 Cellulosic Organic Fiber Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. cellulosic (i.e., rayon and acetate) fibers and filaments in the form of monofilament, filament yarn, staple, or tow or
2. manufacturing and texturizing cellulosic fibers and filaments.

325222 Noncellulosic Organic Fiber Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. noncellulosic (i.e., nylon, polyolefin, and polyester) fibers and filaments in the form of monofilament, filament yarn, staple, or tow, or
2. manufacturing and texturizing noncellulosic fibers and filaments.

3253 PESTICIDE, FERTILIZER, AND OTHER AGRICULTURAL CHEMICAL MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. fertilizers and/or
2. pesticides and other agricultural chemicals.

32531 FERTILIZER MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. nitrogenous or phosphatic fertilizer materials;
2. fertilizers from sewage or animal waste;
3. 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 manufacturing activities:

1. nitrogenous fertilizer materials and mixing ingredients into fertilizers;

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2. fertilizers from sewage or animal waste; and
 3. nitrogenous materials and mixing them into fertilizers.

325312 PHOSPHATIC FERTILIZER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. phosphatic fertilizer materials or
2. phosphatic materials and mixing them into fertilizers.

325314 FERTILIZER (MIXING ONLY) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in mixing ingredients made elsewhere into fertilizers.

32532 PESTICIDE AND OTHER AGRICULTURAL CHEMICAL MANUFACTURING

This industry comprises establishments primarily engaged in the formulation and preparation of agricultural and household pest control chemicals (except fertilizers).

325320 PESTICIDE AND OTHER AGRICULTURAL CHEMICAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in the formulation and preparation of agricultural and household pest control chemicals (except fertilizers).

3254 PHARMACEUTICAL AND MEDICINE MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. 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. pharmaceutical products intended for internal and external consumption in such forms as ampoules, tablets, capsules, vials, ointments, powders, solutions, and suspensions.

32541 PHARMACEUTICAL AND MEDICINE MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. 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. pharmaceutical products intended for internal and external consumption in such forms as ampoules, tablets, capsules, vials, ointments, powders, solutions, and suspensions.

325411 MEDICINAL AND BOTANICAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. uncompounded medicinal chemicals and their derivatives (i.e., generally for use by pharmaceutical preparation manufacturers) and/or
2. grading, grinding, and milling uncompounded botanicals.

325412 PHARMACEUTICAL PREPARATION MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing in-vivo diagnostic substances and pharmaceutical preparations (except biological) intended for internal and external consumption in dose forms, such as ampoules, tablets, capsules, vials, ointments, powders, solutions, and suspensions.

325413 IN-VITRO DIAGNOSTIC SUBSTANCE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing in-vitro (i.e., not taken internally) diagnostic substances, such as chemical, biological, or radioactive substances. The substances are used for diagnostic tests that are performed in test tubes, petri dishes, machines, and other diagnostic test-type devices.

325414 BIOLOGICAL PRODUCT (EXCEPT DIAGNOSTIC) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing vaccines, toxoids, blood fractions, and culture media of plant or animal origin (except diagnostic).

3255 PAINT, COATING, AND ADHESIVE MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. paints and coatings and/or
2. adhesives.

32551 PAINT AND COATING MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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. 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 one or more of the following manufacturing activities:

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. allied paint products, such as putties, paint and varnish removers, paint brush cleaners, and frit.

32552 ADHESIVE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing adhesives, glues, and caulking compounds.

325520 ADHESIVE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing adhesives, glues, and caulking compounds.

3256 SOAP, CLEANING COMPOUND, AND TOILET PREPARATION MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. soap and cleaning compounds and/or
2. toilet preparations.

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.

32561M SOAP AND CLEANING COMPOUND MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 325611 Soap and Other Detergent Manufacturing;
2. 325612 Polish and Other Sanitation Good Manufacturing; and
3. 325613 Surface Active Agent Manufacturing.

325611 Soap and Other Detergent Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and packaging soaps and other detergents, such as laundry detergents, dishwashing detergents, toothpaste gels and tooth powders and natural glycerin.

325612 Polish and Other Sanitation Good Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and packaging polishes and specialty cleaning preparations.

325613 Surface Active Agent Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. bulk surface active agents for use as wetting agents, emulsifiers, and penetrants, and/or
2. textiles and leather finishing agents used to reduce tension or speed the drying process.

32562 TOILET PREPARATION MANUFACTURING

This industry comprises establishments primarily engaged in preparing, blending, compounding, and packaging toilet preparations, such as perfumes, shaving preparations, hair preparations, face creams, lotions (including sunscreens), and other cosmetic preparations.

325620 TOILET PREPARATION MANUFACTURING

This U.S. industry comprises establishments primarily engaged in preparing, blending, compounding, and packaging toilet preparations, such as perfumes, shaving preparations, hair preparations, face creams, lotions (including sunscreens), and other cosmetic preparations.

3259 OTHER CHEMICAL PRODUCT AND PREPARATION MANUFACTURING

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

32591 PRINTING INK MANUFACTURING

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

325910 PRINTING INK MANUFACTURING

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

32592 EXPLOSIVES MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing explosives.

325920 EXPLOSIVES MANUFACTURING

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

32599 ALL OTHER CHEMICAL PRODUCT AND PREPARATION MANUFACTURING

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

325991 CUSTOM COMPOUNDING OF PURCHASED RESINS

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. custom mixing and blending plastics resins made elsewhere or
2. reformulating plastics resins from recycled plastics products.

32599N ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING (INCLUDING PHOTOGRAPHIC)

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 325992 Photographic Film, Paper, Plate, and Chemical Manufacturing and
2. 325998 All Other Miscellaneous Chemical Product and Preparation Manufacturing.

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.

325998 All Other Miscellaneous Chemical Product and Preparation Manufacturing

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

326 PLASTICS AND RUBBER PRODUCTS MANUFACTURING

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

Many manufacturing activities use plastics or rubber, for example the manufacture of footwear, or furniture. Typically, the production process of these products involves more than one material. In these cases, technologies that allow disparate materials to be formed and combined are of central importance in describing the manufacturing activity. In the North American Industry Classification System (NAICS), such activities (the footwear and furniture manufacturing) are not classified in the Plastics and Rubber Products Manufacturing subsector because the core technologies for these activities are diverse and involve multiple materials.

Within the Plastics and Rubber Products Manufacturing subsector, a distinction is made between plastics and rubber products at the industry group level, although it is not a rigid distinction, as can be seen from the definition of Industry 32622, Rubber and Plastics Hoses and Belting Manufacturing. As materials technology progresses, plastics are increasingly being used as a substitute for rubber; and eventually, the distinction may disappear as a basis for establishment classification.

In keeping with the core technology focus of plastics, lamination of plastics film to plastics film as well as the production of bags from plastics only is classified in this subsector. Lamination and bag production involving plastics and materials other than plastics are classified in the NAICS Subsector 322, Paper Manufacturing.

3261 PLASTICS PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in processing new or spent (i.e., recycled) plastics resins into intermediate or final products, using such processes as compression molding; extrusion molding; injection molding; blow molding; and casting. Within most of these industries, the production process is such that a wide variety of products can be made.

32611 PLASTICS PACKAGING MATERIALS AND UNLAMINATED FILM AND SHEET MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. converting plastics resins into unsupported plastics film and sheet and/or
2. forming, coating or laminating plastics film and sheet into plastics bags.

326111 PLASTICS BAG MANUFACTURING

This U.S. industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

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.

326112 PLASTICS PACKAGING FILM AND SHEET (INCLUDING LAMINATED) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting plastics resins into plastics packaging (flexible) film and packaging sheet.

326113 UNLAMINATED PLASTICS FILM AND SHEET (EXCEPT PACKAGING) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting plastics resins into plastics film and un laminated sheet (except packaging).

32612 PLASTICS PIPE, PIPE FITTING, AND UNLAMINATED PROFILE SHAPE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing plastics pipes and pipe fittings, and plastics profile shapes such as rod, tube, and sausage casings.

326121 UNLAMINATED PLASTICS PROFILE SHAPE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting plastics resins into nonrigid plastics profile shapes (except film, sheet, and bags), such as rod, tube, and sausage casings.

326122 PLASTICS PIPE AND PIPE FITTING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in converting plastics resins into rigid plastics pipes and pipe fittings.

32613 LAMINATED PLASTICS PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING

This industry comprises establishments primarily engaged in laminating plastics profile shapes such as plate, sheet (except packaging), and rod. The lamination process generally involves bonding or impregnating profiles with plastics resins and compressing them under heat.

326130 LAMINATED PLASTICS PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in laminating plastics profile shapes such as plate, sheet (except packaging), and rod. The lamination process generally involves bonding or impregnating profiles with plastics resins and compressing them under heat.

32614 POLYSTYRENE FOAM PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing polystyrene foam products.

326140 POLYSTYRENE FOAM PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing polystyrene foam products.

32615 URETHANE AND OTHER FOAM PRODUCT (EXCEPT POLYSTYRENE) MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing plastics foam products (except polystyrene).

326150 URETHANE AND OTHER FOAM PRODUCT (EXCEPT POLYSTYRENE) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing plastics foam products (except polystyrene).

32616 PLASTICS BOTTLE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing plastics bottles.

326160 PLASTICS BOTTLE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing plastics bottles.

32619 OTHER PLASTICS PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing resilient floor covering and other plastics products (except film, sheet, bags, profile shapes, pipes, pipe fittings, laminates, foam products, and bottles).

32619M OTHER PLASTICS PRODUCT MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 326191 Plastics Plumbing Fixture Manufacturing;
2. 326192 Resilient Floor Covering Manufacturing; and
3. 326199 All Other Plastics Product Manufacturing.

326191 Plastics Plumbing Fixture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing plastics or fiberglass plumbing fixtures. Examples of products made by these establishments are plastics or fiberglass bathtubs, hot tubs, portable toilets, and shower stalls.

326192 Resilient Floor Covering Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing resilient floor coverings for permanent installation.

326199 All Other Plastics Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing plastics products (except film, sheet, bags, profile shapes, pipes, pipe fittings, laminates, foam products, bottles, plumbing fixtures, and resilient floor coverings).

3262 RUBBER PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in processing natural, and synthetic or reclaimed rubber materials into intermediate or final products using processes such as vulcanizing, cementing, molding, extruding, and lathe-cutting.

32621 TIRE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing tires and inner tubes from natural and synthetic rubber and retreading or rebuilding tires.

32621M TIRE MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 326211 Tire Manufacturing (except Retreading) and
2. 326212 Tire Retreading.

326211 Tire Manufacturing (except Retreading)

This U.S. industry comprises establishments primarily engaged in manufacturing tires and inner tubes from natural and synthetic rubber.

326212 Tire Retreading

This U.S. industry comprises establishments primarily engaged in retreading or rebuilding tires.

32622 RUBBER AND PLASTICS HOSES AND BELTING MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing rubber hose and/or plastics (reinforced) hose and belting from natural and synthetic rubber and/or plastics resins. Establishments manufacturing garden hoses from purchased hose are included in this industry.

326220 RUBBER AND PLASTICS HOSES AND BELTING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing rubber hose and/or plastics (reinforced) hose and belting from natural and synthetic rubber and/or plastics resins. Establishments manufacturing garden hoses from purchased hose are included in this industry.

32629 OTHER RUBBER PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing rubber products (except tires, hoses, and belting) from natural and synthetic rubber.

32629M OTHER RUBBER PRODUCT MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 326291 Rubber Product Manufacturing for Mechanical Use and
2. 326299 All Other Rubber Product Manufacturing.

326291 Rubber Product Manufacturing for Mechanical Use

This U.S. industry comprises establishments primarily engaged in molding, extruding, or lathe-cutting rubber to manufacture rubber goods (except tubing) for mechanical applications. Products of this industry are generally parts for motor vehicles, machinery, and equipment.

326299 All Other Rubber Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing rubber products (except tires; hoses and belting; and molded, extruded, and lathe-cut rubber goods for mechanical applications) from natural and synthetic rubber.

327 NONMETALLIC MINERAL PRODUCT MANUFACTURING

The Nonmetallic Mineral Product Manufacturing subsector transforms mined or quarried nonmetallic minerals, such as sand, gravel, stone, clay, and refractory materials, into products for intermediate or final consumption. Processes used include grinding, mixing, cutting, shaping, and honing. Heat often is used in the process and chemicals are frequently mixed to change the composition, purity, and chemical properties for the intended product. For example, glass is produced by heating silica sand to the melting point (sometimes combined with cullet or recycled glass) and then drawn, floated, or blow molded to the desired shape or thickness. Refractory materials are heated and then formed into bricks or other shapes for use in industrial applications. The Nonmetallic Mineral Product Manufacturing subsector includes establishments that manufacture products, such as bricks, refractories, ceramic products, and glass and glass products, such as plate glass and containers. Also included are cement and concrete products, lime, gypsum and other nonmetallic mineral products including abrasive products, ceramic plumbing fixtures, statuary, cut stone products, and mineral wool. The products are used in a wide range of activities from construction and heavy and light manufacturing to articles for personal use.

Mining, beneficiating, and manufacturing activities often occur in a single location. Separate receipts will be collected for these activities whenever possible. When receipts cannot be broken out between mining and manufacturing, establishments that mine or quarry nonmetallic minerals, beneficiate the nonmetallic minerals and further process the nonmetallic minerals into a more finished manufactured product are classified based on the primary activity of the establishment. A mine that manufactures a small amount of finished products will be classified in Sector 21, Mining. An establishment that mines whose primary output is a more-finished manufactured product will be classified in the Manufacturing Sector.

Excluded from the Nonmetallic Mineral Product Manufacturing subsector are establishments that primarily beneficiate mined nonmetallic minerals. Beneficiation is the process whereby the extracted material is reduced to particles that can be separated into mineral and waste, the former suitable for further processing or direct use. Beneficiation establishments are included in Sector 21, Mining.

3271 CLAY PRODUCT AND REFRACTORY MANUFACTURING

This industry group comprises establishments primarily engaged in shaping, molding, glazing, and firing pottery, ceramics, and plumbing fixtures made entirely or partly of clay or other ceramic materials and/or shaping, molding, baking, burning, or hardening clay refractories, non-clay refractories, ceramic tile, structural clay tile, brick, and other structural clay building materials.

32711 POTTERY, CERAMICS, AND PLUMBING FIXTURE MANUFACTURING

This industry comprises establishments primarily engaged in shaping, molding, glazing, and firing pottery, ceramics, and plumbing fixtures made entirely or partly of clay or other ceramic materials.

327111 VITREOUS CHINA PLUMBING FIXTURE AND CHINA AND EARTHENWARE BATHROOM ACCESSORIES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing vitreous china plumbing fixtures and china and earthenware bathroom accessories, such as faucet handles, towel bars, and soap dishes.

327112 VITREOUS CHINA, FINE EARTHENWARE, AND OTHER POTTERY PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing table and kitchen articles, art and ornamental items, and similar vitreous china, fine earthenware, stoneware, coarse earthenware, and pottery products.

327113 PORCELAIN ELECTRICAL SUPPLY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing porcelain electrical insulators, molded porcelain parts for electrical devices, ferrite or ceramic magnets, and electronic and electrical supplies from nonmetallic minerals, such as clay and ceramic materials.

