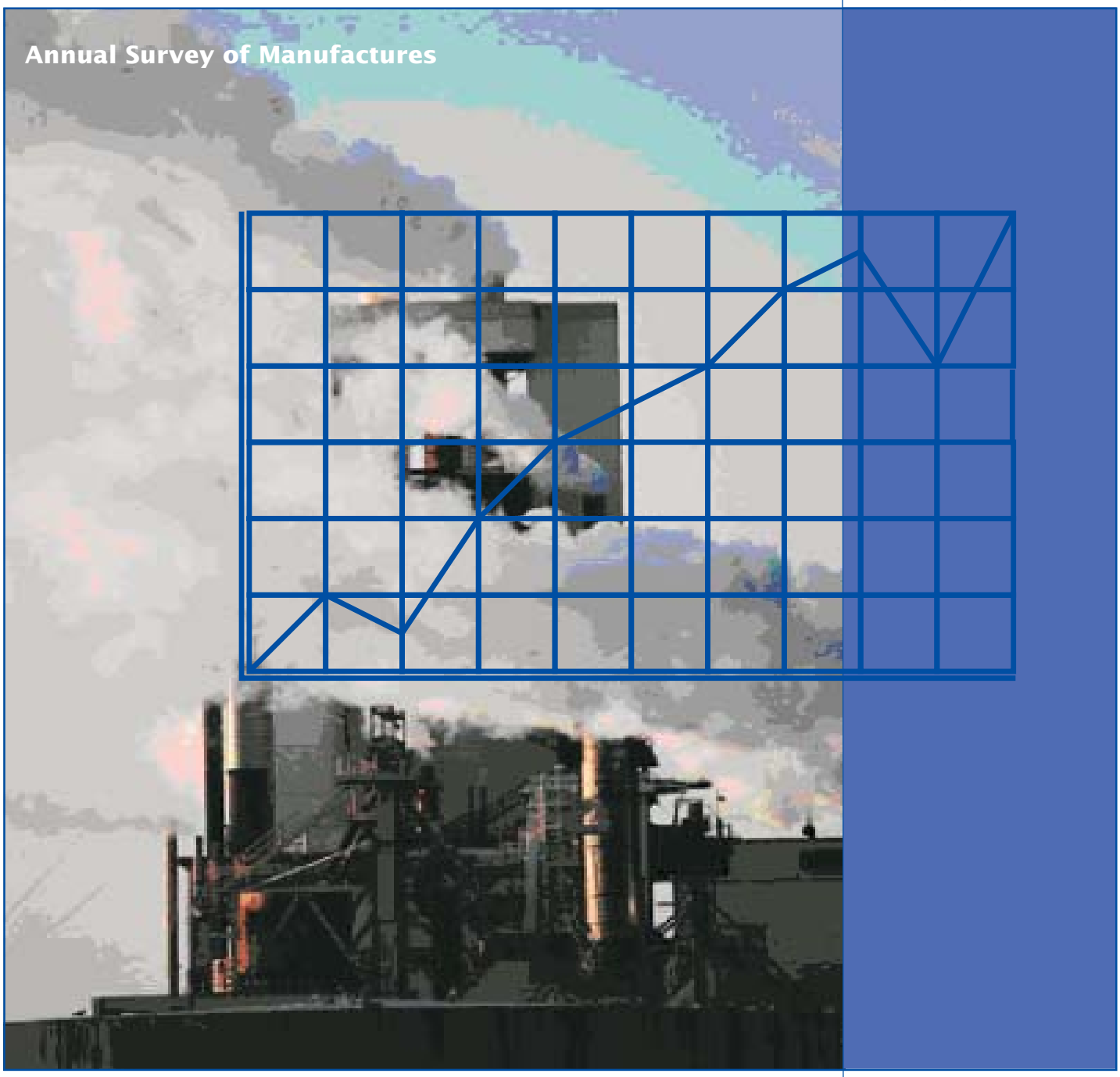
Statistics for Industry Groups and Industries: 2001

Issued January 2003

M01(AS)-1



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

Helping You Make Informed Decisions

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

ACKNOWLEDGMENTS

The staff of the Manufacturing and Construction Division prepared this report. **Judy M. Dodds,** Assistant Chief for Census and Related Programs, was responsible for the overall planning, management, and coordination. **Robert Reinard,** Chief, Consumer Goods Industries Branch, assisted by **Suzanne Conard, Kaylene Hanks,** and **Jim Jamski,** Section Chiefs, **Kenneth Hansen,** Chief, Investment Goods Industries Branch, assisted by **Mike Brown, Chris Savage,** and **Milbren Thomas,** Section Chiefs, **Nathaniel Shelton,** Chief, Primary Goods Industries Branch, assisted by **Nancy Higgins, Paul Marck,** and **Joanna Nguyen,** Section Chiefs, and **Robert Rosati** and **Tom Flood,** Special Assistants, performed the planning and implementation. **Timothy Althouse, Stephanie Angel, Bill Baldwin, Melissa Berry, Chris Blackburn, Luis Blanco, Larry Blumberg, Phillip Brown, Brenda Campbell, Theresa Crowley, Chris Cunningham, Vance Davis, Tracy Fenwick, Marquita Flemmings, Melinda Ford, Allen Foreman, Kellie Friedrich, Matthew Harris, Vera Harris-Bourne, Karen Harshbarger, James Hinckley, Richard Hough, Walter Hunter, Tom Ickes, Deborah Johnson, Marvella Jones, Evelyn Jordan, Cathy Knudsen, Robert Lee, Jennifer Leotta, John Linehan, Keith McKenzie, Philippe Morris, Betty Pannell, Bridgett Parker-Bell, Gloria Peebles-Butler, Michael Perkinson, Deanna Pickerall, Jazmin Rose, LaTanya Steele, Aronda Stovall, Sue Sundermann, Athanasios Theodoropoulos, Dora Thomas, Ronanne Vinson, Keeley Voor, Denneth Wallace, Danielle Welch, Tempie Whittington,** and **Ernest Wilson** provided primary staff assistance.

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

Mendel D. Gayle, Chief, Forms, Publications, and Customer Services Branch, assisted by **Kimberly DePhillip** and **Baruti Taylor,** Section Chiefs, performed overall coordination of the publication process. **Patrick Duck, Chip Murph, Wanda Sledd,** and **Veronica White** provided primary staff assistance.

The Economic Planning and Coordination Division, **Lawrence A. Blum,** Assistant Chief for Collection Activities and **Beverly M. Eng,** Assistant Chief for Post-Collection Current Activities, assisted by **Dennis Shoemaker,** Chief, Analytical Branch, and **Brandy Yarbrough,** Chief, Edit Branch, and **Sheila Proudfoot, Richard Williamson,** and **Andrew W. Hait** were responsible for developing the systems and procedures for data collection, editing, review, correction and dissemination.

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

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

The Economic Statistical Methods and Programming Division, **Howard Hogan,** Chief, developed and coordinated the computer processing systems. **Barry Sessamen,** Assistant Chief for Post Collection, assisted by **Gary T. Sheridan,** Chief, Macro Analytical Branch, **Edward Johnson,** Section Chief, supervised the preparation of the computer programs and was responsible for the design and implementation of the computer systems.

Computer Services Division, **Kenneth Riccini,** Chief, performed the computer processing.

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

Statistics for Industry Groups and Industries: 2001

Issued January 2003

M01(AS)-1

Annual Survey of Manufactures

U.S. Department of Commerce
Donald L. Evans,
Secretary
Samuel W. Bodman,
Deputy Secretary

Economics and Statistics Administration
Kathleen B. Cooper,
Under Secretary
for Economic Affairs

U.S. CENSUS BUREAU
Charles Louis Kincannon,
Director

ECONOMICS
AND STATISTICS
ADMINISTRATION

Economics and Statistics Administration

Kathleen B. Cooper,
Under Secretary
for Economic Affairs

U.S. CENSUS BUREAU

Charles Louis Kincannon,
Director

Hermann Habermann,
Deputy Director and
Chief Operating Officer

Nancy M. Gordon,
Acting Principal Associate
Director for Programs

Frederick T. Knickerbocker,
Associate Director
for Economic Programs

Thomas L. Mesenbourg,
Assistant Director
for Economic Programs

William G. Bostic, Jr.,
Chief, Manufacturing
and Construction Division

CONTENTS

Introduction v

Tables

1. Statistics for All Manufacturing Establishments: 2001 and Earlier Years 1
2. Statistics for Industry Groups and Industries: 2001 and Earlier Years 2
3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years 50
4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years 97
5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years 145
6. Value of Manufactuurers' Inventories by Stage of Fabrication for Industry Groups and Industries: Beginning and End of Year .. 193

Appendixes

A. Explanation of Terms A–1
B. Coverage and Methodology B–1

Introduction

SCOPE

The Annual Survey of Manufactures (ASM) provides sample estimates of statistics for all manufacturing establishments with one or more paid employee. Manufacturing is defined as the mechanical, physical, or chemical transformation of materials or substances into new products. The assembly of components into new products is also considered manufacturing, except when it is appropriately classified as construction.

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

GENERAL

This report presents manufacturing establishment statistics from the 2000 Annual Survey of Manufactures (ASM). Three reports are issued from this survey.

The report *Statistics for Industry Groups and Industries* presents 2000 and earlier years data at the three-, four-, five-, and six-digit North American Industry Classification System (NAICS) levels. The 1997 data are from the 1997 Economic Census and include revisions made to the data since its initial release. The report also includes a historic table with data for the all-manufacturing level back to 1977. This report includes statistics for employment, payroll, value added by manufacture, cost of materials consumed, value of shipments, detailed capital expenditures, supplemental labor costs, fuels and electric energy used, and inventories by stage of fabrication.

The report *Geographic Area Statistics* presents similar data for each state and the District of Columbia. This report includes statistics at the NAICS three- and four-digit levels 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 state level.

The report *Value of Product Shipments* presents shipments data for the 473 six-digit NAICS product groups and approximately 1,500 seven-digit NAICS product classes.

COMPARABILITY WITH HISTORIC DATA

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census 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 Census Bureau published "new capital expenditures" in the past, starting with 1997 it is publishing "total capital expenditures." The historic data presented in this report have been adjusted to be consistent with the new policy.

DISCLOSURE

In accordance with federal law governing census reports (Title 13, United States Code), no data are published that would disclose the operations of an individual company.

The disclosure analysis for the industry statistics files is based on the total value of shipments. When the total value of shipments cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. However, the

suppressed data are included in higher-level totals. A separate disclosure analysis is performed for capital expenditures that can be suppressed even though value of shipments data are published.

AVAILABILITY OF MORE FREQUENT MANUFACTURING DATA

The Census Bureau conducts the ASM in each of the 4 years between the economic census, which is collected for years ending in 2 and 7. The economic census – manufacturing is the sample frame from which the ASM is chosen and presents more detailed data than the ASM.

In addition, the Census Bureau conducts a Current Industrial Reports (CIR) program. The CIR publishes 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.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments canvassed in the ASM was classified in 1 of 473 manufacturing industries in accordance with the industry definitions in the *1997 NAICS Manual*.

In the NAICS system, an industry is generally defined as a group of establishments that have similar production processes. To the extent practical, the system uses supply-based or production-oriented concepts in defining industries. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees.

The coding system works in such a way that the definitions progressively become narrower with successive additions of numerical digits. In the manufacturing sector, there are 21 subsectors (three-digit NAICS), 86 industry groups (four-digit NAICS), 184 NAICS industries (five-digit NAICS) that are comparable with Canadian and Mexican classification, and 473 U.S. industries (six-digit NAICS). Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they primarily originate. In the NAICS system, there are about 1,500 product classes (seven-digit codes), about 6,000 census products, and an additional 3,700 CIR products (ten-digit codes). The ten-digit products are considered the primary products of the industry with the same first six digits.

In the 1997 Economic Census – Manufacturing, all establishments were classified in particular industries based on the products they produced. If an establishment made products of more than one industry, it was classified in the industry with the largest product value. In the census years, there were no resistance rules or frozen industries.

In ASM years, establishments included in the ASM sample with certainty weights are reclassified by industry only if the change in the primary activity from the prior year is significant or if the change has occurred for two successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year. However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The results of these rules covering the switching of plants from one industry classification to another are that some industries comprise different mixes of establishments in different survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the six-digit NAICS level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

ESTABLISHMENT BASIS OF REPORTING

The ASM is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location or establishment 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.

DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

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

VALUE OF INDUSTRY SHIPMENTS COMPARED WITH VALUE OF PRODUCT SHIPMENTS

The 1997 Economic Census – Manufacturing shows value of shipments data for industries and products. In the industry statistics tables and files, these data represent the total value of shipments of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries

(secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in the products statistics tables and files represent the total value of all products shipped that are classified as primary to an industry regardless of the classification of the producing establishment.

DOLLAR VALUES

All dollar values presented are expressed in current 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.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with the 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.
r	Revised.
nec	Not elsewhere classified.
nsk	Not specified by kind.
–	Represents zero (page image/print only).
NAICS	North American Industry Classification System.

Table 1. **Statistics for All Manufacturing Establishments: 2001 and Earlier Years**

[Data based on the 2001 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]

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 expendi-tures[7] ($1,000)
	Total	With 20 employees or more	Number[4]	Payroll ($1,000)	Number[4]	Hours (1,000)	Wages ($1,000)				
2001	N	N	15 879 477	593 050 590	11 235 111	22 346 746	342 990 489	1 853 929 431	2 104 865 642	3 970 499 812	143 651 531
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	16 792 800	467 040 300	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	17 579 400	472 622 300	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	17 794 800	463 045 300	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	17 917 500	450 775 700	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

[1]Statistics presented for years ending in 2 and 7 are census data. Interim census 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). For a discussion of the impact of this change on the data, see introductory text.

[2]Includes establishments with payroll at any time during year. Beginning in census year 1997, auxiliary establishments associated with manufacturing companies are classified separately. For 1992 and earlier census years, establishment counts for auxiliaries are excluded.

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

[4]Figures represent average number of production workers for payroll period ended nearest the 12th of March, May, August, and November, plus all other employees for payroll period ended nearest the 12th of March.

[5]Beginning 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.

[6]Data represent 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.

[7]Beginning in 1997, data collected are for total capital expenditures (new and used) only. Prior to 1997, only data for new capital expenditures were shown in this table. 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 2000 Annual Survey of Manufactures (ASM) because of changes encountered in subsequent review of the 2001 ASM.