32712 CLAY BUILDING MATERIAL AND REFRACTORIES MANUFACTURING

This industry comprises establishments primarily engaged in shaping, molding, baking, burning, or hardening clay refractories, nonclay refractories, ceramic tile, structural clay tile, brick, and other structural clay building materials.

327121 BRICK AND STRUCTURAL CLAY TILE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing brick and structural clay tiles.

327122 CERAMIC WALL AND FLOOR TILE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ceramic wall and floor tiles.

327123 OTHER STRUCTURAL CLAY PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing clay sewer pipe, drain tile, flue lining tile, architectural terra-cotta, and other structural clay products.

32712N REFRACTORY MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 327124 Clay Refractory Manufacturing and
2. 327125 Nonclay Refractory Manufacturing.

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.

327125 Nonclay Refractory Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonclay refractory, mortar, brick, block, tile, and fabricated nonclay refractories such as graphite, magnesite, silica, or alumina crucibles. A refractory is a material that will retain its shape and chemical identity when subjected to high temperatures and is used in applications that require extreme resistance to heat, such as furnace linings.

3272 GLASS AND GLASS PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing glass and/or glass products. Establishments in this industry may manufacture glass and/or glass products by melting silica sand or cullet, or purchasing glass.

32721 GLASS AND GLASS PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing glass and/or glass products. Establishments in this industry may manufacture glass and/or glass products by melting silica sand or cullet, or purchasing glass.

327211 FLAT GLASS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. flat glass by melting silica sand or cullet, or
2. both flat glass and laminated glass by melting silica sand or cullet.

327212 OTHER PRESSED AND BLOWN GLASS AND GLASSWARE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing glass by melting silica sand or cullet and making pressed, blown, or shaped glass or glassware (except glass packaging containers).

327213 GLASS CONTAINER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing glass packaging containers.

327215 GLASS PRODUCT MANUFACTURING MADE OF PURCHASED GLASS

This U.S. industry comprises establishments primarily engaged in coating, laminating, tempering, or shaping purchased glass.

3273 CEMENT AND CONCRETE PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. cement;
2. ready-mix concrete;
3. concrete pipe, brick, and block; and/or
4. other concrete products.

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.

32732 READY-MIX CONCRETE MANUFACTURING

This industry comprises establishments, such as batch plants or mix plants, primarily engaged in manufacturing concrete delivered to a purchaser in a plastic and unhardened state. Ready-mix concrete manufacturing establishments may mine, quarry, or purchase sand and gravel.

327320 READY-MIX CONCRETE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing concrete delivered to a purchaser, such as batch plants or mix plants, in a plastic and unhardened state. Ready-mix concrete manufacturing establishments may mine, quarry, or purchase sand and gravel.

32733 CONCRETE PIPE, BRICK, AND BLOCK MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing concrete pipe, brick, and block.

32733M CONCRETE PIPE, BRICK, AND BLOCK MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 327331 Concrete Block and Brick Manufacturing and
2. 327332 Concrete Pipe Manufacturing.

327331 Concrete Block and Brick Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing concrete block and brick.

327332 Concrete Pipe Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing concrete pipe.

32739 OTHER CONCRETE PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing concrete products (except block, brick, and pipe).

327390 OTHER CONCRETE PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing concrete products (except block, brick, and pipe).

3274 LIME AND GYPSUM PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing lime from calcitic limestone, dolomitic limestone, or other calcareous materials, such as coral, chalk, and shells and/or gypsum products such as wallboard, plaster, plasterboard, molding, ornamental moldings, statuary, and architectural plaster work.

32741 LIME MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing lime from calcitic limestone, dolomitic limestone, or other calcareous materials, such as coral, chalk, and shells. Lime manufacturing establishments may mine, quarry, collect, or purchase the sources of calcium carbonate.

327410 LIME MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing lime from calcitic limestone, dolomitic limestone, or other calcareous materials, such as coral, chalk, and shells. Lime manufacturing establishments may mine, quarry, collect, or purchase the sources of calcium carbonate.

32742 GYPSUM PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing gypsum products such as wallboard, plaster, plasterboard, molding, ornamental moldings, statuary, and architectural plaster work. Gypsum product manufacturing establishments may mine, quarry, or purchase gypsum.

327420 GYPSUM PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing gypsum products such as wallboard, plaster, plasterboard, molding, ornamental moldings, statuary, and architectural plaster work. Gypsum product manufacturing establishments may mine, quarry, or purchase gypsum.

3279 OTHER NONMETALLIC MINERAL PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing nonmetallic mineral products (except clay products, refractory products, glass products, cement and concrete products, lime, and gypsum products).

32791 ABRASIVE PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, abrasive-coated products, and other abrasive products.

327910 ABRASIVE PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, abrasive-coated products, and other abrasive products.

32799 ALL OTHER NONMETALLIC MINERAL PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing nonmetallic mineral products (except pottery, ceramics, and plumbing fixtures; clay building materials and refractories; glass and glass products; cement; ready-mix concrete; concrete products; lime; gypsum products; and abrasive products).

327991 CUT STONE AND STONE PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in cutting, shaping, and finishing granite, marble, limestone, slate, and other stone for building and miscellaneous uses. Stone product manufacturing establishments may mine, quarry, or purchase stone.

327992 GROUND OR TREATED MINERAL AND EARTH MANUFACTURING

This U.S. industry comprises establishments primarily engaged in calcining, dead burning, or otherwise processing beyond beneficiation, clays, ceramic and refractory minerals, barite, and miscellaneous nonmetallic minerals.

327993 MINERAL WOOL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing mineral wool and mineral wool (i.e., fiberglass) insulation products made of such siliceous materials as rock, slag, and glass or combinations thereof.

327999 ALL OTHER MISCELLANEOUS NONMETALLIC MINERAL PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonmetallic mineral products (except pottery, ceramics, and plumbing fixtures; clay building materials and refractories; glass and glass products; cement; ready-mix concrete; concrete products; lime; gypsum products; abrasive products; cut stone and stone products; ground and treated minerals and earth; and mineral wool).

331 PRIMARY METAL MANUFACTURING

Industries in the Primary Metal Manufacturing subsector smelt and/or refine ferrous and nonferrous metals from ore, pig or scrap, using electrometallurgical and other process metallurgical techniques. Establishments in this subsector also manufacture metal alloys and superalloys by introducing other chemical elements to pure metals. The output of smelting and refining, usually in ingot form, is used in rolling, drawing, and extruding operations to make sheet, strip, bar, rod, or wire, and in molten form to make castings and other basic metal products.

Primary manufacturing of ferrous and nonferrous metals begins with ore or concentrate as the primary input. Establishments manufacturing primary metals from ore and/or concentrate remain classified in the primary smelting, primary refining, or iron and steel mill industries regardless of the form of their output. Establishments primarily engaged in secondary smelting and/or secondary refining recover ferrous and nonferrous metals from scrap and/or dross. The output of the

secondary smelting and/or secondary refining industries is limited to shapes, such as ingot or billet, that will be further processed. Recovery of metals from scrap often occurs in establishments that are primarily engaged in activities, such as rolling, drawing, extruding, or similar processes.

Excluded from the Primary Metal Manufacturing subsector are establishments primarily engaged in manufacturing ferrous and nonferrous forgings (except ferrous forgings made in steel mills) and stampings. Although forging, stamping, and casting are all methods used to make metal shapes, forging and stamping do not use molten metals and are included in Subsector 332, Fabricated Metal Product Manufacturing. Establishments primarily engaged in operating coke ovens are classified in Industry 32419, Other Petroleum and Coal Products Manufacturing.

3311 IRON AND STEEL MILLS AND FERROALLOY MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. direct reduction of iron ore;
2. pig iron in molten or solid form;
3. converting pig iron into steel;
4. ferroalloys;
5. making steel;
6. making steel and shapes (e.g., bar, plate, rod, sheet, strip, and wire); and
7. making steel and forming pipe and tube.

33111 IRON AND STEEL MILLS AND FERROALLOY MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. direct reduction of iron ore;
2. pig iron in molten or solid form;
3. converting pig iron into steel;
4. ferroalloys;
5. making steel;
6. making steel and shapes (e.g., bar, plate, rod, sheet, strip, and wire); and
7. making steel and forming pipe and tube.

33111M IRON AND STEEL MILLS AND FERROALLOY MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 331111 Iron and Steel Mills and
2. 331112 Electrometallurgical Ferroalloy Product Manufacturing.

331111 Iron and Steel Mills

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. direct reduction of iron ore;
2. pig iron in molten or solid form;
3. converting pig iron into steel;

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4. making steel;
 5. making steel and shapes (e.g., bar, plate, rod, sheet, strip, wire); and
 6. making steel and forming tube and pipe.

331112 Electrometallurgical Ferroalloy Product Manufacturing

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

3312 STEEL PRODUCT MANUFACTURING FROM PURCHASED STEEL

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

33121 IRON AND STEEL PIPE AND TUBE MANUFACTURING FROM PURCHASED STEEL

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

331210 IRON AND STEEL PIPE AND TUBE MANUFACTURING FROM PURCHASED STEEL

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

33122 ROLLING AND DRAWING OF PURCHASED STEEL

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

33122M ROLLING AND DRAWING OF PURCHASED STEEL

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 331221 Rolled Steel Shape Manufacturing and
2. 331222 Steel Wire Drawing.

331221 Rolled Steel Shape Manufacturing

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

331222 Steel Wire Drawing

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

3313 ALUMINA AND ALUMINUM PRODUCTION AND PROCESSING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

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

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5. aluminum primary forms (e.g., bar, foil, pipe, plate, rod, sheet, tube, and wire).

33131 ALUMINA AND ALUMINUM PRODUCTION AND PROCESSING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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. aluminum primary forms (e.g., bar, foil, pipe, plate, rod, sheet, tube, and wire).

331311 ALUMINA REFINING

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

331312 PRIMARY ALUMINUM PRODUCTION

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. making aluminum from alumina and/or
2. making aluminum from alumina and rolling, drawing, extruding, or casting the aluminum they make into primary forms (e.g., bar, billet, ingot, plate, rod, sheet, and strip).

Establishments in this industry may make primary aluminum or aluminum-based alloys from alumina.

331314 SECONDARY SMELTING AND ALLOYING OF ALUMINUM

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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. alloys, powder, paste, or flake from purchased aluminum.

331316 ALUMINUM EXTRUDED PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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.

33131N ALUMINUM ROLLING AND DRAWING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 331315 Aluminum Sheet, Plate, and Foil Manufacturing and
2. 331319 Other Aluminum Rolling and Drawing.

331315 Aluminum Sheet, Plate, and Foil Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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.

331319 Other Aluminum Rolling and Drawing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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.

3314 NONFERROUS METAL (EXCEPT ALUMINUM) PRODUCTION AND PROCESSING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. smelting and refining nonferrous metal (except aluminum);
2. rolling, drawing, extruding, and alloying copper; and/or
3. rolling, drawing, extruding, and alloying nonferrous metals (except copper and aluminum).

33141 NONFERROUS METAL (EXCEPT ALUMINUM) SMELTING AND REFINING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. smelting ores into nonferrous metals and/or
2. the primary refining of nonferrous metals (except aluminum) using electrolytic or other processes.

331411 PRIMARY SMELTING AND REFINING OF COPPER

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. smelting copper ore and/or
2. the primary refining of copper by electrolytic methods or other processes.

Establishments in this industry make primary copper and copper-based alloys, such as brass and bronze, from ore or concentrates.

331419 PRIMARY SMELTING AND REFINING OF NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM)

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. making (primary production) nonferrous metals by smelting ore and/or
2. the primary refining of nonferrous metals by electrolytic methods or other processes.

33142 COPPER ROLLING, DRAWING, EXTRUDING, AND ALLOYING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. recovering copper or copper alloys from scraps;
2. alloying purchased copper;
3. rolling, drawing, or extruding shapes, (e.g., bar, plate, sheet, strip, tube, wire) from purchased copper; and
4. recovering copper or copper alloys from scrap and rolling drawing, or extruding shapes (e.g., bar, plate, sheet, strip, tube, wire).

33142M COPPER ROLLING, DRAWING, EXTRUDING, AND ALLOYING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 331421 Copper Rolling, Drawing, and Extruding;
2. 331422 Copper Wire (except Mechanical) Drawing; and
3. 331423 Secondary Smelting, Refining, and Alloying of Copper.

331421 Copper Rolling, Drawing, and Extruding

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, and tube (except bare or insulated copper communication or energy wire)) from purchased copper and/or
2. recovering copper from scrap and rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, and tube (except bare or insulated copper communication or energy wire)) in integrated mills.

331422 Copper Wire (except Mechanical) Drawing

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

331423 Secondary Smelting, Refining, and Alloying of Copper

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. recovering copper and copper alloys from scrap and/or
2. alloying purchased copper.

Establishments in this industry make primary forms, such as ingot, wire bar, cake, and slab from copper or copper alloys, such as brass and bronze.

33149 NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM) ROLLING, DRAWING, EXTRUDING, AND ALLOYING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. recovering nonferrous metals (except copper and aluminum) and nonferrous metal alloys from scrap;
2. alloying purchased nonferrous metals (except copper and aluminum);

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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.

33149M NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM) ROLLING, DRAWING, EXTRUDING, AND ALLOYING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 331491 Nonferrous Metal (except Copper and Aluminum) Rolling, Drawing, and Extruding and
2. 331492 Secondary Smelting, Refining, and Alloying of Nonferrous Metal (except Copper and Aluminum).

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

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, and tube) from purchased nonferrous metals and/or
2. recovering nonferrous metals from scrap and rolling, drawing, and/or extruding shapes (e.g., bar, plate, sheet, strip, and tube) in integrated mills.

331492 Secondary Smelting, Refining, and Alloying of Nonferrous Metal (except Copper and Aluminum)

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. alloying purchased nonferrous metals and/or
2. recovering nonferrous metals from scrap.

Establishments in this industry make primary forms (e.g., bar, billet, bloom, cake, ingot, slab, slug, and wire) using smelting or refining processes.

3315 FOUNDRIES

This industry group comprises establishments primarily engaged in pouring molten metal into molds or dies to form castings. Establishments making castings and further manufacturing, such as machining or assembling, a specific manufactured product are classified in the industry of the finished product. Foundries may perform operations, such as cleaning and deburring, on the castings they manufacture. More involved processes, such as tapping, threading, milling, or machining to tight tolerances, that transform castings into more finished products are classified elsewhere in the manufacturing sector based on the product being made.

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 made castings. Establishments in this industry purchase iron and steel made in other establishments.

33151M FERROUS METAL FOUNDRIES

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 331511 Iron Foundries;
2. 331512 Steel Investment Foundries; and
3. 331513 Steel Foundries (except Investment).

331511 Iron Foundries

This U.S. industry comprises establishments primarily engaged in pouring molten pig iron or iron alloys into molds to manufacture castings (e.g., cast iron manhole covers, cast iron pipe, cast iron skillets). Establishments in this industry purchase iron made in other establishments.

331512 Steel Investment Foundries

This U.S. industry comprises establishments primarily engaged in manufacturing steel investment castings. Investment molds are formed by covering a wax shape with a refractory slurry. After the refractory slurry hardens, the wax is melted, leaving a seamless mold. Investment molds provide highly detailed, consistent castings. Establishments in this industry purchase steel made in other establishments.