Note 2: The data in this table are based on the 2001 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. Data users who create their own estimates using data from American FactFinder tables should cite the U.S. Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix B.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
31-33	**Manufacturing**	**2001..**	**15 879 477**	**593 050 590**	**11 235 111**	**22 346 746**	**342 990 489**	**1 853 929 431**	**2 104 865 642**	**3 970 499 812**	**1**	**1**
		2000..	**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**	**1**	**1**
		1999..	**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**	**1**	**1**
		1998..	**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**	**1**	**1**
		1997..	**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**	**X**	**X**
311	Food mfg	2001..	1 504 666	43 586 136	1 145 128	2 310 153	28 485 677	193 223 762	258 670 228	451 385 857	1	1
		2000..	1 505 642	42 657 764	1 149 631	2 327 200	27 897 267	184 973 580	251 568 953	435 229 643	1	1
		1999..	1 488 076	41 428 289	1 134 624	2 309 894	27 139 205	176 778 120	249 834 628	426 000 288	1	1
		1998..	1 498 667	39 659 857	1 140 157	2 314 849	26 159 910	173 416 414	255 053 796	428 478 276	1	1
		1997..	1 466 956	38 366 240	1 112 307	2 234 216	25 185 751	163 675 301	258 537 984	421 737 017	X	X
3111	Animal food mfg	2001..	49 549	1 699 904	31 931	67 025	962 245	9 799 795	16 964 073	26 724 933	2	4
		2000..	49 275	1 670 049	32 368	68 162	956 998	7 905 027	16 408 828	24 235 208	1	3
		1999..	48 302	1 604 699	32 363	65 425	948 193	8 183 766	16 345 979	24 489 698	1	3
		1998..	45 537	1 513 953	30 681	63 632	910 864	8 802 413	17 936 134	26 850 923	2	2
		1997..	46 651	1 478 617	30 138	62 625	845 669	8 779 741	18 991 516	27 732 347	X	X
31111	Animal food mfg	2001..	49 549	1 699 904	31 931	67 025	962 245	9 799 795	16 964 073	26 724 933	2	4
		2000..	49 275	1 670 049	32 368	68 162	956 998	7 905 027	16 408 828	24 235 208	1	3
		1999..	48 302	1 604 699	32 363	65 425	948 193	8 183 766	16 345 979	24 489 698	1	3
		1998..	45 537	1 513 953	30 681	63 632	910 864	8 802 413	17 936 134	26 850 923	2	2
		1997..	46 651	1 478 617	30 138	62 625	845 669	8 779 741	18 991 516	27 732 347	X	X
311111	Dog & cat food mfg	2001..	14 146	568 042	10 683	22 698	381 971	5 153 879	4 575 993	9 734 935	4	4
		2000..	14 766	583 793	11 512	25 134	390 032	4 283 007	4 471 446	8 751 420	3	4
		1999..	14 219	557 523	11 013	23 982	380 321	4 249 708	4 324 871	8 559 564	3	4
		1998..	14 088	528 068	10 824	23 958	370 073	4 396 812	4 548 587	8 967 129	1	1
		1997..	13 979	502 207	10 587	23 431	345 400	4 307 078	4 402 139	8 688 239	X	X
311119	Other animal food mfg	2001..	35 403	1 131 861	21 248	44 327	580 273	4 645 917	12 388 080	16 989 997	2	8
		2000..	34 510	1 086 257	20 856	43 028	566 966	3 622 021	11 937 382	15 483 787	1	5
		1999..	34 083	1 047 176	21 350	41 443	567 872	3 934 059	12 021 109	15 930 134	2	5
		1998..	31 449	985 885	19 857	39 675	540 791	4 405 601	13 387 547	17 883 794	3	4
		1997..	32 672	976 410	19 551	39 194	500 269	4 472 663	14 589 377	19 044 108	X	X
3112	Grain & oilseed milling	2001..	55 434	2 375 217	41 227	90 000	1 614 798	18 155 730	27 950 093	46 176 372	2	1
		2000..	57 344	2 387 522	42 653	93 095	1 636 337	17 758 416	27 233 510	44 831 451	2	1
		1999..	58 341	2 368 987	42 974	94 057	1 633 540	16 546 689	29 825 079	46 653 054	1	1
		1998..	56 957	2 307 268	42 113	93 421	1 600 437	16 161 532	33 906 000	50 033 519	2	1
		1997..	59 243	2 358 554	44 135	97 278	1 644 441	15 867 943	36 216 684	52 075 763	X	X
31121	Flour milling & malt mfg	2001..	16 621	593 248	12 338	26 826	380 385	2 324 584	6 205 697	8 564 897	4	4
		2000..	17 730	616 777	13 471	28 140	406 210	2 781 158	6 296 690	9 088 143	3	3
		1999..	17 272	585 693	12 754	27 101	383 907	2 377 407	6 572 315	9 000 907	2	4
		1998..	15 773	565 053	11 549	25 813	377 130	2 690 532	7 541 154	10 236 557	8	3
		1997..	17 877	618 434	13 185	28 430	410 382	2 689 069	8 462 546	11 141 876	X	X
311211	Flour milling	2001..	11 617	418 522	8 610	19 193	268 803	1 684 364	4 568 524	6 255 569	5	6
		2000..	12 599	441 371	9 581	20 020	293 275	2 116 021	4 498 712	6 612 109	3	4
		1999..	12 058	410 917	8 881	19 108	271 170	1 666 108	4 592 758	6 270 602	2	5
		1998..	10 892	392 853	8 043	17 993	266 705	1 863 965	5 471 831	7 359 803	11	3
		1997..	12 762	444 182	9 287	20 386	296 258	1 894 615	6 099 513	8 001 978	X	X
311212	Rice milling	2001..	4 130	135 748	3 129	6 468	88 563	511 351	1 263 368	1 809 569	7	5
		2000..	4 229	135 198	3 253	6 781	87 805	529 579	1 405 012	1 968 579	6	4
		1999..	4 347	136 637	3 262	6 701	89 001	604 917	1 622 885	2 246 113	5	5
		1998..	3 637	120 044	2 760	6 199	80 342	601 714	1 662 229	2 257 465	7	4
		1997..	3 805	118 318	2 986	6 277	80 451	587 737	1 810 862	2 364 582	X	X
311213	Malt mfg	2001..	875	38 978	599	1 165	23 019	128 869	373 805	499 759	1	1
		2000..	901	40 209	637	1 339	25 130	135 558	392 967	507 455	2	1
		1999..	866	38 139	611	1 292	23 736	106 381	356 673	484 192	2	1
		1998..	1 244	52 156	746	1 622	30 083	224 854	407 093	619 289	2	13
		1997..	1 310	55 934	912	1 767	33 673	206 717	552 171	775 316	X	X
31122	Starch & vegetable fats & oils mfg	2001..	24 794	1 042 020	17 322	37 819	651 201	7 130 780	19 044 229	26 198 647	3	2
		2000..	25 059	1 021 530	17 237	38 456	637 954	6 555 538	18 316 219	24 703 037	3	2
		1999..	26 333	1 032 121	18 068	39 990	644 328	5 960 179	20 686 078	26 878 204	3	1
		1998..	26 308	1 019 136	18 266	40 990	640 150	6 365 935	23 818 000	30 152 704	1	2
		1997..	26 970	1 022 051	19 142	42 829	653 109	6 622 646	25 190 746	31 835 054	X	X
311221	Wet corn milling	2001..	8 632	439 239	5 676	13 234	267 196	2 869 704	4 710 107	7 582 557	8	2
		2000..	9 154	442 997	5 850	13 600	271 015	2 871 371	4 505 014	7 335 021	7	2
		1999..	9 116	416 953	5 815	13 151	257 235	2 936 073	4 675 000	7 657 388	7	2
		1998..	9 324	414 259	5 989	13 898	264 133	3 007 261	4 988 033	7 972 104	1	1
		1997..	9 217	422 533	6 372	14 726	274 677	3 071 056	5 361 443	8 455 172	X	X
311222	Soybean processing	2001..	6 630	266 295	4 694	10 325	162 295	2 253 091	8 829 849	11 030 540	1	1
		2000..	6 542	254 215	4 617	10 274	156 449	1 655 686	8 545 930	10 113 110	1	1
		1999..	6 476	247 068	4 520	10 091	151 203	1 384 121	9 541 841	11 014 419	1	1
		1998..	6 388	238 814	4 486	10 017	142 989	1 402 993	11 250 793	12 696 171	1	1
		1997..	6 601	229 727	4 560	10 207	140 346	1 623 082	12 449 318	14 036 271	X	X
311223	Other oilseed processing	2001..	1 834	62 585	1 274	2 822	37 487	294 723	1 007 257	1 367 185	11	19
		2000..	1 924	64 012	1 286	2 843	35 454	299 783	1 081 780	1 327 282	8	20
		1999..	1 859	59 807	1 288	2 906	34 878	145 282	1 160 285	1 407 875	8	25
		1998..	2 642	72 330	1 892	4 291	44 404	365 702	1 513 193	1 804 857	1	31
		1997..	2 667	73 451	1 949	4 474	45 528	246 561	1 419 419	1 720 738	X	X
311225	Fats & oils refining & blending	2001..	7 698	273 900	5 678	11 439	184 224	1 713 262	4 497 017	6 218 365	5	6
		2000..	7 439	260 307	5 485	11 739	175 036	1 728 698	4 183 496	5 927 625	4	6
		1999..	8 882	308 294	6 446	13 841	201 011	1 494 702	5 308 952	6 798 523	3	3
		1998..	7 954	293 733	5 899	12 785	188 623	1 589 978	6 065 981	7 679 572	1	1
		1997..	8 485	296 340	6 261	13 422	192 558	1 681 947	5 960 566	7 622 873	X	X
31123	Breakfast cereal mfg	2001..	14 018	739 949	11 567	25 355	583 212	8 700 367	2 700 167	11 412 828	1	2
		2000..	14 555	749 214	11 945	26 499	592 173	8 421 720	2 620 601	11 040 270	1	2
		1999..	14 737	751 173	12 151	26 967	605 305	8 209 103	2 566 686	10 773 943	1	1
		1998..	14 876	723 079	12 297	26 618	583 158	7 105 065	2 546 846	9 644 259	1	1
		1997..	14 396	718 069	11 808	26 019	580 950	6 556 228	2 563 392	9 098 833	X	X
311230	Breakfast cereal mfg	2001..	14 018	739 949	11 567	25 355	583 212	8 700 367	2 700 167	11 412 828	1	2
		2000..	14 555	749 214	11 945	26 499	592 173	8 421 720	2 620 601	11 040 270	1	2
		1999..	14 737	751 173	12 151	26 967	605 305	8 209 103	2 566 686	10 773 943	1	1
		1998..	14 876	723 079	12 297	26 618	583 158	7 105 065	2 546 846	9 644 259	1	1
		1997..	14 396	718 069	11 808	26 019	580 950	6 556 228	2 563 392	9 098 833	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
311	Food mfg—Con.											
3113	Sugar & confectionery product mfg	2001..	84 755	2 729 850	67 013	130 357	1 926 022	13 823 406	11 710 913	25 515 879	3	2
		2000..	83 955	2 675 635	67 765	134 283	1 901 544	13 701 950	12 078 674	25 691 038	3	1
		1999..	84 588	2 638 906	68 782	138 500	1 879 434	13 062 119	12 121 540	25 007 834	2	1
		1998..	83 886	2 623 450	68 737	138 604	1 832 329	12 945 655	12 660 957	25 443 770	3	1
		1997..	84 876	2 560 362	67 211	135 962	1 768 465	11 876 056	12 370 300	24 114 454	X	X
31131	Sugar mfg	2001..	15 248	616 427	11 794	26 002	457 140	1 931 267	4 295 464	6 284 363	2	2
		2000..	16 352	630 094	12 868	29 010	469 918	2 243 820	4 791 502	6 947 384	2	1
		1999..	16 724	641 668	13 254	30 158	473 728	2 326 922	5 044 478	7 266 424	2	1
		1998..	16 638	624 595	13 195	31 060	454 179	2 275 655	5 305 764	7 496 192	1	4
		1997..	16 547	611 488	12 869	29 934	438 761	2 156 119	5 318 013	7 399 171	X	X
311311	Sugarcane mills	2001..	4 644	156 856	3 136	7 340	119 403	590 782	833 216	1 410 097	5	3
		2000..	4 928	158 222	3 408	7 970	117 157	703 245	799 957	1 485 068	5	3
		1999..	5 090	163 002	3 662	8 342	119 311	698 722	850 411	1 493 486	5	3
		1998..	4 873	158 635	3 478	8 672	104 525	731 108	870 161	1 501 421	1	11
		1997..	4 938	167 589	3 362	8 768	109 506	647 496	872 054	1 457 482	X	X
311312	Cane sugar refining	2001..	3 590	199 328	2 547	5 747	128 346	311 706	2 004 292	2 331 465	1	1
		2000..	3 866	203 249	2 899	7 076	134 976	575 109	2 373 424	2 927 237	1	1
		1999..	4 140	220 169	3 106	7 511	145 035	585 983	2 493 878	3 081 711	1	1
		1998..	3 938	198 015	2 864	7 182	131 442	596 782	2 726 916	3 321 974	1	1
		1997..	3 891	191 663	2 823	6 833	126 215	540 141	2 677 639	3 209 186	X	X
311313	Beet sugar mfg	2001..	7 015	260 243	6 111	12 915	209 391	1 028 778	1 457 956	2 542 801	2	4
		2000..	7 557	268 623	6 561	13 964	217 786	965 466	1 618 121	2 535 079	1	3
		1999..	7 494	258 497	6 486	14 304	209 383	1 042 216	1 700 189	2 691 227	1	2
		1998..	7 828	267 945	6 853	15 207	218 212	947 765	1 708 687	2 672 796	1	3
		1997..	7 718	252 236	6 684	14 333	203 040	968 482	1 768 320	2 732 503	X	X
31132	Chocolate & confectionery mfg from cacao beans	2001..	9 045	347 300	7 509	14 636	255 593	2 550 010	2 044 411	4 552 566	3	12
		2000..	9 083	342 949	7 654	14 772	254 643	2 199 295	1 960 349	4 174 915	1	5
		1999..	8 945	330 736	7 406	14 111	247 150	2 041 096	1 928 418	3 959 097	1	1
		1998..	10 000	361 589	7 909	15 530	252 014	2 520 035	2 149 800	4 576 248	1	1
		1997..	9 946	383 045	7 350	14 366	248 383	1 821 177	1 925 201	3 755 268	X	X
311320	Chocolate & confectionery mfg from cacao beans	2001..	9 045	347 300	7 509	14 636	255 593	2 550 010	2 044 411	4 552 566	3	12
		2000..	9 083	342 949	7 654	14 772	254 643	2 199 295	1 960 349	4 174 915	1	5
		1999..	8 945	330 736	7 406	14 111	247 150	2 041 096	1 928 418	3 959 097	1	1
		1998..	10 000	361 589	7 909	15 530	252 014	2 520 035	2 149 800	4 576 248	1	1
		1997..	9 946	383 045	7 350	14 366	248 383	1 821 177	1 925 201	3 755 268	X	X
31133	Confectionery mfg from purchased chocolate	2001..	36 978	997 819	27 941	52 160	703 509	5 617 224	3 252 406	8 852 121	4	2
		2000..	35 581	946 099	27 851	52 866	675 604	5 680 096	3 267 074	8 973 200	4	2
		1999..	33 564	888 997	27 556	52 250	639 429	5 383 823	3 132 479	8 464 301	2	2
		1998..	29 859	865 521	25 870	50 073	615 745	4 856 856	3 136 235	8 010 409	9	2
		1997..	32 871	856 440	26 670	52 257	605 617	4 815 479	3 126 892	7 879 752	X	X
311330	Confectionery mfg from purchased chocolate	2001..	36 978	997 819	27 941	52 160	703 509	5 617 224	3 252 406	8 852 121	4	2
		2000..	35 581	946 099	27 851	52 866	675 604	5 680 096	3 267 074	8 973 200	4	2
		1999..	33 564	888 997	27 556	52 250	639 429	5 383 823	3 132 479	8 464 301	2	2
		1998..	29 859	865 521	25 870	50 073	615 745	4 856 856	3 136 235	8 010 409	9	2
		1997..	32 871	856 440	26 670	52 257	605 617	4 815 479	3 126 892	7 879 752	X	X
31134	Nonchocolate confectionery mfg	2001..	23 484	768 304	19 768	37 559	509 781	3 724 906	2 118 632	5 826 829	10	3
		2000..	22 940	756 493	19 393	37 635	501 378	3 578 738	2 059 749	5 595 538	10	3
		1999..	25 356	777 505	20 566	41 982	519 127	3 310 278	2 016 167	5 318 012	5	2
		1998..	27 389	771 744	21 764	41 941	510 390	3 293 108	2 069 158	5 360 921	1	1
		1997..	25 512	709 389	20 322	39 405	475 704	3 083 281	2 000 194	5 080 263	X	X
311340	Nonchocolate confectionery mfg	2001..	23 484	768 304	19 768	37 559	509 781	3 724 906	2 118 632	5 826 829	10	3
		2000..	22 940	756 493	19 393	37 635	501 378	3 578 738	2 059 749	5 595 538	10	3
		1999..	25 356	777 505	20 566	41 982	519 127	3 310 278	2 016 167	5 318 012	5	2
		1998..	27 389	771 744	21 764	41 941	510 390	3 293 108	2 069 158	5 360 921	1	1
		1997..	25 512	709 389	20 322	39 405	475 704	3 083 281	2 000 194	5 080 263	X	X
3114	Fruit & vegetable preserving & specialty food mfg	2001..	176 783	5 131 567	151 541	299 299	3 726 647	27 369 758	24 970 486	52 262 484	2	1
		2000..	180 714	5 130 575	153 992	309 637	3 727 331	25 888 112	24 401 536	50 332 386	2	1
		1999..	180 157	5 045 326	153 726	307 894	3 644 045	25 232 694	24 345 613	49 492 495	1	1
		1998..	189 160	4 943 653	158 175	318 481	3 604 147	24 733 117	24 313 619	49 097 713	1	1
		1997..	191 576	4 884 327	160 480	316 216	3 537 478	23 360 633	23 223 370	46 618 107	X	X
31141	Frozen food mfg	2001..	89 209	2 453 931	76 361	147 409	1 765 004	11 497 691	10 468 777	21 973 437	2	2
		2000..	91 461	2 427 881	77 759	155 583	1 765 315	11 140 674	10 255 159	21 395 904	1	1
		1999..	92 667	2 359 978	79 571	155 021	1 700 832	10 423 486	10 254 612	20 676 863	1	1
		1998..	96 753	2 286 935	81 537	159 503	1 677 037	10 549 572	10 453 498	20 976 865	1	1
		1997..	94 192	2 192 511	80 207	154 464	1 596 889	9 876 210	9 772 579	19 691 664	X	X
311411	Frozen fruit, juice, & vegetable mfg	2001..	42 454	1 139 322	36 631	70 476	842 172	4 714 144	5 311 510	10 032 135	2	2
		2000..	43 588	1 105 085	37 650	74 897	825 881	4 772 370	5 045 255	9 822 187	2	2
		1999..	44 469	1 079 764	38 511	75 489	796 408	4 395 439	4 989 394	9 379 090	1	2
		1998..	49 461	1 101 281	41 499	82 260	828 926	4 748 750	5 133 536	9 862 524	2	1
		1997..	46 295	1 047 390	40 130	77 362	790 742	4 507 930	4 995 138	9 549 256	X	X
311412	Frozen specialty food mfg	2001..	46 755	1 314 609	39 730	76 933	922 832	6 783 547	5 157 267	11 941 302	2	2
		2000..	47 874	1 322 796	40 108	80 686	939 434	6 368 303	5 209 904	11 573 716	2	2
		1999..	48 198	1 280 215	41 060	79 532	904 424	6 028 046	5 265 219	11 297 772	1	1
		1998..	47 291	1 185 654	40 038	77 243	848 111	5 800 821	5 319 961	11 114 342	1	1
		1997..	47 897	1 145 121	40 077	77 102	806 147	5 368 280	4 777 441	10 142 408	X	X
31142	Fruit & vegetable canning, pickling, & drying	2001..	87 574	2 677 636	75 181	151 890	1 961 643	15 872 067	14 501 708	30 289 047	3	2
		2000..	89 253	2 702 694	76 233	154 054	1 962 016	14 747 438	14 146 376	28 936 482	3	1
		1999..	87 490	2 685 348	74 155	152 872	1 943 212	14 809 208	14 091 001	28 815 633	3	2
		1998..	92 407	2 656 718	76 638	158 979	1 927 110	14 183 546	13 860 121	28 120 848	1	1
		1997..	97 384	2 691 816	80 273	161 752	1 940 589	13 484 423	13 450 791	26 926 443	X	X
311421	Fruit & vegetable canning	2001..	59 172	1 803 749	50 912	101 694	1 321 252	9 016 895	9 420 532	18 321 591	4	2
		2000..	60 972	1 818 597	52 344	104 973	1 312 000	8 116 781	9 642 220	17 732 611	5	2
		1999..	58 769	1 796 809	50 187	102 729	1 291 120	7 846 184	9 607 709	17 394 635	4	3
		1998..	63 526	1 758 331	53 049	109 409	1 276 359	7 520 952	9 328 313	16 878 471	1	1
		1997..	63 612	1 709 578	52 561	105 423	1 230 906	6 940 605	8 877 038	15 801 279	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
311	Food mfg—Con.											
3114	Fruit & vegetable preserving & specialty food mfg—Con.											
31142	Fruit & vegetable canning, pickling, & drying—Con.											
311422	Specialty canning	2001..	15 034	507 770	12 804	26 668	384 555	5 177 661	3 039 478	8 227 354	4	3
		2000..	15 783	515 535	13 298	26 906	398 229	5 146 885	2 703 774	7 849 398	2	1
		1999..	15 809	512 213	13 276	27 423	396 552	5 333 567	2 730 639	8 067 805	3	2
		1998..	16 156	536 661	13 084	28 716	408 771	5 375 221	2 918 936	8 293 179	1	1
		1997..	19 157	602 615	15 880	33 399	456 780	5 185 647	2 864 243	8 051 059	X	X
311423	Dried & dehydrated food mfg	2001..	13 369	366 117	11 465	23 527	255 836	1 677 511	2 041 698	3 740 101	8	4
		2000..	12 498	368 562	10 591	22 174	251 786	1 483 773	1 800 382	3 354 473	5	4
		1999..	12 912	376 325	10 692	22 721	255 541	1 629 457	1 752 653	3 353 193	3	3
		1998..	12 725	361 725	10 505	20 853	241 980	1 287 373	1 612 872	2 949 198	2	4
		1997..	14 615	379 623	11 832	22 930	252 903	1 358 171	1 709 510	3 074 105	X	X
3115	Dairy product mfg	2001..	132 151	4 714 625	88 105	182 450	2 805 894	20 832 128	44 795 343	65 512 415	2	1
		2000..	132 262	4 578 182	87 388	179 960	2 712 468	20 073 381	40 825 188	60 780 305	1	1
		1999..	131 865	4 391 105	87 344	179 569	2 589 248	18 671 474	43 116 845	61 724 840	1	1
		1998..	132 765	4 202 894	86 159	181 230	2 470 432	18 873 228	43 789 308	62 479 070	1	2
		1997..	131 868	4 139 799	84 607	179 038	2 409 530	17 621 758	41 061 093	58 670 293	X	X
31151	Dairy product (except frozen) mfg	2001..	113 216	4 096 995	74 434	155 825	2 377 577	17 470 119	41 412 219	58 765 369	2	2
		2000..	112 670	3 958 895	73 702	153 270	2 300 970	17 000 741	37 555 954	54 440 561	2	1
		1999..	111 833	3 767 769	73 219	151 090	2 173 076	16 408 491	39 882 443	56 232 365	1	1
		1998..	112 642	3 574 639	71 719	151 276	2 056 413	16 619 432	40 098 600	56 522 554	1	2
		1997..	112 082	3 533 105	70 363	148 903	2 018 627	15 071 625	37 748 615	52 812 384	X	X
311511	Fluid milk mfg	2001..	57 222	2 116 153	30 580	65 640	1 047 786	8 229 673	16 667 720	24 893 015	2	2
		2000..	57 862	2 062 439	30 278	64 379	1 019 787	7 787 221	16 005 487	23 764 079	2	2
		1999..	57 815	1 974 296	30 582	65 394	972 108	7 244 851	16 264 146	23 440 007	2	2
		1998..	57 413	1 907 404	30 290	65 585	945 398	6 715 279	16 542 485	23 247 151	1	2
		1997..	57 638	1 897 820	30 017	64 775	931 111	6 284 684	15 718 803	21 995 148	X	X
311512	Creamery butter mfg	2001..	1 483	51 579	1 128	2 315	35 097	329 631	1 554 448	1 866 395	1	16
		2000..	1 381	48 455	1 016	2 198	33 741	234 392	1 065 298	1 305 821	2	3
		1999..	1 546	52 328	1 047	2 302	33 288	226 956	1 182 340	1 406 578	2	3
		1998..	1 738	57 012	1 058	2 235	32 258	260 264	1 342 841	1 600 499	2	2
		1997..	1 827	56 524	1 138	2 377	32 564	241 876	1 133 899	1 367 548	X	X
311513	Cheese mfg	2001..	37 005	1 208 658	32 162	64 525	925 228	4 753 517	17 256 267	21 935 851	4	3
		2000..	36 186	1 166 191	31 708	63 669	896 603	4 764 085	15 015 688	19 755 070	4	2
		1999..	36 143	1 096 193	31 017	61 390	851 011	4 918 258	17 374 578	22 343 471	3	2
		1998..	36 566	1 001 062	29 677	60 270	759 402	5 402 961	17 257 062	22 553 035	1	5
		1997..	36 543	1 005 266	29 019	59 587	744 368	4 376 509	15 858 773	20 232 146	X	X
311514	Dry, condensed, & evaporated dairy product mfg	2001..	17 506	720 604	10 564	23 345	369 466	4 157 299	5 933 783	10 070 108	3	4
		2000..	17 240	681 810	10 699	23 024	350 839	4 215 043	5 469 481	9 615 591	2	4
		1999..	16 329	644 951	10 573	22 004	316 669	4 018 426	5 061 379	9 042 309	3	3
		1998..	16 925	609 160	10 694	23 186	319 356	4 240 928	4 956 213	9 121 869	2	3
		1997..	16 074	573 495	10 189	22 164	310 584	4 168 556	5 037 140	9 217 542	X	X
31152	Ice cream & frozen dessert mfg	2001..	18 935	617 630	13 671	26 626	428 317	3 362 009	3 383 124	6 747 046	4	2
		2000..	19 591	619 287	13 686	26 690	411 498	3 072 640	3 269 234	6 339 744	4	2
		1999..	20 032	623 337	14 125	28 478	416 172	2 262 982	3 234 402	5 492 475	2	2
		1998..	20 123	628 255	14 440	29 954	414 019	2 253 796	3 690 707	5 956 516	1	4
		1997..	19 786	606 694	14 244	30 135	390 903	2 550 133	3 312 478	5 857 909	X	X
311520	Ice cream & frozen dessert mfg	2001..	18 935	617 630	13 671	26 626	428 317	3 362 009	3 383 124	6 747 046	4	2
		2000..	19 591	619 287	13 686	26 690	411 498	3 072 640	3 269 234	6 339 744	4	2
		1999..	20 032	623 337	14 125	28 478	416 172	2 262 982	3 234 402	5 492 475	2	2
		1998..	20 123	628 255	14 440	29 954	414 019	2 253 796	3 690 707	5 956 516	1	4
		1997..	19 786	606 694	14 244	30 135	390 903	2 550 133	3 312 478	5 857 909	X	X
3116	Meat product mfg	2001..	493 369	11 949 568	427 254	901 074	9 131 621	38 051 151	87 473 495	125 411 008	1	1
		2000..	485 851	11 502 159	419 539	889 014	8 772 485	35 601 251	83 978 359	119 365 093	1	1
		1999..	477 936	11 204 511	412 578	878 326	8 535 348	33 842 533	78 016 437	111 551 022	1	1
		1998..	468 008	10 458 451	401 228	843 885	8 037 862	32 171 147	77 034 101	109 414 474	1	1
		1997..	464 991	9 917 710	397 935	818 777	7 577 675	30 172 670	82 899 684	112 979 006	X	X
31161	Animal slaughtering & processing	2001..	493 369	11 949 568	427 254	901 074	9 131 621	38 051 151	87 473 495	125 411 008	1	1
		2000..	485 851	11 502 159	419 539	889 014	8 772 485	35 601 251	83 978 359	119 365 093	1	1
		1999..	477 936	11 204 511	412 578	878 326	8 535 348	33 842 533	78 016 437	111 551 022	1	1
		1998..	468 008	10 458 451	401 228	843 885	8 037 862	32 171 147	77 034 101	109 414 474	1	1
		1997..	464 991	9 917 710	397 935	818 777	7 577 675	30 172 670	82 899 684	112 979 006	X	X
311611	Animal (except poultry) slaughtering	2001..	144 729	3 860 662	126 102	292 003	3 050 384	10 230 361	50 389 114	60 590 406	1	2
		2000..	144 427	3 788 669	125 646	291 557	3 001 465	10 188 788	48 478 467	58 592 937	1	2
		1999..	142 640	3 619 382	123 532	285 615	2 839 246	9 652 597	43 001 900	52 565 415	1	2
		1998..	139 986	3 391 640	121 262	276 093	2 688 721	8 088 824	41 834 282	50 039 427	1	1
		1997..	141 882	3 245 551	121 122	265 166	2 524 092	8 589 698	45 718 375	54 284 253	X	X
311612	Meat processed from carcasses	2001..	107 060	3 031 677	86 321	181 933	2 024 217	10 804 055	17 312 549	28 038 686	1	2
		2000..	100 222	2 876 754	80 559	173 706	1 921 264	10 562 829	15 815 005	26 286 809	1	2
		1999..	98 494	2 785 669	78 575	170 798	1 870 214	9 054 177	15 761 412	24 752 827	1	2
		1998..	94 420	2 569 379	74 805	157 133	1 736 036	9 020 741	15 420 709	24 415 996	1	1
		1997..	90 002	2 347 336	72 029	145 714	1 591 598	8 242 526	15 995 769	24 260 511	X	X
311613	Rendering & meat byproduct processing	2001..	10 865	345 748	6 734	14 026	179 784	1 178 710	1 054 190	2 252 485	3	6
		2000..	10 061	315 363	5 746	12 358	153 973	1 088 345	1 034 672	2 123 684	2	6
		1999..	9 017	292 497	4 949	10 943	140 397	981 104	925 293	1 906 659	2	6
		1998..	8 704	273 286	5 120	10 008	145 617	1 166 516	1 124 906	2 285 306	2	4
		1997..	8 798	268 952	5 033	10 572	128 710	1 254 647	1 311 993	2 556 547	X	X
311615	Poultry processing	2001..	230 715	4 711 480	208 097	413 111	3 877 237	15 838 025	18 717 641	34 529 431	1	1
		2000..	231 140	4 521 373	207 588	411 393	3 695 783	13 761 289	18 650 214	32 361 663	1	1
		1999..	227 785	4 506 963	205 522	410 970	3 685 491	14 154 656	18 327 832	32 326 121	1	1
		1998..	224 898	4 224 147	200 041	400 652	3 467 487	13 895 067	18 654 205	32 673 744	1	1
		1997..	224 309	4 055 871	199 751	397 325	3 333 275	12 085 799	19 873 547	31 877 695	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
311	Food mfg—Con.											
3117	Seafood product preparation & packaging	2001..	41 319	998 597	34 251	67 599	648 593	3 380 445	5 452 437	8 831 938	5	6
		2000..	42 273	983 433	34 803	64 556	643 334	2 991 215	5 539 364	8 511 008	4	5
		1999..	41 224	938 300	33 551	64 321	616 630	2 696 655	5 175 465	7 873 799	4	4
		1998..	42 200	894 997	35 224	62 462	619 067	2 954 624	4 693 830	7 643 543	2	5
		1997..	40 763	886 350	33 483	63 231	605 813	2 512 047	4 412 177	6 919 210	X	X
31171	Seafood product preparation & packaging	2001..	41 319	998 597	34 251	67 599	648 593	3 380 445	5 452 437	8 831 938	5	6
		2000..	42 273	983 433	34 803	64 556	643 334	2 991 215	5 539 364	8 511 008	4	5
		1999..	41 224	938 300	33 551	64 321	616 630	2 696 655	5 175 465	7 873 799	4	4
		1998..	42 200	894 997	35 224	62 462	619 067	2 954 624	4 693 830	7 643 543	2	5
		1997..	40 763	886 350	33 483	63 231	605 813	2 512 047	4 412 177	6 919 210	X	X
311711	Seafood canning	2001..	5 005	131 744	3 943	8 476	82 574	407 429	754 771	1 162 439	10	6
		2000..	5 158	124 656	4 151	7 806	76 166	349 618	647 886	998 589	8	7
		1999..	5 385	141 284	4 150	7 874	85 473	364 257	653 078	1 016 030	8	4
		1998..	5 553	122 176	4 441	7 773	75 622	313 021	516 907	830 740	2	8
		1997..	5 371	121 870	4 253	7 645	73 888	330 603	533 089	862 118	X	X
311712	Fresh & frozen seafood processing	2001..	36 314	866 853	30 308	59 123	566 019	2 973 017	4 697 666	7 669 499	5	7
		2000..	37 116	858 778	30 651	56 750	567 168	2 641 597	4 891 479	7 512 420	5	6
		1999..	35 839	797 017	29 401	56 447	531 158	2 332 398	4 522 387	6 857 769	5	5
		1998..	36 647	772 820	30 783	54 689	543 445	2 641 602	4 176 924	6 812 803	2	5
		1997..	35 392	764 480	29 230	55 586	531 925	2 181 444	3 879 088	6 057 092	X	X
3118	Bakeries & tortilla mfg	2001..	323 326	9 185 568	197 120	370 176	4 923 376	31 885 196	17 300 390	49 132 718	2	3
		2000..	319 114	8 924 816	197 339	363 668	4 772 125	31 048 233	16 931 598	47 980 703	2	2
		1999..	314 931	8 659 497	191 828	361 773	4 623 649	30 071 316	16 614 746	46 636 448	1	2
		1998..	328 984	8 275 620	205 546	395 626	4 499 011	28 608 140	17 141 720	45 715 975	1	1
		1997..	298 300	7 802 377	185 122	345 366	4 252 283	27 160 518	16 561 544	43 722 668	X	X
31181	Bread & bakery product mfg	2001..	247 122	6 895 449	136 501	256 078	3 353 033	20 928 685	10 306 554	31 219 164	3	4
		2000..	244 476	6 700 653	138 878	252 121	3 258 844	20 414 757	10 114 972	30 526 046	2	3
		1999..	240 480	6 438 163	134 079	249 222	3 099 310	19 171 145	9 609 469	28 701 149	2	3
		1998..	254 741	6 101 771	147 876	283 117	2 999 111	17 960 183	9 842 116	27 762 346	1	1
		1997..	222 596	5 582 806	126 668	228 769	2 745 715	16 631 875	9 313 748	25 953 070	X	X
311811	Retail bakeries	2001..	52 380	785 153	27 502	43 743	429 698	1 637 263	866 521	2 501 063	3	4
		2000..	52 367	742 590	27 937	42 809	397 932	1 730 225	898 642	2 625 161	3	5
		1999..	52 919	702 515	28 447	40 237	374 850	1 374 568	795 825	2 166 019	3	4
		1998..	74 653	935 848	47 134	82 672	492 383	2 094 609	1 236 368	3 304 889	2	2
		1997..	43 603	568 243	26 845	34 286	298 911	1 227 763	716 938	1 946 153	X	X
311812	Commercial bakeries	2001..	178 000	5 639 707	95 255	185 113	2 603 282	17 717 528	8 001 912	25 710 038	3	5
		2000..	175 635	5 514 529	97 395	182 107	2 553 006	17 125 925	7 869 365	24 963 795	3	4
		1999..	172 514	5 330 908	93 459	184 655	2 438 545	16 331 183	7 597 294	23 897 359	2	3
		1998..	164 686	4 758 119	88 188	175 070	2 223 126	14 455 742	7 420 512	21 862 561	1	1
		1997..	164 033	4 624 748	87 616	170 173	2 171 895	14 036 766	7 453 210	21 494 992	X	X
311813	Frozen cakes, pies, & other pastries mfg	2001..	16 742	470 588	13 744	27 222	320 052	1 573 895	1 438 122	3 008 063	5	4
		2000..	16 473	443 534	13 546	27 205	307 906	1 558 606	1 346 964	2 937 090	4	3
		1999..	15 047	404 739	12 173	24 331	285 916	1 465 394	1 216 350	2 637 771	3	3
		1998..	15 402	407 805	12 554	25 375	283 602	1 409 832	1 185 236	2 594 896	2	2
		1997..	14 960	389 815	12 207	24 310	274 909	1 367 346	1 143 600	2 511 925	X	X
31182	Cookie, cracker, & pasta mfg	2001..	64 164	2 011 768	50 547	97 338	1 374 834	10 093 396	6 455 471	16 525 669	6	2
		2000..	61 844	1 944 358	47 926	92 131	1 319 381	9 888 594	6 308 575	16 199 969	4	2
		1999..	61 759	1 958 012	47 692	93 981	1 351 092	10 224 598	6 525 606	16 778 921	2	2
		1998..	62 847	1 946 756	48 905	95 949	1 349 609	9 965 438	6 805 061	16 774 413	1	1
		1997..	64 401	2 002 867	49 541	100 370	1 358 168	9 907 805	6 757 226	16 656 299	X	X
311821	Cookie & cracker mfg	2001..	39 556	1 289 069	31 129	59 721	882 379	7 278 211	3 243 344	10 519 185	5	2
		2000..	39 655	1 299 674	30 629	58 843	884 858	7 214 118	3 165 933	10 383 544	3	2
		1999..	40 107	1 321 344	30 943	60 515	924 067	6 978 132	3 286 050	10 281 832	2	2
		1998..	42 189	1 312 905	32 726	62 675	918 696	6 704 585	3 566 480	10 288 805	1	1
		1997..	42 804	1 343 993	32 912	65 151	920 690	6 366 872	3 518 363	9 889 921	X	X
311822	Flour mixes & dough mfg from purchased flour	2001..	19 962	593 919	15 914	30 617	410 586	2 295 881	2 478 279	4 769 750	18	5
		2000..	17 874	528 380	14 010	26 949	360 354	2 112 942	2 527 541	4 639 140	9	4
		1999..	17 196	523 063	13 249	27 023	353 003	2 635 796	2 657 342	5 288 669	6	2
		1998..	15 232	485 517	11 843	24 919	327 480	2 401 144	2 626 006	5 028 916	1	1
		1997..	15 534	484 414	11 963	25 851	321 649	2 495 635	2 523 023	4 999 850	X	X
311823	Dry pasta mfg	2001..	4 646	128 781	3 504	7 000	81 869	519 305	733 848	1 236 733	15	8
		2000..	4 315	116 304	3 286	6 339	74 168	561 535	615 101	1 177 286	16	8
		1999..	4 457	113 604	3 500	6 443	74 023	610 670	582 213	1 208 419	15	6
		1998..	5 426	148 334	4 336	8 355	103 434	859 709	612 575	1 456 691	1	1
		1997..	6 063	174 460	4 666	9 368	115 829	1 045 298	715 840	1 766 528	X	X
31183	Tortilla mfg	2001..	12 040	278 351	10 072	16 760	195 510	863 115	538 365	1 387 886	8	3
		2000..	12 794	279 804	10 535	19 416	193 900	744 881	508 051	1 254 688	6	3
		1999..	12 692	263 322	10 057	18 570	173 247	675 572	479 670	1 156 378	6	3
		1998..	11 395	227 093	8 766	16 559	150 291	682 519	494 543	1 179 217	2	1
		1997..	11 303	216 704	8 913	16 227	148 400	620 838	490 570	1 113 299	X	X
311830	Tortilla mfg	2001..	12 040	278 351	10 072	16 760	195 510	863 115	538 365	1 387 886	8	3
		2000..	12 794	279 804	10 535	19 416	193 900	744 881	508 051	1 254 688	6	3
		1999..	12 692	263 322	10 057	18 570	173 247	675 572	479 670	1 156 378	6	3
		1998..	11 395	227 093	8 766	16 559	150 291	682 519	494 543	1 179 217	2	1
		1997..	11 303	216 704	8 913	16 227	148 400	620 838	490 570	1 113 299	X	X
3119	Other food mfg	2001..	147 979	4 801 240	106 686	202 172	2 746 482	29 926 152	22 052 999	51 818 110	2	1
		2000..	154 854	4 805 394	113 783	224 825	2 774 647	30 005 995	24 171 896	53 502 452	2	1
		1999..	150 731	4 576 957	111 479	220 029	2 669 117	28 470 874	24 272 924	52 571 098	1	1
		1998..	151 170	4 439 571	112 292	217 506	2 585 760	28 166 559	23 578 128	51 799 288	1	1
		1997..	148 688	4 338 144	109 196	215 723	2 544 397	26 323 935	22 801 616	48 905 169	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees		Production workers			Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column—	
			Number[1]	Payroll ($1,000)	Number[1]	Hours (1,000)	Wages ($1,000)					
			A	B	C	D	E	F	G	H	A	F
311	Food mfg—Con.											
3119	Other food mfg—Con.											
31191	Snack food mfg	2001..	41 508	1 391 413	30 869	59 591	820 606	9 251 183	6 431 275	15 597 878	4	2
		2000..	46 064	1 428 284	35 853	76 915	830 136	9 003 870	7 239 179	15 594 553	3	2
		1999..	46 015	1 363 710	35 643	73 626	802 425	8 199 869	7 175 855	15 319 322	3	1
		1998..	47 443	1 417 428	36 883	69 959	805 449	8 517 410	6 640 124	15 178 905	1	3
		1997..	46 609	1 368 683	35 412	72 675	812 972	7 483 020	6 174 737	13 590 607	X	X
311911	Roasted nuts & peanut butter mfg	2001..	10 423	308 083	8 130	15 581	203 243	1 684 664	2 631 558	4 325 196	3	3
		2000..	11 321	327 848	8 974	18 810	219 667	1 786 078	2 795 192	4 518 635	4	3
		1999..	11 118	297 804	8 803	17 662	191 249	1 924 543	2 644 015	4 536 881	2	2
		1998..	10 672	294 854	8 211	17 419	181 319	1 749 434	2 596 394	4 383 827	1	8
		1997..	10 128	265 104	7 607	16 296	168 424	1 574 476	2 385 886	3 933 112	X	X
311919	Other snack food mfg	2001..	31 085	1 083 329	22 739	44 010	617 362	7 566 520	3 799 717	11 272 681	5	2
		2000..	34 744	1 100 436	26 879	58 106	610 469	7 217 791	4 443 988	11 075 918	4	2
		1999..	34 897	1 065 906	26 840	55 964	611 175	6 275 326	4 531 840	10 782 440	4	2
		1998..	36 771	1 122 574	28 673	52 540	624 129	6 767 976	4 043 730	10 795 078	1	3
		1997..	36 481	1 103 579	27 805	56 379	644 548	5 908 544	3 788 851	9 657 495	X	X
31192	Coffee & tea mfg	2001..	12 293	476 092	7 297	14 449	232 918	2 565 276	2 674 740	5 241 207	3	3
		2000..	12 014	447 906	7 179	14 546	227 470	2 814 400	3 722 921	6 550 071	3	2
		1999..	12 067	449 774	7 508	14 779	239 023	3 388 023	4 101 548	7 466 328	3	1
		1998..	12 820	422 323	8 165	16 139	227 008	3 514 567	4 174 032	7 716 723	1	1
		1997..	12 895	445 357	8 134	16 538	254 555	3 644 653	4 401 171	7 974 921	X	X
311920	Coffee & tea mfg	2001..	12 293	476 092	7 297	14 449	232 918	2 565 276	2 674 740	5 241 207	3	3
		2000..	12 014	447 906	7 179	14 546	227 470	2 814 400	3 722 921	6 550 071	3	2
		1999..	12 067	449 774	7 508	14 779	239 023	3 388 023	4 101 548	7 466 328	3	1
		1998..	12 820	422 323	8 165	16 139	227 008	3 514 567	4 174 032	7 716 723	1	1
		1997..	12 895	445 357	8 134	16 538	254 555	3 644 653	4 401 171	7 974 921	X	X
31193	Flavoring syrup & concentrate mfg	2001..	5 734	268 521	3 572	7 462	147 227	6 499 942	1 595 182	8 039 108	5	1
		2000..	5 450	243 045	3 432	7 810	134 149	6 503 414	1 633 142	8 108 823	6	1
		1999..	5 546	234 931	3 603	8 077	130 725	5 787 753	1 734 800	7 468 391	4	1
		1998..	5 699	211 165	3 143	6 254	105 280	5 260 934	1 646 714	6 901 081	3	1
		1997..	6 243	225 770	3 348	6 839	111 627	4 945 331	1 648 212	6 590 816	X	X
311930	Flavoring syrup & concentrate mfg	2001..	5 734	268 521	3 572	7 462	147 227	6 499 942	1 595 182	8 039 108	5	1
		2000..	5 450	243 045	3 432	7 810	134 149	6 503 414	1 633 142	8 108 823	6	1
		1999..	5 546	234 931	3 603	8 077	130 725	5 787 753	1 734 800	7 468 391	4	1
		1998..	5 699	211 165	3 143	6 254	105 280	5 260 934	1 646 714	6 901 081	3	1
		1997..	6 243	225 770	3 348	6 839	111 627	4 945 331	1 648 212	6 590 816	X	X
31194	Seasoning & dressing mfg	2001..	27 823	1 070 025	18 845	36 515	573 800	5 279 470	5 067 475	10 332 280	3	2
		2000..	29 188	1 094 501	19 807	39 148	598 461	5 670 896	5 584 787	11 244 276	3	2
		1999..	28 629	1 070 659	19 231	38 587	582 297	5 888 871	5 541 259	11 409 441	2	1
		1998..	26 290	924 698	18 579	37 383	529 307	5 256 814	5 433 323	10 690 173	2	2
		1997..	26 055	897 346	17 892	34 911	491 155	5 108 356	4 990 907	10 027 200	X	X
311941	Mayonnaise, dressing, & other prepared sauce mfg	2001..	15 230	531 571	11 218	22 599	332 833	2 734 022	2 898 743	5 639 945	4	3
		2000..	15 811	533 411	11 510	23 259	337 858	3 052 252	3 176 356	6 234 422	4	2
		1999..	15 246	507 422	10 933	21 646	325 979	3 295 642	3 139 860	6 429 251	2	1
		1998..	14 307	446 688	10 809	22 336	296 941	3 115 299	3 273 607	6 392 514	2	1
		1997..	13 927	443 903	10 448	20 212	286 515	2 945 653	2 860 124	5 810 040	X	X
311942	Spice & extract mfg	2001..	12 593	538 454	7 627	13 916	240 967	2 545 448	2 168 733	4 692 335	6	3
		2000..	13 378	561 090	8 297	15 889	260 603	2 618 644	2 408 431	5 009 854	4	3
		1999..	13 383	563 237	8 298	16 941	256 318	2 593 229	2 401 399	4 980 189	3	3
		1998..	11 983	478 010	7 770	15 048	232 365	2 141 516	2 159 716	4 297 659	2	5
		1997..	12 128	453 443	7 444	14 699	204 640	2 162 703	2 130 783	4 217 160	X	X
31199	All other food mfg	2001..	60 620	1 595 189	46 103	84 156	971 931	6 330 280	6 284 326	12 607 637	3	4
		2000..	62 137	1 591 656	47 513	86 405	984 430	6 013 415	5 991 868	12 004 731	3	4
		1999..	58 474	1 457 884	45 494	84 960	914 648	5 206 358	5 719 461	10 907 616	2	4
		1998..	58 918	1 463 958	45 522	87 770	918 717	5 616 834	5 683 936	11 312 406	1	2
		1997..	56 886	1 400 988	44 410	84 760	874 088	5 142 575	5 586 589	10 721 625	X	X
311991	Perishable prepared food mfg	2001..	22 620	540 809	17 005	30 178	313 690	1 507 998	1 604 908	3 106 362	3	3
		2000..	22 409	515 361	17 027	30 066	307 815	1 489 438	1 478 026	2 973 207	4	3
		1999..	20 512	462 871	15 564	29 219	278 109	1 363 298	1 411 939	2 765 007	2	3
		1998..	21 198	487 465	15 681	30 522	284 018	1 369 194	1 419 709	2 784 974	3	4
		1997..	20 732	461 355	15 720	29 808	272 127	1 394 441	1 349 973	2 730 103	X	X
311999	All other miscellaneous food mfg	2001..	38 000	1 054 380	29 098	53 978	658 241	4 822 282	4 679 419	9 501 275	4	5
		2000..	39 728	1 076 296	30 485	56 340	676 615	4 523 977	4 513 841	9 031 524	3	5
		1999..	37 962	995 013	29 930	55 741	636 539	3 843 060	4 307 522	8 142 609	2	5
		1998..	37 720	976 492	29 841	57 248	634 699	4 247 640	4 264 226	8 527 432	1	2
		1997..	36 154	939 633	28 690	54 952	601 961	3 748 134	4 236 616	7 991 522	X	X
312	Beverage & tobacco product mfg	2001..	177 513	7 022 720	95 854	188 101	3 408 631	77 735 195	41 682 936	118 785 622	2	1
		2000..	174 609	7 044 712	94 500	190 618	3 463 558	71 446 555	40 872 120	111 692 010	2	1
		1999..	166 847	6 681 383	89 748	177 852	3 375 890	68 379 316	38 632 565	106 920 499	1	1
		1998..	175 214	6 810 605	96 969	193 329	3 518 349	62 444 922	40 431 020	102 358 936	1	1
		1997..	175 711	6 735 295	98 389	196 693	3 554 784	56 433 891	41 276 110	96 971 368	X	X
3121	Beverage mfg	2001..	150 807	5 632 030	76 284	149 810	2 534 334	31 643 446	34 696 640	65 687 655	2	1
		2000..	146 310	5 495 000	74 722	153 002	2 536 332	30 008 507	33 793 702	63 183 248	2	1
		1999..	138 534	5 236 764	69 484	140 035	2 481 860	30 342 353	31 409 815	61 623 266	1	1
		1998..	141 394	5 280 571	72 824	147 779	2 556 424	30 971 480	31 919 598	62 381 925	1	1
		1997..	142 117	5 139 203	73 948	148 771	2 518 681	29 743 502	31 824 907	60 896 055	X	X
31211	Soft drink & ice mfg	2001..	86 347	2 950 321	36 718	75 065	1 098 459	14 514 073	21 837 487	36 308 715	3	2
		2000..	85 919	2 864 758	37 921	78 845	1 111 479	13 792 153	21 193 487	34 981 073	3	2
		1999..	81 713	2 677 247	36 035	74 970	1 068 602	14 104 726	20 179 928	34 163 362	1	2
		1998..	82 891	2 691 104	36 500	77 658	1 068 047	14 162 724	19 519 511	33 622 811	1	3
		1997..	83 256	2 627 979	36 580	79 450	1 042 932	13 131 224	19 480 621	32 587 038	X	X
312111	Soft drink mfg	2001..	74 122	2 623 340	31 106	64 868	971 804	13 281 107	21 146 077	34 383 286	3	2
		2000..	73 806	2 541 043	32 213	68 740	984 901	12 553 367	20 471 967	33 018 331	3	2
		1999..	70 747	2 386 833	30 793	66 016	947 949	12 976 878	19 455 383	32 318 555	1	2
		1998..	73 212	2 426 218	31 567	67 403	946 248	13 395 157	18 917 030	32 268 227	2	3
		1997..	73 343	2 377 922	31 712	69 764	930 608	12 422 141	18 979 093	31 376 263	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
312	Beverage & tobacco product mfg—Con.											
3121	Beverage mfg—Con.											
31211	Soft drink & ice mfg—Con.											
312112	Bottled water mfg	2001..	6 298	179 652	2 827	5 188	74 748	797 174	546 172	1 341 894	10	12
		2000..	6 677	188 154	3 043	5 479	78 952	857 086	589 446	1 449 388	8	11
		1999..	5 783	161 758	2 759	4 793	74 846	793 488	600 952	1 386 232	4	10
		1998..	4 719	144 103	1 945	4 143	62 753	448 613	447 170	891 509	1	7
		1997..	4 661	132 426	1 961	3 714	57 471	412 997	373 757	785 869	X	X
312113	Ice mfg	2001..	5 927	147 329	2 785	5 010	51 906	435 792	145 238	583 534	6	8
		2000..	5 437	135 560	2 664	4 626	47 626	381 701	132 074	513 354	7	9
		1999..	5 183	128 656	2 484	4 161	45 808	334 360	123 593	458 575	6	6
		1998..	4 960	120 783	2 988	6 111	59 046	318 954	155 310	463 075	5	6
		1997..	5 252	117 631	2 907	5 972	54 853	296 086	127 771	424 906	X	X
31212	Breweries	2001..	33 286	1 509 015	23 177	43 073	918 799	10 272 929	6 669 984	16 914 132	3	1
		2000..	30 859	1 524 307	20 987	44 121	919 609	9 922 613	6 601 799	16 512 847	3	1
		1999..	30 255	1 575 344	20 217	39 284	987 137	11 288 507	5 616 681	16 899 825	3	1
		1998..	31 813	1 613 933	22 374	43 261	1 066 131	11 197 157	6 825 769	18 031 537	1	1
		1997..	34 251	1 598 573	24 205	43 800	1 083 121	11 234 126	6 967 213	18 203 492	X	X
312120	Breweries	2001..	33 286	1 509 015	23 177	43 073	918 799	10 272 929	6 669 984	16 914 132	3	1
		2000..	30 859	1 524 307	20 987	44 121	919 609	9 922 613	6 601 799	16 512 847	3	1
		1999..	30 255	1 575 344	20 217	39 284	987 137	11 288 507	5 616 681	16 899 825	3	1
		1998..	31 813	1 613 933	22 374	43 261	1 066 131	11 197 157	6 825 769	18 031 537	1	1
		1997..	34 251	1 598 573	24 205	43 800	1 083 121	11 234 126	6 967 213	18 203 492	X	X
31213	Wineries	2001..	23 774	870 639	11 129	19 905	319 600	4 544 382	4 190 196	8 154 387	2	3
		2000..	21 932	795 291	10 404	18 028	298 784	3 935 905	4 066 833	7 454 761	2	3
		1999..	20 849	755 640	9 422	16 897	269 903	3 071 764	3 746 414	6 810 805	2	2
		1998..	20 330	730 353	9 399	18 100	267 832	3 389 534	3 836 081	6 828 809	2	3
		1997..	18 193	668 051	8 572	15 784	238 543	3 161 416	3 663 761	6 194 564	X	X
312130	Wineries	2001..	23 774	870 639	11 129	19 905	319 600	4 544 382	4 190 196	8 154 387	2	3
		2000..	21 932	795 291	10 404	18 028	298 784	3 935 905	4 066 833	7 454 761	2	3
		1999..	20 849	755 640	9 422	16 897	269 903	3 071 764	3 746 414	6 810 805	2	2
		1998..	20 330	730 353	9 399	18 100	267 832	3 389 534	3 836 081	6 828 809	2	3
		1997..	18 193	668 051	8 572	15 784	238 543	3 161 416	3 663 761	6 194 564	X	X
31214	Distilleries	2001..	7 401	302 056	5 260	11 768	197 477	2 312 063	1 998 974	4 310 422	22	7
		2000..	7 600	310 643	5 411	12 008	206 460	2 357 835	1 931 583	4 234 568	26	6
		1999..	5 718	228 533	3 810	8 884	156 218	1 877 357	1 866 791	3 749 273	2	3
		1998..	6 360	245 180	4 550	8 761	154 414	2 222 065	1 738 238	3 898 767	1	1
		1997..	6 417	244 600	4 591	9 737	154 085	2 216 736	1 713 312	3 910 961	X	X
312140	Distilleries	2001..	7 401	302 056	5 260	11 768	197 477	2 312 063	1 998 974	4 310 422	22	7
		2000..	7 600	310 643	5 411	12 008	206 460	2 357 835	1 931 583	4 234 568	26	6
		1999..	5 718	228 533	3 810	8 884	156 218	1 877 357	1 866 791	3 749 273	2	3
		1998..	6 360	245 180	4 550	8 761	154 414	2 222 065	1 738 238	3 898 767	1	1
		1997..	6 417	244 600	4 591	9 737	154 085	2 216 736	1 713 312	3 910 961	X	X
3122	Tobacco mfg	2001..	26 706	1 390 690	19 570	38 290	874 297	46 091 749	6 986 296	53 097 966	2	1
		2000..	28 298	1 549 712	19 778	37 616	927 226	41 438 048	7 078 418	48 508 762	2	1
		1999..	28 313	1 444 619	20 264	37 817	894 031	38 036 963	7 222 751	45 297 233	1	1
		1998..	33 820	1 530 035	24 145	45 549	961 925	31 473 442	8 511 421	39 977 012	1	1
		1997..	33 594	1 596 092	24 441	47 922	1 036 103	26 690 389	9 451 203	36 075 313	X	X
31221	Tobacco stemming & redrying	2001..	4 201	109 092	3 113	6 487	53 463	513 156	1 812 513	2 338 006	1	1
		2000..	3 705	106 271	2 681	5 870	51 639	389 960	1 937 798	2 312 948	1	1
		1999..	4 131	116 186	2 850	6 608	57 738	291 993	2 180 150	2 507 491	1	1
		1998..	5 553	132 121	3 944	8 584	69 498	729 484	2 858 939	3 567 304	1	1
		1997..	4 955	112 571	3 590	7 470	62 221	619 176	2 715 622	3 263 376	X	X
312210	Tobacco stemming & redrying	2001..	4 201	109 092	3 113	6 487	53 463	513 156	1 812 513	2 338 006	1	1
		2000..	3 705	106 271	2 681	5 870	51 639	389 960	1 937 798	2 312 948	1	1
		1999..	4 131	116 186	2 850	6 608	57 738	291 993	2 180 150	2 507 491	1	1
		1998..	5 553	132 121	3 944	8 584	69 498	729 484	2 858 939	3 567 304	1	1
		1997..	4 955	112 571	3 590	7 470	62 221	619 176	2 715 622	3 263 376	X	X
31222	Tobacco product mfg	2001..	22 506	1 281 598	16 458	31 804	820 833	45 578 593	5 173 783	50 759 960	2	1
		2000..	24 593	1 443 441	17 097	31 746	875 587	41 048 088	5 140 620	46 195 814	2	1
		1999..	24 182	1 328 433	17 414	31 209	836 293	37 744 970	5 042 601	42 789 742	2	1
		1998..	28 267	1 397 914	20 201	36 965	892 427	30 743 958	5 652 482	36 409 708	1	1
		1997..	28 639	1 483 521	20 851	40 452	973 882	26 071 213	6 735 581	32 811 937	X	X
312221	Cigarette mfg	2001..	15 218	1 017 948	10 908	21 395	654 995	43 044 306	4 139 006	47 190 379	1	1
		2000..	17 659	1 185 892	11 813	22 059	709 875	38 704 904	4 163 401	42 875 150	1	1
		1999..	18 157	1 131 992	12 811	22 237	706 907	35 332 564	4 351 428	39 686 690	1	1
		1998..	20 541	1 158 539	14 212	25 003	732 593	27 977 063	4 804 349	32 799 729	1	1
		1997..	21 302	1 246 557	15 096	28 887	816 131	23 338 692	5 901 854	29 252 787	X	X
312229	Other tobacco product mfg	2001..	7 288	263 650	5 550	10 409	165 838	2 534 287	1 034 777	3 569 581	7	8
		2000..	6 934	257 549	5 284	9 687	165 712	2 343 184	977 219	3 320 664	7	9
		1999..	6 025	196 441	4 603	8 972	129 386	2 412 406	691 173	3 103 052	7	8
		1998..	7 726	239 375	5 989	11 962	159 834	2 766 895	848 133	3 609 979	1	1
		1997..	7 337	236 964	5 755	11 565	157 751	2 732 521	833 727	3 559 150	X	X
313	Textile mills	2001..	293 930	8 039 762	247 542	496 238	5 834 249	18 841 958	26 404 199	45 680 697	1	2
		2000..	337 001	9 203 145	286 413	593 389	6 781 224	21 573 861	30 288 499	52 112 118	1	1
		1999..	352 580	9 385 205	297 271	623 443	6 911 805	22 760 916	31 513 435	54 306 467	1	2
		1998..	377 391	9 860 628	320 031	669 471	7 337 316	23 782 064	33 899 685	57 415 758	1	1
		1997..	391 899	10 058 482	332 385	695 900	7 439 112	23 696 948	34 876 899	58 707 401	X	X
3131	Fiber, yarn, & thread mills	2001..	63 818	1 551 855	57 638	111 453	1 291 709	2 939 747	6 864 195	10 030 255	2	4
		2000..	72 182	1 788 310	65 164	133 523	1 495 169	3 631 541	7 674 766	11 334 116	1	2
		1999..	74 834	1 803 876	66 984	142 109	1 507 682	3 776 857	8 148 225	11 903 575	1	2
		1998..	80 024	1 884 183	71 698	152 753	1 570 071	4 300 182	8 497 995	12 668 953	1	1
		1997..	82 291	1 891 178	73 973	156 214	1 561 517	4 202 226	8 634 866	12 896 617	X	X
31311	Fiber, yarn, & thread mills	2001..	63 818	1 551 855	57 638	111 453	1 291 709	2 939 747	6 864 195	10 030 255	2	4
		2000..	72 182	1 788 310	65 164	133 523	1 495 169	3 631 541	7 674 766	11 334 116	1	2
		1999..	74 834	1 803 876	66 984	142 109	1 507 682	3 776 857	8 148 225	11 903 575	1	2
		1998..	80 024	1 884 183	71 698	152 753	1 570 071	4 300 182	8 497 995	12 668 953	1	1
		1997..	82 291	1 891 178	73 973	156 214	1 561 517	4 202 226	8 634 866	12 896 617	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
313	Textile mills—Con.											
3131	Fiber, yarn, & thread mills—Con.											
31311	Fiber, yarn, & thread mills—Con.											
313111	Yarn spinning mills	2001..	41 209	999 018	37 458	73 587	848 701	1 902 455	3 687 801	5 719 564	3	5
		2000..	48 261	1 181 818	43 772	90 608	1 003 380	2 332 264	4 042 556	6 373 925	2	3
		1999..	51 762	1 220 210	46 399	99 500	1 034 088	2 639 679	4 560 131	7 216 220	1	2
		1998..	57 241	1 323 381	51 469	110 954	1 119 380	2 975 781	5 046 288	7 943 224	1	1
		1997..	58 440	1 334 129	52 720	112 451	1 126 224	2 964 156	5 138 206	8 143 185	X	X
313112	Yarn texturing, throwing, & twisting mills	2001..	20 118	500 887	18 022	33 629	402 713	924 196	3 013 495	4 032 750	4	10
		2000..	20 801	535 949	18 679	37 353	435 797	1 135 238	3 414 808	4 585 777	3	5
		1999..	20 186	524 536	18 091	37 737	426 991	1 033 236	3 379 369	4 376 374	2	4
		1998..	18 832	474 064	16 680	34 407	382 733	1 165 356	3 009 235	4 123 129	1	2
		1997..	20 256	478 414	18 044	36 910	374 482	1 096 088	3 115 899	4 231 500	X	X
313113	Thread mills	2001..	2 491	51 949	2 158	4 237	40 294	113 096	162 900	277 941	4	3
		2000..	3 120	70 542	2 713	5 561	55 993	164 039	217 402	374 414	4	2
		1999..	2 886	59 130	2 494	4 872	46 602	103 942	208 725	310 982	4	3
		1998..	3 951	86 738	3 549	7 391	67 957	159 045	442 471	602 600	1	1
		1997..	3 595	78 635	3 209	6 853	60 811	141 982	380 761	521 932	X	X
3132	Fabric mills	2001..	159 048	4 402 498	133 435	269 131	3 214 977	9 996 898	12 342 813	22 604 452	1	2
		2000..	184 736	5 071 335	156 873	323 717	3 770 358	11 616 481	14 616 265	26 410 157	1	1
		1999..	195 576	5 218 566	164 727	342 919	3 875 724	12 739 244	15 136 053	27 900 160	1	1
		1998..	210 996	5 578 294	178 884	369 463	4 168 425	12 927 467	16 819 260	29 687 544	1	1
		1997..	217 354	5 613 779	184 433	384 185	4 201 818	12 598 396	17 302 351	29 979 595	X	X
31321	Broadwoven fabric mills	2001..	95 919	2 605 470	82 888	165 826	2 006 172	5 760 809	7 338 541	13 295 102	2	2
		2000..	113 519	3 044 107	98 777	204 888	2 396 381	6 665 971	8 747 947	15 562 206	1	2
		1999..	120 999	3 139 585	104 680	217 369	2 463 008	7 340 517	9 320 710	16 655 005	1	1
		1998..	129 506	3 422 465	113 559	236 006	2 716 914	7 811 209	10 568 712	18 305 538	1	1
		1997..	132 797	3 434 157	115 792	242 614	2 729 638	7 505 926	10 661 154	18 269 155	X	X
313210	Broadwoven fabric mills	2001..	95 919	2 605 470	82 888	165 826	2 006 172	5 760 809	7 338 541	13 295 102	2	2
		2000..	113 519	3 044 107	98 777	204 888	2 396 381	6 665 971	8 747 947	15 562 206	1	2
		1999..	120 999	3 139 585	104 680	217 369	2 463 008	7 340 517	9 320 710	16 655 005	1	1
		1998..	129 506	3 422 465	113 559	236 006	2 716 914	7 811 209	10 568 712	18 305 538	1	1
		1997..	132 797	3 434 157	115 792	242 614	2 729 638	7 505 926	10 661 154	18 269 155	X	X
31322	Narrow fabric mills & schiffli machine embroidery	2001..	17 738	443 229	14 315	28 891	291 554	952 032	768 742	1 723 869	4	7
		2000..	18 446	459 955	15 053	30 811	308 283	956 766	789 171	1 758 939	4	4
		1999..	18 568	446 336	15 247	32 090	309 762	1 021 618	818 181	1 833 688	3	4
		1998..	20 221	454 677	16 424	34 417	313 058	953 160	753 347	1 710 865	2	3
		1997..	20 215	445 118	16 700	34 314	306 262	949 913	696 805	1 645 969	X	X
313221	Narrow fabric mills	2001..	15 857	396 536	12 655	25 703	257 074	772 636	574 429	1 348 482	2	2
		2000..	16 600	411 689	13 456	27 536	273 279	806 843	628 175	1 448 001	2	2
		1999..	16 448	391 693	13 487	28 416	270 765	849 888	656 336	1 499 401	1	2
		1998..	16 454	377 725	13 339	28 204	259 565	800 603	680 978	1 481 364	2	4
		1997..	16 366	368 459	13 468	27 815	251 828	786 758	623 775	1 409 967	X	X
313222	Schiffli machine embroidery	2001..	1 881	46 694	1 660	3 188	34 480	179 397	194 313	375 387	37	38
		2000..	1 846	48 266	1 598	3 275	35 004	149 923	160 995	310 937	33	23
		1999..	2 120	54 643	1 760	3 673	38 997	171 731	161 845	334 287	28	21
		1998..	3 767	76 953	3 084	6 214	53 493	152 557	72 369	229 501	6	8
		1997..	3 849	76 659	3 232	6 499	54 434	163 155	73 030	236 002	X	X
31323	Nonwoven fabric mills	2001..	21 083	731 939	15 861	33 352	489 275	1 998 273	2 389 069	4 406 758	2	2
		2000..	22 519	802 028	17 444	35 986	526 432	2 236 857	2 652 595	4 872 765	2	2
		1999..	21 190	750 131	15 913	34 617	491 603	2 296 299	2 359 762	4 674 168	2	2
		1998..	20 807	720 817	15 118	31 532	449 043	1 936 909	2 475 977	4 416 091	1	1
		1997..	21 162	693 101	15 867	33 228	428 568	1 751 967	2 645 508	4 367 765	X	X
313230	Nonwoven fabric mills	2001..	21 083	731 939	15 861	33 352	489 275	1 998 273	2 389 069	4 406 758	2	2
		2000..	22 519	802 028	17 444	35 986	526 432	2 236 857	2 652 595	4 872 765	2	2
		1999..	21 190	750 131	15 913	34 617	491 603	2 296 299	2 359 762	4 674 168	2	2
		1998..	20 807	720 817	15 118	31 532	449 043	1 936 909	2 475 977	4 416 091	1	1
		1997..	21 162	693 101	15 867	33 228	428 568	1 751 967	2 645 508	4 367 765	X	X
31324	Knit fabric mills	2001..	24 308	621 860	20 371	41 062	427 978	1 285 784	1 846 461	3 178 723	5	6
		2000..	30 251	765 244	25 598	52 032	539 262	1 756 888	2 426 552	4 216 248	3	5
		1999..	34 819	882 513	28 888	58 843	611 351	2 080 810	2 637 399	4 737 299	2	4
		1998..	40 463	980 334	33 783	67 508	689 409	2 226 189	3 021 225	5 255 050	1	2
		1997..	43 180	1 041 403	36 074	74 029	737 350	2 390 590	3 298 884	5 696 706	X	X
313241	Weft knit fabric mills	2001..	11 764	289 954	10 139	19 740	202 338	503 937	911 480	1 431 112	9	10
		2000..	16 231	397 482	14 004	27 884	283 072	830 720	1 351 154	2 192 769	4	6
		1999..	19 301	475 414	16 017	32 250	328 500	1 015 029	1 403 779	2 425 075	2	4
		1998..	23 397	553 702	19 504	38 495	386 116	1 087 161	1 720 147	2 812 837	1	3
		1997..	24 535	570 908	20 567	41 830	404 579	1 150 044	1 915 271	3 070 633	X	X
313249	Other knit fabric & lace mills	2001..	12 543	331 906	10 232	21 323	225 639	781 847	934 982	1 747 611	3	6
		2000..	14 020	367 762	11 595	24 148	256 190	926 168	1 075 398	2 023 478	3	6
		1999..	15 518	407 100	12 870	26 592	282 851	1 065 780	1 233 620	2 312 224	2	8
		1998..	17 067	426 632	14 279	29 013	303 293	1 139 028	1 301 077	2 442 213	1	1
		1997..	18 645	470 495	15 507	32 199	332 771	1 240 546	1 383 613	2 626 073	X	X
3133	Textile & fabric finishing & fabric coating mills	2001..	71 064	2 085 409	56 470	115 654	1 327 563	5 905 313	7 197 192	13 045 991	4	4
		2000..	80 083	2 343 501	64 376	136 149	1 515 696	6 325 838	7 997 469	14 367 845	3	4
		1999..	82 170	2 362 762	65 560	138 415	1 528 399	6 244 815	8 229 158	14 502 731	2	5
		1998..	86 371	2 398 151	69 449	147 256	1 598 821	6 554 415	8 582 430	15 059 261	3	4
		1997..	92 254	2 553 525	73 979	155 501	1 675 777	6 896 326	8 939 682	15 831 189	X	X
31331	Textile & fabric finishing mills	2001..	60 742	1 696 426	49 201	100 986	1 120 085	5 067 313	5 875 045	10 898 942	4	5
		2000..	68 918	1 918 367	56 382	119 974	1 290 892	5 366 376	6 601 649	12 024 680	3	5
		1999..	71 895	1 992 342	58 139	123 204	1 322 403	5 388 272	6 975 307	12 380 555	2	6
		1998..	74 981	2 001 368	60 984	129 606	1 350 421	5 566 235	7 191 434	12 673 576	3	4
		1997..	80 722	2 167 370	65 739	138 706	1 452 456	6 006 310	7 693 568	13 697 712	X	X
313311	Broadwoven fabric finishing mills	2001..	38 886	1 145 847	30 647	65 146	721 746	3 521 284	4 173 670	7 625 893	6	6
		2000..	45 024	1 297 591	36 045	77 601	845 221	3 635 835	4 714 199	8 419 633	4	5
		1999..	47 077	1 329 505	37 648	80 319	882 229	3 591 186	4 810 233	8 421 047	3	7
		1998..	47 159	1 292 788	37 817	81 385	870 655	3 824 098	5 054 938	8 790 589	5	6
		1997..	51 447	1 424 212	41 057	86 709	947 744	4 032 378	5 242 184	9 294 623	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
313	Textile mills—Con.											
3133	Textile & fabric finishing & fabric coating mills—Con.											
31331	Textile & fabric finishing mills—Con.											
313312	Textile & fabric finishing mills	2001	21 856	550 579	18 554	35 840	398 339	1 546 029	1 701 375	3 273 049	4	9
		2000	23 894	620 776	20 337	42 374	445 670	1 730 541	1 887 450	3 605 048	4	9
		1999	24 818	662 837	20 491	42 884	440 174	1 797 086	2 165 075	3 959 509	2	10
		1998	27 822	708 579	23 167	48 221	479 766	1 742 137	2 136 496	3 882 986	2	3
		1997	29 275	743 158	24 682	51 997	504 712	1 973 932	2 451 384	4 403 089	X	X
31332	Fabric coating mills	2001	10 321	388 982	7 269	14 667	207 478	838 001	1 322 146	2 147 049	7	6
		2000	11 165	425 134	7 993	16 175	224 804	959 463	1 395 820	2 343 165	6	9
		1999	10 275	370 420	7 421	15 212	205 996	856 544	1 253 850	2 122 176	6	4
		1998	11 390	396 784	8 465	17 650	248 400	988 180	1 390 996	2 385 685	3	5
		1997	11 532	386 155	8 240	16 795	223 321	890 016	1 246 114	2 133 477	X	X
313320	Fabric coating mills	2001	10 321	388 982	7 269	14 667	207 478	838 001	1 322 146	2 147 049	7	6
		2000	11 165	425 134	7 993	16 175	224 804	959 463	1 395 820	2 343 165	6	9
		1999	10 275	370 420	7 421	15 212	205 996	856 544	1 253 850	2 122 176	6	4
		1998	11 390	396 784	8 465	17 650	248 400	988 180	1 390 996	2 385 685	3	5
		1997	11 532	386 155	8 240	16 795	223 321	890 016	1 246 114	2 133 477	X	X
314	Textile product mills	2001	209 676	5 051 306	170 068	323 650	3 399 394	12 851 534	19 176 446	31 970 642	2	2
		2000	229 717	5 395 146	187 268	361 149	3 651 242	13 661 222	20 355 400	33 654 181	2	2
		1999	237 421	5 418 347	194 488	376 120	3 710 403	14 336 686	18 553 645	32 689 157	1	1
		1998	229 848	5 067 384	185 662	355 089	3 415 300	13 265 738	17 925 234	31 136 672	1	2
		1997	235 441	5 088 653	189 082	366 775	3 410 873	13 613 111	17 671 553	31 051 835	X	X
3141	Textile furnishings mills	2001	115 012	2 775 741	95 881	188 479	1 971 159	8 072 401	13 745 639	21 792 868	2	2
		2000	124 551	2 931 647	104 029	207 020	2 081 349	8 360 188	14 365 652	22 435 539	2	1
		1999	125 781	2 912 803	105 601	211 021	2 108 859	8 856 703	12 397 702	21 118 843	1	1
		1998	125 469	2 787 576	102 735	201 024	1 957 171	8 514 635	12 211 593	20 657 933	1	3
		1997	126 041	2 750 812	102 465	207 865	1 918 311	8 588 430	11 896 997	20 296 040	X	X
31411	Carpet & rug mills	2001	49 013	1 313 606	40 706	85 396	985 397	4 078 859	8 633 811	12 658 710	2	1
		2000	51 872	1 368 435	43 493	92 899	1 022 677	4 015 685	8 969 621	12 747 519	1	2
		1999	50 882	1 339 806	42 657	90 587	1 008 186	4 631 606	7 091 513	11 686 188	1	2
		1998	52 638	1 355 061	42 602	87 111	970 163	4 839 580	7 284 672	12 069 919	1	1
		1997	51 624	1 320 268	40 692	89 056	920 979	4 513 421	7 022 584	11 492 786	X	X
314110	Carpet & rug mills	2001	49 013	1 313 606	40 706	85 396	985 397	4 078 859	8 633 811	12 658 710	2	1
		2000	51 872	1 368 435	43 493	92 899	1 022 677	4 015 685	8 969 621	12 747 519	1	2
		1999	50 882	1 339 806	42 657	90 587	1 008 186	4 631 606	7 091 513	11 686 188	1	2
		1998	52 638	1 355 061	42 602	87 111	970 163	4 839 580	7 284 672	12 069 919	1	1
		1997	51 624	1 320 268	40 692	89 056	920 979	4 513 421	7 022 584	11 492 786	X	X
31412	Curtain & linen mills	2001	65 999	1 462 135	55 176	103 083	985 761	3 993 542	5 111 829	9 134 158	3	3
		2000	72 679	1 563 212	60 537	114 122	1 058 672	4 344 502	5 396 031	9 688 021	3	2
		1999	74 899	1 572 997	62 944	120 434	1 100 674	4 225 097	5 306 189	9 432 654	1	2
		1998	72 830	1 432 515	60 133	113 913	987 008	3 675 055	4 926 922	8 588 014	2	6
		1997	74 417	1 430 544	61 773	118 809	997 332	4 075 009	4 874 413	8 803 254	X	X
314121	Curtain & drapery mills	2001	21 238	480 263	16 551	29 840	264 418	1 131 629	914 003	2 025 779	5	5
		2000	23 810	512 557	18 594	34 557	291 238	1 200 161	995 752	2 182 248	4	4
		1999	24 863	494 459	19 882	36 641	303 737	1 036 584	967 239	2 018 006	3	4
		1998	26 892	495 886	20 764	38 480	302 155	1 078 265	1 011 583	2 090 145	3	6
		1997	25 384	450 504	19 759	35 605	274 414	943 162	921 664	1 852 089	X	X
314129	Other household textile product mills	2001	44 761	981 872	38 625	73 243	721 344	2 861 913	4 197 826	7 108 379	4	3
		2000	48 869	1 050 655	41 943	79 565	767 434	3 144 341	4 400 279	7 505 772	4	2
		1999	50 036	1 078 538	43 062	83 793	796 937	3 188 513	4 338 950	7 414 648	2	2
		1998	45 938	936 629	39 369	75 434	684 853	2 596 790	3 915 339	6 497 870	2	8
		1997	49 033	980 040	42 014	83 204	722 918	3 131 847	3 952 749	6 951 165	X	X
3149	Other textile product mills	2001	94 664	2 275 565	74 187	135 171	1 428 235	4 779 133	5 430 806	10 177 774	4	4
		2000	105 166	2 463 499	83 238	154 129	1 569 893	5 301 034	5 989 748	11 218 642	4	3
		1999	111 640	2 505 544	88 887	165 100	1 601 544	5 479 984	6 155 943	11 570 314	3	3
		1998	104 379	2 279 809	82 927	154 065	1 458 130	4 751 102	5 713 641	10 478 739	2	2
		1997	109 400	2 337 841	86 617	158 910	1 492 562	5 024 681	5 774 556	10 755 795	X	X
31491	Textile bag & canvas mills	2001	27 361	665 676	21 595	37 851	390 970	1 261 397	1 201 563	2 463 719	5	4
		2000	29 617	690 812	23 277	41 810	406 891	1 344 905	1 263 296	2 597 516	5	3
		1999	30 711	686 309	24 036	43 382	404 175	1 369 455	1 244 687	2 605 981	4	2
		1998	32 567	683 084	25 726	46 846	407 677	1 302 009	1 203 673	2 515 831	1	3
		1997	32 781	667 725	25 892	46 094	400 079	1 307 070	1 209 238	2 502 064	X	X
314911	Textile bag mills	2001	9 367	211 065	7 792	13 785	119 959	414 246	411 447	819 090	11	7
		2000	10 636	221 850	8 792	15 933	126 286	451 952	433 515	877 081	10	5
		1999	11 735	232 105	9 704	18 010	137 729	491 135	451 103	934 437	6	3
		1998	13 909	255 189	11 547	20 477	159 314	491 610	465 612	958 226	2	3
		1997	14 089	253 570	11 850	21 872	160 441	497 914	486 225	972 920	X	X
314912	Canvas & related product mills	2001	17 994	454 610	13 803	24 066	271 012	847 150	790 116	1 644 629	4	4
		2000	18 981	468 962	14 485	25 877	280 605	892 953	829 781	1 720 435	4	4
		1999	18 976	454 204	14 333	25 372	266 445	878 320	793 584	1 671 544	5	3
		1998	18 658	427 895	14 179	26 369	248 363	810 399	738 061	1 557 605	2	4
		1997	18 692	414 155	14 042	24 222	239 638	809 156	723 013	1 529 144	X	X
31499	All other textile product mills	2001	67 304	1 609 889	52 592	97 321	1 037 265	3 517 737	4 229 244	7 714 055	5	5
		2000	75 550	1 772 688	59 961	112 318	1 163 002	3 956 129	4 726 452	8 621 126	5	4
		1999	80 929	1 819 235	64 851	121 718	1 197 369	4 110 528	4 911 255	8 964 334	4	4
		1998	71 813	1 596 725	57 201	107 219	1 050 452	3 449 093	4 509 968	7 962 908	2	3
		1997	76 619	1 670 116	60 725	112 816	1 092 483	3 717 611	4 565 318	8 253 731	X	X
314991	Rope, cordage, & twine mills	2001	5 787	155 731	4 232	8 214	86 986	361 376	453 717	809 338	4	6
		2000	6 204	170 455	4 649	9 434	102 545	385 372	445 572	820 912	4	5
		1999	6 550	165 534	5 018	10 085	99 106	392 302	420 948	804 228	2	4
		1998	6 310	162 137	4 746	9 687	95 352	344 222	403 776	765 539	2	8
		1997	6 417	159 268	4 866	9 711	94 903	377 878	411 187	777 091	X	X
314992	Tire cord & tire fabric mills	2001	4 590	144 646	3 781	7 555	106 886	282 257	752 641	1 037 646	1	1
		2000	5 785	188 727	4 612	9 420	135 480	502 555	985 358	1 479 174	1	1
		1999	5 523	171 900	4 483	9 719	125 244	425 294	1 002 938	1 427 729	1	1
		1998	4 983	147 712	4 125	9 153	113 668	374 838	925 344	1 300 241	1	1
		1997	5 192	155 683	4 296	9 044	113 322	414 831	857 855	1 268 662	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	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	2001..	56 926	1 309 512	44 578	81 552	843 393	2 874 103	3 022 886	5 867 071	6	6
		2000..	63 560	1 413 505	50 701	93 464	924 976	3 068 202	3 295 522	6 321 040	6	5
		1999..	68 857	1 481 800	55 350	101 913	973 019	3 292 932	3 487 369	6 732 377	4	5
		1998..	60 520	1 286 876	48 331	88 379	841 432	2 730 033	3 180 848	5 897 128	2	4
		1997..	65 010	1 355 165	51 563	94 061	884 258	2 924 902	3 296 276	6 207 978	X	X
315	Apparel mfg	2001..	456 471	9 204 556	369 316	652 248	5 938 605	24 809 320	29 253 443	54 598 294	3	2
		2000..	520 322	10 288 064	420 290	759 828	6 680 731	27 903 086	32 735 310	60 338 991	3	2
		1999..	577 773	11 046 012	471 454	852 617	7 332 458	30 370 123	32 267 976	62 305 193	2	2
		1998..	649 010	11 922 888	541 671	989 042	8 334 269	31 778 070	33 190 202	64 931 989	1	1
		1997..	710 796	12 582 352	592 290	1 060 314	8 799 442	33 780 193	34 683 500	68 018 116	X	X
3151	Apparel knitting mills	2001..	72 027	1 526 085	61 630	117 246	1 136 034	3 183 743	3 547 057	6 837 745	3	5
		2000..	78 054	1 663 919	67 034	130 759	1 258 023	3 609 331	3 997 733	7 569 389	3	3
		1999..	83 844	1 714 976	72 832	139 894	1 304 951	3 554 607	4 156 688	7 669 247	2	3
		1998..	89 186	1 786 811	78 715	153 996	1 391 734	3 886 588	4 711 937	8 525 727	1	2
		1997..	99 901	1 933 113	88 043	170 420	1 511 480	4 630 556	4 945 443	9 600 569	X	X
31511	Hosiery & sock mills	2001..	43 467	901 752	37 086	71 492	672 663	1 926 745	1 965 067	3 931 126	4	5
		2000..	46 730	952 000	40 185	80 277	730 191	2 110 694	2 035 768	4 137 515	3	4
		1999..	48 646	967 880	42 352	81 866	745 025	1 983 493	2 120 411	4 096 118	3	3
		1998..	49 486	976 807	44 027	86 191	775 333	2 142 823	2 254 283	4 409 579	2	2
		1997..	52 806	982 923	46 944	91 038	780 166	2 196 914	2 360 677	4 562 009	X	X
315111	Sheer hosiery mills	2001..	12 250	255 624	10 309	20 648	185 747	489 023	578 619	1 068 966	9	9
		2000..	13 497	266 577	11 567	24 258	202 488	563 223	637 165	1 185 157	7	8
		1999..	14 670	291 713	12 597	24 403	218 071	568 148	682 043	1 281 290	5	7
		1998..	15 342	311 703	13 613	27 645	247 218	733 008	746 137	1 468 967	2	1
		1997..	17 798	349 890	15 869	31 512	277 937	797 444	845 433	1 658 474	X	X
315119	Other hosiery & sock mills	2001..	31 217	646 128	26 777	50 843	486 916	1 437 722	1 386 448	2 862 160	5	6
		2000..	33 233	685 423	28 618	56 019	527 703	1 547 471	1 398 602	2 952 358	4	5
		1999..	33 977	676 166	29 756	57 463	526 954	1 415 345	1 438 368	2 814 828	3	4
		1998..	34 144	665 104	30 414	58 546	528 116	1 409 816	1 508 145	2 940 612	3	3
		1997..	35 008	633 033	31 075	59 526	502 229	1 399 470	1 515 244	2 903 535	X	X
31519	Other apparel knitting mills	2001..	28 560	624 333	24 544	45 754	463 371	1 256 998	1 581 990	2 906 619	6	10
		2000..	31 324	711 919	26 849	50 483	527 832	1 498 638	1 961 965	3 431 874	5	5
		1999..	35 198	747 096	30 479	58 028	559 926	1 571 114	2 036 276	3 573 129	4	5
		1998..	39 700	810 003	34 687	67 805	616 401	1 743 764	2 457 655	4 116 147	1	3
		1997..	47 095	950 190	41 099	79 382	731 314	2 433 642	2 584 766	5 038 560	X	X
315191	Outerwear knitting mills	2001..	25 514	556 130	21 807	39 673	411 155	1 029 893	1 311 407	2 408 760	6	13
		2000..	28 243	640 857	24 095	45 186	473 947	1 263 150	1 693 494	2 917 276	5	6
		1999..	29 863	628 672	25 885	49 025	474 375	1 239 604	1 740 252	2 951 511	5	7
		1998..	33 371	689 038	29 292	57 801	525 586	1 303 245	2 090 898	3 335 215	2	4
		1997..	40 154	819 788	35 185	68 204	632 965	2 054 507	2 273 005	4 352 532	X	X
315192	Underwear & nightwear knitting mills	2001..	3 046	68 203	2 737	6 081	52 216	227 105	270 583	497 859	9	5
		2000..	3 081	71 062	2 754	5 296	53 885	235 488	268 471	514 599	9	5
		1999..	5 335	118 423	4 595	9 004	85 551	331 510	296 025	621 618	5	3
		1998..	6 329	120 966	5 395	10 004	90 815	440 520	366 756	780 933	3	5
		1997..	6 941	130 402	5 914	11 178	98 349	379 135	311 761	686 028	X	X
3152	Cut & sew apparel mfg	2001..	335 789	6 670 381	269 157	464 510	4 172 749	19 499 663	23 616 551	43 562 535	4	2
		2000..	389 285	7 544 210	311 036	553 329	4 756 848	22 125 042	26 528 711	48 413 066	3	2
		1999..	441 430	8 279 510	356 907	635 776	5 369 774	24 610 209	25 991 765	50 332 221	3	2
		1998..	506 413	9 090 275	420 215	756 028	6 283 598	25 325 705	26 191 060	51 574 061	1	1
		1997..	558 328	9 625 941	462 317	814 228	6 648 642	26 800 066	27 518 916	53 851 513	X	X
31521	Cut & sew apparel contractors	2001..	80 112	1 161 567	69 940	110 760	909 625	2 251 583	1 154 521	3 393 867	14	10
		2000..	98 362	1 377 904	86 221	149 917	1 076 831	2 834 648	1 263 307	4 089 713	12	8
		1999..	117 481	1 594 579	103 388	182 428	1 282 911	3 362 736	1 290 664	4 703 729	9	8
		1998..	162 184	2 216 051	145 942	250 404	1 850 644	3 863 108	1 593 864	5 500 355	2	2
		1997..	197 863	2 572 447	177 519	295 376	2 130 859	4 439 438	1 117 706	5 536 959	X	X
315211	Men's & boys' cut & sew apparel contractors	2001..	29 567	445 939	26 357	42 701	356 614	826 211	367 039	1 196 471	10	9
		2000..	31 524	471 850	28 167	48 121	378 157	957 737	394 136	1 343 719	8	7
		1999..	35 455	525 454	31 674	54 460	428 481	1 058 490	421 862	1 520 242	7	6
		1998..	42 371	641 769	38 544	69 567	544 133	1 222 592	628 820	1 885 306	6	3
		1997..	50 444	693 666	45 469	78 723	578 662	1 241 538	271 017	1 534 022	X	X
315212	Women's, girls', & infants' cut & sew apparel contractors	2001..	50 545	715 628	43 583	68 060	553 011	1 425 372	787 482	2 197 396	22	15
		2000..	66 837	906 054	58 054	101 796	698 673	1 876 911	869 171	2 745 994	17	12
		1999..	82 026	1 069 125	71 714	127 968	854 430	2 304 246	868 801	3 183 487	12	11
		1998..	119 813	1 574 283	107 397	180 837	1 306 511	2 640 516	965 044	3 615 049	2	3
		1997..	147 419	1 878 781	132 050	216 653	1 552 197	3 197 900	846 689	4 002 937	X	X
31522	Men's & boys' cut & sew apparel mfg	2001..	110 607	2 184 246	90 649	162 091	1 467 108	7 169 517	7 649 459	15 116 124	4	3
		2000..	125 834	2 438 068	104 400	189 817	1 718 860	8 175 374	8 876 173	17 195 461	3	2
		1999..	147 600	2 805 648	125 346	224 915	2 012 901	9 548 675	9 296 077	18 700 074	2	4
		1998..	164 738	2 964 379	140 817	259 894	2 232 658	10 103 077	9 958 749	20 155 646	1	2
		1997..	177 527	3 098 512	152 390	276 728	2 325 800	10 513 890	11 007 933	21 298 782	X	X
315221	Men's & boys' cut & sew underwear & nightwear mfg	2001..	3 085	73 936	2 376	4 615	44 121	193 854	283 019	551 420	22	23
		2000..	5 329	122 949	4 578	9 055	91 227	877 628	1 039 846	1 858 055	13	3
		1999..	7 493	156 033	6 742	13 678	129 358	1 031 419	879 772	1 940 205	6	2
		1998..	7 037	117 742	6 277	11 361	96 834	422 608	322 779	740 717	2	3
		1997..	9 759	162 485	8 803	15 864	133 370	815 424	603 497	1 404 202	X	X
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	2001..	14 637	324 216	11 691	23 476	213 893	849 105	581 284	1 459 214	16	11
		2000..	17 220	373 314	14 046	28 139	256 004	1 003 995	774 804	1 842 301	9	7
		1999..	19 550	415 344	16 138	31 949	292 565	1 190 066	759 056	1 870 408	4	18
		1998..	21 200	438 054	17 065	33 041	308 509	1 021 029	925 022	1 932 319	1	2
		1997..	21 948	460 838	17 750	33 325	321 771	1 110 598	1 020 622	2 082 863	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
315	Apparel mfg—Con.											
3152	Cut & sew apparel mfg—Con.											
31522	Men's & boys' cut & sew apparel mfg—Con.											
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	2001	24 326	487 106	19 196	32 216	291 155	1 551 803	2 166 263	3 798 029	7	7
		2000	29 954	588 697	23 943	40 099	377 061	1 489 471	2 491 949	4 127 568	5	4
		1999	38 219	767 088	32 178	55 770	517 177	2 354 826	3 048 087	5 301 549	4	7
		1998	44 314	828 628	37 205	68 984	597 619	3 131 749	3 525 353	6 627 416	2	2
		1997	52 648	938 927	44 789	80 887	699 713	3 306 989	3 639 576	6 916 178	X	X
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	2001	35 840	723 088	30 227	51 499	503 806	3 219 800	2 941 629	6 263 063	8	3
		2000	37 684	732 707	32 149	58 613	541 191	3 288 977	2 753 247	6 059 085	7	3
		1999	42 208	800 620	36 586	63 494	570 540	3 503 585	2 996 810	6 487 349	3	5
		1998	46 456	853 348	41 592	78 090	691 739	3 811 490	3 330 653	7 159 099	2	1
		1997	45 219	775 607	40 507	74 012	624 538	3 392 475	3 841 987	7 152 379	X	X
315225	Men's & boys' cut & sew work clothing mfg	2001	17 897	307 244	15 040	26 918	217 015	786 426	987 181	1 790 109	4	8
		2000	19 042	318 843	16 273	28 262	230 130	878 456	1 055 104	1 908 841	4	8
		1999	20 475	328 349	17 623	30 206	246 246	799 785	873 071	1 686 661	3	8
		1998	22 429	333 682	19 328	33 187	254 928	825 304	874 151	1 833 106	3	19
		1997	23 306	346 801	19 835	34 421	252 193	999 393	899 411	1 865 304	X	X
315228	Men's & boys' cut & sew other outerwear mfg	2001	14 822	268 656	12 120	23 367	197 117	568 528	690 083	1 254 289	12	13
		2000	16 605	301 557	13 411	25 651	223 246	636 846	761 222	1 399 612	8	11
		1999	19 655	338 214	16 080	29 817	257 015	668 994	739 281	1 413 901	5	9
		1998	23 302	392 925	19 350	35 231	283 028	890 897	980 791	1 862 990	1	3
		1997	24 647	413 854	20 706	38 219	294 215	889 011	1 002 840	1 877 856	X	X
31523	Women's & girls' cut & sew apparel mfg	2001	126 120	2 937 166	93 580	165 982	1 560 310	9 078 875	14 023 311	23 276 390	6	3
		2000	144 655	3 299 455	104 490	185 776	1 709 001	10 139 273	15 413 629	25 160 361	4	3
		1999	153 763	3 438 526	110 325	196 411	1 800 343	10 645 492	14 440 581	24 946 320	3	2
		1998	155 940	3 469 291	115 028	213 011	1 921 704	10 186 665	13 550 514	23 730 876	1	1
		1997	157 739	3 490 513	112 449	205 150	1 899 696	10 670 675	14 351 608	24 832 784	X	X
315231	Women's & girls' cut/sew lingerie & nightwear mfg	2001	16 474	336 246	11 643	21 885	183 903	1 318 812	2 145 632	3 469 345	8	7
		2000	17 651	352 588	13 052	25 658	214 524	1 485 116	2 247 578	3 686 544	7	5
		1999	20 348	386 253	15 209	27 206	229 830	1 872 102	2 167 008	4 071 666	6	5
		1998	23 107	422 011	18 039	33 701	281 046	1 685 976	1 929 836	3 649 536	3	4
		1997	26 081	451 917	20 491	39 144	306 652	1 705 803	2 138 835	3 910 357	X	X
315232	Women's & girls' cut & sew blouse & shirt mfg	2001	27 719	662 365	20 069	33 030	316 976	1 821 653	3 439 632	5 369 742	16	7
		2000	29 260	640 450	20 829	36 355	310 989	1 681 041	2 963 640	4 461 586	11	6
		1999	31 101	737 091	21 664	37 617	358 612	1 771 949	2 939 226	4 665 790	9	5
		1998	29 170	708 420	20 767	36 002	347 543	1 907 379	2 630 333	4 471 507	3	1
		1997	26 201	554 072	19 217	33 034	302 185	1 667 037	2 392 071	3 995 123	X	X
315233	Women's & girls' cut & sew dress mfg	2001	22 305	639 596	13 498	24 829	276 845	1 798 404	2 881 910	4 745 398	15	7
		2000	29 960	755 181	18 594	34 074	334 824	2 026 323	3 217 671	5 262 324	9	8
		1999	28 802	757 626	17 500	32 215	342 851	2 200 738	3 177 410	5 378 003	8	8
		1998	29 158	762 834	19 258	36 730	381 718	1 899 916	2 811 284	4 719 308	3	2
		1997	28 280	711 042	17 618	31 231	348 008	2 011 924	3 058 502	5 009 262	X	X
315234	Women's & girls' cut & sew suit, coat, skirt mfg	2001	9 521	301 435	6 759	11 012	113 019	804 306	1 023 235	1 856 490	20	22
		2000	10 685	333 924	7 547	14 294	129 083	740 768	1 046 184	1 789 260	18	15
		1999	12 930	355 958	8 646	16 256	149 263	810 374	1 368 596	2 166 907	14	12
		1998	18 087	476 755	11 818	20 447	226 021	1 373 943	2 014 230	3 446 738	2	2
		1997	20 324	528 734	12 946	23 190	246 832	1 656 257	2 182 131	3 759 250	X	X
315239	Women's & girls' cut & sew other outerwear mfg	2001	50 100	997 523	41 611	75 225	669 567	3 335 701	4 532 901	7 835 415	8	5
		2000	57 100	1 217 313	44 468	75 395	719 581	4 206 025	5 938 556	9 960 647	6	4
		1999	60 582	1 201 599	47 305	83 117	719 787	3 990 329	4 788 341	8 663 953	5	3
		1998	56 419	1 099 272	45 146	86 132	685 376	3 319 451	4 164 831	7 443 787	1	2
		1997	56 853	1 244 748	42 177	78 551	696 019	3 629 654	4 580 069	8 158 792	X	X
31529	Other cut & sew apparel mfg	2001	18 950	387 403	14 989	25 677	235 707	999 688	789 261	1 776 154	5	4
		2000	20 435	428 783	15 925	27 819	252 157	975 747	975 602	1 967 530	5	3
		1999	22 586	440 757	17 848	32 023	273 618	1 053 305	964 443	1 982 098	4	5
		1998	23 551	440 554	18 429	32 718	278 592	1 172 855	1 087 933	2 187 183	2	10
		1997	25 199	464 469	19 959	36 974	292 287	1 176 063	1 041 669	2 182 988	X	X
315291	Infants' cut & sew apparel mfg	2001	2 674	45 994	1 766	3 166	31 038	237 817	187 177	434 602	17	9
		2000	4 666	100 817	3 045	5 653	53 883	307 175	388 041	718 959	9	6
		1999	6 571	116 655	4 918	9 862	82 265	435 090	419 891	824 883	7	11
		1998	8 903	162 152	6 911	12 982	105 118	468 852	524 446	1 019 464	1	14
		1997	9 457	152 721	7 879	15 425	112 899	487 099	457 862	945 119	X	X
315292	Fur & leather apparel mfg	2001	2 868	61 250	2 493	4 276	38 146	145 644	179 881	319 144	20	10
		2000	2 739	61 856	2 287	4 195	36 133	137 618	172 618	307 533	19	12
		1999	2 782	58 571	2 163	4 014	32 525	124 543	135 078	258 678	22	9
		1998	1 710	41 380	1 274	2 608	23 957	102 679	115 250	217 475	17	10
		1997	2 132	45 928	1 606	2 977	27 345	115 965	129 663	244 687	X	X
315299	All other cut & sew apparel mfg	2001	13 408	280 159	10 730	18 236	166 523	616 227	422 203	1 022 409	4	4
		2000	13 030	266 110	10 593	17 972	162 141	530 954	414 943	941 038	5	4
		1999	13 232	265 531	10 766	18 147	158 828	493 673	409 474	898 537	3	3
		1998	12 937	237 022	10 244	17 129	149 517	601 324	448 236	950 244	3	16
		1997	13 610	265 820	10 474	18 572	152 043	572 999	454 144	993 182	X	X
3159	Apparel accessories & other apparel mfg	2001	48 655	1 008 090	38 529	70 492	629 821	2 125 914	2 089 834	4 198 015	3	3
		2000	52 983	1 079 934	42 219	75 739	665 860	2 168 713	2 208 866	4 356 536	3	3
		1999	52 499	1 051 526	41 715	76 947	657 733	2 205 308	2 119 524	4 303 725	3	3
		1998	53 411	1 045 802	42 742	79 019	658 936	2 565 777	2 287 205	4 832 201	1	2
		1997	52 567	1 023 298	41 930	75 666	639 320	2 349 571	2 219 141	4 566 034	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
315	Apparel mfg—Con.											
3159	Apparel accessories & other apparel mfg—Con.											