331513 Steel Foundries (except Investment)

This U.S. industry comprises establishments primarily engaged in manufacturing steel castings (except steel investment castings). Establishments in this industry purchase steel made in other establishments.

33152 NONFERROUS METAL FOUNDRIES

This industry comprises establishments primarily engaged in pouring and/or introducing molten nonferrous metal, under high pressure, into metal molds or dies to manufacture castings. Establishments in this industry purchase nonferrous metals made in other establishments.

33152N ALUMINUM FOUNDRIES

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 331521 Aluminum Die-Casting Foundries and
2. 331524 Aluminum Foundries (except Die-Casting).

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.

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.

33152P FOUNDRIES NOT ALUMINUM

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 331522 Nonferrous (except Aluminum) Die-Casting Foundries;

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2. 331525 Copper Foundries (except Die-Casting); and
 3. 331528 Other Nonferrous Foundries (except Die-Casting).

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.

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.

331528 Other Nonferrous Foundries (except Die-Casting)

This U.S. industry comprises establishments primarily engaged in pouring molten nonferrous metals (except aluminum and copper) into molds to manufacture nonferrous castings (except aluminum die-castings, nonferrous (except aluminum) die-castings, aluminum castings, and copper castings). Establishments in this industry purchase nonferrous metals, such as nickel, lead, and zinc, made in other establishments.

332 FABRICATED METAL PRODUCT MANUFACTURING

Industries in the Fabricated Metal Product Manufacturing subsector transform metal into intermediate or end products, other than machinery, computers and electronics, and metal furniture or treating metals and metal formed products fabricated elsewhere. Important fabricated metal processes are forging, stamping, bending, forming, and machining, used to shape individual pieces of metal; and other processes, such as welding and assembling, used to join separate parts together. Establishments in this subsector may use one of these processes or a combination of these processes.

The North American Industry Classification System (NAICS) structure for this subsector distinguishes the forging and stamping processes in a single industry. The remaining industries, in the subsector, group establishments based on similar combinations of processes used to make products.

The manufacturing performed in the Fabricated Metal Product Manufacturing subsector begins with manufactured metal shapes. The establishments in this sector further fabricate the purchased metal shapes into a product. For instance, the Spring and Wire Product Manufacturing industry starts with wire and fabricates such items.

Within manufacturing there are other establishments that make the same products made by this subsector; only these establishments begin production further back in the production process. These establishments have a more integrated operation. For instance, one establishment may manufacture steel, draw it into wire, and make wire products in the same establishment. Such operations are classified in the Primary Metal Manufacturing subsector.

3321 FORGING AND STAMPING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. forgings from purchased metals;
2. metal custom roll forming products;
3. metal stamped and spun products (except automotive, cans, and coins); and
4. powder metallurgy products.

Establishments making metal forgings, metal stampings, and metal spun products and further manufacturing (e.g., machining and assembling) a specific manufactured product are classified in the industry of the finished product. Metal forging, metal stamping, and metal spun products establishments may perform surface finishing operations, such as cleaning and deburring, on the products they manufacture.

33211 FORGING AND STAMPING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. forgings from purchased metals;
2. metal custom roll forming products;
3. metal stamped and spun products (except automotive, cans, and coins); and
4. powder metallurgy products.

Establishments making metal forgings, metal stampings, and metal spun products and further manufacturing (e.g., machining and assembling) a specific manufactured product are classified in the industry of the finished product. Metal forging, metal stamping, and metal spun products establishments may perform surface finishing operations, such as cleaning and deburring, on the products they manufacture.

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.

332117 POWDER METALLURGY PART MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing powder metallurgy products by compacting them in a shaped die and sintering. Establishments in this industry generally make a wide range of parts on a job or order basis.

33211N FORGING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 332111 Iron and Steel Forging and
2. 332112 Nonferrous Forging.

332111 Iron and Steel Forging

This U.S. industry comprises establishments primarily engaged in manufacturing iron and steel forgings from purchased iron and steel by hammering mill shapes. Establishments making iron and steel forgings and further manufacturing (e.g., machining, assembling) a specific manufactured product are classified in the industry of the finished product. Iron and steel forging establishments may perform surface finishing operations, such as cleaning and deburring, on the forgings they manufacture.

332112 Nonferrous Forging

This U.S. industry comprises establishments primarily engaged in manufacturing nonferrous forgings from purchased nonferrous metals by hammering mill shapes. Establishments making nonferrous forgings and further manufacturing (e.g., machining, assembling) a specific manufactured product are classified in the industry of the finished product. Nonferrous forging establishments may perform surface finishing operations, such as cleaning and deburring, on the forgings they manufacture.

33211P CROWN, CLOSURE, AND METAL STAMPING MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 332115 Crown and Closure Manufacturing and
2. 332116 Metal Stamping.

332115 Crown and Closure Manufacturing

This U.S. industry comprises establishments primarily engaged in stamping metal crowns and closures, such as bottle caps and home canning lids and rings.

332116 Metal Stamping

This U.S. industry comprises establishments primarily engaged in manufacturing unfinished metal stampings and spinning unfinished metal products (except crowns, cans, closures, automotive, and coins). Establishments making metal stampings and metal spun products and further manufacturing (e.g., machining, assembling) a specific product are classified in the industry of the finished product. Metal stamping and metal spun products establishments may perform surface finishing operations, such as cleaning and deburring, on the products they manufacture.

3322 CUTLERY AND HANDTOOL MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. nonprecious and precious plated metal cutlery and flatware;
2. nonpowered hand and edge tools;
3. nonpowered handsaws;
4. saw blades, all types (including those for sawing machines); and
5. metal kitchen utensils (except cutting-type) and pots and pans (except those manufactured by casting (e.g., cast iron skillets) or stamped without further fabrication).

33221 CUTLERY AND HANDTOOL MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. nonprecious and precious plated metal cutlery and flatware;
2. nonpowered hand and edge tools;
3. nonpowered handsaws;
4. saw blades, all types (including those for sawing machines); and
5. 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).

33221N CUTLERY, KITCHEN UTENSIL, POT, AND PAN MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 332211 Cutlery and Flatware (except Precious) Manufacturing and
2. 332214 Kitchen Utensil, Pot, and Pan Manufacturing.

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.

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).

33221P HAND TOOL AND SAW BLADE MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 332212 Hand and Edge Tool Manufacturing and
2. 332213 Saw Blade and Handsaw Manufacturing.

332212 Hand and Edge Tool Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonpowered hand and edge tools (except saws).

332213 Saw Blade and Handsaw Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. nonpowered handsaws and/or
2. saw blades, all types (including those for power sawing machines).

3323 ARCHITECTURAL AND STRUCTURAL METALS MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. plate work and fabricated structural products and
2. ornamental and architectural metal products.

33231 PLATE WORK AND FABRICATED STRUCTURAL PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. prefabricated metal buildings, panels and sections;
2. structural metal products; and
3. metal plate work products.

33231M PLATE WORK AND FABRICATED STRUCTURAL PRODUCT MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 332311 Prefabricated Metal Building and Component Manufacturing;
2. 332312 Fabricated Structural Metal Manufacturing; and
3. 332313 Plate Work Manufacturing.

332311 Prefabricated Metal Building and Component Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing prefabricated metal buildings, panels, and sections.

332312 Fabricated Structural Metal Manufacturing

This U.S. industry comprises establishments primarily engaged in fabricating structural metal products, such as concrete reinforcing bars and fabricated bar joists.

332313 Plate Work Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated metal plate work by cutting, punching, bending, shaping, and welding purchased metal plate.

33232 ORNAMENTAL AND ARCHITECTURAL METAL PRODUCTS MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. metal framed windows (i.e., typically using purchased glass) and metal doors;
2. sheet metal work; and
3. ornamental and architectural metal products.

33232M ORNAMENTAL AND ARCHITECTURAL METAL WORK MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 332321 Metal Window and Door Manufacturing;
2. 332322 Sheet Metal Work Manufacturing; and
3. 332323 Ornamental and Architectural Metal Work Manufacturing.

332321 Metal Window and Door Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal framed windows (typically using purchased glass) and metal doors. Examples of products made by these establishments are: metal door frames; metal framed window and door screens; and metal molding and trim (except automotive).

332322 Sheet Metal Work Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing sheet metal work (except stampings).

332323 Ornamental and Architectural Metal Work Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing ornamental and architectural metal work, such as staircases, metal open steel flooring, fire escapes, railings, and scaffolding.

3324 BOILER, TANK, AND SHIPPING CONTAINER MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. power boilers and heat exchangers;
2. metal tanks (heavy gauge); and
3. metal cans, boxes, and other metal containers (light gauge).

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.

33242 METAL TANK (HEAVY GAUGE) MANUFACTURING

This industry comprises establishments primarily engaged in cutting, forming, and joining heavy gauge metal to manufacture tanks, vessels, and other containers.

332420 METAL TANK (HEAVY GAUGE) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in cutting, forming, and joining heavy gauge metal to manufacture tanks, vessels, and other containers.

33243 METAL CAN, BOX, AND OTHER METAL CONTAINER (LIGHT GAUGE) MANUFACTURING

This industry comprises establishments primarily engaged in forming light gauge metal containers.

33243M METAL CAN, BOX, AND OTHER METAL CONTAINER (LIGHT GAUGE) MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 332431 Metal Can Manufacturing and
2. 332439 Other Metal Container Manufacturing.

332431 Metal Can Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal cans, lids, and ends.

332439 Other Metal Container Manufacturing

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

3325 HARDWARE MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing metal hardware, such as metal hinges, metal handles, keys, and locks (except coin-operated and time locks).

33251 HARDWARE MANUFACTURING

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

332510 HARDWARE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal hardware, such as metal hinges, metal handles, keys, and locks (except coin-operated and time locks).

3326 SPRING AND WIRE PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. steel springs by forming, such as cutting, bending, and heat winding, metal rod or strip stock, and/or
2. wire springs and fabricated wire products from wire drawn elsewhere (except watch and clock springs).

33261 SPRING AND WIRE PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. steel springs by forming, such as cutting, bending, and heat winding, metal rod or strip stock, and/or
2. wire springs and fabricated wire products from wire drawn elsewhere (except watch and clock springs).

33261M SPRING AND WIRE PRODUCT MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 332611 Spring (Heavy Gauge) Manufacturing;
2. 332612 Spring (Light Gauge) Manufacturing; and
3. 332618 Other Fabricated Wire Product Manufacturing.

332611 Spring (Heavy Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing heavy gauge springs by forming, such as cutting, bending, and heat winding, rod or strip stock.

332612 Spring (Light Gauge) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing light gauge springs from purchased wire or strip.

332618 Other Fabricated Wire Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated wire products (except springs) made from purchased wire.

3327 MACHINE SHOPS; TURNED PRODUCT; AND SCREW, NUT, AND BOLT MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. machine shops and/or
2. turned products and screws, nuts, and bolts.

33271 MACHINE SHOPS

This industry comprises establishments primarily engaged in machining metal parts on a job or order basis (known as machine shops). Generally machine shop jobs are low volume using machine tools, such as lathes (including computer numerically controlled); automatic screw machines; and machines for boring, grinding, and milling.

332710 MACHINE SHOPS

This U.S. industry comprises establishments primarily engaged in machining metal parts on a job or order basis (known as machine shops). Generally machine shop jobs are low volume using machine tools, such as lathes (including computer numerically controlled); automatic screw machines; and machines for boring, grinding, and milling.

33272 TURNED PRODUCT AND SCREW, NUT, AND BOLT MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. precision turned products or
2. metal bolts, nuts, screws, rivets, and other industrial fasteners.

Included in this industry are establishments primarily engaged in manufacturing parts for machinery and equipment on a customized basis.

332721 PRECISION TURNED PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in machining precision products of all materials on a job or order basis (known as precision turned manufacturers). Generally precision turned product jobs are large volume using machines, such as automatic screw machines, rotary transfer machines, computer numerically controlled (CNC) lathes, or turning centers.

332722 BOLT, NUT, SCREW, RIVET, AND WASHER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal bolts, nuts, screws, rivets, washers, and other industrial fasteners using machines, such as headers, threaders, and nut forming machines.

3328 COATING, ENGRAVING, HEAT TREATING, AND ALLIED ACTIVITIES

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. heat treating metals and metal products;
2. enameling, lacquering, and varnishing metals and metal products;
3. hot dip galvanizing metals and metal products;
4. engraving, chasing, or etching metals and metal products (except jewelry; personal goods carried on or about the person, such as compacts and cigarette cases; precious metal products (except precious plated flatware and other plated ware); and printing plates);
5. powder coating metals and metal products;
6. electroplating, plating, anodizing, coloring, and finishing metals and metal products; and
7. providing other metal surfacing services for the trade.

Included in this industry are establishments that coat engravings and heat treat metals and metal formed products fabricated elsewhere.

33281 COATING, ENGRAVING, HEAT TREATING, AND ALLIED ACTIVITIES

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. heat treating metals and metal products;
2. enameling, lacquering, and varnishing metals and metal products;
3. hot dip galvanizing metals and metal products;

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4. engraving, chasing, or etching metals and metal products (except jewelry; personal goods carried on or about the person, such as compacts and cigarette cases; precious metal products (except precious plated flatware and other plated ware); and printing plates);
 5. powder coating metals and metal products;
 6. electroplating, plating, anodizing, coloring, and finishing metals and metal products; and
 7. providing other metal surfacing services for the trade.

Included in this industry are establishments that coat engravings and heat treat metals and metal formed products fabricated elsewhere.

33281M COATING, ENGRAVING, HEAT TREATING, AND ALLIED ACTIVITIES

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 332811 Metal Heat Treating;
2. 332812 Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers; and
3. 332813 Electroplating, Plating, Polishing, Anodizing, and Coloring.

332811 Metal Heat Treating

This U.S. industry comprises establishments primarily engaged in heat treating, such as annealing, tempering, and brazing, metals and metal products for the trade.

332812 Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

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.

332813 Electroplating, Plating, Polishing, Anodizing, and Coloring

This U.S. industry comprises establishments primarily engaged in electroplating, plating, anodizing, coloring, buffing, polishing, cleaning, and sandblasting metals and metal products for the trade.

3329 OTHER FABRICATED METAL PRODUCT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metals, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, and nuts and bolts).

33291 METAL VALVE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing one or more of the following metal valves:

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1. industrial valves;
 2. fluid power valves and hose fittings;
 3. plumbing fixture fittings and trim; and
 4. other metal valves and pipe fittings.

332913 PLUMBING FIXTURE FITTING AND TRIM MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal and plastics plumbing fixture fittings and trim, such as faucets, flush valves, and shower heads.

33291N VALVE AND FITTING (EXCEPT PLUMBING) MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 332911 Industrial Valve Manufacturing;
2. 332912 Fluid Power Valve and Hose Fitting Manufacturing; and
3. 332919 Other Metal Valve and Pipe Fitting Manufacturing.

332911 Industrial Valve Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial valves and valves for water works and municipal water systems.

332912 Fluid Power Valve and Hose Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fluid power valves and hose fittings.

332919 Other Metal Valve and Pipe Fitting Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal valves (except industrial valves, fluid power valves, fluid power hose fittings, and plumbing fixture fittings and trim).

33299 ALL OTHER FABRICATED METAL PRODUCT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metal products, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, nuts and bolts, and metal valves).

332991 BALL AND ROLLER BEARING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ball and roller bearings of all materials.

332992 SMALL ARMS AMMUNITION MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing small arms ammunition.

332993 AMMUNITION (EXCEPT SMALL ARMS) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ammunition (except small arms). Examples of products made by these establishments are bombs, depth charges, rockets (except guided missiles), grenades, mines, and torpedoes.

332994 SMALL ARMS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing small firearms that are carried and fired by the individual.

332995 OTHER ORDNANCE AND ACCESSORIES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ordnance (except small arms) and accessories.

332996 FABRICATED PIPE AND PIPE FITTING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in fabricating, such as cutting, threading, and bending metal pipes and pipe fittings made from purchased metal pipe.

33299N OTHER FABRICATED METAL PRODUCTS MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 332997 Industrial Pattern Manufacturing;
2. 332998 Enameled Iron and Metal Sanitary Ware Manufacturing; and
3. 332999 All Other Miscellaneous Fabricated Metal Product Manufacturing.

332997 Industrial Pattern Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial patterns.

332998 Enameled Iron and Metal Sanitary Ware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing enameled iron and metal sanitary ware.

332999 All Other Miscellaneous Fabricated Metal Product Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fabricated metal products (except forgings and stampings, cutlery and handtools, architectural and structural metals, boilers, tanks, shipping containers, hardware, spring and wire products, machine shop products, turned products, screws, nuts and bolts, metal valves, ball and roller bearings, ammunition, small arms and other ordnances, fabricated pipes and pipe fittings, industrial patterns, and enameled iron and metal sanitary ware).

333 MACHINERY MANUFACTURING

Industries in the Machinery Manufacturing subsector create end products that apply mechanical force, for example, the application of gears and levers, to perform work. Some important processes for the manufacture of machinery are forging, stamping, bending, forming, and machining that are used to shape individual pieces of metal. Processes, such as welding and assembling are used to join separate parts together. Although these processes are similar to those used in metal fabricating establishments, machinery manufacturing is different because it typically employs multiple metal forming processes in manufacturing the various parts of the machine. Moreover, complex assembly operations are an inherent part of the production process.

In general, design considerations are very important in machinery production. Establishments specialize in making machinery designed for particular applications. Thus, design is considered to be part of the production process for the purpose of implementing the North American Industry Classification System (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 industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. agricultural implements;
2. construction machinery; and
3. mining and oil and gas field machinery.

33311 AGRICULTURAL IMPLEMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing farm machinery and equipment, powered mowing equipment, and other powered home lawn and garden equipment.

333111 FARM MACHINERY AND EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing agricultural and farm machinery and equipment and other turf and grounds care equipment, including planting, harvesting, and grass mowing equipment (except lawn and garden-type).

333112 LAWN AND GARDEN TRACTOR AND HOME LAWN AND GARDEN EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing powered lawnmowers, lawn and garden tractors, and other home lawn and garden equipment, such as tillers, shredders, and yard vacuums and blowers.

33312 CONSTRUCTION MACHINERY MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing construction machinery, surface mining machinery, and logging equipment.

333120 CONSTRUCTION MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing construction machinery, surface mining machinery, and logging equipment.

33313 MINING AND OIL AND GAS FIELD MACHINERY MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing oil and gas field and underground mining machinery and equipment.

33313M MINING AND OIL AND GAS FIELD MACHINERY MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 333131 Mining Machinery and Equipment Manufacturing and
2. 333132 Oil and Gas Field Machinery and Equipment Manufacturing.

333131 Mining Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. underground mining machinery and equipment, such as coal breakers, mining cars, core drills, coal cutters, and rock drills and
2. mineral beneficiating machinery and equipment used in surface or underground mines.

333132 Oil and Gas Field Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. 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. water well drilling machinery.

3332 INDUSTRIAL MACHINERY MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. sawmill and woodworking machinery;
2. plastics and rubber industry machinery; and
3. other industrial machinery.

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.

33322 PLASTICS AND RUBBER INDUSTRY MACHINERY MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing plastics and rubber products making machinery, such as plastics compression, extrusion and injection molding machinery and equipment, and tire building and recapping machinery and equipment.

333220 PLASTICS AND RUBBER INDUSTRY MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing plastics and rubber products making machinery, such as plastics compression, extrusion and injection molding machinery and equipment, and tire building and recapping machinery and equipment.

33329 OTHER INDUSTRIAL MACHINERY MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing industrial machinery (except agricultural and farm-type, construction, mining, sawmill and woodworking, and plastics and rubber products making machinery).

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.

33329N OTHER MACHINERY MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 333291 Paper Industry Machinery Manufacturing;
2. 333292 Textile Machinery Manufacturing;
3. 333293 Printing Machinery and Equipment Manufacturing;
4. 333294 Food Product Machinery Manufacturing; and
5. 333298 All Other Industrial Machinery Manufacturing.

333291 Paper Industry Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing paper industry machinery for making paper and paper products, such as pulp making machinery, paper and paperboard making machinery, and paper and paperboard converting machinery.

333292 Textile Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing textile machinery for making thread, yarn, and fiber.

333293 Printing Machinery and Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing printing and bookbinding machinery and equipment, such as printing presses, typesetting machinery, and bindery machinery.

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).

333298 All Other Industrial Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing industrial machinery (except agricultural and farm-type, construction and mining machinery, sawmill and woodworking machinery, plastics and rubber making machinery, paper and paperboard making machinery, textile machinery, printing machinery and equipment, food manufacturing-type machinery, and semiconductor making machinery).

3333 COMMERCIAL AND SERVICE INDUSTRY MACHINERY MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing commercial and service machinery, such as automatic vending machinery, commercial laundry and dry-cleaning machinery, office machinery, photographic and photocopying machinery, optical instruments and machinery, automotive maintenance equipment (except mechanic's handtools), industrial vacuum cleaners, and commercial-type cooking equipment.

33331 COMMERCIAL AND SERVICE INDUSTRY MACHINERY MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing commercial and service machinery, such as automatic vending machinery, commercial laundry and dry-cleaning machinery, office machinery, photographic and photocopying machinery, optical instruments and machinery, automotive maintenance equipment (except mechanic's handtools), industrial vacuum cleaners, and commercial-type cooking equipment.

333313 OFFICE MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing office machinery (except computers and photocopying equipment), such as mailhandling machinery and equipment, calculators, typewriters, and dedicated word processing equipment.

333314 OPTICAL INSTRUMENT AND LENS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. optical instruments and lens, such as binoculars, microscopes (except electron and proton), telescopes, prisms, and lenses (except ophthalmic);
2. coating or polishing lenses (except ophthalmic); and
3. mounting lenses (except ophthalmic).

333315 PHOTOGRAPHIC AND PHOTOCOPYING EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing photographic and photocopying equipment, such as cameras (except television, video, and digital), projectors, film developing equipment, photocopying equipment, and microfilm equipment.

33331N ALL OTHER COMMERCIAL AND SERVICE INDUSTRY MACHINERY MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 333311 Automatic Vending Machine Manufacturing;
2. 333312 Commercial Laundry, Drycleaning, and Pressing Machine Manufacturing; and
3. 333319 Other Commercial and Service Industry Machinery Manufacturing.

333311 Automatic Vending Machine Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. coin, token, currency, or magnetic card operated vending machines; and/or
2. coin operated mechanism for machines, such as vending machines, lockers, and laundry machines.

333312 Commercial Laundry, Drycleaning, and Pressing Machine Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing commercial and industrial laundry and drycleaning equipment and pressing machines.

333319 Other Commercial and Service Industry Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing commercial and service industry equipment (except automatic vending machines, commercial laundry, drycleaning and pressing machines, office machinery, optical instruments and lenses, and photographic and photocopying equipment).

3334 VENTILATION, HEATING, AIR-CONDITIONING, AND COMMERCIAL REFRIGERATION EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing ventilation, heating, air-conditioning, and commercial and industrial refrigeration and freezer equipment.

33341 VENTILATION, HEATING, AIR-CONDITIONING, AND COMMERCIAL REFRIGERATION EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing ventilation, heating, air-conditioning, and commercial and industrial refrigeration and freezer equipment.

333414 HEATING EQUIPMENT (EXCEPT WARM AIR FURNACES) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing heating equipment (except electric and warm air furnaces), such as heating boilers, heating stoves, floor and wall furnaces, and wall and baseboard heating units.

333415 AIR-CONDITIONING AND WARM AIR HEATING EQUIPMENT AND COMMERCIAL AND INDUSTRIAL REFRIGERATION EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. air-conditioning (except motor vehicle) and warm air furnace equipment and/or
2. commercial and industrial refrigeration and freezer equipment.

33341N VENTILATION EQUIPMENT MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 333411 Air Purification Equipment Manufacturing and
2. 333412 Industrial and Commercial Fan and Blower Manufacturing.

333411 Air Purification Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing stationary air purification equipment, such as industrial dust and fume collection equipment, electrostatic precipitation equipment, warm air furnace filters, air washers, and other dust collection equipment.

333412 Industrial and Commercial Fan and Blower Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing attic fans and industrial and commercial fans and blowers, such as commercial exhaust fans and commercial ventilating fans.

3335 METALWORKING MACHINERY MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing metalworking machinery, such as metal cutting and metal forming machine tools; cutting tools; and accessories for metalworking machinery; special dies, tools, jigs, and fixtures; industrial molds; rolling mill machinery; assembly machinery; coil handling, conversion, or straightening equipment; and wire drawing and fabricating machines.

33351 METALWORKING MACHINERY MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing metalworking machinery, such as metal cutting and metal forming machine tools; cutting tools; and accessories for metalworking machinery; special dies, tools, jigs, and fixtures; industrial molds; rolling mill machinery; assembly machinery; coil handling, conversion, or straightening equipment; and wire drawing and fabricating machines.

333511 INDUSTRIAL MOLD MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing industrial molds for casting metals or forming other materials, such as plastics, glass, or rubber.

333512 MACHINE TOOL (METAL CUTTING TYPES) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal cutting machine tools (except handtools).

333513 MACHINE TOOL (METAL FORMING TYPES) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal forming machine tools (except handtools), such as punching, sheering, bending, forming, pressing, forging, and die-casting machines.

333514 SPECIAL DIE AND TOOL, DIE SET, JIG, AND FIXTURE MANUFACTURING

This U.S. industry comprises establishments, known as tool and die shops, primarily engaged in manufacturing special tools and fixtures, such as cutting dies and jigs.

333515 CUTTING TOOL AND MACHINE TOOL ACCESSORY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing accessories and attachments for metal cutting and metal forming machine tools.

333516 ROLLING MILL MACHINERY AND EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing rolling mill machinery and equipment for metal production.

333518 OTHER METALWORKING MACHINERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing metal working machinery (except industrial molds; metal cutting machine tools; metal forming machine tools; special dies and tools, die sets, jigs, and fixtures; cutting tools and machine tool accessories; and rolling mill machinery and equipment).

3336 ENGINE, TURBINE, AND POWER TRANSMISSION EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing turbines, power transmission equipment, and internal combustion engines (except automotive, gasoline, and aircraft).

33361 ENGINE, TURBINE, AND POWER TRANSMISSION EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing turbines, power transmission equipment, and internal combustion engines (except automotive, gasoline, and aircraft).

333611 TURBINE AND TURBINE GENERATOR SET UNITS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing turbines (except aircraft) and complete turbine generator set units, such as steam, hydraulic, gas, and wind.

333612 SPEED CHANGER, INDUSTRIAL HIGH-SPEED DRIVE, AND GEAR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing gears, speed changers, and industrial high-speed drives (except hydrostatic).

333613 MECHANICAL POWER TRANSMISSION EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing mechanical power transmission equipment (except motor vehicle and aircraft), such as plain bearings, clutches (except motor vehicle and electromagnetic industrial control), couplings, joints, and drive chains.

333618 OTHER ENGINE EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing internal combustion engines (except automotive gasoline and aircraft).

3339 OTHER GENERAL PURPOSE MACHINERY MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. pumps and compressors;
2. material handling equipment; and
3. all other general purpose machinery.

33391 PUMP AND COMPRESSOR MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing pumps and compressors, such as general purpose air and gas compressors, nonagricultural spraying and dusting equipment, general purpose pumps and pumping equipment (except fluid power pumps and motors), and measuring and dispensing pumps.

333911 PUMP AND PUMPING EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing general purpose pumps and pumping equipment (except fluid power pumps and motors), such as reciprocating pumps, turbine pumps, centrifugal pumps, rotary pumps, diaphragm pumps, domestic water system pumps, oil well and oil field pumps, and sump pumps.

333912 AIR AND GAS COMPRESSOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing general purpose air and gas compressors, such as reciprocating compressors, centrifugal compressors, vacuum pumps (except laboratory), and nonagricultural spraying and dusting compressors and spray gun units.

333913 MEASURING AND DISPENSING PUMP MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing measuring and dispensing pumps, such as gasoline pumps and lubricating oil measuring and dispensing pumps.

33392 MATERIAL HANDLING EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing material handling equipment, such as elevators and moving stairs; conveyors and conveying equipment; overhead traveling cranes, hoists, and monorail systems; and industrial trucks, tractors, trailers, and stacker machinery.

33392M MATERIAL HANDLING EQUIPMENT MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 333921 Elevator and Moving Stairway Manufacturing;

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2. 333922 Conveyor and Conveying Equipment Manufacturing;
 3. 333923 Overhead Traveling Crane, Hoist, and Monorail System Manufacturing; and
 4. 333924 Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing.

333921 Elevator and Moving Stairway Manufacturing

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

333922 Conveyor and Conveying Equipment Manufacturing

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

333923 Overhead Traveling Crane, Hoist, and Monorail System Manufacturing

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

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

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

33399 ALL OTHER GENERAL PURPOSE MACHINERY MANUFACTURING

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

333991 POWER-DRIVEN HANDTOOL MANUFACTURING

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

333993 PACKAGING MACHINERY MANUFACTURING

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

33399N FLUID POWER EQUIPMENT MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 333995 Fluid Power Cylinder and Actuator Manufacturing and
2. 333996 Fluid Power Pump and Motor Manufacturing.

333995 Fluid Power Cylinder and Actuator Manufacturing

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

333996 Fluid Power Pump and Motor Manufacturing

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

33399P ALL OTHER MISCELLANEOUS GENERAL PURPOSE MACHINERY MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 333992 Welding and Soldering Equipment Manufacturing;
2. 333997 Scale and Balance (except Laboratory) Manufacturing; and
3. 333999 All Other Miscellaneous General Purpose Machinery Manufacturing.

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).

333997 Scale and Balance (except Laboratory) Manufacturing

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

333999 All Other Miscellaneous General Purpose Machinery Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing general purpose machinery (except ventilating, heating, air-conditioning, and commercial refrigeration equipment; metal working machinery; engines, turbines, and power transmission equipment; pumps and compressors; material handling equipment; power-driven handtools; welding and soldering equipment; packaging machinery; industrial process furnaces and ovens; fluid power cylinders and actuators; fluid power pumps and motors; and scales and balances).

334 COMPUTER AND ELECTRONIC PRODUCT MANUFACTURING

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

and emerging industries because the activities that will serve as the probable sources of new industries, such as computer manufacturing and communications equipment manufacturing, or computers and audio equipment, are brought together. As new activities emerge, they are less likely, therefore, to cross the subsector boundaries of the classification.