31599	Apparel accessories & other apparel mfg	2001..	48 655	1 008 090	38 529	70 492	629 821	2 125 914	2 089 834	4 198 015	3	3
		2000..	52 983	1 079 934	42 219	75 739	665 860	2 168 713	2 208 866	4 356 536	3	3
		1999..	52 499	1 051 526	41 715	76 947	657 733	2 205 308	2 119 524	4 303 725	3	3
		1998..	53 411	1 045 802	42 742	79 019	658 936	2 565 777	2 287 205	4 832 201	1	2
		1997..	52 567	1 023 298	41 930	75 666	639 320	2 349 571	2 219 141	4 566 034	X	X
315991	Hat, cap, & millinery mfg	2001..	14 885	293 877	12 259	22 680	199 779	582 414	414 302	991 303	9	10
		2000..	16 292	315 247	13 740	24 824	219 382	613 634	403 012	1 017 647	8	8
		1999..	16 682	318 283	14 133	25 918	224 930	636 573	375 504	1 007 016	7	7
		1998..	16 827	304 897	13 720	25 531	219 665	652 724	383 309	1 038 100	3	7
		1997..	17 237	303 495	14 090	25 539	214 402	570 346	404 686	980 704	X	X
315992	Glove & mitten mfg	2001..	4 688	95 946	3 769	7 534	63 369	172 280	257 537	433 414	11	6
		2000..	5 068	101 097	4 148	8 425	70 165	171 481	263 225	431 497	10	6
		1999..	5 396	101 879	4 419	9 173	70 627	198 446	273 326	469 963	9	5
		1998..	6 223	116 348	5 223	10 873	78 307	408 754	321 735	725 993	2	6
		1997..	6 412	119 679	5 308	9 837	79 297	337 930	335 609	672 639	X	X
315993	Men's & boys' neckwear mfg	2001..	3 515	89 873	2 769	5 256	49 463	243 251	183 789	433 468	8	7
		2000..	4 047	96 847	3 209	5 910	53 088	225 881	229 256	457 082	7	8
		1999..	4 426	110 794	3 408	6 751	59 108	226 348	234 566	472 642	6	9
		1998..	4 985	123 696	3 823	6 753	63 193	337 683	278 382	607 191	1	4
		1997..	4 936	117 274	3 820	6 883	61 907	330 533	270 002	598 457	X	X
315999	Other apparel accessories & other apparel mfg	2001..	25 567	528 393	19 732	35 022	317 210	1 127 971	1 234 206	2 339 830	3	4
		2000..	27 577	566 743	21 123	36 580	323 225	1 157 717	1 313 374	2 450 309	3	3
		1999..	25 994	520 569	19 756	35 105	303 069	1 143 941	1 236 126	2 354 104	3	3
		1998..	25 375	500 861	19 975	35 862	297 772	1 166 616	1 303 779	2 460 918	1	2
		1997..	23 982	482 850	18 712	33 407	283 714	1 110 762	1 208 844	2 314 234	X	X
316	Leather & allied product mfg	2001..	61 747	1 482 565	49 083	91 597	943 433	4 178 073	4 602 267	8 834 413	3	3
		2000..	69 209	1 653 209	55 290	105 315	1 060 636	4 515 506	5 140 168	9 646 734	2	3
		1999..	73 784	1 766 449	59 543	117 377	1 147 028	4 562 843	5 110 191	9 652 897	1	2
		1998..	80 933	1 823 228	65 322	128 982	1 176 611	5 015 800	5 217 653	10 185 821	1	3
		1997..	85 115	1 832 341	68 733	133 908	1 185 870	5 407 999	5 480 529	10 876 510	X	X
3161	Leather & hide tanning & finishing	2001..	12 998	375 555	10 467	20 560	264 838	1 019 509	1 790 841	2 851 363	5	5
		2000..	15 214	441 536	12 256	24 184	319 706	1 215 593	1 958 508	3 161 379	6	4
		1999..	15 070	453 590	12 343	25 971	331 474	1 140 454	1 993 861	3 155 837	2	3
		1998..	15 366	430 148	12 893	26 396	316 248	1 287 402	2 029 394	3 310 066	1	2
		1997..	14 898	408 772	12 348	24 867	303 177	1 372 896	2 192 848	3 576 657	X	X
31611	Leather & hide tanning & finishing	2001..	12 998	375 555	10 467	20 560	264 838	1 019 509	1 790 841	2 851 363	5	5
		2000..	15 214	441 536	12 256	24 184	319 706	1 215 593	1 958 508	3 161 379	6	4
		1999..	15 070	453 590	12 343	25 971	331 474	1 140 454	1 993 861	3 155 837	2	3
		1998..	15 366	430 148	12 893	26 396	316 248	1 287 402	2 029 394	3 310 066	1	2
		1997..	14 898	408 772	12 348	24 867	303 177	1 372 896	2 192 848	3 576 657	X	X
316110	Leather & hide tanning & finishing	2001..	12 998	375 555	10 467	20 560	264 838	1 019 509	1 790 841	2 851 363	5	5
		2000..	15 214	441 536	12 256	24 184	319 706	1 215 593	1 958 508	3 161 379	6	4
		1999..	15 070	453 590	12 343	25 971	331 474	1 140 454	1 993 861	3 155 837	2	3
		1998..	15 366	430 148	12 893	26 396	316 248	1 287 402	2 029 394	3 310 066	1	2
		1997..	14 898	408 772	12 348	24 867	303 177	1 372 896	2 192 848	3 576 657	X	X
3162	Footwear mfg	2001..	28 043	633 753	22 691	41 946	412 800	1 671 771	1 831 172	3 511 020	4	6
		2000..	30 521	695 621	24 870	47 423	444 446	1 703 513	2 043 605	3 760 243	3	6
		1999..	34 546	763 926	28 366	55 402	502 450	1 892 250	1 967 833	3 797 185	2	5
		1998..	37 563	783 263	30 908	59 842	510 918	1 835 839	1 913 518	3 763 959	2	8
		1997..	41 744	827 526	34 669	66 707	542 243	2 219 507	2 018 550	4 210 975	X	X
31621	Footwear mfg	2001..	28 043	633 753	22 691	41 946	412 800	1 671 771	1 831 172	3 511 020	4	6
		2000..	30 521	695 621	24 870	47 423	444 446	1 703 513	2 043 605	3 760 243	3	6
		1999..	34 546	763 926	28 366	55 402	502 450	1 892 250	1 967 833	3 797 185	2	5
		1998..	37 563	783 263	30 908	59 842	510 918	1 835 839	1 913 518	3 763 959	2	8
		1997..	41 744	827 526	34 669	66 707	542 243	2 219 507	2 018 550	4 210 975	X	X
316211	Rubber & plastics footwear mfg	2001..	5 959	136 671	4 729	8 897	102 680	570 662	403 035	962 989	7	9
		2000..	6 425	153 624	5 009	10 106	94 522	497 685	497 329	976 511	6	4
		1999..	6 997	156 726	5 593	11 098	101 996	565 877	513 710	1 023 225	4	2
		1998..	8 198	192 220	6 688	13 447	125 022	584 389	542 972	1 130 220	3	3
		1997..	8 292	168 185	6 890	14 467	119 135	519 953	498 663	1 009 838	X	X
316212	House slipper mfg	2001..	1 466	36 634	1 091	2 092	19 382	100 395	102 775	204 895	1	1
		2000..	1 780	43 029	1 373	2 595	24 422	121 317	132 885	254 263	1	1
		1999..	1 946	45 921	1 462	2 729	24 742	118 270	127 945	247 942	1	1
		1998..	2 246	46 786	1 810	3 771	28 183	122 363	109 455	234 684	5	3
		1997..	2 501	51 471	1 960	4 303	30 799	147 572	125 482	263 816	X	X
316213	Men's footwear (except athletic) mfg	2001..	13 564	307 378	10 835	20 216	196 528	795 856	1 121 538	1 942 481	7	10
		2000..	14 155	319 216	11 517	21 664	212 839	819 400	1 164 031	2 021 698	6	13
		1999..	15 293	343 768	12 504	24 475	231 786	822 056	1 009 447	1 829 236	4	11
		1998..	14 971	314 264	12 020	22 495	200 442	712 708	983 233	1 691 658	5	15
		1997..	17 182	367 831	14 088	25 767	236 591	1 065 698	974 259	2 019 647	X	X
316214	Women's footwear (except athletic) mfg	2001..	5 302	119 435	4 480	7 761	68 202	150 143	159 347	302 642	7	10
		2000..	6 114	137 426	5 217	9 733	82 947	188 147	185 678	369 127	4	6
		1999..	7 417	160 214	6 329	12 211	102 353	289 979	232 505	515 637	2	3
		1998..	9 370	179 913	8 089	15 721	122 819	285 439	199 932	506 415	1	32
		1997..	10 442	183 020	8 905	16 988	114 011	373 803	322 851	703 653	X	X
316219	Other footwear mfg	2001..	1 752	33 635	1 556	2 979	26 007	54 715	44 476	98 013	21	19
		2000..	2 047	42 326	1 754	3 325	29 716	76 964	63 682	138 644	10	16
		1999..	2 893	57 297	2 477	4 890	41 573	96 068	84 226	181 145	3	9
		1998..	2 778	50 080	2 301	4 408	34 451	130 940	77 925	200 982	12	14
		1997..	3 327	57 019	2 826	5 182	41 707	112 481	97 295	214 021	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
316	Leather & allied product mfg—Con.											
3169	Other leather & allied product mfg	2001..	20 705	473 257	15 926	29 092	265 795	1 486 793	980 254	2 472 030	5	3
		2000..	23 474	516 053	18 164	33 708	296 484	1 596 400	1 138 055	2 725 111	3	2
		1999..	24 168	548 933	18 834	36 004	313 104	1 530 140	1 148 497	2 699 875	3	2
		1998..	28 004	609 817	21 520	42 745	349 445	1 892 559	1 274 742	3 111 795	1	1
		1997..	28 473	596 043	21 716	42 334	340 450	1 815 596	1 269 131	3 088 878	X	X
31699	Other leather & allied product mfg	2001..	20 705	473 257	15 926	29 092	265 795	1 486 793	980 254	2 472 030	5	3
		2000..	23 474	516 053	18 164	33 708	296 484	1 596 400	1 138 055	2 725 111	3	2
		1999..	24 168	548 933	18 834	36 004	313 104	1 530 140	1 148 497	2 699 875	3	2
		1998..	28 004	609 817	21 520	42 745	349 445	1 892 559	1 274 742	3 111 795	1	1
		1997..	28 473	596 043	21 716	42 334	340 450	1 815 596	1 269 131	3 088 878	X	X
316991	Luggage mfg	2001..	6 956	172 477	5 405	10 579	92 371	764 160	397 976	1 158 560	8	3
		2000..	8 188	188 799	6 468	12 606	108 588	810 254	478 148	1 287 859	6	2
		1999..	8 944	214 526	6 975	13 630	119 314	789 836	549 321	1 347 141	4	2
		1998..	9 275	213 438	6 747	13 203	111 898	952 545	561 333	1 463 608	3	1
		1997..	9 550	219 951	6 958	13 571	115 006	858 991	568 128	1 425 871	X	X
316992	Women's handbag & purse mfg	2001..	2 289	47 305	1 683	2 858	25 931	130 992	91 836	220 015	13	10
		2000..	2 302	64 664	1 642	2 797	28 414	143 095	107 384	246 858	3	3
		1999..	2 623	68 863	1 887	3 610	31 667	132 432	94 356	225 851	3	4
		1998..	3 651	80 588	2 732	5 143	45 680	162 349	95 761	258 412	4	7
		1997..	3 492	78 998	2 726	5 380	46 073	162 276	126 201	287 341	X	X
316993	Personal leather good (except women's handbag & purse) mfg	2001..	4 198	100 957	3 199	6 035	56 459	192 345	140 534	340 769	4	4
		2000..	4 600	95 955	3 608	7 046	58 403	197 860	160 037	354 734	4	3
		1999..	4 557	93 245	3 613	7 007	57 006	197 312	149 119	345 598	5	4
		1998..	4 957	110 742	3 856	8 110	63 633	240 756	166 238	408 764	2	2
		1997..	5 215	109 840	3 837	7 722	57 729	279 219	182 618	465 206	X	X
316999	All other leather good mfg	2001..	7 262	152 518	5 639	9 620	91 033	399 295	349 909	752 686	9	6
		2000..	8 384	166 635	6 447	11 259	101 079	445 191	392 486	835 661	7	6
		1999..	8 043	172 299	6 360	11 756	105 116	410 560	355 701	781 285	6	5
		1998..	10 121	205 049	8 186	16 289	128 234	536 909	451 409	981 010	3	2
		1997..	10 216	187 254	8 195	15 661	121 642	515 110	392 184	910 460	X	X
321	Wood product mfg	2001..	555 900	15 431 017	458 915	905 655	11 135 413	33 129 553	53 788 662	87 250 016	1	1
		2000..	586 473	16 127 580	486 245	962 783	11 752 286	36 104 201	57 867 854	93 668 594	1	1
		1999..	588 609	15 988 598	491 408	991 559	11 723 734	37 957 368	59 769 153	97 311 543	1	1
		1998..	577 900	15 112 611	483 813	976 860	11 123 453	34 469 465	56 621 634	91 174 529	1	1
		1997..	570 034	14 319 193	476 225	948 438	10 567 993	33 493 004	55 299 641	88 470 180	X	X
3211	Sawmills & wood preservation	2001..	124 432	3 481 384	105 630	220 007	2 683 677	7 484 234	18 297 468	25 924 353	2	3
		2000..	130 326	3 649 079	109 367	228 034	2 815 084	8 355 252	19 894 688	28 071 582	2	2
		1999..	130 222	3 632 196	111 018	233 907	2 827 131	9 347 471	20 599 360	29 851 613	2	2
		1998..	128 128	3 476 001	109 541	230 825	2 734 106	8 098 078	19 604 198	27 908 665	1	2
		1997..	130 935	3 478 548	111 962	230 740	2 717 104	9 481 550	19 789 802	29 093 601	X	X
32111	Sawmills & wood preservation	2001..	124 432	3 481 384	105 630	220 007	2 683 677	7 484 234	18 297 468	25 924 353	2	3
		2000..	130 326	3 649 079	109 367	228 034	2 815 084	8 355 252	19 894 688	28 071 582	2	2
		1999..	130 222	3 632 196	111 018	233 907	2 827 131	9 347 471	20 599 360	29 851 613	2	2
		1998..	128 128	3 476 001	109 541	230 825	2 734 106	8 098 078	19 604 198	27 908 665	1	2
		1997..	130 935	3 478 548	111 962	230 740	2 717 104	9 481 550	19 789 802	29 093 601	X	X
321113	Sawmills	2001..	113 573	3 168 590	97 122	202 656	2 484 001	6 780 504	14 849 409	21 693 638	3	3
		2000..	118 713	3 333 566	100 171	208 849	2 613 003	7 491 285	16 121 075	23 448 664	3	3
		1999..	118 012	3 310 220	101 236	214 178	2 617 419	8 428 341	16 697 614	25 061 265	2	2
		1998..	116 304	3 177 159	100 317	212 689	2 544 978	7 305 584	15 961 441	23 422 483	1	2
		1997..	119 267	3 180 425	102 788	212 176	2 527 290	8 521 097	16 227 066	24 632 080	X	X
321114	Wood preservation	2001..	10 859	312 794	8 507	17 351	199 675	703 730	3 448 059	4 230 714	3	6
		2000..	11 613	315 513	9 196	19 185	202 081	863 967	3 773 613	4 622 918	2	7
		1999..	12 210	321 976	9 782	19 729	209 712	919 130	3 901 745	4 790 348	2	2
		1998..	11 823	298 841	9 224	18 136	189 128	792 494	3 642 757	4 486 182	2	8
		1997..	11 668	298 123	9 174	18 564	189 814	960 453	3 562 736	4 461 521	X	X
3212	Veneer, plywood, & engineered wood product mfg	2001..	115 373	3 514 652	95 253	199 675	2 563 317	7 585 714	11 971 612	19 636 311	1	2
		2000..	120 002	3 659 198	99 602	213 746	2 686 236	8 477 221	12 849 553	21 264 282	1	1
		1999..	115 701	3 458 044	96 639	208 091	2 575 618	8 988 146	12 890 072	21 800 921	1	1
		1998..	112 532	3 310 807	93 814	203 602	2 440 335	7 937 109	12 190 284	20 125 786	1	1
		1997..	113 085	3 155 921	94 202	200 835	2 350 065	7 208 798	11 673 718	18 815 394	X	X
32121	Veneer, plywood, & engineered wood product mfg	2001..	115 373	3 514 652	95 253	199 675	2 563 317	7 585 714	11 971 612	19 636 311	1	2
		2000..	120 002	3 659 198	99 602	213 746	2 686 236	8 477 221	12 849 553	21 264 282	1	1
		1999..	115 701	3 458 044	96 639	208 091	2 575 618	8 988 146	12 890 072	21 800 921	1	1
		1998..	112 532	3 310 807	93 814	203 602	2 440 335	7 937 109	12 190 284	20 125 786	1	1
		1997..	113 085	3 155 921	94 202	200 835	2 350 065	7 208 798	11 673 718	18 815 394	X	X
321211	Hardwood veneer & plywood mfg	2001..	22 522	584 922	19 520	37 856	428 661	1 167 492	2 021 040	3 186 231	3	4
		2000..	23 775	617 653	20 635	41 483	462 275	1 348 409	2 043 033	3 342 307	3	3
		1999..	21 968	556 315	19 084	38 534	422 697	1 214 277	1 856 701	3 065 531	2	3
		1998..	21 236	550 599	18 596	38 780	407 946	1 158 372	1 832 338	2 963 272	3	2
		1997..	22 029	523 831	19 220	39 449	389 234	1 121 661	1 751 522	2 861 556	X	X
321212	Softwood veneer & plywood mfg	2001..	25 611	849 318	23 164	51 621	727 196	1 430 467	3 385 167	4 854 470	2	2
		2000..	27 567	911 066	24 892	55 985	789 315	1 625 412	3 870 823	5 482 631	1	1
		1999..	25 793	861 335	23 486	54 128	750 284	1 979 417	4 025 046	5 969 294	1	1
		1998..	26 219	859 116	23 828	54 298	741 355	1 688 956	3 950 952	5 679 357	3	2
		1997..	28 435	895 756	25 747	59 494	776 233	1 713 341	3 950 877	5 658 347	X	X
321213	Engineered wood member (except truss) mfg	2001..	5 724	193 583	4 932	11 091	154 889	583 350	1 165 356	1 755 446	7	9
		2000..	5 709	185 192	4 844	10 925	141 393	495 571	1 165 735	1 690 861	5	4
		1999..	5 884	192 765	5 049	11 699	150 127	537 359	1 243 101	1 766 770	5	4
		1998..	5 811	173 489	4 869	10 887	132 829	560 184	1 066 818	1 620 870	1	2
		1997..	5 372	154 564	4 469	9 701	118 939	476 346	974 548	1 431 123	X	X
321214	Truss mfg	2001..	39 307	1 104 210	29 634	60 772	671 292	2 099 943	2 354 836	4 459 281	3	3
		2000..	38 597	1 083 561	29 276	60 765	653 851	2 089 973	2 458 411	4 545 659	3	3
		1999..	37 649	1 009 567	28 856	58 293	619 031	2 009 518	2 490 744	4 485 761	2	2
		1998..	34 661	920 735	26 401	55 144	555 877	1 874 948	2 228 310	4 091 568	3	3
		1997..	32 069	784 839	24 266	47 270	470 967	1 584 826	2 032 748	3 610 943	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees		Production workers			Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column—	
			Number[1]	Payroll ($1,000)	Number[1]	Hours (1,000)	Wages ($1,000)					
			A	B	C	D	E	F	G	H	A	F
321	Wood product mfg—Con.											
3212	Veneer, plywood, & engineered wood product mfg—Con.											
32121	Veneer, plywood, & engineered wood product mfg—Con.											
321219	Reconstituted wood product mfg	2001..	22 208	782 619	18 003	38 336	581 279	2 304 461	3 045 213	5 380 883	3	3
		2000..	24 354	861 727	19 954	44 588	639 402	2 917 857	3 311 550	6 202 824	1	2
		1999..	24 408	838 062	20 164	45 437	633 479	3 247 575	3 274 480	6 513 565	1	2
		1998..	24 605	806 868	20 120	44 493	602 328	2 654 649	3 111 866	5 770 720	1	1
		1997..	25 180	796 931	20 500	44 921	594 692	2 312 624	2 964 023	5 253 425	X	X
3219	Other wood product mfg	2001..	316 095	8 434 981	258 032	485 973	5 888 420	18 059 605	23 519 582	41 689 353	2	1
		2000..	336 145	8 819 303	277 276	521 002	6 250 966	19 271 728	25 123 613	44 332 729	2	1
		1999..	342 686	8 898 358	283 751	549 561	6 320 985	19 621 751	26 279 721	45 659 010	1	1
		1998..	337 240	8 325 804	280 459	542 433	5 949 012	18 434 277	24 827 152	43 140 077	1	1
		1997..	326 014	7 684 724	270 061	516 863	5 500 824	16 802 656	23 836 121	40 561 185	X	X
32191	Millwork	2001..	145 904	4 166 871	119 430	230 306	2 973 203	9 166 452	12 940 576	22 148 607	5	2
		2000..	151 653	4 226 621	125 930	243 559	3 088 110	9 475 661	13 425 961	22 800 028	4	2
		1999..	151 659	4 101 319	125 346	249 207	2 965 317	8 919 407	13 149 766	21 958 237	2	2
		1998..	145 125	3 696 253	120 935	237 042	2 710 555	8 104 354	11 918 501	19 985 354	1	1
		1997..	140 506	3 434 757	116 828	229 267	2 528 265	7 463 664	11 631 811	19 040 942	X	X
321911	Wood window & door mfg	2001..	65 894	2 120 872	52 706	100 446	1 475 195	5 141 557	6 088 433	11 253 127	10	4
		2000..	68 317	2 133 397	55 445	105 715	1 536 728	5 088 029	6 127 991	11 174 999	9	3
		1999..	69 473	2 107 860	55 567	110 841	1 481 146	4 605 320	5 780 674	10 309 993	4	3
		1998..	66 817	1 877 279	54 379	104 640	1 344 759	4 125 803	5 245 125	9 359 956	2	2
		1997..	63 806	1 702 872	51 706	102 542	1 229 286	3 687 713	4 970 743	8 673 423	X	X
321912	Cut stock, resawing lumber, & planing	2001..	40 173	987 539	34 048	66 310	745 324	1 918 669	4 015 146	5 968 795	3	3
		2000..	41 710	1 027 014	35 795	71 000	780 345	2 110 079	4 403 964	6 488 539	3	3
		1999..	41 561	989 376	35 799	70 600	753 042	2 118 239	4 445 850	6 542 853	2	3
		1998..	39 744	918 608	34 370	68 048	700 496	2 049 668	3 960 323	5 992 911	2	4
		1997..	39 205	878 081	33 921	66 395	675 578	1 940 712	4 010 533	5 925 115	X	X
321918	Other millwork (including flooring)	2001..	39 837	1 058 459	32 675	63 551	752 684	2 106 226	2 836 998	4 926 685	3	3
		2000..	41 626	1 066 210	34 690	66 844	771 037	2 277 552	2 894 006	5 136 489	2	4
		1999..	40 626	1 004 083	33 980	67 765	731 129	2 195 848	2 923 243	5 105 390	2	4
		1998..	38 564	900 366	32 186	64 354	665 299	1 928 883	2 713 053	4 632 487	1	1
		1997..	37 495	853 804	31 201	60 330	623 401	1 835 239	2 650 535	4 442 404	X	X
32192	Wood container & pallet mfg	2001..	49 157	1 097 365	41 120	78 702	761 721	2 169 347	2 532 151	4 686 630	5	3
		2000..	51 091	1 116 084	43 604	81 001	789 003	2 285 846	2 741 813	5 031 174	5	3
		1999..	49 899	1 062 422	42 688	81 126	755 433	2 193 307	2 694 299	4 868 008	3	2
		1998..	52 564	1 033 297	44 478	84 204	735 086	2 122 924	2 585 336	4 684 805	2	1
		1997..	51 173	971 865	43 071	79 058	689 861	1 999 828	2 495 045	4 489 070	X	X
321920	Wood container & pallet mfg	2001..	49 157	1 097 365	41 120	78 702	761 721	2 169 347	2 532 151	4 686 630	5	3
		2000..	51 091	1 116 084	43 604	81 001	789 003	2 285 846	2 741 813	5 031 174	5	3
		1999..	49 899	1 062 422	42 688	81 126	755 433	2 193 307	2 694 299	4 868 008	3	2
		1998..	52 564	1 033 297	44 478	84 204	735 086	2 122 924	2 585 336	4 684 805	2	1
		1997..	51 173	971 865	43 071	79 058	689 861	1 999 828	2 495 045	4 489 070	X	X
32199	All other wood product mfg	2001..	121 034	3 170 744	97 483	176 964	2 153 496	6 723 806	8 046 854	14 854 116	2	2
		2000..	133 402	3 476 598	107 743	196 442	2 373 853	7 510 222	8 955 839	16 501 528	1	2
		1999..	141 129	3 734 616	115 717	219 228	2 600 234	8 509 036	10 435 655	18 832 765	1	1
		1998..	139 551	3 596 254	115 046	221 188	2 503 372	8 207 000	10 323 315	18 469 918	1	1
		1997..	134 335	3 278 102	110 162	208 538	2 282 698	7 339 164	9 709 265	17 031 173	X	X
321991	Manufactured home (mobile home) mfg	2001..	52 058	1 404 641	43 192	79 334	996 880	2 971 396	4 196 059	7 211 376	3	3
		2000..	62 104	1 679 914	51 470	93 965	1 188 151	3 504 537	4 926 686	8 476 499	2	2
		1999..	71 747	1 995 956	60 659	116 437	1 438 236	4 560 503	6 360 698	10 873 747	2	2
		1998..	71 424	2 005 262	60 546	117 082	1 423 123	4 530 977	6 528 377	11 037 598	2	1
		1997..	67 470	1 771 302	57 000	108 090	1 270 023	4 009 319	6 081 981	10 085 615	X	X
321992	Prefabricated wood building mfg	2001..	26 166	762 976	19 572	36 397	474 020	1 507 175	1 927 791	3 435 788	4	3
		2000..	26 334	746 915	19 329	37 027	445 400	1 578 694	1 997 617	3 571 077	3	3
		1999..	25 612	704 775	18 895	36 763	422 995	1 565 367	2 019 571	3 569 713	2	3
		1998..	23 579	624 900	17 289	34 343	376 828	1 468 342	1 841 983	3 296 201	3	3
		1997..	23 187	592 344	16 790	32 723	348 024	1 274 863	1 752 312	3 028 520	X	X
321999	All other miscellaneous wood product mfg	2001..	42 810	1 003 127	34 718	61 233	682 597	2 245 234	1 923 004	4 206 953	3	3
		2000..	44 964	1 049 769	36 944	65 450	740 301	2 426 990	2 031 536	4 453 952	3	3
		1999..	43 769	1 033 885	36 164	66 029	739 003	2 383 167	2 055 386	4 389 304	2	3
		1998..	44 548	966 092	37 211	69 763	703 421	2 207 681	1 952 955	4 136 119	1	2
		1997..	43 678	914 456	36 372	67 725	664 651	2 054 982	1 874 972	3 917 038	X	X
322	Paper mfg	2001..	530 245	22 188 323	407 779	849 856	15 026 027	73 036 412	82 822 970	155 846 001	1	1
		2000..	548 293	22 680 124	424 368	893 997	15 421 447	78 195 294	87 346 606	165 297 430	1	1
		1999..	560 662	22 837 400	431 772	921 344	15 624 488	74 119 124	82 720 923	156 914 871	1	1
		1998..	572 371	22 529 483	439 133	929 325	15 387 457	72 879 006	82 419 356	154 984 192	1	1
		1997..	574 274	22 311 971	440 096	935 795	15 187 973	70 300 235	80 189 518	150 295 890	X	X
3221	Pulp, paper, & paperboard mills	2001..	170 661	9 178 690	134 204	284 984	6 738 724	37 279 422	34 870 991	71 987 278	1	1
		2000..	179 279	9 447 174	140 691	300 641	6 916 536	40 758 072	37 236 684	77 832 226	1	1
		1999..	187 518	9 759 270	146 566	315 539	7 176 889	37 387 672	35 990 888	73 566 671	1	1
		1998..	195 053	9 785 963	151 957	327 749	7 099 990	36 326 513	35 861 026	71 977 971	1	1
		1997..	201 540	10 001 730	156 546	342 376	7 216 702	35 230 199	36 334 352	71 539 224	X	X
32211	Pulp mills	2001..	7 218	414 452	5 572	11 969	291 732	1 413 321	1 847 086	3 238 832	3	2
		2000..	7 337	411 307	5 671	11 888	291 224	1 827 072	1 902 416	3 701 423	2	2
		1999..	7 311	389 985	5 561	11 703	274 689	1 442 824	1 634 547	3 113 531	1	1
		1998..	7 433	397 165	5 686	12 443	279 161	1 403 944	1 724 924	3 130 246	1	3
		1997..	8 048	417 689	6 084	12 915	295 393	1 507 468	1 694 648	3 263 973	X	X
322110	Pulp mills	2001..	7 218	414 452	5 572	11 969	291 732	1 413 321	1 847 086	3 238 832	3	2
		2000..	7 337	411 307	5 671	11 888	291 224	1 827 072	1 902 416	3 701 423	2	2
		1999..	7 311	389 985	5 561	11 703	274 689	1 442 824	1 634 547	3 113 531	1	1
		1998..	7 433	397 165	5 686	12 443	279 161	1 403 944	1 724 924	3 130 246	1	3
		1997..	8 048	417 689	6 084	12 915	295 393	1 507 468	1 694 648	3 263 973	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
322	Paper mfg—Con.											
3221	Pulp, paper, & paperboard mills—Con.											
32212	Paper mills	2001..	114 670	6 162 914	90 710	189 668	4 589 934	24 836 783	22 108 471	46 852 538	1	1
		2000..	121 025	6 340 914	95 684	202 465	4 695 111	27 017 094	23 857 403	50 803 745	1	1
		1999..	129 011	6 688 680	101 575	217 819	4 988 114	25 515 627	23 527 689	49 150 478	1	1
		1998..	133 939	6 675 971	104 985	225 101	4 889 866	24 812 488	23 297 522	47 905 244	1	1
		1997..	138 985	6 915 579	108 622	236 354	5 007 106	24 681 603	23 540 735	48 161 554	X	X
322121	Paper (except newsprint) mills	2001..	104 964	5 586 938	83 154	173 453	4 171 388	22 676 592	20 003 845	42 602 115	1	1
		2000..	110 708	5 738 720	87 640	184 739	4 255 710	24 777 987	21 420 481	46 119 069	1	1
		1999..	117 721	6 062 652	92 819	199 148	4 526 150	23 400 146	21 231 531	44 728 354	1	1
		1998..	121 298	5 973 936	95 227	203 926	4 374 292	21 859 582	20 609 399	42 254 842	1	1
		1997..	125 935	6 197 015	98 577	214 510	4 483 213	22 128 898	20 914 676	42 966 163	X	X
322122	Newsprint mills	2001..	9 706	575 976	7 556	16 215	418 545	2 160 191	2 104 626	4 250 423	2	2
		2000..	10 317	602 195	8 045	17 726	439 400	2 239 107	2 436 922	4 684 676	1	2
		1999..	11 291	626 027	8 756	18 670	461 964	2 115 481	2 296 158	4 422 124	1	2
		1998..	12 641	702 035	9 758	21 175	515 573	2 952 906	2 688 123	5 650 402	1	2
		1997..	13 050	718 564	10 045	21 844	523 893	2 552 705	2 626 059	5 195 391	X	X
32213	Paperboard mills	2001..	48 773	2 601 324	37 922	83 347	1 857 059	11 029 318	10 915 434	21 895 908	1	1
		2000..	50 918	2 694 952	39 336	86 288	1 930 201	11 913 907	11 476 865	23 327 058	1	1
		1999..	51 196	2 680 605	39 430	86 017	1 914 086	10 429 221	10 828 652	21 302 662	1	1
		1998..	53 681	2 712 826	41 286	90 205	1 930 963	10 110 081	10 838 580	20 942 481	1	1
		1997..	54 507	2 668 462	41 840	93 107	1 914 203	9 041 128	11 098 969	20 113 697	X	X
322130	Paperboard mills	2001..	48 773	2 601 324	37 922	83 347	1 857 059	11 029 318	10 915 434	21 895 908	1	1
		2000..	50 918	2 694 952	39 336	86 288	1 930 201	11 913 907	11 476 865	23 327 058	1	1
		1999..	51 196	2 680 605	39 430	86 017	1 914 086	10 429 221	10 828 652	21 302 662	1	1
		1998..	53 681	2 712 826	41 286	90 205	1 930 963	10 110 081	10 838 580	20 942 481	1	1
		1997..	54 507	2 668 462	41 840	93 107	1 914 203	9 041 128	11 098 969	20 113 697	X	X
3222	Converted paper product mfg	2001..	359 584	13 009 633	273 575	564 872	8 287 303	35 756 990	47 951 979	83 858 722	1	1
		2000..	369 013	13 232 951	283 678	593 356	8 504 911	37 437 222	50 109 922	87 465 204	1	1
		1999..	373 144	13 078 130	285 207	605 805	8 447 599	36 731 453	46 730 035	83 348 199	1	1
		1998..	377 317	12 743 521	287 176	601 577	8 287 467	36 552 493	46 558 330	83 006 221	1	1
		1997..	372 734	12 310 241	283 550	593 419	7 971 271	35 070 036	43 855 166	78 756 666	X	X
32221	Paperboard container mfg	2001..	205 004	7 482 963	157 154	327 303	4 739 664	17 534 489	28 188 981	45 817 402	1	1
		2000..	212 261	7 663 813	163 775	342 640	4 922 977	18 311 024	29 733 962	47 984 640	1	1
		1999..	211 488	7 530 283	162 145	345 260	4 831 991	17 326 708	26 975 497	44 192 991	1	1
		1998..	211 799	7 251 137	161 701	338 573	4 686 776	17 009 113	26 496 456	43 413 764	1	2
		1997..	207 346	6 939 598	158 183	332 734	4 459 052	16 169 581	23 837 340	39 973 012	X	X
322211	Corrugated & solid fiber box mfg	2001..	131 225	4 902 874	96 960	201 763	2 898 466	11 196 572	20 227 342	31 473 077	1	2
		2000..	134 341	4 909 083	99 444	207 443	2 944 779	11 566 898	21 566 315	33 053 266	1	2
		1999..	132 517	4 799 280	97 276	206 589	2 893 637	10 861 383	18 864 009	29 617 530	1	1
		1998..	129 387	4 475 762	94 936	199 595	2 735 247	10 245 283	18 077 144	28 292 507	1	2
		1997..	124 641	4 260 630	91 401	190 936	2 576 043	9 627 993	15 950 040	25 555 136	X	X
322212	Folding paperboard box mfg	2001..	43 618	1 664 152	35 094	74 874	1 149 350	3 807 303	4 723 693	8 570 421	2	2
		2000..	46 677	1 791 259	37 725	80 707	1 238 271	4 146 607	4 773 462	8 931 413	2	2
		1999..	47 584	1 759 206	38 480	83 656	1 210 841	4 017 143	4 691 093	8 701 477	1	1
		1998..	50 798	1 794 138	40 637	85 131	1 235 569	4 154 589	5 045 175	9 223 520	2	1
		1997..	50 465	1 745 178	40 114	87 845	1 195 314	4 118 767	4 802 008	8 929 351	X	X
322213	Setup paperboard box mfg	2001..	5 476	141 706	4 526	8 579	93 776	252 945	191 609	447 678	11	6
		2000..	5 688	147 817	4 717	9 032	98 623	262 652	217 440	481 952	12	7
		1999..	5 345	135 096	4 372	8 186	85 612	252 114	181 004	438 067	4	4
		1998..	S	S	S	S	S	S	S	S	X	X
		1997..	6 033	142 263	4 810	9 333	90 006	299 516	216 728	512 314	X	X
322214	Fiber can, tube, drum, & similar products mfg	2001..	11 490	364 000	9 044	18 659	266 242	1 022 725	1 305 966	2 329 160	6	5
		2000..	11 478	384 703	9 701	21 012	289 907	1 082 908	1 413 035	2 493 514	3	4
		1999..	11 787	403 757	9 642	21 666	291 886	1 047 798	1 422 026	2 461 983	2	3
		1998..	11 311	376 801	9 433	19 784	270 390	1 011 667	1 389 465	2 394 271	2	2
		1997..	11 498	355 517	9 481	19 292	261 515	952 629	1 352 153	2 305 281	X	X
322215	Nonfolding sanitary food container mfg	2001..	13 195	410 231	11 531	23 428	331 829	1 254 944	1 740 371	2 997 067	2	3
		2000..	14 076	430 949	12 188	24 446	351 396	1 251 959	1 763 710	3 024 496	2	3
		1999..	14 254	432 943	12 375	25 163	350 014	1 148 270	1 817 365	2 973 934	2	2
		1998..	14 701	447 284	12 609	25 449	342 269	1 295 812	1 657 824	2 960 066	1	10
		1997..	14 709	436 010	12 377	25 328	336 174	1 170 676	1 516 411	2 670 930	X	X
32222	Paper bag & coated & treated paper mfg	2001..	70 599	2 664 502	51 192	104 915	1 648 925	8 442 792	9 844 052	18 390 436	2	2
		2000..	70 337	2 667 468	52 459	110 853	1 667 398	8 972 856	10 336 960	19 343 230	1	1
		1999..	72 312	2 706 515	53 886	115 648	1 714 417	8 684 563	10 448 702	19 138 068	1	1
		1998..	75 290	2 699 017	55 702	118 189	1 712 526	8 712 284	10 585 389	19 267 102	1	1
		1997..	75 370	2 624 531	55 717	119 916	1 660 845	8 708 660	10 696 858	19 367 269	X	X
322221	Coated & laminated packaging paper & plastics film mfg	2001..	5 545	208 625	4 394	9 177	139 346	553 175	954 472	1 512 300	6	6
		2000..	5 897	213 049	4 680	10 103	141 586	577 137	1 000 711	1 579 518	9	7
		1999..	5 864	205 744	4 664	9 879	138 683	571 934	1 018 260	1 590 998	6	5
		1998..	4 974	175 342	3 812	7 688	113 858	545 060	903 880	1 448 953	8	7
		1997..	5 385	183 786	4 171	9 112	123 403	541 684	956 326	1 491 170	X	X
322222	Coated & laminated paper mfg	2001..	40 577	1 610 436	26 820	53 643	922 005	5 805 416	5 689 916	11 611 530	3	2
		2000..	38 861	1 583 671	26 899	56 271	915 880	6 176 928	5 925 426	12 118 319	2	1
		1999..	40 101	1 601 254	27 802	58 621	939 299	5 768 165	6 108 494	11 901 288	1	1
		1998..	41 548	1 584 975	28 756	60 844	938 456	5 774 573	5 916 703	11 665 467	1	1
		1997..	41 550	1 552 642	28 611	61 493	918 343	5 843 950	6 011 082	11 845 958	X	X
322223	Plastics, foil, & coated paper bag mfg	2001..	2 315	80 618	1 715	3 534	50 521	192 221	227 329	416 714	2	5
		2000..	2 389	80 572	1 748	3 615	48 529	192 508	223 702	421 626	2	7
		1999..	2 626	88 085	1 911	4 184	53 759	226 275	235 863	462 088	1	5
		1998..	3 129	96 131	2 252	4 574	60 414	247 819	257 560	509 073	2	3
		1997..	2 991	94 810	2 147	4 345	55 454	240 445	254 889	493 924	X	X
322224	Uncoated paper & multiwall bag mfg	2001..	14 903	458 850	12 846	26 453	334 961	1 117 862	1 571 853	2 706 849	2	2
		2000..	15 500	477 826	13 374	28 285	354 048	1 177 796	1 693 606	2 874 928	2	2
		1999..	15 878	482 804	13 576	29 439	366 381	1 174 119	1 634 638	2 797 784	2	1
		1998..	17 119	490 330	14 524	31 079	364 535	1 138 977	1 741 414	2 880 157	2	2
		1997..	16 808	461 405	14 199	30 322	345 294	1 124 247	1 679 126	2 794 934	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
322	Paper mfg—Con.											
3222	Converted paper product mfg—Con.											
32222	Paper bag & coated & treated paper mfg—Con.											
322225	Laminated aluminum foil mfg for flexible packaging uses	2001	4 628	216 291	3 468	7 631	147 004	525 603	831 952	1 336 116	4	2
		2000	4 626	208 011	3 493	7 561	141 989	562 304	872 685	1 441 644	4	2
		1999	4 751	210 317	3 620	8 173	148 159	573 354	868 025	1 432 514	1	1
		1998	5 241	228 700	3 869	8 441	161 911	651 942	1 002 496	1 651 809	1	6
		1997	5 342	205 766	4 112	9 111	142 801	603 535	996 431	1 587 850	X	X
322226	Surface-coated paperboard mfg	2001	2 630	89 681	1 950	4 476	55 088	248 515	568 529	806 929	3	4
		2000	3 064	104 339	2 264	5 018	65 366	286 183	620 830	907 196	1	3
		1999	3 092	118 311	2 312	5 352	68 136	370 716	583 422	953 395	1	3
		1998	3 280	123 539	2 490	5 564	73 351	353 915	763 336	1 111 644	1	2
		1997	3 294	126 122	2 477	5 533	75 550	354 799	799 004	1 153 433	X	X
32223	Stationery product mfg	2001	45 137	1 452 293	34 839	70 598	962 795	3 484 622	4 622 922	8 074 693	3	2
		2000	46 831	1 498 748	36 119	75 199	981 713	3 490 147	4 678 214	8 133 150	3	2
		1999	47 881	1 445 464	36 469	76 160	955 685	3 589 977	4 259 194	7 834 341	2	2
		1998	48 245	1 388 770	36 679	74 586	918 794	3 600 134	4 235 444	7 839 216	1	2
		1997	47 750	1 375 317	36 136	72 964	903 722	3 736 501	4 130 901	7 734 912	X	X
322231	Die-cut paper & paperboard office supplies mfg	2001	12 995	376 366	9 982	20 032	237 660	994 703	1 642 271	2 606 690	9	5
		2000	13 467	403 586	10 401	22 431	248 705	974 504	1 576 327	2 543 185	8	6
		1999	13 859	386 228	10 800	22 978	252 714	1 026 566	1 238 922	2 251 833	5	5
		1998	13 194	347 777	10 286	21 677	232 122	1 088 040	1 249 891	2 339 666	2	4
		1997	12 552	337 559	9 813	19 921	223 444	992 306	1 150 628	2 105 012	X	X
322232	Envelope mfg	2001	24 133	834 613	19 056	39 857	584 537	1 623 942	1 999 484	3 636 364	1	2
		2000	25 208	852 700	19 887	41 282	589 054	1 644 352	2 120 191	3 773 613	2	2
		1999	25 428	812 952	19 421	40 863	556 409	1 613 227	1 980 026	3 587 648	1	1
		1998	26 362	807 908	19 918	40 471	544 261	1 573 782	1 970 320	3 539 770	1	3
		1997	25 981	796 765	19 629	40 089	530 309	1 744 897	1 924 526	3 655 270	X	X
322233	Stationery, tablet, & related product mfg	2001	8 009	241 314	5 801	10 709	140 598	865 977	981 167	1 831 639	1	3
		2000	8 156	242 463	5 831	11 485	143 953	871 291	981 696	1 816 352	1	2
		1999	8 594	246 285	6 248	12 319	146 563	950 184	1 040 246	1 994 860	1	1
		1998	8 689	233 085	6 475	12 439	142 411	938 313	1 015 233	1 959 780	2	2
		1997	9 217	240 993	6 694	12 954	149 969	999 298	1 055 747	1 974 630	X	X
32229	Other converted paper product mfg	2001	38 844	1 409 875	30 391	62 055	935 919	6 295 087	5 296 023	11 576 190	4	2
		2000	39 585	1 402 923	31 324	64 665	932 823	6 663 194	5 360 786	12 004 184	3	2
		1999	41 463	1 395 868	32 707	68 737	945 506	7 130 205	5 046 642	12 182 800	3	2
		1998	41 983	1 404 597	33 093	70 228	969 372	7 230 962	5 241 040	12 486 139	3	1
		1997	42 268	1 370 795	33 514	67 805	947 652	6 455 294	5 190 067	11 681 473	X	X
322291	Sanitary paper product mfg	2001	15 489	626 054	11 871	25 514	443 048	4 044 782	2 989 311	7 006 045	5	3
		2000	15 431	609 088	12 061	26 240	436 111	4 292 216	2 933 736	7 238 510	4	2
		1999	16 233	630 570	13 044	29 377	460 069	4 749 552	2 828 744	7 605 301	3	2
		1998	18 864	730 945	15 252	33 039	539 241	5 167 468	3 236 857	8 376 676	1	1
		1997	18 360	680 102	14 980	31 266	514 519	4 463 242	3 345 082	7 833 607	X	X
322299	All other converted paper product mfg	2001	23 356	783 821	18 520	36 541	492 871	2 250 305	2 306 712	4 570 145	5	4
		2000	24 154	793 835	19 263	38 425	496 713	2 370 978	2 427 050	4 765 674	5	4
		1999	25 230	765 299	19 662	39 359	485 437	2 380 653	2 217 898	4 577 499	4	3
		1998	23 119	673 652	17 841	37 189	430 130	2 063 494	2 004 183	4 109 463	5	4
		1997	23 908	690 693	18 534	36 539	433 133	1 992 052	1 844 985	3 847 866	X	X
323	Printing & related support activities	2001	799 240	27 157 972	574 218	1 119 755	16 947 424	60 483 236	40 076 228	100 792 219	1	1
		2000	830 403	28 114 165	597 688	1 153 039	17 517 732	63 173 093	41 298 872	104 395 989	1	1
		1999	835 053	27 329 098	602 991	1 174 065	17 073 050	61 937 068	39 659 491	101 535 694	1	1
		1998	843 254	26 846 805	617 463	1 209 603	16 905 846	60 247 675	40 101 404	100 296 650	1	1
		1997	834 404	26 022 991	607 637	1 164 310	16 336 416	58 392 618	39 219 976	97 485 138	X	X
3231	Printing & related support activities	2001	799 240	27 157 972	574 218	1 119 755	16 947 424	60 483 236	40 076 228	100 792 219	1	1
		2000	830 403	28 114 165	597 688	1 153 039	17 517 732	63 173 093	41 298 872	104 395 989	1	1
		1999	835 053	27 329 098	602 991	1 174 065	17 073 050	61 937 068	39 659 491	101 535 694	1	1
		1998	843 254	26 846 805	617 463	1 209 603	16 905 846	60 247 675	40 101 404	100 296 650	1	1
		1997	834 404	26 022 991	607 637	1 164 310	16 336 416	58 392 618	39 219 976	97 485 138	X	X
32311	Printing	2001	725 947	24 666 853	518 332	1 010 500	15 303 436	55 741 183	38 703 325	94 667 325	1	1
		2000	752 485	25 353 614	538 729	1 037 335	15 747 026	57 973 477	39 721 534	97 627 297	1	1
		1999	756 706	24 593 588	544 107	1 058 579	15 316 735	56 591 620	38 132 668	94 683 419	1	1
		1998	760 983	24 001 590	554 794	1 084 629	15 042 170	54 589 947	38 609 009	93 146 667	1	1
		1997	751 027	23 250 806	544 646	1 041 535	14 532 062	52 916 516	37 779 163	90 564 648	X	X
323110	Commercial lithographic printing	2001	409 239	14 790 748	291 884	575 305	9 227 605	31 667 385	22 179 779	53 991 746	1	2
		2000	417 659	15 047 387	298 563	584 162	9 359 568	32 733 912	22 616 690	55 355 229	1	2
		1999	417 693	14 635 024	301 182	595 244	9 153 183	31 628 954	21 352 605	53 001 061	1	1
		1998	422 579	14 356 414	309 005	611 446	9 086 673	30 766 147	21 351 525	52 078 857	1	1
		1997	413 680	13 708 665	299 255	585 415	8 619 364	29 460 988	20 662 589	50 027 462	X	X
323111	Commercial gravure printing	2001	17 936	676 170	14 935	30 943	503 038	1 905 435	1 538 309	3 453 158	2	2
		2000	21 892	820 793	18 197	37 299	608 724	2 125 751	1 785 391	3 922 805	2	2
		1999	21 879	798 999	18 267	37 067	605 759	2 034 719	1 727 887	3 768 690	2	1
		1998	23 116	827 300	19 551	39 431	641 225	2 136 817	1 912 747	4 015 195	1	1
		1997	23 126	802 731	19 323	38 515	619 074	1 911 486	1 983 432	3 892 449	X	X
323112	Commercial flexographic printing	2001	33 065	1 229 923	22 365	44 541	697 601	2 831 376	2 615 209	5 468 070	3	3
		2000	32 416	1 210 212	21 756	42 607	671 016	2 871 691	2 490 694	5 354 280	2	3
		1999	32 056	1 117 035	21 659	42 964	629 496	2 860 791	2 336 013	5 185 227	2	2
		1998	30 733	1 061 921	20 991	42 098	585 613	2 603 952	2 222 763	4 822 708	1	2
		1997	30 348	1 027 927	20 474	41 999	564 226	2 521 146	2 176 378	4 675 493	X	X
323113	Commercial screen printing	2001	64 891	1 838 171	47 809	87 813	1 082 343	3 757 871	2 566 688	6 307 976	5	4
		2000	69 417	1 891 674	50 965	90 900	1 116 888	3 962 798	2 876 860	6 861 288	5	4
		1999	69 007	1 771 047	50 638	93 330	1 040 093	3 754 243	2 791 107	6 546 631	5	3
		1998	70 835	1 705 381	51 493	96 092	958 155	3 726 182	2 896 358	6 618 302	1	2
		1997	72 479	1 731 971	53 292	95 544	983 156	3 708 959	2 903 873	6 622 326	X	X
323114	Quick printing	2001	49 215	1 321 514	32 089	61 240	777 952	2 883 942	1 308 854	4 201 964	5	5
		2000	53 290	1 419 456	35 527	63 058	855 447	3 086 074	1 363 411	4 446 309	4	4
		1999	56 264	1 429 309	37 840	67 705	875 448	3 213 315	1 466 484	4 675 388	2	3
		1998	52 954	1 299 726	36 454	66 131	790 019	2 700 914	1 496 110	4 200 332	1	3
		1997	52 069	1 248 931	36 484	59 090	765 602	2 674 764	1 474 788	4 147 172	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