3341 COMPUTER AND PERIPHERAL EQUIPMENT MANUFACTURING

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

1. store the processing program or programs and the data immediately necessary for the execution of the program;
2. can be freely programmed in accordance with the requirements of the user;
3. perform arithmetical computations specified by the user; and
4. execute, without human intervention, a processing program that requires the computer to modify its execution by logical decision during the processing run.

Analog computers are capable of simulating mathematical models and comprise at least analog, control, and programming elements.

33411 COMPUTER AND PERIPHERAL EQUIPMENT MANUFACTURING

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

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

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.

334113 COMPUTER TERMINAL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing computer terminals. Computer terminals are input/output devices that connect with a central computer for processing.

334119 OTHER COMPUTER PERIPHERAL EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing computer peripheral equipment (except storage devices and computer terminals).

3342 COMMUNICATIONS EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. telephone equipment;
2. radio and television broadcasting and wireless communications equipment; and
3. other communications equipment.

33421 TELEPHONE APPARATUS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing wire telephone and data communications equipment. These products may be standalone or board-level components of a larger system. Examples of products made by these establishments are central office switching equipment, cordless telephones (except cellular), PBX equipment, telephones, telephone answering machines, LAN modems, multi-user modems, and other data communications equipment, such as bridges, routers, and gateways.

334210 TELEPHONE APPARATUS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wire telephone and data communications equipment. These products may be stand-alone or board-level components of a larger system. Examples of products made by these establishments are central office switching equipment, cordless telephones (except cellular), PBX equipment, telephones, telephone answering machines, and data communications equipment, such as bridges, routers, and gateways.

33422 RADIO AND TELEVISION BROADCASTING AND WIRELESS COMMUNICATIONS EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communications equipment. Examples of products made by these establishments are: transmitting and receiving antennas, cable television equipment, GPS equipment, pagers, cellular phones, mobile communications equipment, and radio and television studio and broadcasting equipment.

334220 RADIO AND TELEVISION BROADCASTING AND WIRELESS COMMUNICATIONS EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing radio and television broadcast and wireless communications equipment. Examples of products made by these establishments are transmitting and receiving antennas, cable television equipment, GPS equipment, pagers, cellular phones, mobile communications equipment, and radio and television studio and broadcasting equipment.

33429 OTHER COMMUNICATIONS EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing communications equipment (except telephone apparatus, and radio and television broadcast, and wireless communications equipment).

334290 OTHER COMMUNICATIONS EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing communications equipment (except telephone apparatus, radio and television broadcast, and wireless communications equipment).

3343 AUDIO AND VIDEO EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing electronic audio and video equipment for home entertainment, motor vehicle, public address and musical instrument amplifications. Examples of products made by these establishments are video cassette recorders, televisions, stereo equipment, speaker systems, household-type video cameras, jukeboxes, and amplifiers for musical instruments and public address systems.

33431 AUDIO AND VIDEO EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing electronic audio and video equipment for home entertainment, motor vehicle, public address and musical instrument amplifications. Examples of products made by these establishments are video cassette recorders, televisions, stereo equipment, speaker systems, household-type video cameras, jukeboxes, and amplifiers for musical instruments and public address systems.

334310 AUDIO AND VIDEO EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electronic audio and video equipment for home entertainment, motor vehicle, public address and musical instrument amplifications. Examples of products made by these establishments are video cassette recorders, televisions, stereo equipment, speaker systems, household-type video cameras, jukeboxes, and amplifiers for musical instruments and public address systems.

3344 SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing semiconductors and other components for electronic applications. Examples of products made by these establishments are capacitors, resistors, microprocessors, bare and loaded printed circuit boards, electron tubes, electronic connectors, and computer modems.

33441 SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing semiconductors and other components for electronic applications. Examples of products made by these establishments are capacitors, resistors, microprocessors, bare and loaded printed circuit boards, electron tubes, electronic connectors, and computer modems.

334411 ELECTRON TUBE MANUFACTURING

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

334412 BARE PRINTED CIRCUIT BOARD MANUFACTURING

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

334413 SEMICONDUCTOR AND RELATED DEVICE MANUFACTURING

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

334414 ELECTRONIC CAPACITOR MANUFACTURING

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

334415 ELECTRONIC RESISTOR MANUFACTURING

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

334416 ELECTRONIC COIL, TRANSFORMER, AND OTHER INDUCTOR MANUFACTURING

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

334417 ELECTRONIC CONNECTOR MANUFACTURING

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

334418 PRINTED CIRCUIT ASSEMBLY (ELECTRONIC ASSEMBLY) MANUFACTURING

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

334419 OTHER ELECTRONIC COMPONENT MANUFACTURING

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

3345 NAVIGATIONAL, MEASURING, ELECTROMEDICAL, AND CONTROL INSTRUMENTS MANUFACTURING

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

33451 NAVIGATIONAL, MEASURING, ELECTROMEDICAL, AND CONTROL INSTRUMENTS MANUFACTURING

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

334510 ELECTROMEDICAL AND ELECTROTHERAPEUTIC APPARATUS MANUFACTURING

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

334511 SEARCH, DETECTION, NAVIGATION, GUIDANCE, AERONAUTICAL, AND NAUTICAL SYSTEM AND INSTRUMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing search, detection, navigation, guidance, aeronautical, and nautical systems and instruments. Examples of products made by these establishments are aircraft instruments (except engine), flight recorders, navigational instruments and systems, radar systems and equipment, and sonar systems and equipment.

334512 AUTOMATIC ENVIRONMENTAL CONTROL MANUFACTURING FOR RESIDENTIAL, COMMERCIAL, AND APPLIANCE USE

This U.S. industry comprises establishments primarily engaged in manufacturing automatic controls and regulators for applications, such as heating, air-conditioning, refrigeration, and appliances.

334513 INSTRUMENTS AND RELATED PRODUCTS MANUFACTURING FOR MEASURING, DISPLAYING, AND CONTROLLING INDUSTRIAL PROCESS VARIABLES

This U.S. industry comprises establishments primarily engaged in manufacturing instruments and related devices for measuring, displaying, indicating, recording, transmitting, and controlling industrial process variables. These instruments measure, display, or control (i.e., monitor and analyze) industrial process variables, such as temperature, humidity, pressure, vacuum, combustion, flow, level, viscosity, density, acidity, concentration, and rotation.

334514 TOTALIZING FLUID METER AND COUNTING DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing totalizing (i.e., registering) fluid meters and counting devices. Examples of products made by these establishments are gas consumption meters, water consumption meters, parking meters, taxi meters, motor vehicle gauges, and fare collection equipment.

334515 INSTRUMENT MANUFACTURING FOR MEASURING AND TESTING ELECTRICITY AND ELECTRICAL SIGNALS

This U.S. industry comprises establishments primarily engaged in manufacturing instruments for measuring and testing the characteristics of electricity and electrical signals. Examples of products made by these establishments are circuit and continuity testers, volt meters, ohm meters, wattmeters, multimeters, and semiconductor test equipment.

334516 ANALYTICAL LABORATORY INSTRUMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing instruments and instrumentation systems for laboratory analysis of the chemical or physical composition or concentration of samples of solid, fluid, gaseous, or composite material.

334517 IRRADIATION APPARATUS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing irradiation apparatus and tubes for applications, such as medical diagnostic, medical therapeutic, industrial, and research and scientific evaluation. Irradiation can take the form of beta-rays, gamma-rays, X-rays, or other ionizing radiation.

334518 WATCH, CLOCK, AND PART MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or assembling: clocks; watches; timing mechanisms for clockwork operated devices; time clocks; time and date recording devices; and clock and watch parts (except crystals), such as springs, jewels, and modules.

334519 OTHER MEASURING AND CONTROLLING DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing measuring and controlling devices (except search, detection, navigation, guidance, aeronautical, and nautical instruments and systems; automatic environmental controls for residential, commercial, and appliance use; instruments for measurement, display, and control of industrial process variables; totalizing fluid meters and counting devices; instruments for measuring and testing electricity and electrical signals; analytical laboratory instruments; watches, clocks, and parts; irradiation equipment; and electromedical and electrotherapeutic apparatus).

3346 MANUFACTURING AND REPRODUCING MAGNETIC AND OPTICAL MEDIA

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. optical and magnetic media, such as blank audio tape, blank video tape, and blank diskettes and/or
2. mass duplicating (i.e., making copies) audio, video, software, and other data on magnetic, optical, and similar media.

33461 MANUFACTURING AND REPRODUCING MAGNETIC AND OPTICAL MEDIA

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. optical and magnetic media, such as blank audio tape, blank video tape, and blank diskettes and/or;
2. mass duplicating (i.e., making copies) audio, video, software, and other data on magnetic, optical, and similar media.

334611 SOFTWARE REPRODUCING

This U.S. industry comprises establishments primarily engaged in mass reproducing computer software. These establishments do not generally develop any software, they mass reproduce data and programs on magnetic media, such as diskettes, tapes, or cartridges. Establishments in this industry mass reproduce products, such as CD-ROMs and game cartridges.

334612 PRERECORDED COMPACT DISC (EXCEPT SOFTWARE), TAPE, AND RECORD REPRODUCING

This U.S. industry comprises establishments primarily engaged in mass reproducing audio and video material on magnetic or optical media. Examples of products mass reproduced by these establishments are audio compact discs, prerecorded audio and video cassettes, and laser discs.

334613 MAGNETIC AND OPTICAL RECORDING MEDIA MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing magnetic and optical recording media, such as blank magnetic tape, blank diskettes, blank optical discs, hard drive media, and blank magnetic tape cassettes.

335 ELECTRICAL EQUIPMENT, APPLIANCE, AND COMPONENT MANUFACTURING

Industries in the Electrical Equipment, Appliance, and Component Manufacturing subsector manufacture products that generate, distribute and use electrical power. Electric Lighting Equipment Manufacturing establishments produce electric lamp bulbs, lighting fixtures, and parts. Household Appliance Manufacturing establishments make both small and major electrical appliances and parts. Electrical Equipment Manufacturing establishments make goods, such as electric motors, generators, transformers, and switchgear apparatus. Other Electrical Equipment and Component Manufacturing establishments make devices for storing electrical power (e.g., batteries), for transmitting electricity (e.g., insulated wire), and wiring devices (e.g., electrical outlets, fuse boxes, and light switches).

3351 ELECTRIC LIGHTING EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. electric lamp bulbs and parts and/or
2. lighting fixtures.

33511 ELECTRIC LAMP BULB AND PART MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing electric light bulbs and tubes, and parts and components (except glass blanks for electric light bulbs).

335110 ELECTRIC LAMP BULB AND PART MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electric light bulbs and tubes, and parts and components (except glass blanks for electric light bulbs).

33512 LIGHTING FIXTURE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing electric lighting fixtures (except vehicular), nonelectric lighting equipment, lamp shades (except glass and plastics), and lighting fixture components (except current-carrying wiring devices).

33512M LIGHTING FIXTURE MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 335121 Residential Electric Lighting Fixture Manufacturing;
2. 335122 Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing; and
3. 335129 Other Lighting Equipment Manufacturing.

335121 Residential Electric Lighting Fixture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing fixed or portable residential electric lighting fixtures and lamp shades of metal, paper, or textiles. Residential electric lighting fixtures include those for use both inside and outside the residence.

335122 Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing commercial, industrial, and institutional electric lighting fixtures.

335129 Other Lighting Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric lighting fixtures (except residential, commercial, industrial, institutional, and vehicular electric lighting fixtures) and nonelectric lighting equipment.

3352 HOUSEHOLD APPLIANCE MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. small electrical appliances and/or
2. major appliances.

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.

33521M SMALL ELECTRICAL APPLIANCE MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 335211 Electric Housewares and Household Fan Manufacturing and
2. 335212 Household Vacuum Cleaner Manufacturing.

335211 Electric Housewares and Household Fan Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing small electric appliances and electric housewares for heating, cooking, and other purposes, and electric household-type fans (except attic fans).

335212 Household Vacuum Cleaner Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing electric vacuum cleaners, electric floor waxing machines, and other electric floor care machines typically for household use.

33522 MAJOR APPLIANCE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing household-type cooking appliances, household-type laundry equipment, household-type refrigerators, upright and chest freezers, and other electrical and nonelectrical major household-type appliances, such as dishwashers, water heaters, and garbage disposal units.

335221 HOUSEHOLD COOKING APPLIANCE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing household-type electric and nonelectric cooking equipment (except small electric appliances and electric housewares).

335222 HOUSEHOLD REFRIGERATOR AND HOME FREEZER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing household-type refrigerators and upright and chest freezers.

335224 HOUSEHOLD LAUNDRY EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing household-type laundry equipment.

335228 OTHER MAJOR HOUSEHOLD APPLIANCE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electric and non-electric major household-type appliances (except cooking equipment, refrigerators, upright and chest freezers, and household-type laundry equipment).

3353 ELECTRICAL EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers; electric motors, generators, and motor generator sets; switchgear and switchboard apparatus; relays; and industrial controls.

33531 ELECTRICAL EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers; electric motors, generators, and motor generator sets; switchgear and switchboard apparatus; relays; and industrial controls.

335311 POWER, DISTRIBUTION, AND SPECIALTY TRANSFORMER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers (except electronic components). Industrial-type and consumer-type transformers in this industry vary (e.g., step up or step down) voltage but do not convert alternating to direct or direct to alternating current.

335312 MOTOR AND GENERATOR MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing electric motors (except internal combustion engine starting motors), power generators (except battery charging alternators for internal combustion engines), and motor generator sets (except turbine generator set units). This industry includes establishments rewinding armatures on a factory basis.

335313 SWITCHGEAR AND SWITCHBOARD APPARATUS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing switchgear and switchboard apparatus.

335314 RELAY AND INDUSTRIAL CONTROL MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing relays, motor starters and controllers, and other industrial controls and control accessories.

3359 OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing electrical equipment and components (except electric lighting equipment, household-type appliances, transformers, switchgear, relays, motors, and generators).

33591 BATTERY MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing primary and storage batteries.

335911 STORAGE BATTERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing storage batteries.

335912 PRIMARY BATTERY MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wet or dry primary batteries.

33592 COMMUNICATION AND ENERGY WIRE AND CABLE MANUFACTURING

This industry comprises establishments insulating fiber-optic cable, and manufacturing insulated nonferrous wire and cable from nonferrous wire drawn in other establishments.

33592M COMMUNICATION AND ENERGY WIRE AND CABLE MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 335921 Fiber Optic Cable Manufacturing and
2. 335929 Other Communication and Energy Wire Manufacturing.

335921 Fiber Optic Cable Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing insulated fiber-optic cable from purchased fiber-optic strand.

335929 Other Communication and Energy Wire Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing insulated wire and cable of nonferrous metals from purchased wire.

33593 WIRING DEVICE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing current-carrying wiring devices and noncurrent-carrying wiring devices for wiring electrical circuits.

33593M WIRING DEVICE MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 335931 Current-Carrying Wiring Device Manufacturing and
2. 335932 Noncurrent-Carrying Wiring Device Manufacturing.

335931 Current-Carrying Wiring Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing current-carrying wiring devices.

335932 Noncurrent-Carrying Wiring Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing noncurrent-carrying wiring devices.