323	Printing & related support activities—Con.											
3231	Printing & related support activities—Con.											
32311	Printing—Con.											
323115	Digital printing	2001..	6 627	199 106	4 394	7 542	119 257	417 959	190 871	609 523	8	9
		2000..	6 627	212 640	4 464	7 709	124 865	455 096	212 300	665 307	8	7
		1999..	5 216	158 539	3 603	6 541	92 344	366 474	161 926	527 928	4	5
		1998..	4 582	130 574	3 052	5 838	70 013	320 429	151 616	471 568	1	7
		1997..	4 222	122 560	2 834	5 058	67 259	270 928	134 210	405 679	X	X
323116	Manifold business form printing	2001..	45 416	1 484 015	30 762	60 961	931 232	5 102 917	3 751 982	8 876 680	3	3
		2000..	48 986	1 570 945	33 624	66 423	992 374	5 263 922	3 708 352	8 903 529	2	2
		1999..	52 911	1 592 743	36 343	72 739	1 012 102	5 496 164	3 799 203	9 297 153	2	2
		1998..	54 721	1 640 299	38 859	79 443	1 071 850	5 425 029	3 896 805	9 407 233	2	2
		1997..	55 884	1 678 053	38 992	75 106	1 075 577	5 631 433	3 887 345	9 516 072	X	X
323117	Book printing	2001..	49 823	1 651 785	39 642	75 914	1 158 599	3 590 433	2 213 272	5 847 448	4	4
		2000..	51 765	1 711 184	41 418	81 658	1 219 949	3 841 886	2 325 487	6 162 152	3	2
		1999..	50 518	1 659 177	40 209	79 323	1 150 579	3 636 881	2 231 384	5 853 611	2	2
		1998..	49 453	1 549 499	39 202	75 122	1 059 752	3 425 237	2 182 704	5 599 621	2	3
		1997..	49 047	1 530 539	38 782	75 742	1 057 001	3 300 926	2 216 983	5 517 171	X	X
323118	Blankbook, looseleaf binder, & device mfg	2001..	15 414	464 002	9 866	19 861	211 552	1 442 183	1 000 158	2 434 437	5	3
		2000..	15 693	487 533	10 385	21 324	227 319	1 541 757	1 051 478	2 587 889	4	3
		1999..	16 781	493 852	11 270	23 006	232 141	1 583 578	1 071 262	2 634 515	3	2
		1998..	17 485	522 868	12 367	24 378	263 225	1 414 844	1 133 413	2 509 708	3	10
		1997..	17 565	496 481	12 566	25 249	256 314	1 530 134	1 017 065	2 540 799	X	X
323119	Other commercial printing	2001..	34 322	1 011 418	24 586	46 381	594 258	2 141 682	1 338 202	3 476 325	5	6
		2000..	34 741	981 791	23 829	42 194	570 877	2 090 589	1 290 870	3 368 509	5	6
		1999..	34 381	937 862	23 096	40 660	525 588	2 016 500	1 194 796	3 193 213	4	5
		1998..	34 524	907 607	23 820	44 650	515 645	2 070 397	1 364 970	3 423 144	2	2
		1997..	32 607	902 948	22 644	39 817	524 489	1 905 752	1 322 500	3 220 025	X	X
32312	Support activities for printing	2001..	73 293	2 491 120	55 886	109 255	1 643 988	4 742 053	1 372 903	6 124 893	3	4
		2000..	77 918	2 760 551	58 959	115 704	1 770 706	5 199 616	1 577 338	6 768 692	3	3
		1999..	78 347	2 735 510	58 884	115 486	1 756 315	5 345 448	1 526 823	6 852 275	2	3
		1998..	82 271	2 845 214	62 670	124 973	1 863 676	5 657 728	1 492 395	7 149 984	1	3
		1997..	83 377	2 772 185	62 991	122 775	1 804 354	5 476 102	1 440 813	6 920 490	X	X
323121	Tradebinding & related work	2001..	31 460	815 706	25 887	52 073	569 591	1 515 708	458 733	1 974 915	5	6
		2000..	31 965	862 806	26 665	53 431	602 668	1 586 671	542 447	2 122 445	5	5
		1999..	30 582	813 813	25 264	50 573	566 343	1 520 025	503 923	2 017 829	4	5
		1998..	30 982	797 864	25 636	51 754	569 671	1 538 549	450 949	1 993 684	1	1
		1997..	30 831	755 060	25 510	49 986	534 978	1 487 276	457 629	1 946 867	X	X
323122	Prepress services	2001..	41 833	1 675 414	30 000	57 182	1 074 396	3 226 344	914 170	4 149 979	3	5
		2000..	45 953	1 897 745	32 294	62 273	1 168 038	3 612 945	1 034 892	4 646 247	3	4
		1999..	47 765	1 921 697	33 621	64 914	1 189 972	3 825 423	1 022 900	4 834 446	2	4
		1998..	51 289	2 047 350	37 033	73 220	1 294 005	4 119 179	1 041 446	5 156 299	2	3
		1997..	52 546	2 017 125	37 481	72 789	1 269 376	3 988 826	983 184	4 973 623	X	X
324	Petroleum & coal products mfg	2001..	101 452	5 829 969	67 487	149 071	3 519 479	47 346 489	170 925 808	219 074 798	1	2
		2000..	101 343	5 618 433	67 130	149 859	3 434 058	43 830 239	192 972 538	235 133 762	1	1
		1999..	103 407	5 613 124	68 635	154 798	3 431 714	38 718 873	125 339 044	162 619 996	1	1
		1998..	107 980	5 678 001	71 719	161 759	3 497 183	31 649 246	104 286 946	137 956 938	1	1
		1997..	107 625	5 546 082	71 554	161 036	3 421 272	37 610 773	139 509 979	177 393 098	X	X
3241	Petroleum & coal products mfg	2001..	101 452	5 829 969	67 487	149 071	3 519 479	47 346 489	170 925 808	219 074 798	1	2
		2000..	101 343	5 618 433	67 130	149 859	3 434 058	43 830 239	192 972 538	235 133 762	1	1
		1999..	103 407	5 613 124	68 635	154 798	3 431 714	38 718 873	125 339 044	162 619 996	1	1
		1998..	107 980	5 678 001	71 719	161 759	3 497 183	31 649 246	104 286 946	137 956 938	1	1
		1997..	107 625	5 546 082	71 554	161 036	3 421 272	37 610 773	139 509 979	177 393 098	X	X
32411	Petroleum refineries	2001..	63 258	4 233 075	40 687	93 533	2 561 238	40 335 212	158 733 328	199 909 295	1	2
		2000..	62 118	3 991 697	39 777	92 334	2 461 513	36 634 094	180 567 975	215 564 518	1	1
		1999..	63 619	3 983 102	40 843	94 107	2 440 889	31 516 328	114 130 802	144 291 778	1	2
		1998..	64 920	3 964 664	42 231	97 788	2 461 449	24 023 637	92 211 962	118 155 923	1	1
		1997..	65 448	3 884 869	42 693	99 837	2 412 190	30 878 456	127 555 077	158 667 598	X	X
324110	Petroleum refineries	2001..	63 258	4 233 075	40 687	93 533	2 561 238	40 335 212	158 733 328	199 909 295	1	2
		2000..	62 118	3 991 697	39 777	92 334	2 461 513	36 634 094	180 567 975	215 564 518	1	1
		1999..	63 619	3 983 102	40 843	94 107	2 440 889	31 516 328	114 130 802	144 291 778	1	2
		1998..	64 920	3 964 664	42 231	97 788	2 461 449	24 023 637	92 211 962	118 155 923	1	1
		1997..	65 448	3 884 869	42 693	99 837	2 412 190	30 878 456	127 555 077	158 667 598	X	X
32412	Asphalt paving, roofing, & saturated materials mfg	2001..	25 214	1 022 680	19 231	40 640	697 960	4 641 313	7 091 558	11 724 093	4	2
		2000..	25 632	1 029 184	19 414	41 565	697 676	4 407 500	7 561 405	11 966 875	4	3
		1999..	26 156	1 049 669	19 812	43 904	724 972	4 320 732	6 797 528	11 078 822	3	2
		1998..	27 962	1 095 663	20 509	45 335	731 004	4 420 614	7 204 893	11 673 174	2	5
		1997..	27 301	1 059 768	20 054	43 122	709 048	4 007 042	6 969 639	10 981 761	X	X
324121	Asphalt paving mixture & block mfg	2001..	13 134	534 546	10 181	20 608	382 904	2 368 292	4 090 979	6 486 095	7	4
		2000..	12 983	527 236	10 033	21 126	379 536	2 189 346	4 288 699	6 454 655	7	4
		1999..	13 188	532 740	10 059	21 821	385 767	2 131 633	3 775 453	5 896 836	6	3
		1998..	14 660	572 980	10 647	22 646	387 051	2 312 588	3 989 279	6 323 135	3	10
		1997..	13 946	560 441	10 097	21 183	372 301	1 974 057	3 897 190	5 887 180	X	X
324122	Asphalt shingle & coating materials mfg	2001..	12 080	488 133	9 049	20 032	315 056	2 273 022	3 000 579	5 237 998	3	2
		2000..	12 649	501 948	9 381	20 439	318 140	2 218 153	3 272 707	5 512 220	2	3
		1999..	12 969	516 929	9 754	22 083	339 206	2 189 099	3 022 075	5 181 985	1	1
		1998..	13 302	522 682	9 863	22 689	343 954	2 108 026	3 215 613	5 350 039	1	3
		1997..	13 355	499 327	9 957	21 939	336 747	2 032 985	3 072 449	5 094 581	X	X
32419	Other petroleum & coal products mfg	2001..	12 980	574 214	7 569	14 897	260 281	2 369 964	5 100 922	7 441 410	2	3
		2000..	13 592	597 552	7 939	15 960	274 869	2 788 645	4 843 158	7 602 368	1	3
		1999..	13 632	580 354	7 980	16 787	265 852	2 881 812	4 410 715	7 249 397	1	4
		1998..	15 099	617 675	8 979	18 637	304 731	3 204 996	4 870 092	8 127 840	1	1
		1997..	14 876	601 445	8 807	18 077	300 034	2 725 275	4 985 263	7 743 739	X	X
324191	Petroleum lubricating oil & grease mfg	2001..	9 847	445 028	5 153	10 221	174 687	1 949 831	3 815 709	5 759 631	2	4
		2000..	10 344	468 197	5 432	10 958	187 582	2 174 632	3 856 735	6 024 017	2	4
		1999..	10 850	469 666	5 806	12 145	190 135	2 319 788	3 528 130	5 806 191	1	4
		1998..	11 542	471 421	6 228	12 724	208 437	2 565 652	4 010 313	6 616 098	1	1
		1997..	11 242	448 857	5 966	11 923	192 066	2 068 913	3 973 546	6 070 406	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees		Production workers			Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column—	
			Number[1]	Payroll ($1,000)	Number[1]	Hours (1,000)	Wages ($1,000)					
			A	B	C	D	E	F	G	H	A	F
324	Petroleum & coal products mfg—Con.											
3241	Petroleum & coal products mfg—Con.											
32419	Other petroleum & coal products mfg—Con.											
324199	All other petroleum & coal products mfg	2001..	3 133	129 186	2 417	4 677	85 594	420 134	1 285 212	1 681 779	2	8
		2000..	3 248	129 354	2 507	5 001	87 286	614 013	986 423	1 578 351	1	5
		1999..	2 782	110 688	2 174	4 641	75 717	562 024	882 585	1 443 206	1	8
		1998..	3 557	146 254	2 751	5 913	96 294	639 344	859 779	1 511 742	4	2
		1997..	3 634	152 588	2 841	6 154	107 968	656 362	1 011 717	1 673 333	X	X
325	Chemical mfg	2001..	874 958	43 800 327	499 204	1 030 739	20 465 946	226 614 520	211 145 758	438 410 200	1	2
		2000..	889 830	43 507 590	510 797	1 058 251	20 449 205	232 652 508	219 344 668	449 159 070	1	1
		1999..	885 695	42 643 928	506 407	1 044 446	20 057 753	228 395 794	194 041 295	420 320 376	1	1
		1998..	895 452	41 581 035	516 163	1 069 967	19 878 052	230 218 776	186 808 152	416 742 159	1	1
		1997..	882 645	39 835 717	512 152	1 068 966	19 192 170	224 684 500	192 199 632	415 616 508	X	X
3251	Basic chemical mfg	2001..	183 233	10 582 386	106 047	223 985	5 562 460	37 575 542	66 020 603	104 430 172	2	1
		2000..	190 799	10 530 784	109 825	234 552	5 524 264	46 468 973	69 948 056	115 707 595	2	1
		1999..	196 568	10 504 759	112 022	233 745	5 483 611	48 098 746	58 090 877	106 288 460	1	1
		1998..	202 185	10 498 422	115 451	241 283	5 474 894	53 041 896	53 294 688	106 695 129	1	1
		1997..	200 766	10 290 943	114 874	244 213	5 417 819	53 736 421	59 632 425	113 356 912	X	X
32511	Petrochemical mfg	2001..	8 756	613 067	5 383	11 249	343 634	2 588 422	14 393 585	17 027 220	2	2
		2000..	9 657	600 988	5 332	12 011	363 390	6 355 444	16 661 082	22 907 254	1	1
		1999..	11 762	718 135	6 480	14 895	408 655	7 964 337	11 340 181	19 554 160	1	1
		1998..	10 377	646 692	5 813	13 075	337 122	3 904 694	9 118 828	13 031 931	1	1
		1997..	10 192	620 132	5 741	12 869	326 988	8 359 545	11 192 888	19 468 615	X	X
325110	Petrochemical mfg	2001..	8 756	613 067	5 383	11 249	343 634	2 588 422	14 393 585	17 027 220	2	2
		2000..	9 657	600 988	5 332	12 011	363 390	6 355 444	16 661 082	22 907 254	1	1
		1999..	11 762	718 135	6 480	14 895	408 655	7 964 337	11 340 181	19 554 160	1	1
		1998..	10 377	646 692	5 813	13 075	337 122	3 904 694	9 118 828	13 031 931	1	1
		1997..	10 192	620 132	5 741	12 869	326 988	8 359 545	11 192 888	19 468 615	X	X
32512	Industrial gas mfg	2001..	11 097	564 396	6 121	13 143	313 214	3 097 214	1 953 171	5 073 433	4	3
		2000..	11 266	564 479	6 265	14 237	313 635	2 992 800	1 952 558	4 896 447	5	3
		1999..	11 901	575 695	6 817	14 542	318 225	3 151 534	2 080 495	5 221 389	1	3
		1998..	12 548	581 876	6 979	14 806	308 831	3 730 162	2 070 292	5 761 425	1	1
		1997..	12 636	579 853	6 814	14 518	296 561	3 485 572	1 918 360	5 416 308	X	X
325120	Industrial gas mfg	2001..	11 097	564 396	6 121	13 143	313 214	3 097 214	1 953 171	5 073 433	4	3
		2000..	11 266	564 479	6 265	14 237	313 635	2 992 800	1 952 558	4 896 447	5	3
		1999..	11 901	575 695	6 817	14 542	318 225	3 151 534	2 080 495	5 221 389	1	3
		1998..	12 548	581 876	6 979	14 806	308 831	3 730 162	2 070 292	5 761 425	1	1
		1997..	12 636	579 853	6 814	14 518	296 561	3 485 572	1 918 360	5 416 308	X	X
32513	Dye & pigment mfg	2001..	16 619	827 196	10 817	23 185	459 122	2 691 014	3 288 165	5 988 954	9	5
		2000..	17 626	862 757	10 921	23 547	474 657	2 926 173	3 482 146	6 370 344	7	7
		1999..	17 078	801 761	10 788	23 560	449 288	3 038 524	3 162 208	6 146 135	6	7
		1998..	16 964	780 322	10 240	21 745	442 651	3 380 506	3 027 209	6 392 739	1	1
		1997..	17 318	782 624	10 558	22 427	452 367	3 361 633	3 038 484	6 438 366	X	X
325131	Inorganic dye & pigment mfg	2001..	7 481	413 736	5 108	9 843	249 803	1 545 326	1 720 225	3 226 520	6	5
		2000..	8 289	440 521	5 590	12 130	258 256	1 439 028	1 974 771	3 413 746	6	7
		1999..	8 205	411 860	5 552	12 278	250 301	1 667 825	1 794 650	3 428 390	5	6
		1998..	8 524	401 354	5 579	11 964	249 084	1 977 170	1 753 475	3 742 509	1	1
		1997..	8 629	394 603	5 675	11 827	251 387	2 030 987	1 709 715	3 745 010	X	X
325132	Synthetic organic dye & pigment mfg	2001..	9 138	413 460	5 710	13 342	209 319	1 145 688	1 567 940	2 762 434	16	10
		2000..	9 337	422 236	5 331	11 417	216 402	1 487 146	1 507 376	2 956 598	12	13
		1999..	8 872	389 901	5 236	11 282	198 987	1 370 699	1 367 558	2 717 745	10	13
		1998..	8 440	378 968	4 662	9 781	193 566	1 403 335	1 273 733	2 650 229	1	2
		1997..	8 689	388 021	4 883	10 600	200 980	1 330 646	1 328 769	2 693 356	X	X
32518	Other basic inorganic chemical mfg	2001..	54 038	3 148 229	30 890	63 855	1 602 707	10 833 379	8 423 777	19 293 753	1	1
		2000..	56 944	3 076 985	32 293	67 448	1 547 480	10 656 964	8 384 695	19 251 419	1	1
		1999..	59 978	3 123 242	32 426	61 482	1 491 870	12 821 698	7 754 236	20 553 223	1	1
		1998..	62 784	3 186 819	33 527	64 988	1 542 274	18 387 146	7 948 772	26 287 494	1	2
		1997..	60 055	2 971 865	31 710	64 838	1 470 779	12 729 040	7 969 310	20 731 059	X	X
325181	Alkalies & chlorine mfg	2001..	4 693	285 999	3 256	6 620	186 334	1 063 736	1 191 746	2 310 820	1	2
		2000..	4 891	300 311	3 436	7 160	198 723	1 272 431	1 290 880	2 547 560	1	1
		1999..	4 878	277 595	3 447	7 257	187 784	1 227 178	1 103 843	2 369 204	1	1
		1998..	4 899	279 018	3 377	6 915	179 906	1 443 181	991 396	2 449 207	1	3
		1997..	4 859	272 779	3 348	7 085	175 560	1 421 798	1 064 748	2 465 183	X	X
325182	Carbon black mfg	2001..	1 761	98 190	1 216	2 158	60 613	545 422	487 079	1 024 182	1	1
		2000..	1 860	100 788	1 343	2 531	65 522	546 999	533 804	1 073 585	1	1
		1999..	1 875	97 813	1 303	2 647	62 409	546 069	402 457	949 737	1	2
		1998..	1 732	93 012	1 140	2 764	55 156	644 003	425 439	1 078 118	4	13
		1997..	1 769	90 694	1 123	2 733	53 892	547 537	445 282	990 391	X	X
325188	All other basic inorganic chemical mfg	2001..	47 584	2 764 041	26 418	55 078	1 355 760	9 224 221	6 744 952	15 958 750	1	2
		2000..	50 193	2 675 886	27 514	57 757	1 283 235	8 837 535	6 560 012	15 630 274	1	2
		1999..	53 225	2 747 833	27 677	51 578	1 241 678	11 048 450	6 247 935	17 234 282	1	1
		1998..	56 153	2 814 789	29 009	55 308	1 307 212	16 299 962	6 531 937	22 760 168	1	2
		1997..	53 427	2 608 392	27 239	55 020	1 241 327	10 759 705	6 459 280	17 275 485	X	X
32519	Other basic organic chemical mfg	2001..	92 724	5 429 498	52 836	112 554	2 843 783	18 365 513	37 961 905	57 046 813	3	2
		2000..	95 307	5 425 575	55 014	117 310	2 825 102	23 537 590	39 467 575	62 282 131	3	1
		1999..	95 850	5 285 926	55 510	119 265	2 815 572	21 122 653	33 753 757	54 813 553	3	1
		1998..	99 512	5 302 713	58 892	126 670	2 844 016	23 639 388	31 129 588	55 221 540	1	1
		1997..	100 565	5 336 469	60 051	129 561	2 871 124	25 800 631	35 513 383	61 302 564	X	X
325191	Gum & wood chemical mfg	2001..	2 364	91 468	1 804	3 774	60 709	446 895	463 248	935 468	1	2
		2000..	2 171	88 463	1 611	3 677	58 439	477 266	430 212	890 563	1	1
		1999..	2 494	96 807	1 756	4 106	57 440	484 052	351 587	860 037	1	2
		1998..	2 486	93 987	1 835	4 097	62 381	463 454	384 371	846 014	1	1
		1997..	2 261	84 253	1 703	3 775	56 457	469 629	348 290	814 676	X	X
325192	Cyclic crude & intermediate mfg	2001..	6 771	443 390	3 997	8 865	247 874	1 349 637	4 275 298	5 805 558	4	7
		2000..	7 477	486 663	4 480	10 198	264 105	3 268 121	4 948 840	8 062 649	4	7
		1999..	8 280	504 356	5 056	11 625	293 089	2 600 471	3 791 915	6 364 287	1	4
		1998..	8 557	463 580	5 024	11 408	264 080	2 513 536	3 457 395	6 051 134	1	1
		1997..	8 641	467 132	5 153	11 442	257 924	2 807 384	4 053 054	6 861 138	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
325	Chemical mfg—Con.											
3251	Basic chemical mfg—Con.											
32519	Other basic organic chemical mfg—Con.											
325193	Ethyl alcohol mfg	2001..	1 679	69 525	1 198	2 765	44 423	470 673	1 342 287	1 802 381	5	9
		2000..	1 649	67 082	1 178	2 588	41 321	463 677	1 201 935	1 665 503	5	13
		1999..	1 720	64 950	1 263	2 799	41 009	264 434	1 073 596	1 338 127	5	10
		1998..	1 542	60 133	1 093	2 235	34 648	336 198	860 304	1 218 484	2	3
		1997..	1 503	58 421	1 037	2 288	38 109	226 520	994 308	1 222 166	X	X
325199	All other basic organic chemical mfg	2001..	81 910	4 825 116	45 837	97 149	2 490 777	16 098 307	31 881 072	48 503 406	4	2
		2000..	84 010	4 783 367	47 746	100 846	2 461 238	19 328 527	32 886 588	51 663 416	3	1
		1999..	83 356	4 619 814	47 436	100 735	2 424 033	17 773 696	28 536 659	46 251 101	3	2
		1998..	86 927	4 685 013	50 941	108 931	2 482 907	20 326 199	26 427 518	47 105 909	1	1
		1997..	88 160	4 726 663	52 158	112 056	2 518 634	22 297 098	30 117 731	52 404 584	X	X
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	2001..	97 589	5 179 866	67 323	144 129	3 171 019	22 070 135	37 742 948	60 638 304	2	2
		2000..	106 753	5 523 369	73 715	161 227	3 435 320	25 891 197	43 300 698	68 437 616	1	1
		1999..	109 409	5 618 019	73 961	162 236	3 380 959	27 345 090	36 479 255	63 486 681	1	1
		1998..	114 427	5 509 683	76 685	168 770	3 329 087	28 315 080	34 769 363	63 185 560	1	1
		1997..	115 691	5 397 924	78 859	172 461	3 286 931	27 307 501	37 346 437	64 417 772	X	X
32521	Resin & synthetic rubber mfg	2001..	68 953	3 975 917	43 892	94 679	2 341 239	17 590 868	32 908 783	51 191 864	3	3
		2000..	74 036	4 177 055	47 044	102 483	2 482 690	20 804 305	37 883 493	58 051 273	1	2
		1999..	73 499	4 112 604	45 850	100 564	2 357 673	21 458 934	31 130 651	52 099 924	2	2
		1998..	73 701	3 893 560	44 513	98 868	2 184 724	21 600 076	28 607 317	50 371 571	1	1
		1997..	73 804	3 788 883	45 897	100 261	2 164 062	20 399 243	31 145 699	51 379 595	X	X
325211	Plastics material & resin mfg	2001..	58 613	3 388 835	36 993	79 668	1 991 207	15 153 244	29 734 204	45 467 414	3	3
		2000..	63 250	3 578 852	39 806	87 138	2 126 391	18 359 353	34 405 943	52 215 459	2	2
		1999..	62 287	3 499 089	38 504	84 477	2 001 607	18 596 239	28 391 871	46 528 851	2	2
		1998..	62 789	3 297 106	37 412	83 176	1 834 182	19 071 252	25 832 676	45 028 829	1	1
		1997..	61 632	3 160 542	38 078	83 556	1 798 060	17 625 910	27 750 752	45 225 887	X	X
325212	Synthetic rubber mfg	2001..	10 340	587 082	6 899	15 011	350 032	2 437 624	3 174 578	5 724 449	3	8
		2000..	10 786	598 203	7 238	15 345	356 299	2 444 952	3 477 550	5 835 814	2	7
		1999..	11 212	613 516	7 346	16 087	356 065	2 862 695	2 738 780	5 571 073	2	5
		1998..	10 912	596 454	7 101	15 692	350 542	2 528 824	2 774 641	5 342 742	1	1
		1997..	12 172	628 341	7 819	16 705	366 002	2 773 333	3 394 947	6 153 708	X	X
32522	Artificial & synthetic fibers & filaments mfg	2001..	28 636	1 203 949	23 432	49 450	829 780	4 479 266	4 834 165	9 446 440	1	1
		2000..	32 717	1 346 314	26 671	58 743	952 630	5 086 892	5 417 205	10 386 343	1	1
		1999..	35 910	1 505 414	28 111	61 671	1 023 286	5 886 156	5 348 604	11 386 757	1	1
		1998..	40 726	1 616 123	32 171	69 902	1 144 362	6 715 004	6 162 046	12 813 989	1	1
		1997..	41 887	1 609 041	32 962	72 200	1 122 869	6 908 258	6 200 738	13 038 177	X	X
325221	Cellulosic organic fiber mfg	2001..	1 863	75 742	1 488	3 194	51 456	232 392	243 958	476 472	1	1
		2000..	2 098	81 076	1 696	3 672	57 589	292 589	262 391	553 247	1	1
		1999..	3 187	122 877	2 465	5 038	78 913	340 637	334 839	713 659	1	1
		1998..	4 055	147 082	3 174	6 187	98 602	450 085	450 857	901 999	1	1
		1997..	4 802	174 879	3 750	7 875	120 838	603 753	500 989	1 096 983	X	X
325222	Noncellulosic organic fiber mfg	2001..	26 773	1 128 207	21 944	46 256	778 324	4 246 874	4 590 207	8 969 968	2	1
		2000..	30 619	1 265 238	24 975	55 071	895 041	4 794 303	5 154 814	9 833 096	1	1
		1999..	32 724	1 382 537	25 646	56 633	944 373	5 545 519	5 013 765	10 673 098	1	1
		1998..	36 671	1 469 041	28 997	63 715	1 045 760	6 264 919	5 711 189	11 911 990	1	1
		1997..	37 085	1 434 162	29 212	64 325	1 002 031	6 304 505	5 699 749	11 941 194	X	X
3253	Pesticide, fertilizer, & other agricultural chemical mfg	2001..	33 898	1 601 144	20 313	45 061	865 463	8 496 832	10 859 564	19 288 590	2	3
		2000..	35 071	1 639 267	21 242	45 678	870 534	9 207 258	10 655 784	19 632 963	4	3
		1999..	36 673	1 629 486	22 880	49 152	907 203	10 064 464	10 867 267	20 769 661	2	2
		1998..	37 437	1 557 357	24 481	53 326	914 075	12 550 061	11 869 973	24 420 417	2	1
		1997..	37 123	1 515 969	23 746	51 894	870 343	12 576 259	11 802 223	24 176 999	X	X
32531	Fertilizer mfg	2001..	21 498	986 272	13 478	30 238	571 907	3 128 226	6 947 498	10 088 425	3	5
		2000..	21 945	989 490	14 007	30 436	579 393	3 272 411	7 030 924	10 249 885	3	4
		1999..	22 971	963 321	15 164	32 497	601 194	3 501 023	7 023 071	10 515 149	2	4
		1998..	23 140	911 851	15 985	34 247	582 491	5 180 277	7 784 053	12 996 611	2	2
		1997..	23 150	880 977	15 646	34 726	546 199	4 900 041	7 943 425	12 759 745	X	X
325311	Nitrogenous fertilizer mfg	2001..	5 016	277 648	3 099	6 941	158 144	1 034 892	2 326 770	3 268 401	3	14
		2000..	5 179	270 937	3 227	6 996	159 801	877 088	2 183 140	3 055 622	3	12
		1999..	5 292	262 548	3 321	7 373	166 096	805 531	1 862 226	2 656 387	1	16
		1998..	5 204	295 207	3 520	7 937	184 636	1 658 572	2 118 456	3 759 976	10	2
		1997..	5 811	286 132	3 701	8 133	170 626	1 814 299	2 172 209	3 961 254	X	X
325312	Phosphatic fertilizer mfg	2001..	7 195	358 614	5 055	11 567	238 246	1 105 022	2 477 996	3 588 868	2	4
		2000..	7 491	373 675	5 339	12 265	247 669	1 322 083	2 778 465	4 087 328	2	3
		1999..	8 682	411 189	6 219	13 688	283 686	1 727 971	3 237 672	4 961 761	1	2
		1998..	8 565	364 007	6 004	13 698	252 146	2 332 825	3 180 226	5 585 620	1	2
		1997..	8 482	357 905	5 907	14 039	240 391	2 062 571	3 451 125	5 474 672	X	X
325314	Fertilizer (mixing only) mfg	2001..	9 286	350 011	5 325	11 730	175 517	988 312	2 142 731	3 231 156	6	9
		2000..	9 275	344 877	5 441	11 176	171 923	1 073 239	2 069 319	3 106 936	6	8
		1999..	8 996	289 584	5 624	11 437	151 411	967 520	1 923 173	2 897 001	4	7
		1998..	9 371	252 637	6 461	12 612	145 710	1 188 881	2 485 371	3 651 016	1	8
		1997..	8 857	236 940	6 038	12 554	135 182	1 023 171	2 320 091	3 323 819	X	X
32532	Pesticide & other agricultural chemical mfg	2001..	12 401	614 872	6 835	14 823	293 555	5 368 606	3 912 066	9 200 165	5	4
		2000..	13 126	649 777	7 235	15 242	291 141	5 934 847	3 624 860	9 383 078	8	3
		1999..	13 702	666 165	7 716	16 655	306 009	6 563 441	3 844 195	10 254 512	5	3
		1998..	14 297	645 506	8 495	19 078	331 583	7 369 784	4 085 920	11 423 806	1	1
		1997..	13 973	634 992	8 100	17 168	324 144	7 676 218	3 858 798	11 417 254	X	X
325320	Pesticide & other agricultural chemical mfg	2001..	12 401	614 872	6 835	14 823	293 555	5 368 606	3 912 066	9 200 165	5	4
		2000..	13 126	649 777	7 235	15 242	291 141	5 934 847	3 624 860	9 383 078	8	3
		1999..	13 702	666 165	7 716	16 655	306 009	6 563 441	3 844 195	10 254 512	5	3
		1998..	14 297	645 506	8 495	19 078	331 583	7 369 784	4 085 920	11 423 806	1	1
		1997..	13 973	634 992	8 100	17 168	324 144	7 676 218	3 858 798	11 417 254	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
325	Chemical mfg—Con.											
3254	Pharmaceutical & medicine mfg	2001..	251 289	13 395 639	120 350	244 922	4 763 747	91 696 878	39 338 685	130 021 412	3	5
		2000..	241 173	12 779 339	116 816	234 997	4 467 295	81 511 838	37 312 886	118 027 752	3	4
		1999..	228 866	12 334 924	110 080	217 545	4 336 033	76 274 239	35 523 408	110 351 139	2	1
		1998..	212 655	11 203 070	102 548	206 911	4 025 068	70 763 080	33 073 091	103 461 361	1	1
		1997..	203 337	10 111 751	100 900	205 009	3 690 325	64 108 002	29 616 274	92 932 786	X	X
32541	Pharmaceutical & medicine mfg	2001..	251 289	13 395 639	120 350	244 922	4 763 747	91 696 878	39 338 685	130 021 412	3	5
		2000..	241 173	12 779 339	116 816	234 997	4 467 295	81 511 838	37 312 886	118 027 752	3	4
		1999..	228 866	12 334 924	110 080	217 545	4 336 033	76 274 239	35 523 408	110 351 139	2	1
		1998..	212 655	11 203 070	102 548	206 911	4 025 068	70 763 080	33 073 091	103 461 361	1	1
		1997..	203 337	10 111 751	100 900	205 009	3 690 325	64 108 002	29 616 274	92 932 786	X	X
325411	Medicinal & botanical mfg	2001..	19 104	994 002	9 982	21 586	450 327	7 331 573	4 174 167	11 405 452	10	3
		2000..	18 916	977 636	9 951	20 652	445 956	7 470 531	4 666 561	12 152 574	10	3
		1999..	21 351	1 146 762	11 009	23 122	501 890	5 838 645	6 342 072	11 762 349	8	3
		1998..	30 023	1 728 518	14 549	32 856	679 524	7 208 430	5 936 351	13 169 467	1	1
		1997..	27 764	1 530 029	13 505	29 216	596 030	6 297 660	5 588 337	11 888 455	X	X
325412	Pharmaceutical preparation mfg	2001..	167 245	8 699 583	82 766	165 818	3 117 106	71 659 312	29 081 408	100 067 987	4	6
		2000..	159 304	8 322 889	79 664	157 112	2 899 792	62 417 190	26 900 580	88 696 288	4	5
		1999..	145 697	7 878 039	72 773	142 409	2 778 917	59 679 568	24 252 639	83 222 747	3	2
		1998..	117 707	6 085 472	61 622	121 552	2 328 942	53 368 779	22 419 083	75 322 200	1	1
		1997..	114 119	5 522 283	61 848	124 912	2 131 449	47 864 824	19 480 126	66 734 737	X	X
325413	In-vitro diagnostic substance mfg	2001..	40 960	2 494 923	15 695	30 445	753 581	7 895 579	3 216 852	11 026 490	2	1
		2000..	40 162	2 364 696	15 441	30 772	705 172	7 366 848	3 019 205	10 351 341	2	1
		1999..	40 633	2 352 133	14 870	29 170	640 520	7 044 288	2 656 134	9 567 491	1	1
		1998..	40 790	2 292 512	14 194	27 889	600 697	6 287 535	2 460 086	8 912 869	2	2
		1997..	38 485	2 051 030	13 626	26 352	579 439	6 253 818	2 435 838	8 682 377	X	X
325414	Biological product (except diagnostic) mfg	2001..	23 981	1 207 132	11 907	27 073	442 732	4 810 415	2 866 258	7 521 482	5	4
		2000..	22 790	1 114 119	11 761	26 460	416 375	4 257 269	2 726 540	6 827 550	5	3
		1999..	21 185	957 990	11 428	22 843	414 707	3 711 738	2 272 562	5 798 552	3	3
		1998..	24 134	1 096 569	12 182	24 613	415 905	3 898 335	2 257 571	6 056 824	1	1
		1997..	22 969	1 008 409	11 921	24 529	383 407	3 691 700	2 111 973	5 627 217	X	X
3255	Paint, coating, & adhesive mfg	2001..	73 225	3 159 993	40 325	81 656	1 337 654	13 605 724	13 986 634	27 720 013	2	2
		2000..	75 767	3 199 852	41 810	85 833	1 385 018	12 929 650	14 799 456	27 702 274	2	2
		1999..	73 671	3 071 460	41 063	86 003	1 324 210	12 849 227	14 319 021	27 178 768	2	2
		1998..	75 911	2 954 535	41 414	82 790	1 278 431	12 525 197	14 209 900	26 804 545	1	4
		1997..	74 464	2 903 042	40 854	81 651	1 259 535	12 618 013	13 799 470	26 369 629	X	X
32551	Paint & coating mfg	2001..	51 084	2 166 657	26 724	52 941	881 198	9 747 028	9 912 493	19 785 601	3	1
		2000..	52 981	2 219 816	28 241	57 474	941 229	9 151 684	10 633 836	19 766 579	3	1
		1999..	51 114	2 139 169	27 842	58 040	908 037	9 016 974	10 431 594	19 480 730	2	1
		1998..	53 876	2 099 770	28 458	55 765	883 152	9 194 966	10 287 637	19 572 495	2	5
		1997..	52 772	2 071 651	28 231	55 378	876 073	9 234 712	9 860 724	19 057 194	X	X
325510	Paint & coating mfg	2001..	51 084	2 166 657	26 724	52 941	881 198	9 747 028	9 912 493	19 785 601	3	1
		2000..	52 981	2 219 816	28 241	57 474	941 229	9 151 684	10 633 836	19 766 579	3	1
		1999..	51 114	2 139 169	27 842	58 040	908 037	9 016 974	10 431 594	19 480 730	2	1
		1998..	53 876	2 099 770	28 458	55 765	883 152	9 194 966	10 287 637	19 572 495	2	5
		1997..	52 772	2 071 651	28 231	55 378	876 073	9 234 712	9 860 724	19 057 194	X	X
32552	Adhesive mfg	2001..	22 141	993 336	13 601	28 715	456 456	3 858 696	4 074 141	7 934 413	4	7
		2000..	22 786	980 036	13 569	28 359	443 789	3 777 967	4 165 621	7 935 695	4	5
		1999..	22 556	932 291	13 221	27 963	416 173	3 832 253	3 887 427	7 698 037	3	5
		1998..	22 035	854 765	12 956	27 025	395 280	3 330 230	3 922 263	7 232 049	1	2
		1997..	21 692	831 391	12 623	26 273	383 462	3 383 301	3 938 746	7 312 435	X	X
325520	Adhesive mfg	2001..	22 141	993 336	13 601	28 715	456 456	3 858 696	4 074 141	7 934 413	4	7
		2000..	22 786	980 036	13 569	28 359	443 789	3 777 967	4 165 621	7 935 695	4	5
		1999..	22 556	932 291	13 221	27 963	416 173	3 832 253	3 887 427	7 698 037	3	5
		1998..	22 035	854 765	12 956	27 025	395 280	3 330 230	3 922 263	7 232 049	1	2
		1997..	21 692	831 391	12 623	26 273	383 462	3 383 301	3 938 746	7 312 435	X	X
3256	Soap, cleaning compound, & toilet preparation mfg	2001..	120 246	4 708 204	74 680	146 052	2 305 967	34 813 969	23 230 996	57 994 727	3	2
		2000..	119 425	4 536 544	74 471	143 481	2 215 839	33 732 146	22 775 882	56 291 277	2	2
		1999..	118 677	4 405 558	73 337	143 231	2 103 108	32 567 728	20 350 795	52 644 742	2	2
		1998..	130 672	4 742 716	80 499	159 139	2 312 842	34 082 231	20 703 282	54 492 176	1	1
		1997..	126 446	4 567 517	77 754	154 558	2 179 672	34 359 408	20 876 590	55 141 340	X	X
32561	Soap & cleaning compound mfg	2001..	52 646	2 151 690	30 574	61 255	1 084 998	15 766 771	13 407 794	29 225 020	2	2
		2000..	53 519	2 179 450	31 311	61 316	1 082 484	16 030 918	13 228 850	29 049 994	2	2
		1999..	54 784	2 186 716	32 503	64 819	1 064 269	15 354 653	12 356 597	27 547 554	2	1
		1998..	63 852	2 495 332	38 054	77 704	1 231 805	17 333 468	12 532 890	29 882 417	2	1
		1997..	62 479	2 454 050	37 266	76 994	1 197 672	17 755 669	13 183 941	30 928 488	X	X
325611	Soap & other detergent mfg	2001..	23 050	936 311	14 744	30 789	538 205	8 390 001	7 066 945	15 557 249	3	1
		2000..	24 084	983 185	15 498	31 419	556 903	8 030 834	7 172 488	15 115 422	2	1
		1999..	24 069	989 838	15 474	31 771	546 532	8 040 507	6 836 623	14 801 211	3	1
		1998..	30 771	1 265 897	18 813	37 845	626 788	10 046 061	6 895 992	17 012 386	2	1
		1997..	31 052	1 268 061	18 152	36 800	626 457	10 478 562	7 337 083	17 772 851	X	X
325612	Polish & other sanitation good mfg	2001..	20 838	780 721	11 671	23 082	343 088	5 597 864	3 254 131	8 756 886	4	5
		2000..	20 757	753 289	11 867	22 284	332 463	5 587 653	3 209 443	8 720 608	3	4
		1999..	21 093	732 577	12 092	23 732	322 620	4 909 876	2 991 092	7 890 789	3	3
		1998..	23 633	750 814	14 248	28 915	390 230	5 442 182	3 242 866	8 609 911	5	2
		1997..	21 985	724 411	14 133	28 728	360 261	5 149 717	3 190 254	8 369 554	X	X
325613	Surface active agent mfg	2001..	8 758	434 658	4 159	7 384	203 705	1 778 906	3 086 718	4 910 886	7	3
		2000..	8 679	442 975	3 946	7 612	193 118	2 412 432	2 846 919	5 213 964	3	3
		1999..	9 622	464 301	4 937	9 316	195 116	2 404 270	2 528 882	4 855 553	2	4
		1998..	9 448	478 621	4 993	10 945	214 787	1 845 225	2 394 033	4 260 120	2	2
		1997..	9 442	461 578	4 981	11 466	210 954	2 127 390	2 656 604	4 786 083	X	X
32562	Toilet preparation mfg	2001..	67 600	2 556 514	44 106	84 797	1 220 969	19 047 198	9 823 201	28 769 707	4	3
		2000..	65 906	2 357 095	43 161	82 166	1 133 355	17 701 228	9 547 032	27 241 283	4	4
		1999..	63 893	2 218 842	40 834	78 413	1 038 839	17 213 075	7 994 199	25 097 188	4	4
		1998..	66 820	2 247 384	42 445	81 435	1 081 037	16 748 763	8 170 392	24 609 759	2	1
		1997..	63 967	2 113 467	40 488	77 564	982 000	16 603 739	7 692 649	24 212 852	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
325	Chemical mfg—Con.											
3256	Soap, cleaning compound, & toilet preparation mfg—Con.											
32562	Toilet preparation mfg—Con.											
325620	Toilet preparation mfg	2001..	67 600	2 556 514	44 106	84 797	1 220 969	19 047 198	9 823 201	28 769 707	4	3
		2000..	65 906	2 357 095	43 161	82 166	1 133 355	17 701 228	9 547 032	27 241 283	4	4
		1999..	63 893	2 218 842	40 834	78 413	1 038 839	17 213 075	7 994 199	25 097 188	4	4
		1998..	66 820	2 247 384	42 445	81 435	1 081 037	16 748 763	8 170 392	24 609 759	2	1
		1997..	63 967	2 113 467	40 488	77 564	982 000	16 603 739	7 692 649	24 212 852	X	X
3259	Other chemical product mfg	2001..	115 479	5 173 095	70 166	144 934	2 459 637	18 355 441	19 966 329	38 316 982	1	2
		2000..	120 843	5 298 433	72 918	152 483	2 550 935	22 911 444	20 551 905	43 359 593	1	2
		1999..	121 832	5 079 722	73 064	152 534	2 522 628	21 196 299	18 410 672	39 600 925	1	2
		1998..	122 165	5 115 253	75 086	157 748	2 543 656	18 941 232	18 887 854	37 682 971	1	1
		1997..	124 818	5 048 571	75 165	159 180	2 487 545	19 978 896	19 126 213	39 221 070	X	X
32591	Printing ink mfg	2001..	13 377	588 504	7 111	14 506	266 533	2 184 422	2 412 038	4 596 097	3	7
		2000..	13 088	566 511	6 723	13 861	250 219	2 088 006	2 583 356	4 669 951	3	7
		1999..	13 904	590 734	7 146	14 512	262 471	2 199 428	2 487 996	4 668 527	2	5
		1998..	13 429	542 350	7 831	16 169	261 175	1 810 893	2 604 110	4 332 163	1	9
		1997..	13 196	509 564	7 001	14 674	243 525	1 627 402	2 480 229	4 076 500	X	X
325910	Printing ink mfg	2001..	13 377	588 504	7 111	14 506	266 533	2 184 422	2 412 038	4 596 097	3	7
		2000..	13 088	566 511	6 723	13 861	250 219	2 088 006	2 583 356	4 669 951	3	7
		1999..	13 904	590 734	7 146	14 512	262 471	2 199 428	2 487 996	4 668 527	2	5
		1998..	13 429	542 350	7 831	16 169	261 175	1 810 893	2 604 110	4 332 163	1	9
		1997..	13 196	509 564	7 001	14 674	243 525	1 627 402	2 480 229	4 076 500	X	X
32592	Explosives mfg	2001..	6 473	252 708	4 612	8 830	143 304	605 487	492 527	1 085 924	5	6
		2000..	7 957	301 832	5 398	10 491	167 554	642 628	500 417	1 134 959	6	5
		1999..	8 680	301 334	5 928	11 069	175 210	504 696	507 741	1 011 811	8	8
		1998..	8 410	296 903	6 039	11 712	179 198	612 345	623 284	1 247 881	1	6
		1997..	8 972	312 301	6 648	13 516	190 534	789 782	649 413	1 447 274	X	X
325920	Explosives mfg	2001..	6 473	252 708	4 612	8 830	143 304	605 487	492 527	1 085 924	5	6
		2000..	7 957	301 832	5 398	10 491	167 554	642 628	500 417	1 134 959	6	5
		1999..	8 680	301 334	5 928	11 069	175 210	504 696	507 741	1 011 811	8	8
		1998..	8 410	296 903	6 039	11 712	179 198	612 345	623 284	1 247 881	1	6
		1997..	8 972	312 301	6 648	13 516	190 534	789 782	649 413	1 447 274	X	X
32599	All other chemical product & preparation mfg	2001..	95 628	4 331 883	58 443	121 597	2 049 799	15 565 532	17 061 764	32 634 961	1	2
		2000..	99 797	4 430 089	60 797	128 131	2 133 163	20 180 811	17 468 132	37 554 684	1	2
		1999..	99 248	4 187 655	59 990	126 953	2 084 948	18 492 175	15 414 934	33 920 587	1	2
		1998..	100 326	4 275 999	61 215	129 866	2 103 283	16 517 994	15 660 460	32 102 926	1	1
		1997..	102 650	4 226 706	61 516	130 990	2 053 486	17 561 712	15 996 571	33 697 296	X	X
325991	Custom compounding of purchased resin	2001..	25 844	1 017 963	17 964	36 734	552 167	2 783 842	4 528 988	7 328 249	3	2
		2000..	27 976	1 053 201	19 466	39 288	582 726	3 161 229	4 972 034	8 114 916	3	2
		1999..	26 960	990 222	18 658	37 436	532 585	3 384 653	4 483 666	7 850 884	2	2
		1998..	27 415	986 948	17 989	37 343	530 746	3 332 625	4 791 555	8 096 686	3	1
		1997..	27 664	969 961	18 130	36 014	508 084	3 092 396	4 871 853	7 960 246	X	X
325992	Photographic film, paper, plate, & chemical mfg	2001..	33 318	1 777 544	18 557	39 656	755 596	6 251 716	6 154 880	12 343 042	1	1
		2000..	34 381	1 783 615	18 827	41 996	782 262	10 124 143	5 699 481	15 749 965	1	1
		1999..	34 466	1 696 597	18 270	42 542	778 716	8 076 865	4 901 357	13 079 911	1	1
		1998..	35 751	1 788 536	20 058	46 196	824 250	6 118 994	4 695 428	10 838 783	1	1
		1997..	39 090	1 836 912	21 863	51 584	856 684	7 673 452	5 072 320	12 918 747	X	X
325998	All other miscellaneous chemical product & preparation mfg	2001..	36 466	1 536 376	21 921	45 208	742 035	6 529 974	6 377 896	12 963 669	3	4
		2000..	37 441	1 593 274	22 504	46 846	768 175	6 895 439	6 796 617	13 689 803	2	5
		1999..	37 822	1 500 835	23 063	46 975	773 646	7 030 657	6 029 911	12 989 792	2	4
		1998..	37 160	1 500 515	23 169	46 328	748 287	7 066 375	6 173 477	13 167 457	2	1
		1997..	35 896	1 419 833	21 523	43 392	688 718	6 795 864	6 052 398	12 818 303	X	X
326	Plastics & rubber products mfg	2001..	1 028 055	32 538 767	810 878	1 611 644	21 683 010	86 557 953	83 616 924	170 716 833	1	1
		2000..	1 080 295	33 872 084	857 415	1 721 029	22 702 808	91 221 861	87 673 011	178 235 815	1	1
		1999..	1 070 078	32 733 060	848 490	1 705 178	21 809 564	91 276 442	81 111 353	171 884 786	1	1
		1998..	1 040 446	31 027 376	825 374	1 656 638	20 789 526	85 541 920	78 290 917	163 736 381	1	1
		1997..	1 023 060	29 804 904	805 689	1 607 820	19 828 676	81 349 082	77 994 466	159 161 346	X	X
3261	Plastics product mfg	2001..	834 452	25 587 593	657 806	1 304 675	16 742 124	69 475 413	67 403 880	137 275 533	1	1
		2000..	871 755	26 401 341	690 557	1 380 157	17 355 264	72 402 680	70 334 157	142 163 925	1	1
		1999..	860 536	25 505 540	681 760	1 362 272	16 662 147	72 203 219	64 793 514	136 568 468	1	1
		1998..	835 558	24 096 922	661 224	1 320 897	15 811 859	66 963 842	61 804 296	128 660 662	1	1
		1997..	820 707	23 029 570	644 417	1 277 327	14 957 832	63 280 786	61 404 727	124 445 374	X	X
32611	Unsupported plastics film, sheet, & bag mfg	2001..	109 201	3 968 659	85 954	182 087	2 657 135	12 524 997	13 722 082	26 304 351	2	1
		2000..	112 674	3 993 829	88 605	185 945	2 676 603	12 715 851	14 281 749	27 020 403	2	1
		1999..	111 130	3 869 000	87 076	182 338	2 564 574	12 878 678	13 524 530	26 319 292	2	2
		1998..	109 821	3 698 205	85 264	178 384	2 461 811	12 258 729	12 832 727	25 058 630	1	1
		1997..	110 292	3 646 537	84 706	178 589	2 389 616	11 591 673	13 069 256	24 624 844	X	X
326111	Unsupported plastics bag mfg	2001..	39 772	1 287 000	32 926	70 731	897 563	3 886 537	4 041 962	7 938 441	2	2
		2000..	40 043	1 261 739	33 139	67 873	885 271	3 764 812	4 102 421	7 879 124	2	1
		1999..	41 189	1 269 848	34 142	69 357	876 952	3 893 727	3 827 685	7 644 625	2	1
		1998..	41 169	1 211 123	33 777	69 946	856 077	3 922 916	3 804 510	7 709 980	2	3
		1997..	40 671	1 168 260	33 153	69 064	808 133	3 402 530	3 906 147	7 300 237	X	X
326112	Unsupported plastics packaging film & sheet mfg	2001..	16 875	671 299	13 570	29 489	475 893	2 292 121	2 475 627	4 782 978	4	3
		2000..	17 327	656 742	14 109	30 431	465 174	2 292 038	2 536 109	4 823 210	4	3
		1999..	16 447	605 225	13 350	28 204	430 730	2 458 838	2 390 127	4 813 330	3	7
		1998..	15 288	567 022	12 111	26 123	400 837	1 931 512	2 066 507	3 998 678	1	3
		1997..	15 428	550 628	11 960	26 406	390 046	1 606 103	2 024 844	3 638 911	X	X
326113	Unsupported plastics film & sheet (except packaging) mfg	2001..	52 555	2 010 360	39 457	81 868	1 283 680	6 346 339	7 204 493	13 582 931	3	2
		2000..	55 304	2 075 347	41 357	87 641	1 326 158	6 659 001	7 643 219	14 318 069	3	2
		1999..	53 494	1 993 927	39 584	84 776	1 256 892	6 526 113	7 306 718	13 861 337	3	2
		1998..	53 364	1 920 060	39 375	82 315	1 204 897	6 404 302	6 961 710	13 349 972	1	1
		1997..	54 193	1 927 649	39 593	83 119	1 191 437	6 583 040	7 138 265	13 685 696	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
326	Plastics & rubber products mfg—Con.											
3261	Plastics product mfg—Con.											
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	2001..	48 889	1 608 265	36 575	74 072	1 016 115	4 491 734	5 140 722	9 754 386	2	3
		2000..	50 895	1 656 211	38 240	79 485	1 048 609	4 627 888	5 687 119	10 122 552	3	3
		1999..	48 695	1 529 688	36 781	73 154	961 190	4 544 045	4 883 846	9 396 835	2	2
		1998..	47 864	1 490 807	35 557	71 447	925 712	4 199 135	4 916 483	9 171 743	2	2
		1997..	47 419	1 409 531	35 828	71 193	880 768	4 066 325	5 207 289	9 228 294	X	X
326121	Unsupported plastics profile shape mfg	2001..	26 999	931 081	19 503	39 288	557 530	2 563 668	1 875 229	4 446 475	3	5
		2000..	28 251	965 206	20 394	42 343	574 603	2 592 409	1 924 561	4 514 352	4	3
		1999..	27 053	878 771	19 559	39 250	526 456	2 379 524	1 731 385	4 158 315	3	3
		1998..	27 657	866 589	19 695	39 452	503 955	2 322 285	1 963 761	4 271 814	3	1
		1997..	27 449	857 876	20 145	40 386	512 494	2 273 968	2 149 086	4 436 148	X	X
326122	Plastics pipe & pipe fitting mfg	2001..	21 890	677 183	17 072	34 784	458 585	1 928 066	3 265 493	5 307 911	3	3
		2000..	22 644	691 005	17 846	37 143	474 007	2 035 479	3 762 558	5 608 201	3	5
		1999..	21 642	650 916	17 222	33 903	434 734	2 164 521	3 152 461	5 238 520	3	2
		1998..	20 207	624 218	15 862	31 994	421 757	1 876 849	2 952 721	4 899 929	3	4
		1997..	19 970	551 655	15 683	30 807	368 274	1 792 357	3 058 203	4 792 146	X	X
32613	Laminated plastics plate, sheet, & shape mfg	2001..	14 866	517 969	11 327	23 755	358 439	1 343 074	1 184 257	2 530 874	6	3
		2000..	15 378	542 364	11 533	24 648	370 608	1 511 364	1 273 331	2 795 499	5	2
		1999..	14 832	534 730	11 124	24 784	352 089	1 503 314	1 277 466	2 775 745	3	2
		1998..	15 689	542 124	12 217	27 058	361 290	1 468 022	1 363 795	2 847 331	2	2
		1997..	16 517	545 933	12 898	27 290	366 539	1 624 612	1 569 088	3 195 293	X	X
326130	Laminated plastics plate, sheet, & shape mfg	2001..	14 866	517 969	11 327	23 755	358 439	1 343 074	1 184 257	2 530 874	6	3
		2000..	15 378	542 364	11 533	24 648	370 608	1 511 364	1 273 331	2 795 499	5	2
		1999..	14 832	534 730	11 124	24 784	352 089	1 503 314	1 277 466	2 775 745	3	2
		1998..	15 689	542 124	12 217	27 058	361 290	1 468 022	1 363 795	2 847 331	2	2
		1997..	16 517	545 933	12 898	27 290	366 539	1 624 612	1 569 088	3 195 293	X	X
32614	Polystyrene foam product mfg	2001..	34 122	988 014	27 479	53 854	684 188	3 305 078	3 463 256	6 772 520	3	5
		2000..	34 065	988 819	27 145	54 683	669 124	3 245 199	3 271 167	6 472 885	3	6
		1999..	33 116	965 051	26 385	52 669	658 843	3 107 766	2 896 012	5 969 493	3	2
		1998..	30 564	837 401	25 124	50 142	608 519	2 963 314	2 634 669	5 553 202	1	2
		1997..	27 142	759 412	21 651	44 179	520 399	2 420 515	2 477 909	4 899 240	X	X
326140	Polystyrene foam product mfg	2001..	34 122	988 014	27 479	53 854	684 188	3 305 078	3 463 256	6 772 520	3	5
		2000..	34 065	988 819	27 145	54 683	669 124	3 245 199	3 271 167	6 472 885	3	6
		1999..	33 116	965 051	26 385	52 669	658 843	3 107 766	2 896 012	5 969 493	3	2
		1998..	30 564	837 401	25 124	50 142	608 519	2 963 314	2 634 669	5 553 202	1	2
		1997..	27 142	759 412	21 651	44 179	520 399	2 420 515	2 477 909	4 899 240	X	X
32615	Urethane & other foam product (except polystyrene) mfg	2001..	34 454	1 008 667	27 884	52 756	657 662	2 983 806	3 850 966	6 810 104	4	6
		2000..	37 142	1 084 783	30 147	57 777	713 205	3 245 868	4 137 951	7 394 246	3	6
		1999..	36 416	1 051 696	29 314	57 407	699 684	3 333 822	4 266 366	7 556 475	3	4
		1998..	35 985	1 027 980	28 523	54 203	665 377	2 875 746	3 810 247	6 674 974	1	2
		1997..	37 362	1 008 426	29 732	56 309	657 957	2 822 544	3 860 712	6 664 656	X	X
326150	Urethane & other foam product (except polystyrene) mfg	2001..	34 454	1 008 667	27 884	52 756	657 662	2 983 806	3 850 966	6 810 104	4	6
		2000..	37 142	1 084 783	30 147	57 777	713 205	3 245 868	4 137 951	7 394 246	3	6
		1999..	36 416	1 051 696	29 314	57 407	699 684	3 333 822	4 266 366	7 556 475	3	4
		1998..	35 985	1 027 980	28 523	54 203	665 377	2 875 746	3 810 247	6 674 974	1	2
		1997..	37 362	1 008 426	29 732	56 309	657 957	2 822 544	3 860 712	6 664 656	X	X
32616	Plastics bottle mfg	2001..	36 546	1 129 306	30 932	63 277	883 889	3 973 265	4 295 149	8 257 350	5	3
		2000..	37 287	1 132 707	31 281	64 491	881 427	3 781 919	4 244 951	7 981 992	2	3
		1999..	36 844	1 070 003	31 854	65 564	845 082	3 814 020	3 439 748	7 217 551	3	3
		1998..	35 160	1 016 353	30 045	60 820	762 464	3 420 758	3 526 666	6 939 204	1	3
		1997..	33 933	963 813	28 892	59 651	736 959	3 097 170	3 267 717	6 335 218	X	X
326160	Plastics bottle mfg	2001..	36 546	1 129 306	30 932	63 277	883 889	3 973 265	4 295 149	8 257 350	5	3
		2000..	37 287	1 132 707	31 281	64 491	881 427	3 781 919	4 244 951	7 981 992	2	3
		1999..	36 844	1 070 003	31 854	65 564	845 082	3 814 020	3 439 748	7 217 551	3	3
		1998..	35 160	1 016 353	30 045	60 820	762 464	3 420 758	3 526 666	6 939 204	1	3
		1997..	33 933	963 813	28 892	59 651	736 959	3 097 170	3 267 717	6 335 218	X	X
32619	Other plastics product mfg	2001..	556 374	16 366 712	437 655	854 874	10 484 694	40 853 458	35 747 448	76 845 949	1	2
		2000..	584 315	17 002 629	463 606	913 128	10 995 688	43 274 590	37 437 889	80 376 347	1	2
		1999..	579 503	16 485 373	459 226	906 355	10 580 685	43 021 575	34 505 546	77 333 076	1	1
		1998..	560 475	15 484 052	444 494	878 843	10 026 685	39 778 138	32 719 709	72 415 578	1	1
		1997..	548 042	14 695 918	430 710	840 116	9 405 594	37 657 947	31 952 756	69 497 829	X	X
326191	Plastics plumbing fixture mfg	2001..	22 678	577 078	17 490	34 106	361 124	1 539 177	1 170 092	2 712 729	5	4
		2000..	24 055	604 526	18 536	34 449	365 610	1 667 173	1 271 679	2 943 855	5	4
		1999..	23 090	601 321	17 665	34 133	363 919	1 652 917	1 164 557	2 801 594	3	4
		1998..	19 269	496 085	14 894	32 079	322 721	1 429 110	1 015 808	2 432 734	5	3
		1997..	19 254	452 514	14 913	29 618	299 326	1 239 095	937 423	2 181 207	X	X
326192	Resilient floor covering mfg	2001..	5 123	234 217	3 727	7 730	150 587	682 735	760 368	1 441 259	3	1
		2000..	5 344	235 172	3 945	8 101	154 906	753 083	781 416	1 539 339	4	1
		1999..	5 502	226 370	4 041	8 440	144 219	884 466	814 918	1 710 864	4	1
		1998..	6 484	277 255	5 107	10 367	202 214	915 249	796 389	1 729 258	1	1
		1997..	6 070	270 689	4 739	9 694	199 622	946 321	758 886	1 684 216	X	X
326199	All other plastics product mfg	2001..	528 573	15 555 417	416 438	813 038	9 972 983	38 631 546	33 816 988	72 691 961	1	2
		2000..	554 916	16 162 931	441 124	870 578	10 475 172	40 854 334	35 384 794	75 893 153	1	2
		1999..	550 910	15 657 681	437 520	863 783	10 072 547	40 484 192	32 526 071	72 820 618	1	1
		1998..	534 723	14 710 712	424 492	836 398	9 501 750	37 433 778	30 907 512	68 253 586	1	1
		1997..	522 718	13 972 715	411 058	800 804	8 906 646	35 472 531	30 256 447	65 632 406	X	X
3262	Rubber product mfg	2001..	193 603	6 951 174	153 072	306 969	4 940 887	17 082 540	16 213 044	33 441 300	1	2
		2000..	208 540	7 470 743	166 858	340 871	5 347 544	18 819 182	17 338 853	36 071 890	1	2
		1999..	209 542	7 227 520	166 730	342 907	5 147 417	19 073 223	16 317 839	35 316 318	1	1
		1998..	204 888	6 930 454	164 151	335 742	4 977 668	18 578 078	16 486 622	35 075 719	1	1
		1997..	202 353	6 775 334	161 272	330 493	4 870 844	18 068 296	16 589 739	34 715 972	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
326	Plastics & rubber products mfg—Con.											
3262	Rubber product mfg—Con.											
32621	Tire mfg	2001..	71 171	3 048 315	58 184	114 928	2 407 762	7 456 275	7 022 911	14 531 030	2	3
		2000..	74 104	3 227 998	61 866	124 056	2 578 119	8 086 909	7 522 171	15 614 242	2	2
		1999..	71 693	3 068 592	59 685	122 641	2 411 026	8 009 101	6 982 609	14 934 957	1	1
		1998..	73 577	3 028 618	61 425	124 538	2 394 817	8 024 941	7 286 152	15 322 206	1	1
		1997..	72 189	2 962 564	60 041	123 368	2 345 619	7 917 563	7 754 560	15 699 140	X	X
326211	Tire mfg (except retreading)	2001..	62 577	2 829 912	52 901	103 962	2 282 307	6 991 599	6 372 788	13 428 974	2	3
		2000..	66 449	3 022 720	56 721	113 109	2 454 686	7 681 154	6 929 467	14 620 417	2	3
		1999..	64 112	2 873 071	54 234	110 886	2 289 245	7 639 896	6 364 297	13 949 657	1	1
		1998..	65 429	2 824 020	55 167	110 976	2 256 771	7 570 262	6 735 883	14 318 766	1	1
		1997..	64 334	2 772 569	54 156	110 662	2 219 999	7 521 527	7 182 764	14 728 525	X	X
326212	Tire retreading	2001..	8 593	218 403	5 283	10 966	125 455	464 676	650 123	1 102 056	5	5
		2000..	7 655	205 279	5 145	10 948	123 433	405 755	592 704	993 825	5	5
		1999..	7 580	195 522	5 451	11 755	121 781	369 205	618 312	985 300	4	4
		1998..	8 148	204 598	6 258	13 562	138 047	454 679	550 268	1 003 440	3	3
		1997..	7 855	189 995	5 885	12 706	125 620	396 036	571 796	970 615	X	X
32622	Rubber & plastics hoses & belting mfg	2001..	23 776	766 676	18 256	36 143	511 892	1 947 695	1 956 173	3 906 622	2	4
		2000..	25 114	823 906	19 343	40 046	549 525	2 213 604	2 065 178	4 242 850	2	4
		1999..	26 030	841 208	20 293	41 246	580 593	2 453 286	2 044 617	4 483 743	2	3
		1998..	24 181	775 834	19 092	39 592	536 899	2 236 910	1 944 952	4 191 333	1	1
		1997..	24 182	749 220	18 758	39 339	521 633	2 162 353	1 822 849	4 025 238	X	X
326220	Rubber & plastics hoses & belting mfg	2001..	23 776	766 676	18 256	36 143	511 892	1 947 695	1 956 173	3 906 622	2	4
		2000..	25 114	823 906	19 343	40 046	549 525	2 213 604	2 065 178	4 242 850	2	4
		1999..	26 030	841 208	20 293	41 246	580 593	2 453 286	2 044 617	4 483 743	2	3
		1998..	24 181	775 834	19 092	39 592	536 899	2 236 910	1 944 952	4 191 333	1	1
		1997..	24 182	749 220	18 758	39 339	521 633	2 162 353	1 822 849	4 025 238	X	X
32629	Other rubber product mfg	2001..	98 656	3 136 183	76 633	155 898	2 021 233	7 678 570	7 233 960	15 003 648	2	3
		2000..	109 322	3 418 839	85 649	176 769	2 219 900	8 518 669	7 751 505	16 214 799	2	2
		1999..	111 819	3 317 720	86 751	179 020	2 155 798	8 610 837	7 290 613	15 897 618	1	2
		1998..	107 130	3 126 003	83 634	171 612	2 045 951	8 316 227	7 255 518	15 562 181	1	2
		1997..	105 982	3 063 550	82 473	167 786	2 003 592	7 988 380	7 012 330	14 991 594	X	X
326291	Rubber product mfg for mechanical use	2001..	54 020	1 704 984	43 221	88 775	1 143 325	3 907 108	3 204 645	7 138 985	3	2
		2000..	60 391	1 888 157	48 649	102 631	1 281 064	4 439 187	3 324 396	7 746 172	2	2
		1999..	60 323	1 778 214	48 523	102 417	1 213 133	4 485 316	3 180 647	7 668 690	1	2
		1998..	56 741	1 658 528	46 070	96 001	1 142 384	4 010 490	3 131 749	7 115 858	1	3
		1997..	55 397	1 593 564	44 429	91 977	1 091 734	3 857 118	2 835 920	6 668 381	X	X
326299	All other rubber product mfg	2001..	44 636	1 431 199	33 411	67 123	877 908	3 771 462	4 029 316	7 864 663	4	5
		2000..	48 930	1 530 681	37 000	74 138	938 836	4 079 482	4 427 109	8 468 627	3	5
		1999..	51 496	1 539 505	38 228	76 603	942 665	4 125 520	4 109 966	8 228 928	3	3
		1998..	50 390	1 467 474	37 564	75 611	903 567	4 305 736	4 123 769	8 446 322	1	2
		1997..	50 585	1 469 986	38 044	75 809	911 858	4 131 262	4 176 410	8 323 213	X	X
327	Nonmetallic mineral product mfg	2001..	507 308	18 146 912	394 573	822 004	12 554 146	53 194 998	41 440 307	94 860 574	1	1
		2000..	521 747	18 482 461	407 057	855 466	12 910 253	55 508 358	42 245 265	97 329 049	1	1
		1999..	523 019	17 914 663	408 000	859 734	12 538 622	55 635 055	40 792 171	96 153 399	1	1
		1998..	507 938	16 865 696	397 122	832 074	11 943 566	52 851 161	39 623 487	92 501 490	1	1
		1997..	501 471	16 172 049	388 898	797 684	11 319 464	49 425 491	37 072 480	86 464 708	X	X
3271	Clay product & refractory mfg	2001..	69 611	2 179 872	54 877	109 215	1 485 808	5 691 533	3 064 488	8 785 652	3	2
		2000..	74 604	2 331 759	59 337	120 046	1 599 588	6 255 568	3 266 173	9 439 340	3	2
		1999..	76 658	2 304 587	60 689	122 739	1 606 391	6 304 844	3 112 930	9 418 096	1	1
		1998..	77 657	2 229 006	61 949	123 749	1 579 765	5 957 470	3 169 435	9 127 901	1	1
		1997..	80 441	2 235 382	63 892	126 455	1 576 150	5 915 703	3 201 379	9 107 840	X	X
32711	Pottery, ceramics, & plumbing fixture mfg	2001..	35 026	1 054 778	27 885	54 842	708 078	2 529 196	1 161 673	3 713 853	5	3
		2000..	37 390	1 121 496	30 142	60 685	770 239	2 941 283	1 248 031	4 172 925	5	2
		1999..	39 070	1 119 162	31 865	63 807	796 037	2 914 497	1 180 542	4 085 987	2	2
		1998..	41 155	1 125 359	33 346	65 238	820 798	2 888 564	1 255 088	4 132 541	2	1
		1997..	42 557	1 114 784	34 231	66 068	803 891	2 813 867	1 199 660	3 992 979	X	X
327111	Vitreous china plumbing fixture & bathroom accessories mfg	2001..	8 532	271 360	7 019	14 450	212 456	830 848	285 639	1 121 664	7	5
		2000..	8 601	290 532	7 045	15 000	227 213	931 804	289 842	1 233 084	7	4
		1999..	8 979	290 673	7 496	16 473	235 501	899 668	291 794	1 181 764	5	5
		1998..	9 604	306 131	8 328	17 371	254 868	877 618	323 097	1 199 102	1	1
		1997..	9 222	284 871	7 816	16 305	234 827	807 165	287 587	1 109 995	X	X
327112	Vitreous china, fine earthenware, & other pottery product mfg	2001..	17 109	465 045	13 611	25 542	302 061	968 848	487 474	1 460 912	10	5
		2000..	18 696	489 471	15 135	29 050	325 370	1 107 924	524 791	1 621 084	9	5
		1999..	20 479	503 885	16 891	31 864	350 591	1 207 714	503 108	1 710 494	4	2
		1998..	22 103	510 009	17 693	33 522	363 817	1 225 955	506 917	1 721 517	1	1
		1997..	23 253	504 659	18 575	33 644	353 921	1 208 102	540 985	1 715 783	X	X
327113	Porcelain electrical supply mfg	2001..	9 384	318 373	7 255	14 850	193 561	729 500	388 560	1 131 276	3	3
		2000..	10 093	341 493	7 961	16 635	217 657	901 554	433 398	1 318 757	3	3
		1999..	9 612	324 604	7 478	15 470	209 945	807 115	385 641	1 193 729	2	3
		1998..	9 448	309 219	7 326	14 345	202 113	784 991	425 073	1 211 922	6	2
		1997..	10 082	325 254	7 840	16 119	215 143	798 600	371 088	1 167 201	X	X
32712	Clay building material & refractories mfg	2001..	34 585	1 125 095	26 992	54 373	777 729	3 162 337	1 902 815	5 071 799	2	3
		2000..	37 215	1 210 263	29 195	59 361	829 349	3 314 286	2 018 142	5 266 415	2	3
		1999..	37 589	1 185 426	28 824	58 932	810 354	3 390 346	1 932 388	5 332 109	2	2
		1998..	36 502	1 103 647	28 602	58 511	758 968	3 068 906	1 914 347	4 995 359	1	1
		1997..	37 884	1 120 598	29 661	60 387	772 259	3 101 836	2 001 719	5 114 861	X	X
327121	Brick & structural clay tile mfg	2001..	13 546	417 151	11 007	22 875	305 668	1 296 169	531 444	1 799 611	3	3
		2000..	14 382	429 741	11 612	24 693	308 658	1 313 330	540 544	1 823 142	2	3
		1999..	14 170	415 292	11 376	23 173	289 505	1 261 087	480 600	1 771 520	2	3
		1998..	13 182	363 358	10 547	22 018	250 658	1 047 273	421 298	1 484 450	2	2
		1997..	13 694	360 947	10 858	22 136	248 671	970 014	439 178	1 411 833	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
327	Nonmetallic mineral product mfg—Con.											
3271	Clay product & refractory mfg—Con.											
32712	Clay building material & refractories mfg—Con.											
327122	Ceramic wall & floor tile mfg	2001..	8 389	231 249	6 825	12 891	170 792	668 842	374 984	1 051 448	5	8
		2000..	9 163	251 681	7 607	14 411	185 898	668 546	340 594	989 403	5	9
		1999..	8 705	229 154	6 619	13 118	161 043	680 560	315 544	973 068	4	7
		1998..	8 337	203 764	7 114	13 849	159 136	526 377	298 724	808 892	2	1
		1997..	8 755	214 860	7 439	15 017	166 180	556 920	297 905	851 405	X	X
327123	Other structural clay product mfg	2001..	1 623	46 658	1 253	2 532	31 925	104 081	50 186	155 899	6	7
		2000..	1 473	43 148	1 151	2 342	29 878	108 758	45 057	147 525	4	3
		1999..	1 452	41 457	1 003	2 198	27 035	95 045	40 470	135 908	6	4
		1998..	1 490	38 270	1 143	2 312	24 871	90 388	35 981	128 580	1	1
		1997..	1 332	35 163	1 025	1 945	22 877	80 941	34 771	117 376	X	X
327124	Clay refractory mfg	2001..	3 801	141 146	2 931	6 158	104 018	360 152	390 991	762 542	9	10
		2000..	4 552	170 919	3 537	7 318	125 616	439 797	433 268	874 557	6	8
		1999..	4 916	182 557	3 958	8 207	139 169	482 055	419 828	903 885	5	6
		1998..	5 617	201 829	4 231	8 793	139 947	535 987	536 453	1 084 499	1	2
		1997..	5 781	199 274	4 386	8 809	138 806	564 030	552 865	1 115 939	X	X
327125	Nonclay refractory mfg	2001..	7 227	288 891	4 975	9 917	165 327	733 093	555 210	1 302 299	5	10
		2000..	7 644	314 773	5 289	10 597	179 299	783 854	658 680	1 431 787	6	5
		1999..	8 345	316 966	5 867	12 236	193 603	871 599	675 946	1 547 729	3	3
		1998..	7 876	296 426	5 567	11 539	184 355	868 881	621 892	1 488 938	1	1
		1997..	8 322	310 354	5 953	12 480	195 725	929 931	677 000	1 618 308	X	X
3272	Glass & glass product mfg	2001..	122 504	4 542 118	99 249	203 476	3 252 870	13 679 586	9 081 356	22 914 238	1	1
		2000..	126 860	4 762 289	103 959	217 878	3 531 400	14 761 254	9 551 082	24 216 660	1	1
		1999..	127 321	4 645 579	104 777	218 219	3 420 380	14 319 421	9 107 948	23 350 174	1	1
		1998..	127 206	4 442 821	104 876	215 934	3 330 096	13 937 363	8 816 769	22 666 755	1	1
		1997..	128 565	4 428 351	105 051	217 330	3 320 718	14 052 256	8 735 491	22 732 942	X	X
32721	Glass & glass product mfg	2001..	122 504	4 542 118	99 249	203 476	3 252 870	13 679 586	9 081 356	22 914 238	1	1
		2000..	126 860	4 762 289	103 959	217 878	3 531 400	14 761 254	9 551 082	24 216 660	1	1
		1999..	127 321	4 645 579	104 777	218 219	3 420 380	14 319 421	9 107 948	23 350 174	1	1
		1998..	127 206	4 442 821	104 876	215 934	3 330 096	13 937 363	8 816 769	22 666 755	1	1
		1997..	128 565	4 428 351	105 051	217 330	3 320 718	14 052 256	8 735 491	22 732 942	X	X
327211	Flat glass mfg	2001..	11 044	530 805	9 006	18 715	409 632	1 742 124	941 628	2 674 436	1	1
		2000..	11 652	541 291	9 457	19 976	432 256	1 963 137	1 044 114	2 990 213	1	1
		1999..	11 387	568 879	9 358	20 616	445 688	1 942 055	897 030	2 844 153	1	1
		1998..	11 500	540 673	9 476	21 012	422 610	1 766 794	936 703	2 720 682	1	1
		1997..	11 579	535 454	9 474	21 457	421 377	1 888 714	926 796	2 795 507	X	X
327212	Other pressed & blown glass & glassware mfg	2001..	33 379	1 209 315	27 369	54 515	887 150	3 380 289	1 742 727	5 169 452	1	1
		2000..	34 799	1 331 902	28 974	61 436	1 017 808	3 873 195	1 771 708	5 596 637	1	1
		1999..	34 301	1 227 151	28 648	59 131	933 510	3 887 105	1 715 424	5 614 089	1	1
		1998..	35 089	1 218 756	29 539	61 830	949 920	4 217 055	1 883 150	6 060 145	1	1
		1997..	35 383	1 228 719	29 423	61 361	943 615	4 341 468	1 809 430	6 094 602	X	X
327213	Glass container mfg	2001..	15 580	716 785	13 749	28 540	602 160	2 504 287	1 617 218	4 206 423	1	1
		2000..	16 846	773 256	14 912	30 891	654 841	2 540 809	1 600 607	4 125 005	1	1
		1999..	19 220	818 898	17 146	34 668	695 074	2 690 808	1 550 300	4 215 397	1	1
		1998..	19 935	822 235	17 879	35 924	698 497	2 677 305	1 594 989	4 216 315	1	1
		1997..	21 184	840 703	18 679	37 300	710 641	2 557 999	1 589 110	4 198 122	X	X
327215	Glass product mfg made of purchased glass	2001..	62 501	2 085 212	49 125	101 705	1 353 928	6 052 886	4 779 783	10 863 926	2	2
		2000..	63 564	2 115 840	50 616	105 576	1 426 495	6 384 113	5 134 652	11 504 806	2	2
		1999..	62 414	2 030 651	49 625	103 804	1 346 108	5 799 453	4 945 194	10 676 535	1	1
		1998..	60 682	1 861 156	47 981	97 168	1 259 069	5 276 209	4 401 926	9 669 613	2	1
		1997..	60 419	1 823 475	47 475	97 212	1 245 085	5 264 075	4 410 155	9 644 711	X	X
3273	Cement & concrete product mfg	2001..	222 337	7 926 970	168 668	358 750	5 411 371	23 445 742	20 378 748	43 851 552	1	1
		2000..	220 767	7 747 191	167 271	356 492	5 285 311	22 669 012	20 227 595	42 652 960	1	1
		1999..	217 515	7 408 374	165 274	354 219	5 079 696	22 080 545	19 583 940	41 525 781	1	1
		1998..	201 890	6 713 871	153 770	329 037	4 597 674	20 472 893	18 632 496	39 158 817	1	1
		1997..	194 970	6 190 454	145 829	300 841	4 172 094	17 964 132	16 639 105	34 591 507	X	X
32731	Cement mfg	2001..	17 220	860 475	12 733	28 203	583 608	4 790 951	2 724 535	7 570 172	2	1
		2000..	17 175	829 473	12 726	28 048	562 446	4 693 040	2 589 699	7 161 833	2	1
		1999..	17 323	815 732	12 848	28 599	550 313	4 564 089	2 526 645	7 030 974	1	1
		1998..	17 227	756 333	12 706	27 382	505 424	4 440 531	2 528 933	6 984 000	1	1
		1997..	16 925	734 226	12 496	27 244	498 001	4 022 503	2 475 798	6 531 747	X	X
327310	Cement mfg	2001..	17 220	860 475	12 733	28 203	583 608	4 790 951	2 724 535	7 570 172	2	1
		2000..	17 175	829 473	12 726	28 048	562 446	4 693 040	2 589 699	7 161 833	2	1
		1999..	17 323	815 732	12 848	28 599	550 313	4 564 089	2 526 645	7 030 974	1	1
		1998..	17 227	756 333	12 706	27 382	505 424	4 440 531	2 528 933	6 984 000	1	1
		1997..	16 925	734 226	12 496	27 244	498 001	4 022 503	2 475 798	6 531 747	X	X
32732	Ready-mix concrete mfg	2001..	102 790	3 709 915	81 370	173 212	2 716 372	10 017 236	11 459 783	21 472 894	2	2
		2000..	101 103	3 622 064	79 796	171 405	2 643 683	9 518 744	11 412 475	20 933 332	1	2
		1999..	102 044	3 529 981	81 141	173 135	2 592 088	9 475 861	11 081 867	20 569 578	1	2
		1998..	94 401	3 177 079	75 157	158 418	2 346 495	8 832 097	10 533 584	19 388 319	1	1
		1997..	93 136	2 965 346	72 464	147 770	2 153 268	7 780 774	9 418 330	17 219 886	X	X
327320	Ready-mix concrete mfg	2001..	102 790	3 709 915	81 370	173 212	2 716 372	10 017 236	11 459 783	21 472 894	2	2
		2000..	101 103	3 622 064	79 796	171 405	2 643 683	9 518 744	11 412 475	20 933 332	1	2
		1999..	102 044	3 529 981	81 141	173 135	2 592 088	9 475 861	11 081 867	20 569 578	1	2
		1998..	94 401	3 177 079	75 157	158 418	2 346 495	8 832 097	10 533 584	19 388 319	1	1
		1997..	93 136	2 965 346	72 464	147 770	2 153 268	7 780 774	9 418 330	17 219 886	X	X
32733	Concrete pipe, brick, & block mfg	2001..	36 028	1 253 059	25 735	56 387	770 802	3 564 875	2 836 970	6 414 125	4	3
		2000..	37 269	1 282 004	26 425	58 058	795 559	3 650 229	2 927 036	6 509 584	4	4
		1999..	37 166	1 247 146	25 972	58 215	761 953	3 604 673	2 893 390	6 465 297	4	4
		1998..	34 108	1 108 273	23 698	51 501	659 381	3 274 963	2 613 999	5 903 754	2	5
		1997..	32 164	990 225	22 043	46 594	580 378	2 655 107	2 233 924	4 852 512	X	X
327331	Concrete block & brick mfg	2001..	21 616	761 831	13 960	31 145	431 121	2 029 043	1 892 867	3 931 051	5	5
		2000..	22 555	785 470	14 170	31 734	450 833	2 146 596	1 949 286	4 043 911	7	7
		1999..	22 653	749 140	14 206	31 904	429 368	2 057 071	1 938 501	3 974 234	6	6
		1998..	19 602	636 918	12 486	26 451	344 081	1 751 508	1 696 743	3 454 680	3	5
		1997..	18 079	559 417	11 202	23 738	292 938	1 463 652	1 407 165	2 844 076	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
327	Nonmetallic mineral product mfg—Con.											
3273	Cement & concrete product mfg—Con.											
32733	Concrete pipe, brick, & block mfg—Con.											
327332	Concrete pipe mfg	2001..	14 412	491 228	11 775	25 242	339 680	1 535 832	944 102	2 483 074	5	4
		2000..	14 714	496 534	12 254	26 324	344 726	1 503 633	977 750	2 465 673	4	3
		1999..	14 512	498 006	11 766	26 311	332 584	1 547 602	954 889	2 491 063	4	3
		1998..	14 506	471 355	11 212	25 050	315 300	1 523 455	917 256	2 449 074	3	9
		1997..	14 085	430 808	10 841	22 856	287 440	1 191 455	826 759	2 008 436	X	X
32739	Other concrete product mfg	2001..	66 299	2 103 521	48 830	100 948	1 340 589	5 072 679	3 357 460	8 394 361	3	4
		2000..	65 219	2 013 649	48 325	98 981	1 283 622	4 806 998	3 298 385	8 048 211	3	3
		1999..	60 982	1 815 515	45 312	94 269	1 175 342	4 435 923	3 082 039	7 459 933	2	2
		1998..	56 155	1 672 186	42 210	91 736	1 086 374	3 925 301	2 955 980	6 882 744	1	2
		1997..	52 745	1 500 657	38 826	79 233	940 447	3 505 748	2 511 053	5 987 362	X	X
327390	Other concrete product mfg	2001..	66 299	2 103 521	48 830	100 948	1 340 589	5 072 679	3 357 460	8 394 361	3	4
		2000..	65 219	2 013 649	48 325	98 981	1 283 622	4 806 998	3 298 385	8 048 211	3	3
		1999..	60 982	1 815 515	45 312	94 269	1 175 342	4 435 923	3 082 039	7 459 933	2	2
		1998..	56 155	1 672 186	42 210	91 736	1 086 374	3 925 301	2 955 980	6 882 744	1	2
		1997..	52 745	1 500 657	38 826	79 233	940 447	3 505 748	2 511 053	5 987 362	X	X
3274	Lime & gypsum product mfg	2001..	18 645	739 206	15 097	33 764	554 464	2 190 976	2 870 764	5 055 106	3	3
		2000..	20 347	782 459	16 262	35 846	590 603	3 147 412	2 956 811	6 099 479	2	2
		1999..	20 837	789 492	16 691	38 066	590 291	3 978 171	3 047 371	7 017 604	2	1
		1998..	20 562	776 129	16 473	37 700	586 164	3 619 495	2 993 224	6 670 905	3	6
		1997..	18 856	691 349	14 990	34 125	508 612	2 816 807	2 709 641	5 533 623	X	X
32741	Lime mfg	2001..	5 096	208 860	3 979	8 646	149 011	615 916	481 619	1 097 894	3	4
		2000..	5 398	211 974	4 201	8 786	155 613	677 216	499 668	1 175 263	3	3
		1999..	5 674	219 882	4 320	9 503	163 090	762 115	521 423	1 283 768	3	3
		1998..	5 748	222 163	4 386	10 153	165 517	755 414	527 490	1 295 970	2	11
		1997..	5 313	194 786	4 067	9 017	144 758	614 959	548 714	1 168 450	X	X
327410	Lime mfg	2001..	5 096	208 860	3 979	8 646	149 011	615 916	481 619	1 097 894	3	4
		2000..	5 398	211 974	4 201	8 786	155 613	677 216	499 668	1 175 263	3	3
		1999..	5 674	219 882	4 320	9 503	163 090	762 115	521 423	1 283 768	3	3
		1998..	5 748	222 163	4 386	10 153	165 517	755 414	527 490	1 295 970	2	11
		1997..	5 313	194 786	4 067	9 017	144 758	614 959	548 714	1 168 450	X	X
32742	Gypsum product mfg	2001..	13 549	530 346	11 118	25 117	405 453	1 575 059	2 389 145	3 957 212	3	4
		2000..	14 949	570 485	12 061	27 061	434 990	2 470 196	2 457 144	4 924 216	3	3
		1999..	15 163	569 610	12 371	28 563	427 201	3 216 056	2 525 949	5 733 836	2	2
		1998..	14 813	553 966	12 087	27 547	420 647	2 864 081	2 465 733	5 374 935	4	7
		1997..	13 543	496 563	10 923	25 108	363 854	2 201 848	2 160 927	4 365 173	X	X
327420	Gypsum product mfg	2001..	13 549	530 346	11 118	25 117	405 453	1 575 059	2 389 145	3 957 212	3	4
		2000..	14 949	570 485	12 061	27 061	434 990	2 470 196	2 457 144	4 924 216	3	3
		1999..	15 163	569 610	12 371	28 563	427 201	3 216 056	2 525 949	5 733 836	2	2
		1998..	14 813	553 966	12 087	27 547	420 647	2 864 081	2 465 733	5 374 935	4	7
		1997..	13 543	496 563	10 923	25 108	363 854	2 201 848	2 160 927	4 365 173	X	X
3279	Other nonmetallic mineral product mfg	2001..	74 211	2 758 746	56 681	116 800	1 849 634	8 187 161	6 044 951	14 254 028	2	2
		2000..	79 169	2 858 763	60 227	125 204	1 903 351	8 675 111	6 243 604	14 920 609	1	1
		1999..	80 686	2 766 631	60 569	126 491	1 841 863	8 952 074	5 939 981	14 841 743	1	1
		1998..	80 623	2 703 870	60 054	125 654	1 849 866	8 863 939	6 011 563	14 877 112	1	1
		1997..	78 639	2 626 513	59 136	118 933	1 741 890	8 676 593	5 786 864	14 498 796	X	X
32791	Abrasive product mfg	2001..	17 013	662 881	12 068	24 366	361 854	2 204 980	1 178 949	3 395 699	3	3
		2000..	20 229	757 402	14 275	29 758	418 070	2 637 403	1 412 899	4 072 731	2	2
		1999..	20 785	744 347	14 024	29 601	407 330	2 858 128	1 545 621	4 369 970	2	2
		1998..	21 551	756 109	14 591	32 016	450 195	2 942 787	1 740 689	4 724 254	3	3
		1997..	22 571	782 054	15 894	31 023	424 991	2 918 902	1 714 596	4 660 043	X	X
327910	Abrasive product mfg	2001..	17 013	662 881	12 068	24 366	361 854	2 204 980	1 178 949	3 395 699	3	3
		2000..	20 229	757 402	14 275	29 758	418 070	2 637 403	1 412 899	4 072 731	2	2
		1999..	20 785	744 347	14 024	29 601	407 330	2 858 128	1 545 621	4 369 970	2	2
		1998..	21 551	756 109	14 591	32 016	450 195	2 942 787	1 740 689	4 724 254	3	3
		1997..	22 571	782 054	15 894	31 023	424 991	2 918 902	1 714 596	4 660 043	X	X
32799	All other nonmetallic mineral product mfg	2001..	57 198	2 095 866	44 614	92 434	1 487 780	5 982 181	4 866 002	10 858 328	2	2
		2000..	58 940	2 101 361	45 952	95 445	1 485 281	6 037 707	4 830 705	10 847 878	2	2
		1999..	59 901	2 022 284	46 545	96 890	1 434 533	6 093 946	4 394 360	10 471 774	2	2
		1998..	59 072	1 947 762	45 463	93 638	1 399 671	5 921 152	4 270 874	10 152 858	1	2
		1997..	56 068	1 844 459	43 242	87 910	1 316 899	5 757 691	4 072 268	9 838 753	X	X
327991	Cut stone & stone product mfg	2001..	16 341	513 881	13 536	25 769	387 872	1 154 758	605 893	1 748 623	4	4
		2000..	15 890	474 741	12 911	23 623	357 546	1 087 206	563 990	1 645 363	4	4
		1999..	15 756	423 528	12 572	24 222	320 810	980 245	517 396	1 503 257	4	10
		1998..	14 332	369 175	11 192	23 207	281 875	809 108	508 888	1 301 546	2	6
		1997..	13 109	350 549	10 284	20 832	254 798	790 761	451 203	1 244 735	X	X
327992	Ground or treated mineral & earth mfg	2001..	9 509	349 086	6 847	14 595	227 555	1 158 710	1 055 942	2 217 323	3	4
		2000..	10 084	369 888	7 431	15 864	240 077	1 240 811	1 087 268	2 311 496	2	4
		1999..	10 130	370 657	7 475	15 894	239 209	1 330 169	955 325	2 268 757	2	3
		1998..	9 757	353 037	7 170	15 054	229 330	1 315 086	902 660	2 222 143	3	5
		1997..	10 115	360 995	7 149	15 130	227 263	1 427 108	943 880	2 362 480	X	X
327993	Mineral wool mfg	2001..	20 553	865 290	16 768	35 683	656 487	2 598 924	2 174 348	4 786 302	2	2
		2000..	20 983	872 132	17 214	37 403	660 144	2 648 917	2 128 821	4 783 882	2	2
		1999..	21 773	862 381	17 855	38 296	653 253	2 772 728	1 980 944	4 752 256	1	2
		1998..	22 498	862 871	18 221	37 634	656 774	2 692 889	1 877 088	4 564 483	2	1
		1997..	21 610	811 380	17 791	36 164	624 686	2 601 843	1 803 109	4 422 507	X	X
327999	All other miscellaneous nonmetallic mineral product mfg	2001..	10 795	367 608	7 463	16 387	215 865	1 069 789	1 029 819	2 106 081	7	7
		2000..	11 983	384 599	8 396	18 555	227 514	1 060 772	1 050 627	2 107 138	5	6
		1999..	12 242	365 718	8 642	18 479	221 262	1 010 804	940 694	1 947 505	5	3
		1998..	12 486	362 679	8 880	17 744	231 693	1 104 069	982 238	2 064 686	2	4
		1997..	11 234	321 535	8 018	15 784	210 152	937 979	874 076	1 809 031	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
331	Primary metal mfg	2001..	532 819	22 199 270	420 195	877 754	15 984 531	53 111 390	83 301 309	138 245 446	1	1
		2000..	577 841	24 155 087	459 111	975 329	17 620 708	63 282 592	93 736 282	156 598 247	1	1
		1999..	582 775	23 722 389	463 161	981 858	17 249 568	66 314 845	90 596 020	156 647 371	1	1
		1998..	602 292	24 146 138	479 441	1 009 931	17 550 850	69 139 206	96 949 673	166 108 562	1	1
		1997..	605 085	23 811 233	479 552	1 024 675	17 354 552	68 749 487	99 343 265	168 117 728	X	X
3311	Iron & steel mills & ferroalloy mfg	2001..	130 296	6 699 994	101 957	215 516	5 007 862	14 748 697	29 055 494	44 896 062	1	1
		2000..	143 688	7 600 224	113 195	247 590	5 718 816	20 629 123	32 614 879	52 969 655	1	1
		1999..	141 942	7 327 094	111 192	242 573	5 516 088	21 859 931	31 136 551	53 175 466	1	1
		1998..	148 392	7 661 084	116 310	252 494	5 756 821	24 416 122	32 711 493	57 047 607	1	1
		1997..	149 875	7 604 810	117 490	258 552	5 751 639	25 432 010	33 174 527	58 383 159	X	X
33111	Iron & steel mills & ferroalloy mfg	2001..	130 296	6 699 994	101 957	215 516	5 007 862	14 748 697	29 055 494	44 896 062	1	1
		2000..	143 688	7 600 224	113 195	247 590	5 718 816	20 629 123	32 614 879	52 969 655	1	1
		1999..	141 942	7 327 094	111 192	242 573	5 516 088	21 859 931	31 136 551	53 175 466	1	1
		1998..	148 392	7 661 084	116 310	252 494	5 756 821	24 416 122	32 711 493	57 047 607	1	1
		1997..	149 875	7 604 810	117 490	258 552	5 751 639	25 432 010	33 174 527	58 383 159	X	X
331111	Iron & steel mills	2001..	127 359	6 565 465	99 890	211 112	4 924 103	14 375 029	28 631 731	44 094 931	1	1
		2000..	140 580	7 461 982	111 080	242 724	5 636 071	20 271 806	32 087 711	52 068 353	1	1
		1999..	138 995	7 193 490	109 164	238 089	5 432 298	21 471 531	30 584 744	52 234 527	1	1
		1998..	144 723	7 501 782	113 737	246 519	5 654 675	23 853 178	31 836 630	55 614 780	1	1
		1997..	146 215	7 450 380	114 865	252 629	5 649 360	24 868 550	32 324 688	56 994 468	X	X
331112	Electrometallurgical ferroalloy product mfg	2001..	2 937	134 530	2 067	4 404	83 758	373 667	423 762	801 131	9	4
		2000..	3 108	138 242	2 115	4 866	82 745	357 317	527 169	901 303	11	7
		1999..	2 947	133 604	2 029	4 483	83 790	388 399	551 807	940 939	7	4
		1998..	3 669	159 302	2 573	5 975	102 146	562 944	874 863	1 432 827	1	1
		1997..	3 660	154 430	2 625	5 923	102 279	563 460	849 839	1 388 691	X	X
3312	Steel product mfg from purchased steel	2001..	59 047	2 270 020	46 335	95 499	1 600 906	5 677 903	9 643 189	15 662 473	2	2
		2000..	62 644	2 407 493	49 394	104 157	1 688 833	6 679 510	10 926 704	17 500 836	2	2
		1999..	61 722	2 309 651	48 764	102 513	1 612 901	6 417 465	10 590 890	16 911 585	2	2
		1998..	64 483	2 380 165	50 829	107 853	1 685 704	6 572 907	12 215 083	18 823 409	2	1
		1997..	64 200	2 306 920	49 895	105 540	1 620 447	6 762 383	11 817 088	18 516 877	X	X
33121	Iron & steel pipes & tubes mfg from purchased steel	2001..	25 176	978 547	19 975	40 436	676 766	2 552 210	4 235 498	6 908 099	4	4
		2000..	27 174	1 027 093	21 498	44 498	715 138	3 090 901	4 759 746	7 783 423	4	3
		1999..	26 246	967 367	20 845	42 516	661 166	2 827 238	4 558 023	7 349 368	4	3
		1998..	27 313	994 813	21 379	45 311	682 535	2 615 360	4 894 145	7 537 341	1	1
		1997..	26 864	956 735	21 004	44 364	658 737	2 784 745	4 698 884	7 450 132	X	X
331210	Iron & steel pipes & tubes mfg from purchased steel	2001..	25 176	978 547	19 975	40 436	676 766	2 552 210	4 235 498	6 908 099	4	4
		2000..	27 174	1 027 093	21 498	44 498	715 138	3 090 901	4 759 746	7 783 423	4	3
		1999..	26 246	967 367	20 845	42 516	661 166	2 827 238	4 558 023	7 349 368	4	3
		1998..	27 313	994 813	21 379	45 311	682 535	2 615 360	4 894 145	7 537 341	1	1
		1997..	26 864	956 735	21 004	44 364	658 737	2 784 745	4 698 884	7 450 132	X	X
33122	Rolling & drawing of purchased steel	2001..	33 871	1 291 472	26 359	55 063	924 140	3 125 693	5 407 691	8 754 373	1	2
		2000..	35 470	1 380 400	27 896	59 659	973 695	3 588 609	6 166 958	9 717 414	1	1
		1999..	35 476	1 342 284	27 918	59 998	951 735	3 590 228	6 032 867	9 562 217	1	1
		1998..	37 170	1 385 352	29 450	62 542	1 003 168	3 957 547	7 320 938	11 286 069	4	2
		1997..	37 336	1 350 185	28 891	61 176	961 710	3 977 638	7 118 204	11 066 745	X	X
331221	Cold-rolled steel shape mfg	2001..	11 643	521 223	8 565	17 801	357 028	1 157 370	2 731 704	4 088 089	2	2
		2000..	12 852	593 176	9 686	20 024	405 414	1 628 291	3 459 126	5 094 136	3	2
		1999..	12 000	553 052	8 867	18 968	373 153	1 563 396	3 283 280	4 795 643	2	1
		1998..	14 319	637 705	10 493	22 081	436 130	1 934 527	4 323 644	6 266 371	1	2
		1997..	14 106	630 082	10 234	21 284	433 053	2 030 226	4 227 476	6 239 017	X	X
331222	Steel wire drawing	2001..	22 228	770 249	17 794	37 262	567 113	1 968 323	2 675 987	4 666 284	2	2
		2000..	22 618	787 224	18 210	39 635	568 281	1 960 319	2 707 832	4 623 278	1	2
		1999..	23 476	789 232	19 051	41 030	578 582	2 026 831	2 749 587	4 766 574	1	2
		1998..	22 851	747 646	18 957	40 461	567 039	2 023 020	2 997 294	5 019 698	6	3
		1997..	23 230	720 103	18 657	39 892	528 657	1 947 412	2 890 728	4 827 728	X	X
3313	Alumina & aluminum production & processing	2001..	76 354	3 104 597	59 375	121 596	2 121 334	8 600 132	19 228 473	28 093 718	1	1
		2000..	81 833	3 304 055	64 351	133 778	2 307 314	9 433 372	21 953 685	31 412 184	1	1
		1999..	83 477	3 295 264	65 670	136 873	2 284 851	11 430 664	19 414 258	30 778 705	1	1
		1998..	85 462	3 335 937	67 646	141 364	2 315 117	11 071 405	20 677 484	31 902 449	1	1
		1997..	84 487	3 345 036	66 665	142 548	2 344 731	10 063 942	22 294 745	32 550 279	X	X
33131	Alumina & aluminum production & processing	2001..	76 354	3 104 597	59 375	121 596	2 121 334	8 600 132	19 228 473	28 093 718	1	1
		2000..	81 833	3 304 055	64 351	133 778	2 307 314	9 433 372	21 953 685	31 412 184	1	1
		1999..	83 477	3 295 264	65 670	136 873	2 284 851	11 430 664	19 414 258	30 778 705	1	1
		1998..	85 462	3 335 937	67 646	141 364	2 315 117	11 071 405	20 677 484	31 902 449	1	1
		1997..	84 487	3 345 036	66 665	142 548	2 344 731	10 063 942	22 294 745	32 550 279	X	X
331311	Alumina refining	2001..	2 983	156 862	2 197	4 553	104 172	304 752	560 737	865 744	1	1
		2000..	2 981	142 444	2 171	4 496	98 527	250 672	877 574	1 124 660	1	1
		1999..	2 863	132 912	2 113	4 451	90 119	265 723	898 476	1 179 228	1	1
		1998..	3 004	140 710	2 258	4 994	97 849	356 424	957 643	1 313 383	1	1
		1997..	3 035	150 696	2 278	5 060	102 416	329 432	816 488	1 219 057	X	X
331312	Primary aluminum production	2001..	12 796	588 155	10 138	19 440	429 362	2 267 882	3 238 524	5 529 608	1	1
		2000..	14 758	662 516	11 878	24 402	487 502	2 103 697	3 918 114	6 028 565	1	1
		1999..	16 168	687 678	13 019	25 987	498 745	2 108 713	3 688 910	5 810 350	1	1
		1998..	16 317	730 453	13 098	26 621	524 792	2 299 357	3 912 975	6 211 867	1	1
		1997..	15 763	707 402	12 624	26 074	512 941	2 432 972	3 706 850	6 224 610	X	X