33599 ALL OTHER ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing electrical equipment (except electric lighting equipment, household-type appliances, transformers, motors, generators, switchgear, relays, industrial controls, batteries, communication and energy wire and cable, and wiring devices).

335991 CARBON AND GRAPHITE PRODUCT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing carbon, graphite, and metal-graphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; carbon and graphite fibers; and other carbon, graphite, and metal-graphite products.

335999 ALL OTHER MISCELLANEOUS ELECTRICAL EQUIPMENT AND COMPONENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing industrial and commercial electric apparatus and other equipment (except lighting equipment, household appliances, transformers, motors, generators, switchgear, relays, industrial controls, batteries, communication and energy wire and cable, wiring devices, and carbon and graphite products). This industry includes power converters (i.e., AC to DC and DC to AC), power supplies, surge suppressors, and similar equipment for industrial-type and consumer-type equipment.

336 TRANSPORTATION EQUIPMENT MANUFACTURING

Industries in the Transportation Equipment Manufacturing subsector produce equipment for transporting people and goods. Transportation equipment is a type of machinery. An entire subsector is devoted to this activity because of the significance of its economic size in all three North American countries.

Establishments in this subsector utilize production processes similar to those of other machinery manufacturing establishments — bending, forming, welding, machining, and assembling metal or plastic parts into components and finished products. However, the assembly of components and subassemblies and their further assembly into finished vehicles tends to be a more common production process in this subsector than in the Machinery Manufacturing subsector.

The North American Industry Classification System (NAICS) has industry groups for the manufacture of equipment for each mode of transport — road, rail, air and water. Parts for motor vehicles warrant a separate industry group because of their importance and because parts manufacture requires less assembly, and the establishments that manufacture only parts are not as vertically integrated as those that make complete vehicles.

Land use motor vehicle equipment not designed for highway operation (e.g., agricultural equipment, construction equipment, and materials handling equipment) is classified in the appropriate NAICS subsector based on the type and use of the equipment.

3361 MOTOR VEHICLE MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. automobile and light duty motor vehicles and/or
2. heavy duty trucks.

33611 AUTOMOBILE AND LIGHT DUTY MOTOR VEHICLE MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. complete automobile and light duty motor vehicles (i.e., body and chassis or unibody) or
2. chassis only.

336111 AUTOMOBILE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. complete automobiles (i.e., body and chassis or unibody) or

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2. automobile chassis only.

336112 LIGHT TRUCK AND UTILITY VEHICLE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. complete light trucks and utility vehicles (i.e., body and chassis) or
2. light truck and utility vehicle chassis only.

Vehicles made include light duty vans, pick-up trucks, minivans, and sport utility vehicles.

33612 HEAVY DUTY TRUCK MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. 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. heavy duty truck chassis only.

336120 HEAVY DUTY TRUCK MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. 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. heavy duty truck chassis only.

3362 MOTOR VEHICLE BODY AND TRAILER MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. motor vehicle bodies and cabs or
2. truck, automobile and utility trailers, truck trailer chassis, detachable trailer bodies, and detachable trailer chassis.

The products made may be sold separately or may be assembled on purchased chassis and sold as complete vehicles.

Motor homes are units where the motor and the living quarters are contained in the same integrated unit, while travel trailers are designed to be towed by a motor unit, such as an automobile or a light truck.

33621 MOTOR VEHICLE BODY AND TRAILER MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. motor vehicle bodies and cabs or
2. 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.

336212 TRUCK TRAILER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing truck trailers, truck trailer chassis, cargo container chassis, detachable trailer bodies, and detachable trailer chassis for sale separately.

336213 MOTOR HOME MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. motor homes on purchased chassis and/or
2. conversion vans on an assembly line basis.

Motor homes are units where the motor and the living quarters are integrated in the same unit.

336214 TRAVEL TRAILER AND CAMPER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. travel trailers and campers designed to attach to motor vehicles;
2. pickup coaches (i.e., campers) and caps (i.e., covers) for mounting on pickup trucks; and
3. automobile, utility, and light-truck trailers.

Travel trailers do not have their own motor but are designed to be towed by a motor unit, such as an automobile or a light truck.

3363 MOTOR VEHICLE PARTS MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. motor vehicle gasoline engines and engine parts;
2. motor vehicle electrical and electronic equipment;
3. motor vehicle steering and suspension components (except spring);
4. motor vehicle brake systems;
5. motor vehicle transmission and power train parts;
6. motor vehicle seating and interior trimmings;
7. motor vehicle metal stampings; and/or
8. other motor vehicle parts.

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.

33631M MOTOR VEHICLE GASOLINE ENGINE AND ENGINE PARTS MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

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1. 336311 Carburetor, Piston, Piston Ring, and Valve Manufacturing and
 2. 336312 Gasoline Engine and Engine Parts Manufacturing.

336311 Carburetor, Piston, Piston Ring, and Valve Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding carburetors, pistons, piston rings, and engine intake and exhaust valves.

336312 Gasoline Engine and Engine Parts Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding gasoline motor vehicle engines and gasoline motor vehicle engine parts, excluding carburetors, pistons, piston rings, and valves.

33632 MOTOR VEHICLE ELECTRICAL AND ELECTRONIC EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. vehicular lighting and/or
2. manufacturing and/or rebuilding motor vehicle electrical and electronic equipment.

The products made can be used for all types of transportation equipment (i.e., aircraft, automobiles, trains, and ships).

33632M MOTOR VEHICLE ELECTRICAL AND ELECTRONIC EQUIPMENT MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 336321 Vehicular Lighting Equipment Manufacturing and
2. 336322 Other Motor Vehicle Electrical and Electronic Equipment Manufacturing.

336321 Vehicular Lighting Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing vehicular lighting fixtures.

336322 Other Motor Vehicle Electrical and Electronic Equipment Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding electrical and electronic equipment for motor vehicles and internal combustion engines.

33633 MOTOR VEHICLE STEERING AND SUSPENSION COMPONENTS (EXCEPT SPRING) MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle steering mechanisms and suspension components (except springs).

336330 MOTOR VEHICLE STEERING AND SUSPENSION COMPONENTS (EXCEPT SPRING) MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle steering mechanisms and suspension components (except springs).

33634 MOTOR VEHICLE BRAKE SYSTEM MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle brake systems and related components.

336340 MOTOR VEHICLE BRAKE SYSTEM MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle brake systems and related components.

33635 MOTOR VEHICLE TRANSMISSION AND POWER TRAIN PARTS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle transmission and power train parts.

336350 MOTOR VEHICLE TRANSMISSION AND POWER TRAIN PARTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle transmission and power train parts.

33636 MOTOR VEHICLE SEATING AND INTERIOR TRIM MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing motor vehicle seating, seats, seat frames, seat belts, and interior trimmings.

336360 MOTOR VEHICLE SEATING AND INTERIOR TRIM MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing motor vehicle seating, seats, seat frames, seat belts, and interior trimmings.

33637 MOTOR VEHICLE METAL STAMPING

This industry comprises establishments primarily engaged in manufacturing motor vehicle stampings, such as fenders, tops, body parts, trim, and molding.

336370 MOTOR VEHICLE METAL STAMPING

This U.S. industry comprises establishments primarily engaged in manufacturing motor vehicle stampings, such as fenders, tops, body parts, trim, and molding.

33639 OTHER MOTOR VEHICLE PARTS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle parts and accessories (except motor vehicle gasoline engines and engine parts, motor vehicle electrical and electronic equipment, motor vehicle steering and suspension components, motor vehicle brake systems, motor vehicle transmission and power train parts, motor vehicle seating and interior trim, and motor vehicle stampings).

336391 MOTOR VEHICLE AIR-CONDITIONING MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing air-conditioning systems and compressors for motor vehicles, such as automobiles, trucks, buses, aircraft, farm machinery, construction machinery, and other related vehicles.

336399 ALL OTHER MOTOR VEHICLE PARTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing and/or rebuilding motor vehicle parts and accessories (except motor vehicle gasoline engines and engine parts, motor vehicle electrical and electronic equipment, motor vehicle steering and suspension components, motor vehicle brake systems, motor vehicle transmission and power train parts, motor vehicle seating and interior trim, motor vehicle stampings, and motor vehicle air-conditioning systems and compressors).

3364 AEROSPACE PRODUCT AND PARTS MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

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1. complete aircraft, missiles, or space vehicles;
 2. 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).

33641 AEROSPACE PRODUCT AND PARTS MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. complete aircraft, missiles, or space vehicles;
2. 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 manufacturing activities:

1. manufacturing or assembling complete aircraft;
2. developing and making aircraft prototypes;
3. aircraft conversion (i.e., major modifications to systems); and
4. complete aircraft overhaul and rebuilding (i.e., periodic restoration of aircraft to original design specifications).

336412 AIRCRAFT ENGINE AND ENGINE PARTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. aircraft engines and engine parts;
2. developing and making prototypes of aircraft engines and engine parts;
3. aircraft propulsion system conversion (i.e., major modifications to systems); and
4. aircraft propulsion systems overhaul and rebuilding (i.e., periodic restoration of aircraft propulsion system to original design specifications).

336413 OTHER AIRCRAFT PARTS AND AUXILIARY EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. aircraft parts or auxiliary equipment (except engines and aircraft fluid power subassemblies) and/or
2. developing and making prototypes of aircraft parts and auxiliary equipment.

Auxiliary equipment includes such items as crop dusting apparatus, armament racks, inflight refueling equipment, and external fuel tanks.

336414 GUIDED MISSILE AND SPACE VEHICLE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. complete guided missiles and space vehicles and/or
2. developing and making prototypes of guided missile or space vehicles.

336415 GUIDED MISSILE AND SPACE VEHICLE PROPULSION UNIT AND PROPULSION UNIT PARTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. 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.

336419 OTHER GUIDED MISSILE AND SPACE VEHICLE PARTS AND AUXILIARY EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. guided missile and space vehicle parts and auxiliary equipment (except guided missile and space vehicle propulsion units and propulsion unit parts) and/or
2. developing and making prototypes of guided missile and space vehicle parts and auxiliary equipment.

3365 RAILROAD ROLLING STOCK MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. manufacturing and/or rebuilding locomotives, locomotive frames, and parts;
2. railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and
3. rail layers, ballast distributors, rail tamping equipment, and other railway track maintenance equipment.

33651 RAILROAD ROLLING STOCK MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. manufacturing and/or rebuilding locomotives, locomotive frames, and parts;
2. railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and
3. 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 manufacturing activities:

1. manufacturing and/or rebuilding locomotives, locomotive frames, and parts;

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2. railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service; and
 3. rail layers, ballast distributors, rail tamping equipment, and other railway track maintenance equipment.

3366 SHIP AND BOAT BUILDING

This industry group comprises establishments primarily engaged in operating shipyards or boat yards (i.e., ship or boat manufacturing facilities). Shipyards are fixed facilities with drydocks and fabrication equipment capable of building a ship, defined as watercraft typically suitable or intended for other than personal or recreational use. Boats are defined as watercraft typically suitable or intended for personal use. Activities of shipyards include the construction of ships, their repair, conversion and alteration, the production of prefabricated ship and barge sections, and specialized services, such as ship scaling.

33661 SHIP AND BOAT BUILDING

This industry comprises establishments primarily engaged in operating shipyards or boat yards (i.e., ship or boat manufacturing facilities). Shipyards are fixed facilities with drydocks and fabrication equipment capable of building a ship, defined as watercraft typically suitable or intended for other than personal or recreational use. Boats are defined as watercraft typically suitable or intended for personal use. Activities of shipyards include the construction of ships, their repair, conversion and alteration, the production of prefabricated ship and barge sections, and specialized services, such as ship scaling.

336611 SHIP BUILDING AND REPAIRING

This U.S. industry comprises establishments primarily engaged in operating a shipyard. Shipyards are fixed facilities with drydocks and fabrication equipment capable of building a ship, defined as watercraft typically suitable or intended for other than personal or recreational use. Activities of shipyards include the construction of ships, their repair, conversion and alteration, the production of prefabricated ship and barge sections, and specialized services, such as ship scaling.

336612 BOAT BUILDING

This U.S. industry comprises establishments primarily engaged in building boats. Boats are defined as watercraft not built in shipyards and typically of the type suitable or intended for personal use.

3369 OTHER TRANSPORTATION EQUIPMENT MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing transportation equipment (except motor vehicles and parts, aerospace products and parts, railroad rolling stock, ship building, and boat manufacturing).

33699 OTHER TRANSPORTATION EQUIPMENT MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, metal tricycles, complete military armored vehicles, tanks, self-propelled weapons, vehicles pulled by draft animals, and other transportation equipment (except motor vehicles, boats, ships, railroad rolling stock, and aerospace products), including parts thereof.

336991 MOTORCYCLE, BICYCLE, AND PARTS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, tricycles and similar equipment, and parts.

336992 MILITARY ARMORED VEHICLE, TANK, AND TANK COMPONENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing complete military armored vehicles, combat tanks, specialized components for combat tanks, and self-propelled weapons.

336999 ALL OTHER TRANSPORTATION EQUIPMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing transportation equipment (except motor vehicles, motor vehicle parts, boats, ships, railroad rolling stock, aerospace products, motorcycles, bicycles, and armored vehicles and tanks).

337 FURNITURE AND RELATED PRODUCT MANUFACTURING

Industries in the Furniture and Related Product Manufacturing subsector make furniture and related articles, such as mattresses, window blinds, cabinets, and fixtures. The processes used in the manufacture of furniture include the cutting, bending, molding, laminating, and assembly of such materials as wood, metal, glass, plastics, and rattan. However, the production process for 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 the North American Industry Classification System (NAICS), furniture initially is classified based on the type of furniture (application for which it is designed) rather than the material used. For example, an upholstered sofa is treated as household furniture, although it may also be used in hotels or offices.

When classifying furniture according to the component material from which it is made, furniture made from more than one material is classified based on the material used in the frame, or if there is no frame, the predominant component material. Upholstered household furniture (excluding kitchen and dining room chairs with upholstered seats) is classified without regard to the frame material. Kitchen or dining room chairs with upholstered seats are classified according to the frame material.

Furniture may be made on a stock or custom basis and may be shipped assembled or unassembled (i.e., knockdown). The manufacture of furniture parts and frames is included in this subsector.

Some of the processes used in furniture manufacturing are similar to processes that are used in other segments of manufacturing. For example, cutting and assembly occurs in the production of wood trusses that are classified in Subsector 321, Wood Product Manufacturing. However, the multiple processes that distinguish wood furniture manufacturing from wood product manufacturing warrant inclusion of wooden furniture manufacturing in the Furniture and Related Product Manufacturing subsector. Metal furniture manufacturing uses techniques that are also employed in the manufacturing of roll-formed products classified in Subsector 332, Fabricated Metal Product Manufacturing. The molding process for plastics furniture is similar to the molding of other plastics products. However, plastics furniture producing establishments tend to specialize in furniture.

NAICS attempts to keep furniture manufacturing together, but there are two notable exceptions: seating for transportation equipment and laboratory and hospital furniture. These exceptions are related to that fact that some of the aspects of the production process for these products, primarily the design, are highly integrated with that of other manufactured goods, namely motor vehicles and health equipment.