331314	Secondary smelting & alloying of aluminum	2001..	7 308	258 967	5 504	11 115	171 789	742 090	2 565 895	3 325 045	5	7
		2000..	7 634	263 449	5 800	11 789	177 705	799 625	2 931 930	3 744 074	3	6
		1999..	7 380	252 856	5 678	12 069	167 914	803 893	2 792 435	3 577 417	2	7
		1998..	6 918	237 122	5 391	11 996	161 364	873 707	2 698 716	3 566 237	1	6
		1997..	6 614	226 469	5 036	10 930	149 770	796 535	2 799 262	3 595 436	X	X
331315	Aluminum sheet, plate, & foil mfg	2001..	20 232	979 373	15 391	32 067	674 367	2 715 805	8 619 257	11 524 873	3	2
		2000..	21 556	1 050 856	16 554	34 608	735 805	3 207 594	9 592 467	12 817 393	3	1
		1999..	22 332	1 072 817	17 162	36 615	745 351	5 251 638	7 642 456	12 814 130	3	1
		1998..	23 416	1 083 592	17 831	38 522	736 990	4 459 105	8 498 568	13 054 353	1	1
		1997..	24 709	1 175 506	19 015	41 140	818 202	3 546 870	10 076 298	13 708 307	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
331	Primary metal mfg—Con.											
3313	Alumina & aluminum production & processing—Con.											
33131	Alumina & aluminum production & processing—Con.											
331316	Aluminum extruded product mfg	2001..	29 249	999 665	23 237	48 805	660 314	2 197 451	3 335 375	5 538 762	2	2
		2000..	30 752	1 042 595	24 675	52 054	707 941	2 564 455	3 524 130	6 086 513	1	2
		1999..	30 727	1 007 963	24 508	51 103	682 713	2 544 127	3 368 317	5 914 592	1	2
		1998..	31 690	1 001 575	25 803	52 270	691 486	2 540 236	3 570 602	6 170 183	1	1
		1997..	30 357	944 829	24 556	52 804	661 814	2 476 351	3 742 324	6 177 701	X	X
331319	Other aluminum rolling & drawing	2001..	3 785	121 575	2 908	5 616	81 329	372 151	908 685	1 309 686	3	5
		2000..	4 153	142 195	3 272	6 430	99 834	507 330	1 109 471	1 610 980	3	5
		1999..	4 007	141 038	3 191	6 648	100 009	456 570	1 023 663	1 482 989	1	5
		1998..	4 115	142 485	3 265	6 960	102 636	542 575	1 038 980	1 586 426	1	1
		1997..	4 009	140 134	3 156	6 540	99 588	481 782	1 153 523	1 625 168	X	X
3314	Nonferrous metal (except aluminum) production & processing	2001..	67 779	2 767 555	49 023	102 981	1 799 042	7 881 140	13 680 862	21 617 836	3	4
		2000..	72 793	2 933 094	53 189	113 228	1 958 768	9 001 095	15 900 383	24 904 050	2	3
		1999..	73 505	2 913 914	54 485	117 766	1 948 792	8 800 283	17 317 802	25 921 043	2	2
		1998..	80 519	3 062 091	60 215	127 645	2 051 831	9 745 247	19 210 179	28 990 718	1	1
		1997..	81 162	3 048 301	60 466	130 927	2 050 452	9 598 600	19 838 235	29 616 370	X	X
33141	Nonferrous metal (except aluminum) smelting & refining	2001..	11 888	543 420	8 178	17 365	341 164	2 052 560	3 384 095	5 418 328	6	5
		2000..	12 802	557 450	8 926	18 987	358 555	2 269 582	3 925 489	6 172 231	6	5
		1999..	13 703	573 105	9 900	21 783	378 717	2 050 939	5 803 928	7 797 368	3	2
		1998..	16 102	628 798	11 675	25 421	424 960	2 469 228	6 498 857	8 975 322	1	1
		1997..	16 568	651 108	12 234	26 895	441 795	2 455 517	6 977 108	9 530 263	X	X
331411	Primary smelting & refining of copper	2001..	3 404	143 051	2 635	5 790	105 444	936 750	1 930 389	2 787 309	1	1
		2000..	3 605	156 482	2 691	5 913	114 090	997 712	2 404 917	3 378 211	1	1
		1999..	4 744	193 262	3 565	7 538	142 516	804 172	3 947 000	4 709 764	1	1
		1998..	6 539	249 314	5 000	11 174	188 795	987 607	4 598 402	5 608 129	1	1
		1997..	7 360	287 382	5 721	12 640	218 511	1 029 440	5 010 388	6 128 370	X	X
331419	Other nonferrous metal primary smelting & refining	2001..	8 484	400 369	5 543	11 576	235 720	1 115 810	1 453 705	2 631 019	8	9
		2000..	9 197	400 968	6 235	13 074	244 464	1 271 870	1 520 572	2 794 020	8	8
		1999..	8 959	379 842	6 335	14 244	236 201	1 246 767	1 856 928	3 087 604	4	3
		1998..	9 563	379 484	6 674	14 246	236 164	1 481 621	1 900 455	3 367 193	1	2
		1997..	9 208	363 726	6 513	14 255	223 284	1 426 077	1 966 720	3 401 893	X	X
33142	Copper rolling, drawing, extruding, & alloying	2001..	23 969	919 689	18 093	37 841	618 030	2 414 467	5 324 102	7 840 463	2	2
		2000..	25 824	991 706	19 739	43 057	688 705	3 067 698	6 652 435	9 714 322	2	2
		1999..	25 356	963 053	19 507	42 269	668 952	2 950 742	6 112 920	9 056 277	2	2
		1998..	27 874	1 020 359	21 847	45 894	713 956	3 019 928	6 695 493	9 743 085	1	2
		1997..	27 583	996 132	21 275	46 338	695 579	2 951 706	6 834 865	9 800 616	X	X
331421	Copper rolling, drawing, & extruding	2001..	18 159	707 074	14 118	29 545	495 364	1 877 129	4 358 296	6 328 676	2	2
		2000..	19 810	771 658	15 555	34 110	555 753	2 448 912	5 410 816	7 861 787	1	1
		1999..	19 796	768 986	15 634	34 030	552 008	2 426 213	4 913 857	7 327 314	1	2
		1998..	21 112	798 339	16 867	35 624	580 381	2 333 827	5 204 899	7 551 082	1	1
		1997..	21 012	780 787	16 504	36 325	564 338	2 303 999	5 306 797	7 619 953	X	X
331422	Copper wire (except mechanical) drawing	2001..	3 952	133 305	2 824	5 832	83 618	357 607	421 065	781 947	9	8
		2000..	3 953	135 454	2 851	6 106	87 157	433 043	488 775	915 068	9	11
		1999..	3 493	110 208	2 489	5 333	71 938	363 153	407 660	774 539	10	6
		1998..	4 476	132 770	3 428	6 891	85 684	378 141	662 505	1 050 400	3	17
		1997..	4 238	124 240	3 191	6 593	82 651	324 392	659 613	983 284	X	X
331423	Secondary smelting, refining, & alloying of copper	2001..	1 859	79 309	1 151	2 464	39 048	179 732	544 740	729 840	4	8
		2000..	2 061	84 593	1 334	2 842	45 794	185 744	752 843	937 467	3	8
		1999..	2 066	83 859	1 385	2 906	45 006	161 377	791 402	954 425	3	9
		1998..	2 285	89 251	1 552	3 379	47 891	307 960	828 089	1 141 602	2	1
		1997..	2 333	91 105	1 580	3 420	48 590	323 315	868 455	1 197 379	X	X
33149	Other nonferrous metal rolling, drawing, extruding, & alloying	2001..	31 922	1 304 446	22 752	47 776	839 849	3 414 113	4 972 665	8 359 044	5	9
		2000..	34 167	1 383 939	24 523	51 184	911 509	3 663 815	5 322 459	9 017 497	4	7
		1999..	34 446	1 377 756	25 078	53 714	901 123	3 798 601	5 400 954	9 067 398	3	5
		1998..	36 544	1 412 933	26 693	56 330	912 916	4 256 091	6 015 829	10 272 312	1	1
		1997..	37 011	1 401 061	26 957	57 694	913 078	4 191 377	6 026 262	10 285 491	X	X
331491	Other nonferrous metal rolling, drawing, & extruding	2001..	22 319	922 970	15 806	33 018	600 198	2 400 488	3 198 770	5 593 237	3	3
		2000..	23 828	972 723	17 050	35 325	651 453	2 522 655	3 561 543	6 103 571	2	2
		1999..	24 432	976 845	17 651	37 921	642 605	2 579 078	3 651 889	6 192 238	2	2
		1998..	25 581	997 651	18 685	39 156	647 863	3 051 813	4 001 655	7 049 867	1	1
		1997..	25 484	977 877	18 616	40 298	643 810	2 982 604	4 013 631	7 057 705	X	X
331492	Other nonferrous metal secondary smelting, refining, & alloying	2001..	9 603	381 476	6 945	14 757	239 651	1 013 625	1 773 896	2 765 807	15	30
		2000..	10 338	411 216	7 473	15 859	260 056	1 141 160	1 760 915	2 913 926	11	23
		1999..	10 013	400 912	7 427	15 794	258 518	1 219 523	1 749 065	2 875 160	11	16
		1998..	10 963	415 282	8 008	17 174	265 052	1 204 278	2 014 174	3 222 445	1	2
		1997..	11 527	423 184	8 341	17 396	269 268	1 208 773	2 012 631	3 227 786	X	X
3315	Foundries	2001..	199 343	7 357 104	163 505	342 161	5 455 387	16 203 518	11 693 291	27 975 357	2	2
		2000..	216 883	7 910 221	178 982	376 576	5 946 978	17 539 490	12 340 631	29 811 521	1	1
		1999..	222 130	7 876 467	183 050	382 133	5 886 937	17 806 502	12 136 520	29 860 573	1	1
		1998..	223 436	7 706 861	184 442	380 575	5 741 377	17 333 526	12 135 434	29 344 378	2	1
		1997..	225 361	7 506 166	185 036	387 108	5 587 283	16 892 552	12 218 670	29 051 043	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
331	Primary metal mfg—Con.											
3315	Foundries—Con.											
33151	Ferrous metal foundries	2001..	115 459	4 569 037	94 664	199 090	3 462 975	9 688 265	6 939 224	16 667 860	2	2
		2000..	124 895	4 926 928	102 847	218 822	3 786 653	10 775 068	7 224 288	17 969 989	1	1
		1999..	129 184	4 890 198	106 498	225 833	3 726 176	10 972 715	7 044 140	17 996 005	1	1
		1998..	127 298	4 699 658	105 697	221 974	3 583 940	10 503 722	6 826 842	17 301 635	3	2
		1997..	131 574	4 630 562	108 523	229 689	3 520 853	10 449 320	7 018 088	17 428 045	X	X
331511	Iron foundries	2001..	73 680	3 115 479	61 544	128 343	2 407 052	6 444 506	4 896 667	11 337 467	2	3
		2000..	80 233	3 388 118	67 186	143 061	2 657 235	7 367 171	5 057 240	12 402 877	2	2
		1999..	82 711	3 348 621	68 963	148 342	2 598 517	7 354 541	4 913 084	12 260 295	1	2
		1998..	80 456	3 185 121	67 615	144 684	2 474 145	7 008 027	4 918 438	11 901 857	4	3
		1997..	85 429	3 211 357	70 950	153 103	2 476 238	7 043 449	5 144 588	12 187 267	X	X
331512	Steel investment foundries	2001..	21 950	727 690	17 183	36 783	526 036	1 844 862	965 055	2 814 833	1	2
		2000..	22 318	741 660	17 521	36 564	542 010	1 849 679	935 005	2 795 735	1	1
		1999..	22 521	723 523	18 049	36 331	526 901	1 857 538	856 089	2 718 757	1	2
		1998..	22 282	707 848	18 063	35 367	526 073	1 732 756	711 634	2 445 360	4	2
		1997..	22 673	669 452	18 385	36 870	494 655	1 656 130	715 264	2 341 737	X	X
331513	Steel foundries (except investment)	2001..	19 828	725 868	15 937	33 964	529 886	1 398 897	1 077 502	2 515 560	4	4
		2000..	22 344	797 149	18 140	39 197	587 408	1 558 218	1 232 044	2 771 377	3	3
		1999..	23 952	818 054	19 486	41 160	600 757	1 760 636	1 274 967	3 016 953	3	3
		1998..	24 560	806 689	20 019	41 923	583 722	1 762 940	1 196 770	2 954 419	1	1
		1997..	23 472	749 753	19 188	39 716	549 960	1 749 741	1 158 236	2 899 041	X	X
33152	Nonferrous metal foundries	2001..	83 883	2 788 068	68 841	143 071	1 992 412	6 515 253	4 754 066	11 307 497	3	3
		2000..	91 989	2 983 293	76 136	157 754	2 160 325	6 764 423	5 116 343	11 841 533	3	3
		1999..	92 946	2 986 269	76 552	156 300	2 160 761	6 833 788	5 092 380	11 864 568	2	2
		1998..	96 138	3 007 203	78 745	158 601	2 157 437	6 829 803	5 308 592	12 042 743	1	2
		1997..	93 787	2 875 604	76 513	157 419	2 066 430	6 443 232	5 200 582	11 622 998	X	X
331521	Aluminum die-casting foundries	2001..	25 046	893 872	20 443	43 594	665 889	2 001 325	1 755 780	3 781 033	6	7
		2000..	27 726	917 334	23 119	47 989	702 221	2 100 460	1 868 509	3 959 509	5	7
		1999..	27 534	936 373	22 929	48 014	707 829	2 061 915	1 780 759	3 809 045	3	4
		1998..	28 067	931 554	23 196	47 781	689 706	2 116 946	1 908 736	3 963 483	2	3
		1997..	27 516	899 544	22 771	47 159	675 908	1 967 631	1 874 589	3 843 845	X	X
331522	Nonferrous (except aluminum) die-casting foundries	2001..	15 213	471 685	11 841	24 431	317 953	1 030 298	785 551	1 836 464	5	4
		2000..	15 981	501 250	12 858	26 576	351 455	1 143 926	846 823	1 989 578	4	4
		1999..	16 669	501 675	13 416	26 582	347 452	1 322 282	870 448	2 184 384	3	9
		1998..	17 477	509 048	14 028	26 082	354 189	1 219 647	942 566	2 175 386	3	3
		1997..	16 840	488 196	13 421	26 711	337 972	1 128 064	868 735	1 998 772	X	X
331524	Aluminum foundries (except die-casting)	2001..	30 925	1 011 625	26 251	54 054	734 634	2 391 167	1 596 086	3 994 527	6	5
		2000..	34 726	1 129 387	29 151	59 990	814 887	2 470 359	1 746 597	4 199 736	5	3
		1999..	34 839	1 108 696	28 981	58 722	806 987	2 444 401	1 797 344	4 224 777	5	2
		1998..	35 234	1 056 853	28 891	59 429	766 254	2 288 331	1 756 738	4 050 612	1	1
		1997..	33 768	1 006 954	27 581	57 846	718 127	2 195 343	1 725 459	3 916 527	X	X
331525	Copper foundries (except die-casting)	2001..	8 178	239 019	6 708	13 806	167 080	566 058	349 649	915 331	5	18
		2000..	9 138	267 287	7 551	15 696	189 065	579 788	388 102	965 273	7	10
		1999..	9 341	269 530	7 658	15 432	194 572	555 481	370 685	920 057	5	5
		1998..	9 353	271 763	7 854	15 765	199 780	524 971	346 183	864 496	5	4
		1997..	8 868	258 151	7 388	14 997	191 431	511 783	339 705	846 578	X	X
331528	Other nonferrous foundries (except die-casting)	2001..	4 521	171 867	3 597	7 186	106 856	526 406	267 000	780 143	12	4
		2000..	4 418	168 035	3 457	7 502	102 697	469 890	266 312	727 437	9	5
		1999..	4 564	169 994	3 568	7 550	103 921	449 708	273 144	726 305	8	4
		1998..	6 008	237 985	4 777	9 544	147 507	679 907	354 368	988 765	9	12
		1997..	6 795	222 759	5 352	10 706	142 992	640 411	392 094	1 017 276	X	X
332	Fabricated metal product mfg	2001..	1 724 693	59 569 462	1 296 005	2 602 415	37 880 635	138 792 716	113 469 863	253 113 355	1	1
		2000..	1 814 906	62 421 772	1 375 118	2 756 662	40 071 886	148 874 745	120 605 881	268 212 002	1	1
		1999..	1 795 909	60 055 114	1 352 873	2 737 440	38 404 126	142 248 693	115 256 788	257 071 635	1	1
		1998..	1 811 231	59 343 525	1 370 317	2 808 130	38 061 171	139 741 081	114 554 012	253 720 456	1	1
		1997..	1 763 772	56 631 583	1 327 053	2 674 948	36 251 771	133 493 077	110 067 843	242 813 453	X	X
3321	Forging & stamping	2001..	157 863	5 592 104	118 705	239 447	3 579 047	12 105 388	12 408 239	24 601 038	1	2
		2000..	166 400	5 992 500	127 587	265 750	3 926 622	14 304 447	13 432 142	27 619 768	1	2
		1999..	163 122	5 721 192	123 900	256 287	3 720 873	13 303 144	12 773 779	26 147 029	1	1
		1998..	163 571	5 737 171	124 881	262 889	3 731 305	13 076 527	12 614 959	25 645 686	1	1
		1997..	158 944	5 461 638	121 141	254 289	3 565 677	12 458 562	12 039 551	24 375 589	X	X
33211	Forging & stamping	2001..	157 863	5 592 104	118 705	239 447	3 579 047	12 105 388	12 408 239	24 601 038	1	2
		2000..	166 400	5 992 500	127 587	265 750	3 926 622	14 304 447	13 432 142	27 619 768	1	2
		1999..	163 122	5 721 192	123 900	256 287	3 720 873	13 303 144	12 773 779	26 147 029	1	1
		1998..	163 571	5 737 171	124 881	262 889	3 731 305	13 076 527	12 614 959	25 645 686	1	1
		1997..	158 944	5 461 638	121 141	254 289	3 565 677	12 458 562	12 039 551	24 375 589	X	X
332111	Iron & steel forging	2001..	25 375	1 011 951	18 543	38 273	654 786	2 167 202	2 599 461	4 763 949	4	4
		2000..	26 046	1 031 933	19 297	40 758	694 373	2 344 414	2 504 093	4 834 975	3	2
		1999..	25 929	1 017 222	19 407	40 780	683 860	2 285 771	2 419 465	4 743 533	3	2
		1998..	28 404	1 133 210	21 224	44 929	748 963	2 656 789	2 708 535	5 378 169	2	2
		1997..	26 156	1 020 473	19 766	42 001	687 494	2 423 265	2 482 765	4 869 727	X	X
332112	Nonferrous forging	2001..	10 417	411 113	7 713	16 249	274 730	1 081 772	1 034 608	2 077 698	4	4
		2000..	9 942	402 535	7 573	15 430	271 629	1 045 692	997 340	2 032 686	3	3
		1999..	9 558	377 637	7 181	14 176	248 595	1 031 784	953 516	1 987 063	2	3
		1998..	9 258	353 955	7 026	14 761	242 438	999 364	855 104	1 845 332	1	1
		1997..	8 991	363 301	6 850	15 270	254 379	991 288	856 947	1 838 385	X	X
332114	Custom roll forming	2001..	15 561	532 460	11 622	23 178	332 734	1 334 971	2 136 340	3 481 054	3	6
		2000..	16 240	557 869	12 150	24 665	350 428	1 421 158	2 382 813	3 783 951	3	5
		1999..	15 978	541 722	11 880	24 268	337 901	1 431 408	2 181 814	3 624 374	2	3
		1998..	15 538	542 067	11 077	23 779	332 709	1 304 404	2 180 582	3 483 675	2	6
		1997..	15 852	522 950	11 370	23 765	314 799	1 343 729	1 992 247	3 301 907	X	X
332115	Crown & closure mfg	2001..	4 526	158 874	3 357	6 330	107 342	359 052	519 950	889 625	11	13
		2000..	4 294	166 007	3 355	7 160	115 725	343 009	541 148	887 715	6	5
		1999..	4 107	158 597	3 461	7 521	119 444	329 043	565 114	896 325	1	1
		1998..	3 757	155 817	3 251	7 619	116 521	426 200	502 947	923 589	20	4
		1997..	4 576	161 511	3 787	7 949	120 527	430 618	519 503	953 864	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
332	Fabricated metal product mfg—Con.											
3321	Forging & stamping—Con.											
33211	Forging & stamping—Con.											
332116	Metal stamping	2001..	91 183	3 079 598	69 762	140 112	1 971 039	6 474 328	5 546 216	12 113 492	2	3
		2000..	98 575	3 413 207	76 978	160 686	2 235 191	8 326 083	6 381 795	14 621 475	1	3
		1999..	96 713	3 231 147	73 967	152 500	2 084 809	7 388 409	6 040 742	13 418 964	1	2
		1998..	95 402	3 159 060	74 085	154 658	2 042 318	6 856 422	5 791 217	12 614 240	1	2
		1997..	92 511	3 022 396	71 443	148 535	1 950 581	6 471 538	5 637 898	12 078 985	X	X
332117	Powder metallurgy part mfg	2001..	10 802	398 108	7 707	15 306	238 417	688 062	571 664	1 275 219	11	17
		2000..	11 302	420 950	8 234	17 050	259 277	824 090	624 953	1 458 966	11	10
		1999..	10 837	394 867	8 005	17 043	246 263	836 729	613 127	1 476 771	8	10
		1998..	11 212	393 062	8 218	17 143	248 355	833 348	576 575	1 400 680	1	1
		1997..	10 858	371 007	7 925	16 769	237 897	798 124	550 191	1 332 721	X	X
3322	Cutlery & handtool mfg	2001..	69 741	2 440 920	50 955	100 713	1 474 969	7 516 898	4 364 399	11 916 385	1	2
		2000..	77 403	2 649 110	57 231	114 609	1 642 955	8 122 317	4 453 667	12 577 702	1	2
		1999..	78 780	2 608 331	58 971	118 335	1 630 475	7 865 341	4 429 160	12 271 314	1	2
		1998..	77 814	2 575 141	58 753	118 692	1 579 371	7 501 331	4 203 178	11 706 180	1	1
		1997..	77 337	2 484 032	57 934	116 634	1 540 077	7 483 422	4 020 780	11 475 344	X	X
33221	Cutlery & handtool mfg	2001..	69 741	2 440 920	50 955	100 713	1 474 969	7 516 898	4 364 399	11 916 385	1	2
		2000..	77 403	2 649 110	57 231	114 609	1 642 955	8 122 317	4 453 667	12 577 702	1	2
		1999..	78 780	2 608 331	58 971	118 335	1 630 475	7 865 341	4 429 160	12 271 314	1	2
		1998..	77 814	2 575 141	58 753	118 692	1 579 371	7 501 331	4 203 178	11 706 180	1	1
		1997..	77 337	2 484 032	57 934	116 634	1 540 077	7 483 422	4 020 780	11 475 344	X	X
332211	Cutlery & flatware (except precious) mfg	2001..	8 791	317 499	7 069	14 557	218 716	1 934 250	481 437	2 409 192	5	1
		2000..	9 490	332 873	7 597	15 505	225 919	1 804 011	481 849	2 304 847	3	1
		1999..	9 760	341 475	7 900	16 625	230 217	1 526 542	503 719	2 026 236	3	2
		1998..	10 233	336 432	8 010	15 172	220 280	1 544 937	526 271	2 081 366	1	1
		1997..	10 301	331 471	8 091	15 550	219 765	1 565 685	487 348	2 013 256	X	X
332212	Hand & edge tool mfg	2001..	47 219	1 632 462	34 291	66 510	971 381	4 115 713	2 714 829	6 851 608	2	3
		2000..	52 204	1 774 205	38 472	74 721	1 085 539	4 634 064	2 759 105	7 375 433	1	2
		1999..	53 188	1 739 315	39 735	76 887	1 076 854	4 655 685	2 708 716	7 325 089	1	2
		1998..	51 362	1 709 131	38 868	78 135	1 033 598	4 354 960	2 578 184	6 921 129	2	2
		1997..	50 598	1 639 098	37 657	76 023	1 004 772	4 296 327	2 420 554	6 713 485	X	X
332213	Saw blade & handsaw mfg	2001..	8 873	315 972	5 973	12 301	170 317	904 268	589 311	1 478 013	5	6
		2000..	9 724	343 403	6 703	14 016	196 054	995 544	595 053	1 590 993	5	6
		1999..	9 344	320 927	6 589	14 135	188 523	957 605	566 520	1 525 660	4	5
		1998..	9 168	312 386	6 464	13 214	180 770	939 943	552 267	1 474 946	2	3
		1997..	9 127	300 001	6 596	13 759	179 674	878 749	554 627	1 447 890	X	X
332214	Kitchen utensil, pot, & pan mfg	2001..	4 857	174 987	3 622	7 344	114 555	562 667	578 822	1 177 572	4	14
		2000..	5 986	198 629	4 459	10 367	135 443	688 698	617 660	1 306 429	3	15
		1999..	6 488	206 614	4 747	10 689	134 881	725 509	650 205	1 394 329	2	14
		1998..	7 050	217 193	5 412	12 171	144 723	661 491	546 455	1 228 739	2	5
		1997..	7 311	213 462	5 590	11 302	135 866	742 661	558 251	1 300 713	X	X
3323	Architectural & structural metals mfg	2001..	403 507	13 314 192	296 839	595 046	8 141 820	30 921 373	30 599 232	61 666 331	1	1
		2000..	418 378	13 621 184	308 177	621 206	8 419 151	32 294 735	31 898 843	63 906 242	1	1
		1999..	411 100	12 933 311	300 880	618 083	7 925 135	30 307 162	30 175 439	60 302 744	1	1
		1998..	396 089	12 255 149	290 203	597 725	7 513 222	28 291 405	29 043 429	57 175 435	1	1
		1997..	381 573	11 447 903	278 403	563 624	6 983 127	26 495 235	27 299 174	53 547 213	X	X
33231	Plate work & fabricated structural product mfg	2001..	151 340	5 290 513	109 692	222 750	3 211 697	12 596 265	13 639 611	26 272 371	1	2
		2000..	153 768	5 279 242	111 562	226 308	3 210 867	13 094 244	14 400 222	27 394 251	1	2
		1999..	155 526	5 161 236	112 377	231 151	3 133 990	12 619 891	13 958 061	26 513 296	2	2
		1998..	148 496	4 797 731	106 878	215 180	2 937 237	11 537 877	13 659 595	25 163 782	1	1
		1997..	144 843	4 528 931	104 954	213 352	2 754 793	10 810 136	12 913 525	23 574 845	X	X
332311	Prefabricated metal building & component mfg	2001..	27 189	829 364	18 305	37 134	465 302	2 196 284	2 651 836	4 859 958	4	6
		2000..	28 797	900 354	19 510	40 566	500 977	2 446 279	2 954 079	5 404 201	3	6
		1999..	28 456	886 457	19 334	41 296	493 567	2 384 340	2 960 392	5 345 134	3	4
		1998..	26 465	835 808	17 661	38 237	468 534	2 230 044	2 745 871	4 947 086	5	5
		1997..	27 167	798 192	18 698	37 575	453 021	1 992 908	2 713 236	4 686 554	X	X
332312	Fabricated structural metal mfg	2001..	100 082	3 618 299	73 291	146 992	2 197 357	8 648 665	9 677 703	18 341 278	2	2
		2000..	99 080	3 506 224	72 160	144 535	2 135 994	8 791 216	10 140 225	18 846 454	2	2
		1999..	101 721	3 443 692	73 550	149 560	2 095 071	8 464 096	9 751 324	18 159 840	2	3
		1998..	96 408	3 149 886	69 830	136 023	1 955 793	7 755 884	9 598 554	17 335 832	1	1
		1997..	92 471	2 942 908	67 051	138 360	1 799 845	7 263 292	8 960 125	16 115 143	X	X
332313	Plate work mfg	2001..	24 068	842 849	18 097	38 624	549 038	1 751 317	1 310 073	3 071 135	4	5
		2000..	25 891	872 665	19 892	41 207	573 896	1 856 749	1 305 918	3 143 597	3	4
		1999..	25 349	831 087	19 493	40 296	545 352	1 771 456	1 246 345	3 008 323	2	5
		1998..	25 624	812 038	19 388	40 920	512 910	1 551 950	1 315 170	2 880 864	2	2
		1997..	25 205	787 831	19 205	37 417	501 927	1 553 936	1 240 164	2 773 148	X	X
33232	Ornamental & architectural metal products mfg	2001..	252 167	8 023 679	187 146	372 296	4 930 123	18 325 108	16 959 621	35 393 960	1	2
		2000..	264 610	8 341 941	196 615	394 898	5 208 283	19 200 491	17 498 621	36 511 991	1	1
		1999..	255 574	7 772 075	188 503	386 932	4 791 144	17 687 271	16 217 378	33 789 448	1	1
		1998..	247 592	7 457 418	183 324	382 545	4 575 984	16 753 528	15 383 834	32 011 654	1	1
		1997..	236 730	6 918 972	173 449	350 272	4 228 334	15 685 099	14 385 649	29 972 368	X	X
332321	Metal window & door mfg	2001..	82 774	2 342 529	60 194	123 915	1 411 085	5 787 050	6 309 308	12 125 223	2	3
		2000..	84 330	2 339 825	61 491	127 365	1 438 950	5 739 253	6 259 853	11 994 226	2	3
		1999..	83 063	2 242 494	59 904	125 337	1 374 201	5 490 609	6 004 134	11 493 351	1	2
		1998..	77 916	2 121 416	57 031	126 885	1 255 210	5 117 058	5 948 655	11 035 318	1	2
		1997..	74 063	1 941 363	53 359	110 089	1 146 743	4 775 082	5 452 511	10 209 522	X	X
332322	Sheet metal work mfg	2001..	131 901	4 473 349	99 935	195 512	2 806 170	9 712 747	8 196 219	17 992 422	2	2
		2000..	142 652	4 809 509	107 785	211 189	3 068 164	10 722 544	8 845 185	19 417 681	2	2
		1999..	134 155	4 389 549	100 674	203 624	2 749 283	9 600 373	7 938 663	17 445 535	2	2
		1998..	133 229	4 255 130	99 662	201 019	2 664 399	9 283 760	7 360 108	16 569 419	1	1
		1997..	127 791	3 991 922	95 091	190 440	2 481 680	8 660 105	7 000 352	15 584 570	X	X
332323	Ornamental & architectural metal work mfg	2001..	37 492	1 207 801	27 018	52 869	712 868	2 825 311	2 454 094	5 276 315	3	4
		2000..	37 629	1 192 607	27 339	56 343	701 169	2 738 693	2 393 583	5 100 083	3	3
		1999..	38 356	1 140 032	27 925	57 972	667 661	2 596 289	2 274 581	4 850 562	3	4
		1998..	36 447	1 080 872	26 631	54 641	656 375	2 352 709	2 075 071	4 406 917	1	2
		1997..	34 876	985 687	24 999	49 743	599 911	2 249 912	1 932 786	4 178 276	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees		Production workers			Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column—	
			Number[1]	Payroll ($1,000)	Number[1]	Hours (1,000)	Wages ($1,000)					
			A	B	C	D	E	F	G	H	A	F
332	Fabricated metal product mfg—Con.											
3324	Boiler, tank, & shipping container mfg	2001..	91 485	3 510 468	69 876	143 060	2 365 372	9 551 474	12 599 913	22 272 295	2	1
		2000..	96 269	3 648 732	73 296	152 330	2 440 811	9 604 211	13 129 826	22 626 802	2	1
		1999..	101 408	3 806 097	76 834	159 399	2 552 524	9 399 022	13 391 420	22 879 636	1	1
		1998..	102 038	3 779 201	77 876	163 944	2 540 058	9 688 546	13 809 571	23 409 352	1	1
		1997..	102 191	3 675 396	77 575	161 221	2 517 902	8 927 099	13 889 768	22 714 389	X	X
33241	Power boiler & heat exchanger mfg	2001..	25 867	917 399	18 680	37 087	572 884	2 040 752	1 991 174	4 043 145	3	4
		2000..	26 695	930 366	18 863	37 507	565 578	2 024 706	1 966 806	3 989 040	3	4
		1999..	26 789	940 570	19 072	37 967	568 906	2 017 768	1 893 889	3 935 170	3	4
		1998..	28 604	999 352	20 591	42 841	608 412	2 226 085	1 977 808	4 159 324	2	3
		1997..	27 576	947 859	19 629	41 076	579 159	2 073 515	1 820 863	3 867 379	X	X
332410	Power boiler & heat exchanger mfg	2001..	25 867	917 399	18 680	37 087	572 884	2 040 752	1 991 174	4 043 145	3	4
		2000..	26 695	930 366	18 863	37 507	565 578	2 024 706	1 966 806	3 989 040	3	4
		1999..	26 789	940 570	19 072	37 967	568 906	2 017 768	1 893 889	3 935 170	3	4
		1998..	28 604	999 352	20 591	42 841	608 412	2 226 085	1 977 808	4 159 324	2	3
		1997..	27 576	947 859	19 629	41 076	579 159	2 073 515	1 820 863	3 867 379	X	X
33242	Metal tank (heavy gauge) mfg	2001..	28 458	1 087 451	20 592	41 396	667 786	2 567 559	1 963 932	4 524 336	4	3
		2000..	30 432	1 168 146	22 046	45 990	719 438	2 478 746	2 223 135	4 672 076	4	3
		1999..	33 414	1 228 442	24 054	49 597	761 627	2 482 507	2 363 291	4 890 993	3	3
		1998..	32 556	1 155 777	23 643	48 789	706 162	2 494 459	2 316 133	4 800 714	2	3
		1997..	33 300	1 129 336	23 961	48 872	697 464	2 394 902	2 320 414	4 703 647	X	X
332420	Metal tank (heavy gauge) mfg	2001..	28 458	1 087 451	20 592	41 396	667 786	2 567 559	1 963 932	4 524 336	4	3
		2000..	30 432	1 168 146	22 046	45 990	719 438	2 478 746	2 223 135	4 672 076	4	3
		1999..	33 414	1 228 442	24 054	49 597	761 627	2 482 507	2 363 291	4 890 993	3	3
		1998..	32 556	1 155 777	23 643	48 789	706 162	2 494 459	2 316 133	4 800 714	2	3
		1997..	33 300	1 129 336	23 961	48 872	697 464	2 394 902	2 320 414	4 703 647	X	X
33243	Metal can, box, & other metal container (light gauge) mfg	2001..	37 161	1 505 618	30 604	64 576	1 124 702	4 943 163	8 644 807	13 704 813	3	1
		2000..	39 142	1 550 220	32 386	68 834	1 155 795	5 100 759	8 939 885	13 965 686	2	1
		1999..	41 205	1 637 086	33 709	71 835	1 221 991	4 898 747	9 134 241	14 053 473	2	1
		1998..	40 879	1 624 072	33 642	72 314	1 225 485	4 968 001	9 515 630	14 449 314	1	1
		1997..	41 315	1 598 201	33 985	71 273	1 241 279	4 458 682	9 748 491	14 143 363	X	X
332431	Metal can mfg	2001..	23 115	1 055 636	19 657	42 451	833 346	3 983 355	7 496 306	11 592 498	2	1
		2000..	23 581	1 048 702	20 265	44 180	830 385	4 006 675	7 646 133	11 581 061	2	1
		1999..	24 557	1 109 274	21 018	46 790	886 740	3 802 582	7 707 878	11 528 153	1	1
		1998..	25 098	1 124 249	21 539	46 229	902 479	3 812 529	8 118 457	11 878 080	1	1
		1997..	26 747	1 167 821	22 613	48 349	960 601	3 497 960	8 495 802	11 930 448	X	X
332439	Other metal container mfg	2001..	14 045	449 982	10 947	22 125	291 356	959 808	1 148 501	2 112 315	5	4
		2000..	15 562	501 518	12 121	24 653	325 410	1 094 084	1 293 752	2 384 625	5	4
		1999..	16 648	527 811	12 690	25 045	335 251	1 096 165	1 426 363	2 525 320	3	3
		1998..	15 780	499 822	12 103	26 085	323 005	1 155 472	1 397 173	2 571 234	2	2
		1997..	14 568	430 380	11 372	22 924	280 678	960 722	1 252 689	2 212 915	X	X
3325	Hardware mfg	2001..	65 394	2 156 089	49 167	95 304	1 301 349	6 000 592	4 839 576	10 942 297	3	2
		2000..	71 749	2 336 764	55 026	107 238	1 447 199	6 744 131	5 285 380	11 994 257	2	2
		1999..	70 844	2 284 950	54 004	108 403	1 413 520	6 633 140	4 862 668	11 408 920	2	1
		1998..	73 075	2 273 941	56 646	112 796	1 458 140	6 041 868	4 920 229	11 058 137	1	2
		1997..	75 437	2 327 164	58 122	116 400	1 516 675	6 162 972	4 937 806	11 061 736	X	X
33251	Hardware mfg	2001..	65 394	2 156 089	49 167	95 304	1 301 349	6 000 592	4 839 576	10 942 297	3	2
		2000..	71 749	2 336 764	55 026	107 238	1 447 199	6 744 131	5 285 380	11 994 257	2	2
		1999..	70 844	2 284 950	54 004	108 403	1 413 520	6 633 140	4 862 668	11 408 920	2	1
		1998..	73 075	2 273 941	56 646	112 796	1 458 140	6 041 868	4 920 229	11 058 137	1	2
		1997..	75 437	2 327 164	58 122	116 400	1 516 675	6 162 972	4 937 806	11 061 736	X	X
332510	Hardware mfg	2001..	65 394	2 156 089	49 167	95 304	1 301 349	6 000 592	4 839 576	10 942 297	3	2
		2000..	71 749	2 336 764	55 026	107 238	1 447 199	6 744 131	5 285 380	11 994 257	2	2
		1999..	70 844	2 284 950	54 004	108 403	1 413 520	6 633 140	4 862 668	11 408 920	2	1
		1998..	73 075	2 273 941	56 646	112 796	1 458 140	6 041 868	4 920 229	11 058 137	1	2
		1997..	75 437	2 327 164	58 122	116 400	1 516 675	6 162 972	4 937 806	11 061 736	X	X
3326	Spring & wire product mfg	2001..	65 800	1 958 627	51 671	101 279	1 285 583	4 584 484	3 792 324	8 440 116	3	2
		2000..	73 831	2 161 722	58 158	115 072	1 432 584	5 149 047	4 213 429	9 286 418	2	2
		1999..	71 826	2 071 250	56 928	112 793	1 375 066	5 182 943	4 106 929	9 223 097	2	2
		1998..	71 581	2 067 379	55 616	112 121	1 376 563	5 079 136	4 363 935	9 427 438	2	3
		1997..	70 193	1 906 503	54 573	107 575	1 246 096	4 540 614	4 011 204	8 533 707	X	X
33261	Spring & wire product mfg	2001..	65 800	1 958 627	51 671	101 279	1 285 583	4 584 484	3 792 324	8 440 116	3	2
		2000..	73 831	2 161 722	58 158	115 072	1 432 584	5 149 047	4 213 429	9 286 418	2	2
		1999..	71 826	2 071 250	56 928	112 793	1 375 066	5 182 943	4 106 929	9 223 097	2	2
		1998..	71 581	2 067 379	55 616	112 121	1 376 563	5 079 136	4 363 935	9 427 438	2	3
		1997..	70 193	1 906 503	54 573	107 575	1 246 096	4 540 614	4 011 204	8 533 707	X	X
332611	Spring (heavy gauge) mfg	2001..	5 478	200 640	3 974	7 997	129 211	455 419	480 026	953 772	5	6
		2000..	5 871	211 502	4 332	8 999	139 022	470 242	478 436	938 050	4	5
		1999..	5 718	199 268	4 339	9 290	133 866	468 232	478 531	954 011	3	2
		1998..	6 144	215 557	4 805	10 392	156 516	482 009	515 805	1 006 494	1	5
		1997..	5 581	183 180	4 284	9 112	127 591	422 894	428 345	845 199	X	X
332612	Spring (light gauge) mfg	2001..	19 120	602 530	15 143	30 474	423 147	1 440 940	1 094 038	2 535 359	4	5
		2000..	20 194	639 486	16 056	33 249	448 882	1 572 794	1 129 715	2 674 610	3	4
		1999..	20 267	623 071	16 295	32 532	433 357	1 616 910	1 062 763	2 668 371	3	3
		1998..	20 013	613 324	16 182	31 525	421 128	1 510 869	1 226 757	2 724 177	3	3
		1997..	18 798	564 372	15 128	30 374	389 840	1 393 527	1 089 676	2 481 151	X	X
332618	Other fabricated wire product mfg	2001..	41 202	1 155 456	32 554	62 808	733 226	2 688 125	2 218 260	4 950 984	4	3
		2000..	47 766	1 310 734	37 770	72 824	844 680	3 106 011	2 605 279	5 673 759	3	3
		1999..	45 841	1 248 910	36 294	70 971	807 844	3 097 802	2 565 634	5 600 715	2	3
		1998..	45 424	1 238 498	34 629	70 205	798 920	3 086 257	2 621 373	5 696 767	2	4
		1997..	45 814	1 158 951	35 161	68 089	728 665	2 724 193	2 493 183	5 207 357	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees		Production workers			Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column—	
			Number[1]	Payroll ($1,000)	Number[1]	Hours (1,000)	Wages ($1,000)					
			A	B	C	D	E	F	G	H	A	F
332	Fabricated metal product mfg—Con.											
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2001..	417 586	14 738 910	321 559	647 101	9 859 758	29 152 591	15 641 050	44 981 623	1	1
		2000..	429 966	15 322 384	335 465	657 430	10 329 325	31 302 547	16 674 945	47 776 971	1	1
		1999..	423 983	14 522 375	327 888	650 881	9 754 859	29 291 468	15 633 305	44 860 899	1	1
		1998..	440 840	14 611 494	344 197	705 611	9 800 012	29 104 841	15 398 692	44 389 234	1	3
		1997..	423 004	14 029 104	328 147	648 019	9 352 536	28 535 557	14 980 584	43 362 901	X	X
33271	Machine shops	2001..	293 733	10 191 690	224 688	448 207	6 800 942	19 447 300	9 743 244	29 217 073	2	2
		2000..	298 630	10 407 675	232 827	442 844	6 999 591	20 551 822	10 143 482	30 495 354	1	2
		1999..	291 482	9 744 727	224 846	434 099	6 540 368	18 833 831	9 252 810	27 995 426	1	2
		1998..	303 126	9 844 537	236 351	477 156	6 581 055	18 283 952	8 777 876	27 006 257	1	4
		1997..	289 437	9 446 782	224 717	426 909	6 306 733	18 330 482	8 610 590	26 850 065	X	X
332710	Machine shops	2001..	293 733	10 191 690	224 688	448 207	6 800 942	19 447 300	9 743 244	29 217 073	2	2
		2000..	298 630	10 407 675	232 827	442 844	6 999 591	20 551 822	10 143 482	30 495 354	1	2
		1999..	291 482	9 744 727	224 846	434 099	6 540 368	18 833 831	9 252 810	27 995 426	1	2
		1998..	303 126	9 844 537	236 351	477 156	6 581 055	18 283 952	8 777 876	27 006 257	1	4
		1997..	289 437	9 446 782	224 717	426 909	6 306 733	18 330 482	8 610 590	26 850 065	X	X
33272	Turned product & screw, nut, & bolt mfg	2001..	123 853	4 547 221	96 871	198 894	3 058 816	9 705 290	5 897 806	15 764 549	2	2
		2000..	131 336	4 914 709	102 638	214 586	3 329 734	10 750 725	6 531 463	17 281 617	1	1
		1999..	132 501	4 777 648	103 042	216 782	3 214 491	10 457 637	6 380 496	16 865 473	1	1
		1998..	137 714	4 766 957	107 846	228 455	3 218 957	10 820 889	6 620 816	17 382 977	1	1
		1997..	133 567	4 582 322	103 430	221 110	3 045 803	10 205 075	6 369 994	16 512 836	X	X
332721	Precision turned product mfg	2001..	71 709	2 557 064	57 220	116 877	1 759 844	5 082 694	2 514 964	7 655 096	2	2
		2000..	77 833	2 792 494	62 088	128 985	1 940 175	5 737 521	2 836 909	8 561 233	2	2
		1999..	77 165	2 690 491	61 164	128 295	1 845 941	5 477 671	2 717 212	8 210 666	1	2
		1998..	81 380	2 720 775	65 412	139 258	1 887 873	5 732 751	2 872 322	8 616 746	2	3
		1997..	80 225	2 629 738	63 556	136 140	1 809 381	5 493 232	2 846 618	8 304 805	X	X
332722	Bolt, nut, screw, rivet, & washer mfg	2001..	52 145	1 990 156	39 651	82 017	1 298 972	4 622 596	3 382 842	8 109 453	3	3
		2000..	53 504	2 122 215	40 550	85 601	1 389 560	5 013 204	3 694 554	8 720 384	2	2
		1999..	55 336	2 087 157	41 878	88 487	1 368 550	4 979 966	3 663 284	8 654 807	3	2
		1998..	56 334	2 046 182	42 434	89 197	1 331 084	5 088 138	3 748 493	8 766 232	1	1
		1997..	53 342	1 952 584	39 874	84 970	1 236 422	4 711 843	3 523 376	8 208 031	X	X
3328	Coating, engraving, heat treating, & allied activities	2001..	148 800	4 718 532	116 956	236 491	3 112 726	10 408 005	8 060 874	18 551 822	2	2
		2000..	159 007	5 029 218	126 055	250 664	3 313 907	11 488 059	8 663 483	19 998 051	2	2
		1999..	155 060	4 780 284	123 493	249 276	3 159 461	10 925 135	8 147 709	18 987 545	1	1
		1998..	159 122	4 817 728	126 288	252 310	3 166 710	10 921 473	7 944 256	18 875 151	1	1
		1997..	152 884	4 513 791	119 722	239 975	2 928 348	10 331 294	7 621 520	17 956 236	X	X
33281	Coating, engraving, heat treating, & allied activities	2001..	148 800	4 718 532	116 956	236 491	3 112 726	10 408 005	8 060 874	18 551 822	2	2
		2000..	159 007	5 029 218	126 055	250 664	3 313 907	11 488 059	8 663 483	19 998 051	2	2
		1999..	155 060	4 780 284	123 493	249 276	3 159 461	10 925 135	8 147 709	18 987 545	1	1
		1998..	159 122	4 817 728	126 288	252 310	3 166 710	10 921 473	7 944 256	18 875 151	1	1
		1997..	152 884	4 513 791	119 722	239 975	2 928 348	10 331 294	7 621 520	17 956 236	X	X
332811	Metal heat treating	2001..	21 749	804 691	16 419	33 269	532 531	1 828 835	1 848 880	3 742 481	4	4
		2000..	23 094	866 071	17 421	34 973	573 435	2 272 568	1 914 283	4 054 137	3	4
		1999..	23 368	847 732	17 959	36 936	567 520	2 095 213	1 499 365	3 587 353	4	3
		1998..	23 482	872 238	18 568	38 366	587 024	2 126 774	1 425 012	3 558 439	3	4
		1997..	22 299	789 233	17 171	35 106	519 823	2 020 611	1 438 026	3 442 317	X	X
332812	Metal coating/engraving (exc jewelry/silverware)/allied services	2001..	56 959	1 816 434	44 885	90 903	1 224 637	4 540 753	4 355 748	8 914 709	3	3
		2000..	60 625	1 888 437	48 230	96 366	1 268 976	4 699 371	4 715 995	9 391 855	3	3
		1999..	59 361	1 809 333	47 518	96 591	1 224 956	4 557 498	4 782 629	9 263 889	3	2
		1998..	60 476	1 764 582	47 995	94 453	1 180 639	4 594 054	4 711 871	9 295 323	1	1
		1997..	55 954	1 634 627	44 418	89 740	1 093 781	4 154 477	4 354 598	8 515 488	X	X
332813	Electroplating, plating, polishing, anodizing, & coloring	2001..	70 092	2 097 407	55 652	112 318	1 355 558	4 038 417	1 856 246	5 894 632	2	2
		2000..	75 287	2 274 710	60 403	119 325	1 471 497	4 516 120	2 033 205	6 552 060	2	2
		1999..	72 330	2 123 218	58 016	115 749	1 366 984	4 272 424	1 865 715	6 136 303	2	1
		1998..	75 163	2 180 909	59 725	119 490	1 399 046	4 200 645	1 807 373	6 021 389	1	1
		1997..	74 631	2 089 931	58 133	115 129	1 314 744	4 156 206	1 828 896	5 998 431	X	X
3329	Other fabricated metal product mfg	2001..	304 517	11 139 621	220 279	443 974	6 760 012	28 551 911	21 164 256	49 741 450	1	1
		2000..	321 903	11 660 158	234 125	472 365	7 119 331	29 865 250	22 854 166	52 425 790	1	1
		1999..	319 787	11 327 325	229 976	463 982	6 872 213	29 341 340	21 736 379	50 990 451	1	1
		1998..	327 102	11 226 321	235 857	482 042	6 895 792	30 035 954	22 255 762	52 033 841	1	1
		1997..	322 209	10 786 052	231 436	467 211	6 601 333	28 558 322	21 267 456	49 786 338	X	X
33291	Metal valve mfg	2001..	115 448	4 361 079	79 025	160 435	2 484 738	12 396 973	9 364 599	21 751 667	1	1
		2000..	121 193	4 493 060	84 237	173 167	2 586 205	12 752 924	9 836 624	22 364 553	1	1
		1999..	122 517	4 438 399	84 312	171 054	2 520 930	12 487 649	9 340 728	21 752 145	1	1
		1998..	127 695	4 492 996	87 752	182 471	2 576 363	13 304 989	10 121 641	23 278 410	1	2
		1997..	126 245	4 364 424	86 465	178 808	2 491 566	12 516 090	9 444 017	21 983 284	X	X
332911	Industrial valve mfg	2001..	50 340	1 953 860	33 189	68 698	1 087 604	5 423 493	3 924 598	9 322 915	1	2
		2000..	52 561	2 011 652	34 657	73 634	1 111 121	5 451 967	4 101 422	9 455 660	2	2
		1999..	53 549	2 014 647	35 080	72 726	1 092 803	5 358 761	3 913 462	9 230 593	1	1
		1998..	56 237	2 055 360	36 625	76 413	1 119 923	5 664 582	4 259 696	9 940 675	2	2
		1997..	54 294	1 947 182	35 367	72 721	1 050 155	5 115 344	3 781 002	8 965 193	X	X