3371 HOUSEHOLD AND INSTITUTIONAL FURNITURE AND KITCHEN CABINET MANUFACTURING

This industry group comprises establishments manufacturing household-type furniture, such as living room, kitchen and bedroom furniture and institutional (i.e., public building) furniture, such as furniture for schools, theaters, and churches.

33711 WOOD KITCHEN CABINET AND COUNTERTOP MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing wood or plastics laminated on wood kitchen cabinets, bathroom vanities, and countertops (except freestanding). The cabinets and counters may be made on a stock or custom basis.

337110 WOOD KITCHEN CABINET AND COUNTERTOP MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wood or plastics laminated on wood kitchen cabinets, bathroom vanities, and countertops (except freestanding). The cabinets and counters may be made on a stock or custom basis.

33712 HOUSEHOLD AND INSTITUTIONAL FURNITURE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing household-type and public building furniture (i.e., library, school, theater, and church furniture). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337121 UPHOLSTERED HOUSEHOLD FURNITURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing upholstered household-type furniture. The furniture may be made on a stock or custom basis.

337122 NONUPHOLSTERED WOOD HOUSEHOLD FURNITURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing nonupholstered wood household-type furniture and freestanding cabinets (except television, radio, and sewing machine cabinets). The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

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).

33712N OTHER HOUSEHOLD NONUPHOLSTERED FURNITURE

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industrial Classification System (NAICS) industries:

1. 337124 Metal Household Furniture Manufacturing;
2. 337125 Household Furniture (except Wood and Metal) Manufacturing; and
3. 337129 Wood Television, Radio, and Sewing Machine Cabinet Manufacturing.

337124 Metal Household Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing metal household-type furniture and freestanding cabinets. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337125 Household Furniture (except Wood and Metal) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing household-type furniture of materials other than wood or metal, such as plastics, reed, rattan, wicker, and fiberglass. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337129 Wood Television, Radio, and Sewing Machine Cabinet Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood cabinets used as housings by television, stereo, loudspeaker, and sewing machine manufacturers.

3372 OFFICE FURNITURE (INCLUDING FIXTURES) MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing office furniture and/or office and store fixtures. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

33721 OFFICE FURNITURE (INCLUDING FIXTURES) MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing office furniture and/or office and store fixtures. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

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.

337215 SHOWCASE, PARTITION, SHELVING, AND LOCKER MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing wood and non-wood 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.

33721N OFFICE FURNITURE MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 337211 Wood Office Furniture Manufacturing and
2. 337214 Office Furniture (except Wood) Manufacturing.

337211 Wood Office Furniture Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing wood office-type furniture. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

337214 Office Furniture (except Wood) Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonwood office-type furniture. The furniture may be made on a stock or custom basis and may be assembled or unassembled (i.e., knockdown).

3379 OTHER FURNITURE RELATED PRODUCT MANUFACTURING

This industry group comprises establishments manufacturing furniture related products, such as mattresses, blinds, and shades.

33791 MATTRESS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing innerspring, box spring, and noninnerspring mattresses, including mattresses for waterbeds.

337910 MATTRESS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing innerspring, box spring, and noninnerspring mattresses, including mattresses for waterbeds.

33792 BLIND AND SHADE MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing one or more of the following: venetian blinds, other window blinds, shades; curtain and drapery rods, poles; and/or curtain and drapery fixtures. The blinds and shades may be made on a stock or custom basis and may be made of any material.

337920 BLIND AND SHADE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. venetian blinds, other window blinds, shades;
2. curtain and drapery rods, poles; and/or
3. curtain and drapery fixtures.

The blinds and shades may be made on a stock or custom basis and may be made of any material.

339 MISCELLANEOUS MANUFACTURING

Industries in the Miscellaneous Manufacturing subsector make a wide range of products that cannot readily be classified in specific North American Industrial Classification System (NAICS) subsectors in manufacturing. Processes used by these establishments vary significantly, both among and within industries. For example, a variety of manufacturing processes are used in manufacturing sporting and athletic goods that include products, such as tennis racquets and golf balls. The processes for these products differ from each other, and the processes differ significantly from the fabrication processes used in making dolls or toys, the melting and shaping of precious metals to make jewelry, and the bending, forming, and assembly used in making medical products.

The industries in this subsector are defined by what is made rather than how it is made. Although individual establishments might be appropriately classified elsewhere in the NAICS structure, for historical continuity, these product-based industries were maintained. In most cases, no one process or material predominates for an industry.

Establishments in this subsector manufacture products as diverse as medical equipment and supplies, jewelry, sporting goods, toys, and office supplies.

3391 MEDICAL EQUIPMENT AND SUPPLIES MANUFACTURING

This industry group comprises establishments primarily engaged in manufacturing medical equipment and supplies. Examples of products made by these establishments are laboratory apparatus and furniture, surgical and medical instruments, surgical appliances and supplies, dental equipment and supplies, orthodontic goods, dentures, and orthodontic appliances.

33911 MEDICAL EQUIPMENT AND SUPPLIES MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing medical equipment and supplies. Examples of products made by these establishments are laboratory apparatus and furniture, surgical and medical instruments, surgical appliances and supplies, dental equipment and supplies, orthodontic goods, dentures, and orthodontic appliances.

339111 LABORATORY APPARATUS AND FURNITURE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing laboratory apparatus and laboratory and hospital furniture (except dental). Examples of products made by these establishments are hospital beds, operating room tables, laboratory balances and scales, furnaces, ovens, centrifuges, cabinets, cases, benches, tables, and stools.

For this industry, the 1997 Economic Census did not fully implement the conversion to the North American Industry Classification System (NAICS). The data from 1997 to 2001 for NAICS industry 339111 did not include establishments primarily engaged in the manufacture of hospital beds and other hospital furniture. These establishments are included in the 2002 Economic Census data.

339112 SURGICAL AND MEDICAL INSTRUMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing medical, surgical, ophthalmic, and veterinary instruments and apparatus (except electrotherapeutic, electro-medical and irradiation apparatus). Examples of products made by these establishments are syringes, hypodermic needles, anesthesia apparatus, blood transfusion equipment, catheters, surgical clamps, and medical thermometers.

339113 SURGICAL APPLIANCE AND SUPPLIES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing surgical appliances and supplies. Examples of products made by these establishments are orthopedic devices, prosthetic appliances, surgical dressings, crutches, surgical sutures, and personal industrial safety devices (except protective eyewear).

339114 DENTAL EQUIPMENT AND SUPPLIES MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing dental equipment and supplies used by dental laboratories and offices of dentists, such as dental chairs, dental instrument delivery systems, dental hand instruments, and dental impression material and dental cements.

339115 OPHTHALMIC GOODS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing ophthalmic goods. Examples of products made by these establishments are prescription eyeglasses (except manufactured in a retail setting), contact lenses, sunglasses, eyeglass frames, reading glasses made to standard powers, and protective eyewear.

339116 DENTAL LABORATORIES

This U.S. industry comprises establishments primarily engaged in manufacturing dentures, crowns, bridges, and orthodontic appliances customized for individual application.

3399 ALL OTHER MISCELLANEOUS MANUFACTURING ACTIVITIES NOT IDENTIFIED IN SUBSECTOR 339, MISCELLANEOUS MANUFACTURING

This industry group comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. jewelry and silverware;
2. sporting and athletic goods;

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3. doll, toy, and game;
 4. office supplies (except paper);
 5. signs; and/or
 6. all other miscellaneous.

33991 JEWELRY AND SILVERWARE MANUFACTURING

This industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. engraving, chasing, or etching jewelry;
2. metal personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases);
3. engraving, chasing, or etching precious metal solid, precious metal clad, or pewter cutlery and flatware;
4. 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. 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.

33991M JEWELRY AND SILVERWARE MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 339911 Jewelry (except Costume) Manufacturing;
2. 339912 Silverware and Hollowware Manufacturing;
3. 339913 Jewelers' Material and Lapidary Work Manufacturing; and
4. 339914 Costume Jewelry and Novelty Manufacturing.

339911 Jewelry (except Costume) Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. manufacturing, engraving, chasing, or etching precious metal solid or precious metal clad jewelry;
2. manufacturing, engraving, chasing, or etching personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases) made of precious solid or clad metal; and
3. stamping coins.

339912 Silverware and Hollowware Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing, engraving, chasing, or etching precious metal solid, precious metal clad, or pewter flatware and other hollowware.

339913 Jewelers' Material and Lapidary Work Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. unassembled jewelry parts and stock shop products, such as sheet, wire, and tubing;
2. cutting, slabbing, tumbling, carving, engraving, polishing, or faceting precious or semiprecious stones and gems;
3. recutting, repolishing, and setting gem stones; and
4. drilling, sawing, and peeling cultured pearls.

339914 Costume Jewelry and Novelty Manufacturing

This U.S. industry comprises establishments primarily engaged in one or more of the following manufacturing activities:

1. manufacturing, engraving, chasing, and etching costume jewelry; and/or
2. manufacturing, engraving, chasing, or etching nonprecious metal personal goods (i.e., small articles carried on or about the person, such as compacts or cigarette cases).

This industry includes establishments primarily engaged in manufacturing precious plated jewelry and precious plated personal goods.

33992 SPORTING AND ATHLETIC GOODS MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing sporting and athletic goods (except apparel and footwear).

339920 SPORTING AND ATHLETIC GOODS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing sporting and athletic goods (except apparel and footwear).

33993 DOLL, TOY, AND GAME MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing dolls, toys, and games, such as complete dolls, doll parts, doll clothes, action figures, toys, games (including electronic), hobby kits, and children's vehicles (except metal bicycles and tricycles).

33993M DOLL, TOY, AND GAME MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 339931 Doll and Stuffed Toy Manufacturing and
2. 339932 Game, Toy, and Children's Vehicle Manufacturing.

339931 Doll and Stuffed Toy Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing complete dolls, doll parts, and doll clothes; action figures; and stuffed toys.

339932 Game, Toy, and Children's Vehicle Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing games (including electronic), toys, and children's vehicles (except bicycles and metal tricycles).

33994 OFFICE SUPPLIES (EXCEPT PAPER) MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing office supplies. Examples of products made by these establishments are pens, pencils, felt tip markers, crayons, chalk, pencil sharpeners, staplers, hand operated stamps, modeling clay, and inked ribbons.

33994M OFFICE SUPPLIES (EXCEPT PAPER) MANUFACTURING

This Annual Survey of Manufactures (ASM) rollup industry comprises establishments primarily engaged in the following North American Industry Classification System (NAICS) U.S. industries:

1. 339941 Pen and Mechanical Pencil Manufacturing;
2. 339942 Lead Pencil and Art Good Manufacturing;
3. 339943 Marking Device Manufacturing; and
4. 339944 Carbon Paper and Inked Ribbon Manufacturing.

339941 Pen and Mechanical Pencil Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing pens, ballpoint pen refills and cartridges, mechanical pencils, and felt tipped markers.

339942 Lead Pencil and Art Good Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing nonmechanical pencils and art goods. Examples of products made by these establishments are pencil leads, crayons, chalk, framed blackboards, pencil sharpeners, staplers, artists' palettes and paints, and modeling clay.

339943 Marking Device Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing marking devices, such as hand operated stamps, embossing stamps, stamp pads, and stencils.

339944 Carbon Paper and Inked Ribbon Manufacturing

This U.S. industry comprises establishments primarily engaged in manufacturing carbon paper and inked ribbons.

33995 SIGN MANUFACTURING

This industry comprises establishments primarily engaged in manufacturing signs and related displays of all materials (except printing paper and paperboard signs, notices, and displays).

339950 SIGN MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing signs and related displays of all materials (except printing paper and paperboard signs, notices, and displays).

33999 ALL OTHER MISCELLANEOUS MANUFACTURING

This industry comprises establishments primarily engaged in miscellaneous manufacturing (except medical equipment and supplies, jewelry and flatware, sporting and athletic goods, dolls, toys, games, office supplies (except paper), and signs).

339991 GASKET, PACKING, AND SEALING DEVICE MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing gaskets, packing, and sealing devices of all materials.

339992 MUSICAL INSTRUMENT MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing musical instruments (except toys).

339993 FASTENER, BUTTON, NEEDLE, AND PIN MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing fasteners, buttons, needles, pins, and buckles (except precious metals or precious and semiprecious stones and gems).

339994 BROOM, BRUSH, AND MOP MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing brooms, mops, and brushes.

339995 BURIAL CASKET MANUFACTURING

This U.S. industry comprises establishments primarily engaged in manufacturing burial caskets, cases, and vaults (except concrete).

339999 ALL OTHER MISCELLANEOUS MANUFACTURING

This U.S. industry comprises establishments primarily engaged in miscellaneous manufacturing (except medical equipment and supplies, jewelry and flatware, sporting and athletic goods, dolls, toys, games, office supplies (except paper), musical instruments, fasteners, buttons, needles, pins, brooms, brushes, mops, and burial caskets).

Appendix C.

Methodology

SOURCES OF THE DATA

The Annual Survey of Manufactures (ASM) is a sample survey of approximately 50,000 establishments. A new sample is selected at 5-year intervals beginning the second survey year subsequent to the Economic Census — Manufacturing. Since 2004 is the second survey year following the 2002 Economic Census, a new sample is selected based on the 2002 Economic Census — Manufacturing.

In 2002, there were approximately 346,000 active manufacturing establishments. For sample efficiency and cost considerations, the 2002 manufacturing population is partitioned into two groups: (1) establishments eligible to be mailed a questionnaire and (2) establishments not eligible to be mailed a questionnaire. The following is a description of the 2004 ASM sample design:

1. Establishments that are eligible to be sent a report form:

This is defined as the mail stratum. It is comprised of larger single-location manufacturing companies and all manufacturing establishments of multi-location companies. The mail stratum is comprised of approximately 128,000 establishments. 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 multi-location companies identified from the Census Bureau's Company Organization Survey (COS).

The 2004–2008 ASM sample design differs from the 1999–2003 sample design. For most economic surveys, a number of units are included in the sample with certainty; i.e. their probability of selection for the survey is 1.00. Remaining units are generally assigned a probability that is consistent with their relative importance in the industry or other key aggregations. For the 2004 ASM, both the “certainty” criteria and the methodology for deriving the probabilities of selection are revised. The ASM is an establishment-based survey; the establishment serves as both the sample unit and the collection unit. Establishments in the 2002 Economic Census — Manufacturing that satisfied any of the following criteria are included in the sample with certainty: (1) the total employment for the establishment for 2002 is greater than or equal to 1,000; (2) the establishment is identified as one of the 10 largest establishments within the industry (employment); (3) the establishment is classified within an industry with fewer than 20 establishments; (4) the establishment is classified in the computer or flat-glass industry, or (5) the establishment is located within a State where there are fewer than 20 additional establishments in the same North American Industry Classification System (NAICS) group (NAICS group is defined as the set of NAICS industries that have the same first four digits). Collectively, there are approximately 9,700 establishments that are selected with certainty. These establishments accounted for approximately 44 percent of the total value of shipments in the 2002 Economic Census — Manufacturing.

Smaller establishments in the remaining portion of the mail stratum are sampled with probabilities ranging from .05 to 1.00. Each of the 473 industries and 1,450 product classes are considered to be a separate population. Using variable reliability constraints, each establishment within a given population is assigned an initial probability of selection that reflected its relative importance within the population. Establishments producing products in multiple product classes received multiple initial probabilities. The final probability of selection for a specific establishment is defined as the largest of their initial probabilities.

This method of assigning probabilities is motivated by the Census Bureau's primary desire to produce reliable estimates of both product class and industry shipments. The high correlation between shipments and employment, value-added, and other general statistics assures that

these variables will also be well represented. For sample selection purposes, each establishment is assigned to an industry stratum. Within each of the 473 industry strata, an independent sample is selected using the final probability of selection associated with the establishments classified within the stratum. A fixed-sample size methodology is used to assure that the desired sample size is realized.

2. Establishments not eligible to be sent a report form:

- a. This is defined as the nonmail stratum. The nonmail stratum consists of small and medium-sized, single-establishment companies from the Economic Census — Manufacturing. The initial nonmail stratum of the 2004 sample contained approximately 218,000 single-establishment companies from the 2002 Economic Census — Manufacturing. This is significantly higher than previous cycles of the survey and is motivated by the desire to reduce the reporting burden on this segment of the universe.

The nonmail stratum is supplemented annually using the list of newly active single-location companies provided by the Internal Revenue Service (IRS). Data for establishments included in the nonmail stratum are estimated using information obtained from the administrative records of the IRS and Social Security Administration (SSA), and are included in the published ASM estimates. 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.

- b. All nonemployers, i.e., all firms subject to federal income tax, with no paid employees during 2004, are excluded as in previous ASM. Data for nonemployers are not included in this report, but are released in the annual *Nonemployer Statistics* series.

The report forms, frequently asked questions, and instructions used to collect information from establishments in the ASM are available at <http://help.econ.census.gov/BHS/ASM/index.html>.

The ASM reports to review online are available at <http://www.census.gov/mcd/asmhome.html>.

ESTABLISHMENT BASIS OF REPORTING

The Annual Survey of Manufactures (ASM) is conducted on an establishment basis. Reports are filed for 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. Estimates are based on the reports from a representative sample of manufacturing establishments. These estimates represent the portion of the manufacturing population accounted for by establishments with paid employees. Nonemployers are defined as out-of-scope of the ASM. The tables provide estimates for employment, plant hours, payrolls, value added by manufacture, capital expenditures, cost of materials, inventories, value of industry shipments, and fuels and electric energy consumed for most manufacturing industries.

The ASM 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.

RELIABILITY OF DATA

All estimates produced in the Annual Survey of Manufactures (ASM) are subject to both sampling and nonsampling errors. Sampling error is inherent to all sample surveys and reflects the natural variability in the estimates that occurs because data are only collected from a subset of the population. The estimates are also subject to various types of nonsampling error. Examples of nonsampling error include measurement error and processing error. Nonsampling error is inherent to all surveys; including complete censuses.

1. 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 historical data values. At each level of

aggregation, an estimate of the difference between the current reference period and the base reference period is computed for each item from the sample and added to the corresponding base-year values. This difference can be positive or negative. For the 2003–2006 ASM estimates, the 2002 Economic Census — Manufacturing values serve as the base year.

Due to these positive year-to-year correlations, 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 are directly tabulated from the administrative-record data provided by the Internal Revenue Service (IRS) and the Social Security Administration (SSA). Estimates of the other data variables are developed from industry averages. Although the nonmail stratum contained approximately 207,000 individual establishments in 2004, it accounted for less than 7 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.

2. **Data Qualifications.** The estimates developed from the sample are likely to differ from the results of a complete canvassing of all eligible establishments in the population. The particular sample selected for the ASM is one of many probability samples that could have been selected under identical circumstances. Each of the possible samples would yield a slightly different set of results. The derived standard errors are measures of the variation of all the possible sample estimates around the true population statistic. Estimates with low standard errors are generally felt to be more accurate than those associated with high standard errors.

Estimates of the standard errors are computed from the sample data for selected ASM statistics in this report. They are represented in the form of relative standard errors (the standard error divided by the corresponding estimate).

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 are 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 are detected too late to correct the estimates, the data are suppressed or are specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

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

VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS

The Annual Survey of Manufactures (ASM) 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 (resales, contract receipts, repair work, etc.). Value of product shipments shown in the products statistics tables and files represent the total value of all products shipped that are classified as primary to an industry regardless of the classification of the producing establishment.

DISCLOSURE

In accordance with federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or company. However, the number of establishments in a specific industry or geographic area is not considered a disclosure; therefore, this information may be released even though other information is withheld. Techniques employed to limit disclosure are discussed at www.census.gov/epcd/ec02/disclosure.htm.

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

Appendix D. Geographic Notes

Not applicable for this report.

Appendix E. Metropolitan and Micropolitan Statistical Areas

Not applicable for this report.

Appendix F. Comparability of NAICS Codes and NAICS-based Codes

NAICS code	NAICS-based code	NAICS code	NAICS-based code	NAICS code	NAICS-based code	NAICS code	NAICS-based code
31111	31111	31214	31214	31699	31699	32518	32518
311111	311111	312140	312140	316991	31699M	325181	325181
311119	311119			316992	31699M	325182	325182
		31221	31221	316993	31699M	325188	325188
31121	31121	312210	312210	316999	31699M		
311211	31121M					32519	32519
311212	31121M	31222	31222	32111	32111	325191	32519M
311213	31121M	312221	31222M	321113	32111M	325192	32519M
		312229	31222M	321114	32111M	325193	32519M
						325199	32519M
31122	31122	31311	31311	32121	32121		
311221	311221	313111	31311M	321211	32121N	32521	32521
311222	31122N	313112	31311M	321212	32121N	325211	325211
311223	31122N	313113	31311M	321213	32121P	325212	325212
311225	311225			321214	32121P		
		31321	31321	321219	321219	32522	32522
31123	31123	313210	313210			325221	32522M
311230	311230					325222	32522M
		31322	31322	32191	32191		
31131	31131	313221	31322M	321911	32191M	32531	32531
311311	31131N	313222	31322M	321912	32191M	325311	325311
311312	31131N			321918	32191M	325312	325312
311313	311313	31323	31323			325314	325314
		313230	313230	32192	32192		
31132	31132			321920	321920	32532	32532
311320	311320	31324	31324			325320	325320
		313241	31324M	32199	32199		
31133	31133	313249	31324M	321991	321991	32541	32541
311330	311330			321992	321992	325411	325411
		31331	31331	321999	321999	325412	325412
31134	31134	313311	31331M			325413	325413
311340	311340	313312	31331M	32211	32211	325414	325414
		31332	31332	322110	322110		
31141	31141	313320	313320			32212	32212
311411	31141M			32212	32212M	32551	32551
311412	31141M	31411	31411	322121	32212M	325510	325510
		314110	314110	322122	32212M		
31142	31142					32552	32552
311421	31142M	31412	31412	32213	32213	325520	325520
311422	31142M	314121	31412M	322130	322130		
311423	31142M	314129	31412M			32561	32561
				32221	32221	325611	32561M
31151	31151			322211	32221M	325612	32561M
311511	31151N	31491	31491	322212	32221M	325613	32561M
311512	31151N	314911	31491M	322213	32221M		
311513	311513	314912	31491M	322214	32221M	32562	32562
311514	311514			322215	32221M	325620	325620
		31499	31499				
31152	31152	314991	314991	32222	32222	32591	32591
311520	311520	314992	314992	322221	32222N	325910	325910
		314999	314999	322222	32222N		
31161	31161			322223	32222P	32592	32592
311611	31161N	31511	31511	322224	32222P	325920	325920
311612	31161N	315111	31511M	322225	32222P		
311613	31161N	315119	31511M	322226	32222P	32599	32599
311615	311615					325991	325991
		31519	31519	32223	32223	325992	32599N
31171	31171	315191	31519M	322231	32223M	325998	32599N
311711	31171M	315192	31519M	322232	32223M		
311712	31171M			322233	32223M	32611	32611
		31521	31521			326111	326111
31181	31181	315211	31521M	32229	32229	326112	326112
311811	31181M	315212	31521M	322291	322291	326113	326113
311812	31181M			322299	322299		
311813	31181M					32612	32612
		31522	31522	32311	32311	326121	326121
31182	31182	315221	31522M	323110	32311M	326122	326122
311821	31182M	315222	31522M	323111	32311M		
311822	31182M	315223	31522M	323112	32311M	32613	32613
311823	31182M	315224	31522M	323113	32311M	326130	326130
		315225	31522M	323114	32311M		
31183	31183	315228	31522M	323115	32311M	32614	32614
311830	311830			323116	32311M	326140	326140
		31523	31523	323117	32311M		
31191	31191	315231	31523M	323118	32311M	32615	32615
311911	31191M	315232	31523M	323119	32311M	326150	326150
311919	31191M	315233	31523M				
		315234	31523M	32312	32312	32616	32616
31192	31192	315239	31523M	323121	32312M	326160	326160
311920	311920			323122	32312M		
		31529	31529			32619	32619
31193	31193	315291	31529M	32411	32411	326191	32619M
311930	311930	315292	31529M	324110	324110	326192	32619M
		315299	31529M			326199	32619M
				32412	32412		
31194	31194	31599	31599	324121	324121	32621	32621
311941	31194M	315991	31599M	324122	324122	326211	32621M
311942	31194M	315992	31599M			326212	32621M
		315993	31599M	32419	32419		
		315999	31599M	324191	324191	32622	32622
				324199	324199	326220	326220
31211	31211	31611	31611				
312111	31211M	316110	316110	32511	32511	32629	32629
312112	31211M			325110	325110	326291	32629M
312113	31211M					326299	32629M
		31621	31621				
31212	31212	316211	31621M	32512	32512		
312120	312120	316212	31621M	325120	325120		
		316213	31621M			32711	32711
		316214	31621M	32513	32513	327111	327111
31213	31213	316219	31621M	325131	32513M	327112	327112
312130	312130			325132	32513M	327113	327113

NAICS code	NAICS-based code	NAICS code	NAICS-based code	NAICS code	NAICS-based code	NAICS code	NAICS-based code
32712	32712	33241	33241	33392	33392	33612	33612
327121	327121	332410	332410	333921	33392M	336120	336120
327122	327122			333922	33392M	33621	33621
327123	327123	33242	33242	333923	33392M	336211	336211
327124	32712N	332420	332420	333924	33392M	336212	336212
327125	32712N					336213	336213
						336214	336214
32721	32721	33243	33243	33399	33399		
327211	327211	332431	33243M	333991	33399P	33631	33631
327212	327212	332439	33243M	333992	33399P	336311	33631M
327213	327213			333993	333993	336312	33631M
327215	327215	33251	33251	333994	33399N		
		332510	332510	333995	33399N	33632	33632
				333996	33399N	336321	33632M
32731	32731			333997	33399P	336322	33632M
327310	327310	33261	33261	333999	33399P		
		332611	33261M			33633	33633
		332612	33261M			336330	336330
		332618	33261M				
32732	32732			33411	33411	33634	33634
327320	327320			334111	334111	336340	336340
				334112	334112		
32733	32733	33271	33271	334113	334113	33635	33635
327331	32733M	332710	332710	334119	334119	336350	336350
327332	32733M						
32739	32739	33272	33272	33421	33421	33636	33636
327390	327390	332721	332721	334210	334210	336360	336360
		332722	332722				
32741	32741	33281	33281	33422	33422	33637	33637
327410	327410	332811	33281M	334220	334220	336370	336370
		332812	33281M				
32742	32742	332813	33281M	33429	33429	33639	33639
327420	327420			334290	334290	336391	336391
						336399	336399
32791	32791	33291	33291			33641	33641
327910	327910	332911	33291M	33431	33431	336411	336411
		332912	33291M	334310	334310	336412	336412
		332913	33291M			336413	336413
		332919	33291M			336414	336414
32799	32799			33441	33441	336415	336415
327991	327991	33299	33299	334411	334411	336419	336419
327992	327992	332991	332991	334412	334412		
327993	327993	332992	332992	334413	334413		
327999	327999	332993	332993	334414	334414		
		332994	332994	334415	334415	33651	33651
33111	33111	332995	332995	334416	334416	336510	336510
331111	33111M	332996	332996	334417	334417		
331112	33111M	332997	332997	334418	334418	33661	33661
		332998	332998	334419	334419	336611	336611
33121	33121	332999	332999			336612	336612
331210	331210						
				33451	33451	33699	33699
33122	33122			334510	334510	336991	336991
331221	33122M	33311	33311	334511	334511	336992	336992
331222	33122M	333111	333111	334512	334512	336999	336999
		333112	333112	334513	334513		
				334514	334514	33711	33711
33131	33131	33312	33312	334515	334515	337110	337110
331311	331311	333120	333120	334516	334516		
331312	331312			334517	334517	33712	33712
331314	331314	33313	33313	334518	334518	337121	337121
331315	33131M	333131	33313M	334519	334519	337122	337122
331316	331316	333132	33313M			337124	33712N
331319	33131N					337125	33712N
						337127	337127
						337129	337129
33141	33141	33321	33321	33461	33461		
331411	331411	333210	333210	334611	334611	33721	33721
331419	331419			334612	334612	337211	33721N
				334613	334613	337212	337212
						337214	33721N
33142	33142	33322	33322			337215	337215
331421	33142M	333220	333220	33511	33511		
331422	33142M			335110	335110		
331423	33142M	33329	33329				
		333291	33329N	33512	33512	33791	33791
		333292	33329N	33512M	33512M	337910	337910
		333293	33329N	335122	335122		
33149	33149	333294	33329N	335129	335129		
331491	33149M	333295	333295			33792	33792
331492	33149M	333298	333298			337920	337920
33151	33151			33521	33521	33911	33911
331511	33151M	33331	33331	335211	33521M	339111	339111
331512	33151M	333311	33331N	335212	33521M	339112	339112
331513	33151M	333312	33331N			339113	339113
		333313	333313	33522	33522	339114	339114
33152	33152	333314	333314	335221	335221	339115	339115
331521	33152N	333315	333315	335222	335222	339116	339116
331522	33152P	333319	333319	335224	335224		
331524	33152N			335228	335228	33991	33991
331525	33152P	33341	33341			339911	33991M
331528	33152P	333411	33341N	33531	33531	339912	33991M
		333412	33341N	335311	335311	339913	33991M
		333414	33341N	335312	335312	339914	33991M
33211	33211	333415	333415	335313	335313		
332111	33211N			335314	335314	33992	33992
332112	33211N					339920	339920
332114	332114	33351	33351				
332115	33211P	333511	333511	33591	33591	33993	33993
332116	33211P	333512	333512	335911	335911	339931	33993M
332117	332117	333513	333513	335912	335912	339932	33993M
		333514	333514				
33221	33221	333515	333515	33592	33592	33994	33994
332211	33221N	333516	333516	335921	33592M	339941	33994M
332212	33221P	333518	333518	335929	33592M	339942	33994M
332213	33221P					339943	33994M
332214	33221N			33593	33593	339944	33994M
				335931	33593M		
33231	33231	33361	33361	335932	33593M	33995	33995
332311	33231M	333612	333612			339950	339950
332312	33231M	333613	333613	33599	33599		
332313	33231M	333618	333618	335991	335991	33999	33999
				335999	335999	339991	339991
						339992	339992
33232	33232	33391	33391			339993	339993
332321	33232M	333911	333911	33611	33611	339994	339994
332322	33232M	333912	333912	336111	336111	339995	339995
332323	33232M	333913	333913	336112	336112	339999	339999