332912	Fluid power valve & hose fitting mfg	2001..	35 845	1 380 161	24 353	49 080	756 191	3 644 170	2 599 969	6 250 889	2	2
		2000..	37 826	1 431 692	26 454	53 554	812 215	3 975 319	2 812 521	6 744 959	2	2
		1999..	37 872	1 417 801	26 183	53 059	790 253	3 828 566	2 680 005	6 497 610	1	2
		1998..	38 757	1 398 063	27 292	57 011	800 832	4 073 068	2 826 616	6 833 307	1	1
		1997..	37 280	1 327 456	25 734	53 998	750 942	3 934 823	2 657 535	6 594 554	X	X
332913	Plumbing fixture fitting & trim mfg	2001..	13 188	462 391	9 695	19 452	295 917	1 925 280	1 684 029	3 602 556	5	4
		2000..	14 750	498 706	11 171	22 003	322 649	1 905 999	1 806 055	3 655 555	2	4
		1999..	14 781	463 810	10 938	21 197	303 299	1 845 852	1 686 795	3 512 801	2	3
		1998..	15 651	499 276	11 430	23 429	309 340	2 034 278	1 826 171	3 854 646	2	13
		1997..	16 133	498 551	11 635	23 691	314 181	1 863 303	1 781 273	3 616 737	X	X
332919	Other metal valve & pipe fitting mfg	2001..	16 075	564 666	11 788	23 205	345 026	1 404 030	1 156 004	2 575 307	5	3
		2000..	16 055	551 011	11 956	23 976	340 220	1 419 639	1 116 626	2 508 379	4	4
		1999..	16 316	542 140	12 111	24 072	334 575	1 454 469	1 060 466	2 511 141	3	3
		1998..	17 051	540 297	12 405	25 619	346 268	1 533 061	1 209 157	2 649 782	3	5
		1997..	18 538	591 235	13 729	28 398	376 288	1 602 620	1 224 207	2 806 800	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
332	Fabricated metal product mfg—Con.											
3329	Other fabricated metal product mfg—Con.											
33299	All other fabricated metal product mfg	2001	189 070	6 778 542	141 254	283 539	4 275 274	16 154 938	11 799 657	27 989 782	2	2
		2000	200 710	7 167 097	149 887	299 198	4 533 126	17 112 326	13 017 542	30 061 237	1	2
		1999	197 270	6 888 926	145 664	292 928	4 351 283	16 853 691	12 395 651	29 238 306	1	1
		1998	199 406	6 733 325	148 105	299 570	4 319 429	16 730 965	12 134 122	28 755 431	1	1
		1997	195 964	6 421 628	144 971	288 403	4 109 767	16 042 232	11 823 439	27 803 054	X	X
332991	Ball & roller bearing mfg	2001	32 222	1 332 692	26 290	53 298	986 401	3 007 605	2 111 269	5 186 089	3	7
		2000	35 727	1 459 948	29 222	58 557	1 089 824	3 390 832	2 570 401	6 048 302	1	6
		1999	35 964	1 427 753	29 441	60 337	1 071 778	3 600 290	2 489 701	6 082 524	1	1
		1998	36 948	1 402 650	30 299	63 380	1 053 824	3 849 296	2 388 387	6 157 867	1	1
		1997	36 547	1 368 804	29 827	63 026	1 033 718	3 742 916	2 363 496	6 093 840	X	X
332992	Small arms ammunition mfg	2001	6 947	258 054	5 239	10 691	176 602	697 575	425 328	1 139 560	2	1
		2000	7 222	277 847	5 556	10 813	193 642	603 224	456 922	1 032 798	2	2
		1999	7 235	277 616	5 546	11 448	188 719	672 898	437 722	1 124 881	1	1
		1998	7 145	257 981	5 464	10 898	172 800	631 022	370 920	1 018 425	1	1
		1997	7 135	254 731	5 386	10 669	172 743	610 244	374 810	976 944	X	X
332993	Ammunition (except small arms) mfg	2001	5 738	245 369	3 414	5 662	95 192	625 611	201 036	828 986	13	3
		2000	7 324	323 088	3 811	6 599	107 380	696 462	418 144	1 129 448	6	3
		1999	8 335	341 551	4 308	7 714	119 190	794 968	471 809	1 254 391	4	3
		1998	9 487	381 724	4 900	8 715	137 652	840 242	579 145	1 447 099	1	1
		1997	9 281	371 808	4 872	8 787	137 493	834 457	610 634	1 471 101	X	X
332994	Small arms mfg	2001	9 413	314 053	6 950	13 107	192 878	975 694	421 577	1 384 581	3	4
		2000	9 755	331 957	7 350	13 690	208 131	956 084	445 617	1 371 300	2	4
		1999	9 826	325 358	7 371	13 874	202 339	925 923	422 963	1 356 265	2	2
		1998	9 616	321 025	7 155	14 042	198 231	855 183	395 624	1 249 508	1	1
		1997	9 841	319 663	7 451	13 966	200 190	860 866	369 988	1 248 048	X	X
332995	Other ordnance & accessories mfg	2001	6 971	366 142	2 705	5 139	132 923	873 328	399 960	1 246 622	3	2
		2000	7 114	362 510	2 657	5 227	129 730	879 806	370 063	1 249 673	3	2
		1999	8 362	383 873	2 927	6 110	145 552	937 871	402 015	1 360 896	3	2
		1998	8 722	377 751	3 664	6 489	165 332	1 078 062	371 623	1 459 584	1	1
		1997	8 545	362 201	3 465	6 423	155 572	1 021 358	354 734	1 362 401	X	X
332996	Fabricated pipe & pipe fitting mfg	2001	31 938	1 045 414	24 767	50 821	694 716	2 527 776	2 232 391	4 742 793	5	4
		2000	32 009	1 012 752	24 638	50 365	661 593	2 471 103	2 171 276	4 621 619	4	3
		1999	30 416	953 968	23 243	47 218	618 354	2 288 260	2 005 780	4 281 482	3	3
		1998	30 096	931 846	23 310	48 662	614 536	2 180 545	2 025 526	4 205 266	3	2
		1997	29 746	879 723	22 565	46 037	573 134	2 104 979	2 038 910	4 118 699	X	X
332997	Industrial pattern mfg	2001	7 081	274 720	5 914	12 081	213 216	486 669	144 344	635 762	4	5
		2000	7 629	290 335	6 495	13 415	225 604	523 351	147 830	675 897	4	5
		1999	7 367	287 147	6 131	12 471	220 259	485 538	137 313	626 045	2	2
		1998	8 101	317 545	6 805	13 703	251 983	508 668	136 450	604 700	4	8
		1997	7 952	284 879	6 512	12 561	218 077	483 129	140 481	623 605	X	X
332998	Enameled iron & metal sanitary ware mfg	2001	9 965	357 611	6 954	14 238	199 465	978 579	658 125	1 659 151	3	2
		2000	10 275	365 769	7 029	14 088	205 744	1 031 388	673 694	1 686 042	3	2
		1999	9 535	350 814	6 516	13 565	198 066	1 004 246	598 226	1 594 156	3	2
		1998	9 947	321 355	7 853	15 740	215 635	1 013 983	621 366	1 630 497	1	1
		1997	9 792	275 889	7 700	15 115	179 923	969 728	600 546	1 553 730	X	X
332999	All other miscellaneous fabricated metal product mfg	2001	78 794	2 584 487	59 021	118 504	1 583 881	5 982 100	5 205 627	11 166 238	3	2
		2000	83 655	2 742 891	63 130	126 445	1 711 479	6 560 076	5 763 594	12 246 159	3	2
		1999	80 229	2 540 846	60 179	120 191	1 587 027	6 143 697	5 430 122	11 557 668	3	2
		1998	79 345	2 421 448	58 655	117 942	1 509 437	5 773 964	5 245 082	10 982 486	1	1
		1997	77 125	2 303 930	57 193	111 819	1 438 917	5 414 555	4 969 840	10 354 686	X	X
333	Machinery mfg	2001	1 314 727	52 844 134	844 059	1 684 530	27 413 602	131 103 431	132 801 489	266 552 878	1	1
		2000	1 396 397	55 965 719	914 999	1 832 362	29 767 872	146 053 941	146 949 821	291 547 704	1	1
		1999	1 401 751	54 339 741	919 055	1 844 267	29 089 077	139 610 563	136 961 026	276 901 166	1	1
		1998	1 433 463	54 038 645	943 806	1 909 536	29 731 818	141 268 757	139 876 936	280 650 973	1	1
		1997	1 420 512	53 012 226	936 047	1 895 580	29 106 922	137 934 706	133 291 232	270 687 165	X	X
3331	Agriculture, construction, & mining machinery mfg	2001	185 840	7 270 952	127 238	250 429	4 134 775	20 929 189	28 665 774	49 858 717	1	1
		2000	197 213	7 391 883	136 672	269 653	4 338 601	21 113 032	30 410 362	51 516 584	1	1
		1999	197 865	7 322 390	137 679	267 017	4 302 440	20 217 745	28 454 119	49 016 013	1	1
		1998	211 728	7 873 191	148 675	299 221	4 789 408	26 248 769	31 774 189	57 329 918	1	1
		1997	211 200	7 689 706	148 997	298 556	4 729 479	24 431 912	30 036 282	54 181 573	X	X
33311	Agricultural implement mfg	2001	79 981	2 799 857	59 272	115 231	1 741 686	8 564 885	11 995 031	20 793 261	2	2
		2000	86 692	2 885 654	64 367	123 754	1 800 350	8 223 020	12 640 143	20 839 329	2	2
		1999	85 619	2 849 291	63 939	119 648	1 791 930	8 057 273	11 134 674	19 255 465	1	1
		1998	93 568	3 125 846	70 051	139 672	2 054 900	10 840 789	13 608 785	24 302 937	1	2
		1997	94 711	3 102 280	70 618	140 841	2 058 905	10 355 405	13 187 254	23 371 367	X	X
333111	Farm machinery & equipment mfg	2001	57 690	2 149 188	41 089	79 860	1 323 167	6 303 877	7 647 984	14 059 857	3	3
		2000	61 735	2 190 165	44 316	84 063	1 350 791	5 865 011	7 722 700	13 501 468	2	3
		1999	59 121	2 093 769	42 283	76 503	1 288 780	5 164 796	6 445 669	11 771 572	1	2
		1998	66 312	2 385 716	47 790	95 761	1 542 994	8 080 416	8 508 568	16 527 140	1	2
		1997	66 370	2 370 599	47 885	95 652	1 550 603	7 624 789	8 468 947	15 995 219	X	X
333112	Lawn & garden tractor & home lawn & garden equipment mfg	2001	22 291	650 668	18 183	35 372	418 519	2 261 008	4 347 048	6 733 405	2	1
		2000	24 956	695 489	20 051	39 691	449 559	2 358 010	4 917 443	7 337 860	1	1
		1999	26 499	755 521	21 656	43 146	503 150	2 892 477	4 689 005	7 483 893	1	1
		1998	27 255	740 129	22 261	43 911	511 906	2 760 373	5 100 217	7 775 797	2	1
		1997	28 341	731 681	22 733	45 189	508 302	2 730 616	4 718 307	7 376 148	X	X
33312	Construction machinery mfg	2001	67 129	2 753 485	43 731	85 565	1 539 929	8 373 518	12 095 538	20 587 760	2	2
		2000	72 410	2 913 266	48 649	97 054	1 732 401	9 092 622	13 870 799	22 978 686	2	2
		1999	72 176	2 923 783	48 520	97 259	1 717 093	8 462 693	13 441 165	21 920 703	2	1
		1998	74 353	3 058 775	50 207	101 370	1 799 088	10 503 142	13 867 808	24 022 676	2	1
		1997	74 741	2 990 139	50 448	102 360	1 780 033	9 129 152	12 834 054	22 117 440	X	X
333120	Construction machinery mfg	2001	67 129	2 753 485	43 731	85 565	1 539 929	8 373 518	12 095 538	20 587 760	2	2
		2000	72 410	2 913 266	48 649	97 054	1 732 401	9 092 622	13 870 799	22 978 686	2	2
		1999	72 176	2 923 783	48 520	97 259	1 717 093	8 462 693	13 441 165	21 920 703	2	1
		1998	74 353	3 058 775	50 207	101 370	1 799 088	10 503 142	13 867 808	24 022 676	2	1
		1997	74 741	2 990 139	50 448	102 360	1 780 033	9 129 152	12 834 054	22 117 440	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
333	Machinery mfg—Con.											
3331	Agriculture, construction, & mining machinery mfg—Con.											
33313	Mining & oil & gas field machinery mfg	2001..	38 730	1 717 610	24 236	49 634	853 160	3 990 786	4 575 204	8 477 696	3	3
		2000..	38 111	1 592 963	23 656	48 845	805 850	3 797 391	3 899 420	7 698 570	4	4
		1999..	40 070	1 549 316	25 220	50 109	793 418	3 697 779	3 878 279	7 839 844	3	5
		1998..	43 808	1 688 570	28 417	58 179	935 421	4 904 839	4 297 596	9 004 305	1	1
		1997..	41 748	1 597 287	27 931	55 355	890 541	4 947 355	4 014 974	8 692 766	X	X
333131	Mining machinery & equipment mfg	2001..	11 064	434 624	7 114	14 967	228 192	955 676	1 175 681	2 132 004	3	3
		2000..	11 235	441 842	7 243	15 385	231 528	943 143	1 123 596	2 118 687	3	3
		1999..	12 591	454 710	7 985	16 760	247 001	1 091 294	1 051 056	2 151 209	3	2
		1998..	14 599	520 958	9 540	20 391	292 207	1 490 439	1 543 009	3 003 057	1	2
		1997..	13 507	485 338	9 118	18 939	273 557	1 379 429	1 354 429	2 705 885	X	X
333132	Oil & gas field machinery & equipment mfg	2001..	27 666	1 282 986	17 122	34 666	624 967	3 035 110	3 399 524	6 345 693	5	4
		2000..	26 876	1 151 121	16 413	33 459	574 322	2 854 248	2 775 823	5 579 883	6	5
		1999..	27 479	1 094 605	17 235	33 350	546 417	2 606 485	2 827 223	5 688 636	5	7
		1998..	29 209	1 167 612	18 877	37 788	643 214	3 414 400	2 754 587	6 001 248	1	2
		1997..	28 241	1 111 949	18 813	36 416	616 984	3 567 926	2 660 545	5 986 881	X	X
3332	Industrial machinery mfg	2001..	190 529	8 533 004	105 117	207 901	3 571 960	17 447 927	16 918 856	35 210 863	2	2
		2000..	197 716	9 075 666	112 039	223 177	3 970 101	24 816 170	22 285 423	46 341 693	1	1
		1999..	189 147	8 025 336	107 865	213 742	3 600 382	19 599 058	17 419 419	36 634 865	1	1
		1998..	197 811	7 699 600	110 632	212 532	3 515 105	17 746 170	17 070 461	35 164 994	1	2
		1997..	194 210	7 616 113	110 122	221 832	3 433 183	19 456 056	17 481 244	36 658 714	X	X
33321	Sawmill & woodworking machinery mfg	2001..	7 858	284 440	4 974	9 568	144 996	566 787	480 293	1 054 747	3	4
		2000..	8 803	325 524	5 719	11 346	169 356	705 147	637 913	1 335 455	2	3
		1999..	8 747	311 958	5 521	10 763	157 619	622 095	586 610	1 202 183	2	4
		1998..	9 227	318 015	5 563	11 484	149 311	727 248	590 039	1 299 355	3	8
		1997..	8 973	297 430	5 707	11 527	156 984	681 679	611 849	1 296 200	X	X
333210	Sawmill & woodworking machinery mfg	2001..	7 858	284 440	4 974	9 568	144 996	566 787	480 293	1 054 747	3	4
		2000..	8 803	325 524	5 719	11 346	169 356	705 147	637 913	1 335 455	2	3
		1999..	8 747	311 958	5 521	10 763	157 619	622 095	586 610	1 202 183	2	4
		1998..	9 227	318 015	5 563	11 484	149 311	727 248	590 039	1 299 355	3	8
		1997..	8 973	297 430	5 707	11 527	156 984	681 679	611 849	1 296 200	X	X
33322	Plastics & rubber industry machinery mfg	2001..	16 734	696 109	9 914	20 236	327 458	1 751 818	1 449 504	3 246 911	7	4
		2000..	17 596	759 887	10 827	22 786	381 701	1 783 774	1 962 463	3 662 666	7	5
		1999..	17 304	720 215	10 472	21 264	362 554	1 627 422	1 646 276	3 258 159	3	4
		1998..	18 783	719 535	10 794	21 054	355 305	1 681 726	1 565 041	3 263 727	2	7
		1997..	18 530	741 819	10 427	21 042	349 773	1 950 024	1 652 432	3 570 320	X	X
333220	Plastics & rubber industry machinery mfg	2001..	16 734	696 109	9 914	20 236	327 458	1 751 818	1 449 504	3 246 911	7	4
		2000..	17 596	759 887	10 827	22 786	381 701	1 783 774	1 962 463	3 662 666	7	5
		1999..	17 304	720 215	10 472	21 264	362 554	1 627 422	1 646 276	3 258 159	3	4
		1998..	18 783	719 535	10 794	21 054	355 305	1 681 726	1 565 041	3 263 727	2	7
		1997..	18 530	741 819	10 427	21 042	349 773	1 950 024	1 652 432	3 570 320	X	X
33329	Other industrial machinery mfg	2001..	165 937	7 552 455	90 229	178 097	3 099 506	15 129 323	14 989 059	30 909 204	2	2
		2000..	171 317	7 990 255	95 493	189 045	3 419 043	22 327 249	19 685 047	41 343 572	1	1
		1999..	163 096	6 993 163	91 873	181 716	3 080 209	17 349 541	15 186 533	32 174 523	1	1
		1998..	169 800	6 662 050	94 275	179 994	3 010 489	15 337 196	14 915 382	30 601 912	1	2
		1997..	166 707	6 576 864	93 988	189 263	2 926 426	16 824 353	15 216 963	31 792 194	X	X
333291	Paper industry machinery mfg	2001..	14 735	672 875	7 819	16 026	288 558	1 168 005	1 405 895	2 640 210	6	6
		2000..	15 806	730 890	8 857	18 370	328 605	1 345 992	1 451 342	2 765 899	4	5
		1999..	16 400	739 920	9 044	18 120	331 724	1 369 932	1 549 704	2 941 101	3	4
		1998..	18 539	771 823	10 128	20 466	364 179	1 490 265	1 711 770	3 185 119	1	4
		1997..	18 313	761 458	10 127	20 723	365 303	1 622 283	1 817 466	3 386 920	X	X
333292	Textile machinery mfg	2001..	10 555	370 219	6 596	12 280	176 726	760 738	585 423	1 360 506	5	6
		2000..	12 409	437 542	7 896	15 222	208 707	1 052 631	728 305	1 809 255	4	6
		1999..	12 513	423 082	8 075	15 534	205 991	1 002 749	697 777	1 715 309	3	5
		1998..	12 813	441 680	7 824	15 538	223 160	1 058 716	719 308	1 785 475	7	4
		1997..	13 511	445 381	8 496	16 880	234 110	1 026 304	742 909	1 766 419	X	X
333293	Printing machinery & equipment mfg	2001..	18 249	803 578	10 036	20 189	357 613	1 597 250	1 567 626	3 191 686	3	3
		2000..	20 111	916 693	11 410	23 471	425 856	2 040 205	1 879 014	3 869 047	2	2
		1999..	19 596	865 268	11 050	22 442	396 170	1 917 262	1 645 551	3 605 495	2	2
		1998..	21 140	871 206	11 279	23 347	403 835	2 000 810	1 917 052	3 962 536	2	3
		1997..	22 390	924 863	11 706	24 298	412 907	2 030 816	1 768 141	3 786 716	X	X
333294	Food product machinery mfg	2001..	17 733	704 970	10 382	20 265	325 819	1 410 596	1 264 770	2 707 791	5	6
		2000..	18 376	736 348	10 992	21 719	350 687	1 519 475	1 309 062	2 860 402	4	5
		1999..	19 102	725 190	11 506	22 098	356 461	1 592 849	1 304 218	2 899 710	3	4
		1998..	19 054	728 644	11 371	22 474	363 294	1 596 328	1 320 428	2 906 838	2	5
		1997..	18 898	711 852	11 436	22 511	353 259	1 581 509	1 290 673	2 857 928	X	X
333295	Semiconductor machinery mfg	2001..	50 469	2 784 327	24 709	49 355	969 883	5 647 408	6 050 442	12 206 184	3	3
		2000..	50 430	2 959 863	24 813	49 133	1 102 936	11 636 044	9 802 740	20 807 230	2	2
		1999..	41 586	2 105 480	21 272	42 484	820 369	6 890 869	5 695 986	12 223 500	2	2
		1998..	43 995	1 777 586	23 083	37 177	687 479	4 592 769	5 274 879	10 070 847	1	3
		1997..	40 104	1 702 788	20 918	42 170	611 134	6 010 313	5 358 601	11 162 764	X	X
333298	All other industrial machinery mfg	2001..	54 195	2 216 485	30 686	59 983	980 908	4 545 325	4 114 903	8 802 827	3	3
		2000..	54 185	2 208 920	31 526	61 130	1 002 252	4 732 902	4 514 583	9 231 740	3	5
		1999..	53 899	2 134 222	30 925	61 038	969 494	4 575 881	4 293 297	8 789 408	2	4
		1998..	54 259	2 071 112	30 590	60 992	968 542	4 598 307	3 971 946	8 691 096	2	3
		1997..	53 491	2 030 522	31 305	62 681	949 713	4 553 128	4 239 173	8 831 447	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
333	Machinery mfg—Con.											
3333	Commercial & service industry machinery mfg	2001..	113 251	4 372 612	63 533	125 229	1 782 596	11 813 788	10 386 800	22 323 771	3	2
		2000..	117 999	4 481 745	67 029	133 538	1 867 780	14 315 220	10 463 600	24 787 165	2	1
		1999..	129 479	4 774 988	74 243	146 497	2 013 305	15 228 360	11 750 491	27 261 360	1	2
		1998..	129 557	4 694 721	76 962	151 874	2 093 311	15 212 505	11 860 301	27 001 384	1	1
		1997..	129 691	4 698 826	76 013	147 775	2 064 248	14 215 075	11 730 134	26 009 857	X	X
33331	Commercial & service industry machinery mfg	2001..	113 251	4 372 612	63 533	125 229	1 782 596	11 813 788	10 386 800	22 323 771	3	2
		2000..	117 999	4 481 745	67 029	133 538	1 867 780	14 315 220	10 463 600	24 787 165	2	1
		1999..	129 479	4 774 988	74 243	146 497	2 013 305	15 228 360	11 750 491	27 261 360	1	2
		1998..	129 557	4 694 721	76 962	151 874	2 093 311	15 212 505	11 860 301	27 001 384	1	1
		1997..	129 691	4 698 826	76 013	147 775	2 064 248	14 215 075	11 730 134	26 009 857	X	X
333311	Automatic vending machine mfg	2001..	8 122	266 016	5 765	10 920	129 306	594 664	666 631	1 292 965	8	11
		2000..	8 456	277 723	6 048	12 110	142 128	657 010	716 570	1 406 335	3	4
		1999..	9 477	261 928	6 880	13 416	151 473	725 056	698 097	1 443 084	5	3
		1998..	8 806	224 858	6 658	13 932	133 160	669 420	786 022	1 444 002	2	6
		1997..	8 220	216 397	6 047	12 310	123 726	604 438	718 270	1 327 998	X	X
333312	Commercial laundry, drycleaning, & pressing machine mfg	2001..	3 497	116 897	2 523	4 735	67 082	268 552	327 079	593 877	5	5
		2000..	3 543	115 048	2 589	4 756	67 214	244 533	349 289	594 038	5	4
		1999..	4 204	129 929	3 023	5 792	79 611	268 017	359 261	636 072	4	5
		1998..	4 434	134 405	3 251	6 716	83 835	300 100	330 806	633 138	1	1
		1997..	4 523	136 783	3 328	6 864	84 584	270 351	334 781	604 939	X	X
333313	Office machinery mfg	2001..	9 794	344 046	4 495	9 164	124 128	1 403 553	1 631 042	3 071 508	7	6
		2000..	11 090	350 871	4 563	9 413	122 439	1 403 710	1 319 103	2 710 684	5	6
		1999..	13 063	409 343	5 984	11 870	140 940	1 466 469	1 268 276	2 993 324	5	13
		1998..	13 403	434 135	6 099	12 119	143 556	1 733 627	1 333 297	3 064 717	3	1
		1997..	14 586	452 165	6 913	13 513	160 785	1 807 173	1 341 894	3 162 823	X	X
333314	Optical instrument & lens mfg	2001..	21 378	940 935	11 197	23 092	357 137	1 977 188	908 241	2 891 146	14	7
		2000..	20 308	922 524	10 927	22 864	338 720	2 331 705	1 147 103	3 462 650	9	5
		1999..	23 398	948 190	12 393	25 152	372 493	2 295 676	1 335 860	3 595 653	4	8
		1998..	20 397	841 457	12 323	25 463	381 460	2 103 949	1 098 470	3 194 775	3	2
		1997..	20 351	812 428	12 093	23 790	354 212	1 979 483	1 185 260	3 139 837	X	X
333315	Photographic & photocopying equipment mfg	2001..	13 346	539 777	7 757	14 747	234 719	2 071 577	1 487 724	3 567 101	4	3
		2000..	15 749	640 189	9 090	18 055	289 458	3 550 722	1 913 715	5 462 564	3	2
		1999..	19 750	876 772	11 783	21 828	386 636	5 141 481	3 238 682	8 396 680	2	1
		1998..	23 611	1 030 362	14 383	26 698	456 699	5 192 134	3 613 046	8 809 396	1	1
		1997..	24 143	1 074 710	14 397	26 024	482 750	4 478 703	3 774 865	8 290 986	X	X
333319	Other commercial & service industry machinery mfg	2001..	57 114	2 164 940	31 795	62 572	870 224	5 498 254	5 366 081	10 907 174	2	3
		2000..	58 854	2 175 391	33 812	66 341	907 821	6 127 540	5 017 820	11 150 893	1	2
		1999..	59 588	2 148 826	34 181	68 440	882 152	5 331 660	4 850 315	10 196 547	1	2
		1998..	58 906	2 029 504	34 248	66 947	894 601	5 213 274	4 698 659	9 855 357	2	2
		1997..	57 868	2 006 343	33 235	65 274	858 191	5 074 927	4 375 064	9 483 274	X	X
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	2001..	172 430	5 745 326	125 859	256 703	3 434 081	15 855 116	16 989 142	33 138 663	2	2
		2000..	184 276	6 119 339	137 607	274 749	3 707 559	16 825 681	18 107 577	34 823 823	1	1
		1999..	180 399	5 810 285	135 008	268 811	3 528 929	16 962 327	17 674 769	34 472 098	1	1
		1998..	174 324	5 504 294	129 989	258 533	3 390 489	15 513 404	17 279 275	32 950 165	1	1
		1997..	174 136	5 344 894	128 068	258 208	3 212 188	14 637 803	15 989 951	30 791 331	X	X
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	2001..	172 430	5 745 326	125 859	256 703	3 434 081	15 855 116	16 989 142	33 138 663	2	2
		2000..	184 276	6 119 339	137 607	274 749	3 707 559	16 825 681	18 107 577	34 823 823	1	1
		1999..	180 399	5 810 285	135 008	268 811	3 528 929	16 962 327	17 674 769	34 472 098	1	1
		1998..	174 324	5 504 294	129 989	258 533	3 390 489	15 513 404	17 279 275	32 950 165	1	1
		1997..	174 136	5 344 894	128 068	258 208	3 212 188	14 637 803	15 989 951	30 791 331	X	X
333411	Air purification equipment mfg	2001..	15 380	468 588	10 923	21 623	258 678	995 746	965 296	1 960 924	4	4
		2000..	15 760	482 694	11 226	22 978	271 402	1 111 943	929 992	2 021 789	3	4
		1999..	15 901	445 450	11 294	23 031	245 509	1 169 922	898 660	2 061 759	3	4
		1998..	16 270	464 383	12 247	23 916	275 209	1 324 168	976 619	2 302 053	1	4
		1997..	16 447	479 162	11 628	23 179	263 390	1 199 939	1 006 932	2 218 051	X	X
333412	Industrial & commercial fan & blower mfg	2001..	13 701	487 257	9 822	19 717	286 118	1 088 832	933 966	2 038 365	4	4
		2000..	15 122	510 939	11 079	21 089	305 899	1 172 163	1 012 825	2 192 520	4	3
		1999..	15 656	513 224	11 076	22 401	302 025	1 178 784	904 747	2 089 822	4	3
		1998..	14 534	476 050	10 347	19 985	282 475	958 866	933 817	1 901 657	4	8
		1997..	13 706	431 622	9 384	19 317	245 078	1 003 573	893 815	1 899 077	X	X
333414	Heating equipment (except warm air furnaces) mfg	2001..	24 472	838 998	16 136	32 007	428 232	2 148 175	1 937 387	4 113 880	3	3
		2000..	26 010	857 834	17 324	33 538	435 655	2 320 046	2 014 847	4 315 407	3	3
		1999..	24 880	808 546	16 734	32 491	413 398	2 237 244	1 869 179	4 099 822	3	2
		1998..	23 510	719 194	15 400	30 039	354 384	1 964 955	1 632 354	3 738 536	4	6
		1997..	24 597	755 114	16 088	31 910	375 893	2 068 353	1 650 129	3 707 615	X	X
333415	AC & warm air heating & commercial/industrial refrig equip mfg	2001..	118 876	3 950 483	88 978	183 355	2 461 054	11 622 363	13 152 494	25 025 493	2	2
		2000..	127 384	4 267 872	97 978	197 144	2 694 603	12 221 528	14 149 913	26 294 108	2	1
		1999..	123 962	4 043 064	95 904	190 888	2 567 997	12 376 376	14 002 184	26 220 695	1	1
		1998..	120 011	3 844 667	91 994	184 594	2 478 421	11 265 416	13 736 485	25 007 918	1	1
		1997..	119 386	3 678 996	90 968	183 802	2 327 827	10 365 938	12 439 075	22 966 588	X	X
3335	Metalworking machinery mfg	2001..	217 671	9 055 259	153 000	313 046	5 524 528	16 029 917	10 176 526	26 683 824	1	1
		2000..	236 355	10 042 698	169 247	347 400	6 306 235	19 274 139	11 633 998	30 951 134	1	1
		1999..	239 862	9 835 871	171 942	356 967	6 193 363	18 419 666	11 259 233	29 792 603	1	1
		1998..	247 187	10 002 017	177 330	372 005	6 347 735	19 239 800	11 471 621	30 702 945	1	2
		1997..	242 963	9 827 519	174 485	364 407	6 260 795	19 331 066	11 304 821	30 417 553	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
333	Machinery mfg—Con.											
3335	Metalworking machinery mfg—Con.											
33351	Metalworking machinery mfg	2001..	217 671	9 055 259	153 000	313 046	5 524 528	16 029 917	10 176 526	26 683 824	1	1
		2000..	236 355	10 042 698	169 247	347 400	6 306 235	19 274 139	11 633 998	30 951 134	1	1
		1999..	239 862	9 835 871	171 942	356 967	6 193 363	18 419 666	11 259 233	29 792 603	1	1
		1998..	247 187	10 002 017	177 330	372 005	6 347 735	19 239 800	11 471 621	30 702 945	1	2
		1997..	242 963	9 827 519	174 485	364 407	6 260 795	19 331 066	11 304 821	30 417 553	X	X
333511	Industrial mold mfg	2001..	45 494	1 964 270	35 849	74 527	1 360 388	3 382 366	1 406 183	4 862 576	3	3
		2000..	49 895	2 182 870	39 798	82 891	1 540 363	4 034 818	1 558 303	5 595 265	3	4
		1999..	50 789	2 120 867	40 372	83 164	1 498 204	3 933 905	1 515 720	5 384 416	2	3
		1998..	48 931	2 072 760	38 630	84 072	1 472 716	3 842 416	1 408 129	5 195 019	1	3
		1997..	48 113	2 067 403	37 989	81 290	1 471 899	3 685 924	1 411 514	5 087 422	X	X
333512	Machine tool (metal cutting types) mfg	2001..	21 635	1 035 209	11 643	23 843	441 646	1 699 437	2 236 113	4 090 063	5	5
		2000..	24 859	1 152 937	13 939	28 766	539 012	2 175 278	2 510 456	4 694 858	4	4
		1999..	25 497	1 159 444	14 889	30 177	540 117	2 081 018	2 483 463	4 601 568	3	4
		1998..	27 539	1 196 365	15 972	32 382	592 461	2 410 231	2 866 757	5 244 020	2	3
		1997..	29 577	1 274 460	17 051	35 366	629 388	2 666 276	2 813 536	5 331 245	X	X
333513	Machine tool (metal forming types) mfg	2001..	11 660	504 362	7 154	14 798	269 582	961 184	758 445	1 784 936	4	5
		2000..	13 310	598 408	8 622	17 957	335 652	1 248 095	938 389	2 169 364	3	4
		1999..	13 529	596 008	8 723	18 007	329 977	1 274 523	909 853	2 190 749	2	3
		1998..	15 154	640 710	9 578	19 016	364 273	1 439 622	951 104	2 308 868	2	4
		1997..	14 141	596 804	9 092	18 745	344 827	1 285 781	958 357	2 247 954	X	X
333514	Special die & tool, die set, jig, & fixture mfg	2001..	71 838	2 854 081	54 319	111 701	1 966 394	5 025 579	2 165 214	7 270 423	2	2
		2000..	77 987	3 234 362	59 970	121 590	2 255 752	5 933 600	2 611 579	8 565 823	2	2
		1999..	80 159	3 227 356	61 050	128 635	2 255 323	5 813 268	2 415 382	8 225 288	1	2
		1998..	82 269	3 274 181	63 722	135 185	2 277 350	5 952 449	2 388 790	8 366 502	1	2
		1997..	79 994	3 226 074	62 075	128 703	2 259 920	5 938 346	2 381 528	8 237 755	X	X
333515	Cutting tool & machine tool accessory mfg	2001..	43 263	1 568 873	30 386	60 335	968 307	3 146 248	1 582 651	4 766 063	2	3
		2000..	46 182	1 721 515	32 653	65 404	1 066 846	3 685 178	1 945 275	5 597 631	2	2
		1999..	45 898	1 634 654	32 487	66 504	1 030 321	3 299 257	1 882 503	5 197 795	2	2
		1998..	49 706	1 712 647	35 823	72 030	1 088 153	3 709 128	1 930 388	5 531 361	1	1
		1997..	48 017	1 644 426	34 725	70 639	1 041 204	3 614 484	1 806 004	5 379 842	X	X
333516	Rolling mill machinery & equipment mfg	2001..	3 025	146 191	1 755	3 586	69 195	242 707	249 911	494 048	18	25
		2000..	3 145	158 046	1 774	3 867	76 103	323 019	259 070	579 250	14	15
		1999..	3 094	127 447	1 573	3 421	55 314	218 117	201 058	429 691	4	7
		1998..	4 290	179 144	2 334	4 711	84 534	342 157	310 221	661 702	3	8
		1997..	4 149	167 312	2 210	4 720	75 166	363 586	323 460	700 084	X	X
333518	Other metalworking machinery mfg	2001..	20 755	982 275	11 894	24 255	449 016	1 572 396	1 778 007	3 415 716	3	3
		2000..	20 977	994 561	12 491	26 924	492 506	1 874 151	1 810 926	3 748 944	3	2
		1999..	20 897	970 094	12 846	27 060	484 106	1 799 579	1 851 254	3 763 096	1	2
		1998..	19 298	926 210	11 270	24 609	468 248	1 543 797	1 616 233	3 395 473	2	15
		1997..	18 972	851 040	11 343	24 944	438 391	1 776 669	1 610 422	3 433 251	X	X
3336	Engine, turbine, & power transmission equipment mfg	2001..	106 759	4 811 215	71 085	140 563	2 689 451	18 962 020	18 277 906	37 230 446	2	2
		2000..	114 061	5 008 653	76 363	153 587	2 873 634	16 078 928	19 271 038	35 045 772	2	2
		1999..	116 434	5 009 441	77 787	159 946	2 901 734	17 013 443	17 972 745	34 836 642	2	1
		1998..	112 399	4 704 387	76 992	158 504	2 870 622	15 106 573	17 527 275	32 513 689	1	1
		1997..	113 802	4 638 042	78 655	158 459	2 815 596	14 530 618	15 730 238	30 508 866	X	X
33361	Engine, turbine, & power transmission equipment mfg	2001..	106 759	4 811 215	71 085	140 563	2 689 451	18 962 020	18 277 906	37 230 446	2	2
		2000..	114 061	5 008 653	76 363	153 587	2 873 634	16 078 928	19 271 038	35 045 772	2	2
		1999..	116 434	5 009 441	77 787	159 946	2 901 734	17 013 443	17 972 745	34 836 642	2	1
		1998..	112 399	4 704 387	76 992	158 504	2 870 622	15 106 573	17 527 275	32 513 689	1	1
		1997..	113 802	4 638 042	78 655	158 459	2 815 596	14 530 618	15 730 238	30 508 866	X	X
333611	Turbine & turbine generator set unit mfg	2001..	19 514	1 109 511	11 841	23 907	568 221	6 329 642	6 325 945	12 449 443	3	3
		2000..	17 646	941 465	9 764	19 741	466 422	3 499 065	4 589 834	7 990 353	3	2
		1999..	19 236	912 358	10 381	21 061	451 120	3 435 840	3 187 974	6 529 890	2	4
		1998..	18 062	837 210	10 049	21 168	436 874	3 234 471	3 152 864	6 338 165	1	2
		1997..	19 529	910 316	11 099	23 488	476 082	2 841 914	2 865 746	5 854 113	X	X
333612	Speed changer, industrial high-speed drive, & gear mfg	2001..	15 540	609 530	10 986	19 876	366 424	1 359 507	822 225	2 189 914	5	6
		2000..	15 477	613 614	10 944	21 034	384 842	1 511 988	959 281	2 476 508	5	5
		1999..	16 011	623 525	11 381	22 773	384 362	1 470 266	952 342	2 467 531	3	5
		1998..	15 784	607 540	11 013	22 373	372 552	1 511 009	952 404	2 442 194	1	1
		1997..	16 182	594 251	11 231	22 744	361 273	1 461 859	935 938	2 391 269	X	X
333613	Mechanical power transmission equipment mfg	2001..	20 071	778 876	13 616	26 534	449 981	1 799 698	1 355 503	3 173 734	3	3
		2000..	21 644	823 347	14 734	28 704	481 526	1 981 821	1 451 355	3 401 142	5	6
		1999..	21 966	782 969	14 923	29 819	466 480	1 902 567	1 405 820	3 301 591	5	4
		1998..	21 713	788 564	15 143	31 044	483 083	1 984 338	1 459 368	3 421 521	1	1
		1997..	21 271	759 037	14 971	30 206	465 440	1 886 164	1 389 199	3 252 399	X	X
333618	Other engine equipment mfg	2001..	51 634	2 313 298	34 642	70 246	1 304 826	9 473 173	9 774 233	19 417 355	3	3
		2000..	59 294	2 630 226	40 921	84 109	1 540 845	9 086 054	12 270 568	21 177 768	2	3
		1999..	59 221	2 690 589	41 102	86 292	1 599 772	10 204 770	12 426 610	22 537 630	2	1
		1998..	56 839	2 471 072	40 786	83 919	1 578 113	8 376 755	11 962 640	20 311 809	1	1
		1997..	56 820	2 374 438	41 354	82 021	1 512 801	8 340 681	10 539 355	19 011 085	X	X
3339	Other general-purpose machinery mfg	2001..	328 248	13 055 765	198 226	390 659	6 276 210	30 065 474	31 386 486	62 106 594	1	1
		2000..	348 775	13 845 735	216 041	430 258	6 703 961	33 630 771	34 777 824	68 081 534	1	1
		1999..	348 564	13 561 430	214 532	431 287	6 548 923	32 169 965	32 430 249	64 887 586	1	1
		1998..	360 458	13 560 436	223 228	456 866	6 725 148	32 201 536	32 893 814	64 987 879	1	1
		1997..	354 510	13 197 126	219 707	446 343	6 591 433	31 332 176	31 018 562	62 119 271	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
333	Machinery mfg—Con.											
3339	Other general-purpose machinery mfg—Con.											
33391	Pump & compressor mfg	2001..	58 876	2 439 279	32 420	64 654	1 095 673	6 794 513	7 228 230	14 097 667	2	3
		2000..	60 721	2 527 064	34 598	69 999	1 148 774	7 470 738	7 699 735	15 163 520	2	3
		1999..	65 035	2 615 179	37 659	74 225	1 190 197	6 891 720	7 261 982	14 353 997	2	1
		1998..	69 611	2 691 140	40 586	82 565	1 286 799	6 907 230	7 738 676	14 686 992	1	4
		1997..	67 263	2 571 850	39 547	80 512	1 234 907	6 640 563	7 120 168	13 683 351	X	X
333911	Pump & pumping equipment mfg	2001..	32 037	1 362 095	17 963	36 535	611 626	3 646 361	3 631 824	7 378 361	4	4
		2000..	33 089	1 409 839	18 532	38 476	631 555	3 889 926	3 743 746	7 629 764	3	3
		1999..	34 840	1 432 074	19 525	39 860	639 052	3 595 170	3 509 380	7 210 159	3	2
		1998..	37 234	1 491 460	21 484	44 374	707 903	3 720 962	3 957 229	7 552 338	1	6
		1997..	36 020	1 402 147	20 774	42 945	663 726	3 403 918	3 345 583	6 735 133	X	X
333912	Air & gas compressor mfg	2001..	21 071	837 703	11 136	21 978	382 233	2 595 442	3 003 827	5 567 201	4	4
		2000..	21 559	884 392	12 465	25 017	410 134	2 941 687	3 298 404	6 229 638	2	5
		1999..	23 348	917 922	13 923	26 551	425 053	2 636 354	2 952 053	5 695 524	2	2
		1998..	25 925	947 337	15 040	30 361	458 434	2 491 696	3 088 249	5 735 735	1	8
		1997..	24 582	925 655	14 532	29 740	452 547	2 646 794	3 072 383	5 651 176	X	X
333913	Measuring & dispensing pump mfg	2001..	5 769	239 481	3 321	6 140	101 814	552 710	592 579	1 152 105	1	2
		2000..	6 074	232 833	3 601	6 506	107 085	639 125	657 586	1 304 118	1	2
		1999..	6 846	265 183	4 211	7 814	126 092	660 197	800 549	1 448 314	1	2
		1998..	6 452	252 342	4 063	7 830	120 462	694 572	693 198	1 398 918	1	1
		1997..	6 661	244 048	4 241	7 827	118 634	589 851	702 202	1 297 042	X	X
33392	Material handling equipment mfg	2001..	93 509	3 541 947	59 355	116 007	1 822 792	7 881 510	10 125 848	18 115 526	1	2
		2000..	99 169	3 811 239	63 987	128 166	1 939 061	8 536 555	11 154 572	19 596 308	1	1
		1999..	95 980	3 661 890	62 262	129 805	1 872 575	8 226 370	10 063 430	18 345 054	1	1
		1998..	94 390	3 447 418	60 582	127 044	1 730 954	7 645 270	10 209 568	17 875 988	1	2
		1997..	92 600	3 330 707	59 856	123 674	1 734 759	7 238 952	9 493 479	16 646 105	X	X
333921	Elevator & moving stairway mfg	2001..	10 733	397 683	7 053	14 114	222 148	1 057 574	1 139 764	2 169 125	4	3
		2000..	10 515	378 044	7 175	14 020	210 244	877 323	1 063 322	1 942 203	4	4
		1999..	9 481	345 311	6 618	14 250	197 537	821 956	917 073	1 742 466	3	3
		1998..	9 489	333 280	6 048	13 055	172 004	757 162	853 942	1 615 420	2	12
		1997..	9 442	340 525	6 253	13 148	194 226	748 229	865 092	1 607 066	X	X
333922	Conveyor & conveying equipment mfg	2001..	38 223	1 597 169	21 878	45 069	718 955	3 278 735	2 992 137	6 304 722	2	3
		2000..	40 319	1 719 050	23 407	49 397	747 549	3 545 391	3 295 846	6 864 232	2	2
		1999..	39 291	1 675 605	23 043	47 708	717 821	3 282 726	3 227 779	6 530 423	2	2
		1998..	39 134	1 551 065	22 336	46 928	646 281	3 205 809	3 261 049	6 553 203	2	4
		1997..	39 421	1 531 932	23 261	49 446	701 113	3 069 183	3 304 898	6 364 898	X	X
333923	Overhead traveling crane, hoist, & monorail system mfg	2001..	20 813	687 836	14 110	25 761	387 289	1 718 457	2 728 972	4 474 016	3	3
		2000..	21 789	739 462	14 783	27 178	419 179	1 941 955	2 991 113	4 873 707	3	2
		1999..	20 275	697 932	13 603	26 945	395 228	2 025 711	2 537 145	4 547 170	2	2
		1998..	18 993	618 890	12 702	25 578	358 947	1 521 669	1 982 765	3 458 955	3	2
		1997..	17 784	564 482	11 795	22 780	316 898	1 451 136	1 711 464	3 135 815	X	X
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	2001..	23 740	859 259	16 315	31 063	494 400	1 826 744	3 264 974	5 167 661	3	3
		2000..	26 547	974 683	18 622	37 571	562 089	2 171 886	3 804 291	5 916 166	3	2
		1999..	26 933	943 042	18 999	40 901	561 989	2 095 977	3 381 433	5 524 997	2	2
		1998..	26 774	944 182	19 496	41 483	553 722	2 160 630	4 111 812	6 248 409	2	2
		1997..	25 953	893 768	18 547	38 300	522 522	1 970 404	3 612 025	5 538 326	X	X
33399	All other general-purpose machinery mfg	2001..	175 862	7 074 539	106 451	209 998	3 357 745	15 389 451	14 032 408	29 893 401	1	1
		2000..	188 885	7 507 432	117 456	232 093	3 616 126	17 623 478	15 923 517	33 321 706	1	1
		1999..	187 549	7 284 361	114 611	227 258	3 486 151	17 051 875	15 104 837	32 188 534	1	1
		1998..	196 457	7 421 878	122 059	247 257	3 707 395	17 649 036	14 945 570	32 424 900	1	1
		1997..	194 647	7 294 569	120 304	242 157	3 621 767	17 452 661	14 404 915	31 789 815	X	X
333991	Power-driven handtool mfg	2001..	16 311	517 373	11 037	20 641	292 794	1 931 910	1 935 587	3 912 242	3	4
		2000..	17 216	565 494	12 458	23 032	316 969	2 493 511	2 214 623	4 656 119	2	2
		1999..	16 389	523 447	12 058	22 936	297 806	2 451 162	2 121 686	4 570 774	1	2
		1998..	16 793	553 440	12 290	23 990	322 471	2 349 697	1 954 603	4 252 332	1	1
		1997..	16 816	531 378	12 328	24 190	315 696	1 983 354	1 660 930	3 609 779	X	X
333992	Welding & soldering equipment mfg	2001..	18 338	776 016	10 976	21 472	402 476	1 668 566	2 146 515	3 895 540	6	4
		2000..	20 087	813 344	12 228	23 320	409 728	1 929 157	2 293 794	4 234 895	5	3
		1999..	18 488	758 202	11 387	21 561	363 654	1 890 072	2 259 392	4 192 199	3	5
		1998..	21 128	840 387	13 404	26 264	436 163	1 920 736	2 296 870	4 276 808	1	2
		1997..	22 505	918 180	14 640	29 279	485 833	2 027 004	2 453 362	4 444 978	X	X
333993	Packaging machinery mfg	2001..	27 923	1 207 904	14 685	30 087	508 134	2 259 084	1 894 370	4 229 635	3	4
		2000..	29 259	1 263 422	16 071	32 958	533 019	2 528 663	2 089 996	4 615 645	3	4
		1999..	31 000	1 294 363	16 315	33 742	536 949	2 488 428	2 220 050	4 689 757	2	2
		1998..	32 385	1 307 899	17 184	34 606	547 867	2 730 693	2 171 446	4 928 283	1	2
		1997..	32 109	1 278 345	17 280	34 867	552 062	2 706 010	2 116 512	4 900 477	X	X
333994	Industrial process furnace & oven mfg	2001..	15 294	622 605	9 089	17 593	265 904	1 118 596	1 077 508	2 267 022	5	6
		2000..	16 345	632 925	10 026	20 140	289 060	1 330 538	1 249 553	2 595 299	4	5
		1999..	16 834	624 847	9 813	20 420	287 059	1 212 480	1 159 541	2 413 765	3	4
		1998..	17 929	670 345	11 061	24 626	325 798	1 439 927	1 324 851	2 685 900	2	3
		1997..	17 575	657 327	10 313	23 295	288 549	1 514 761	1 365 736	2 869 912	X	X
333995	Fluid power cylinder & actuator mfg	2001..	21 436	889 607	14 768	29 381	501 911	2 037 098	1 328 477	3 384 649	3	3
		2000..	23 303	974 928	15 645	31 712	541 716	2 190 387	1 504 547	3 689 626	2	2
		1999..	24 801	1 002 336	16 351	32 351	569 082	2 204 799	1 485 260	3 695 917	1	2
		1998..	24 484	965 324	16 385	33 962	578 455	2 196 410	1 531 118	3 660 438	2	2
		1997..	23 030	898 428	15 109	31 597	525 990	2 155 657	1 398 733	3 542 331	X	X
333996	Fluid power pump & motor mfg	2001..	13 610	542 658	9 131	18 011	295 753	1 322 403	1 241 065	2 575 451	4	4
		2000..	15 934	634 297	10 870	22 725	370 888	1 541 764	1 571 689	3 077 416	2	2
		1999..	15 620	611 710	10 656	21 765	358 668	1 487 407	1 376 117	2 879 843	1	2
		1998..	17 189	672 415	11 880	25 015	397 437	1 625 557	1 423 212	3 008 751	1	2
		1997..	15 963	620 397	11 065	22 551	359 816	1 526 099	1 283 790	2 811 223	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees		Production workers			Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column—	
			Number[1]	Payroll ($1,000)	Number[1]	Hours (1,000)	Wages ($1,000)					
			A	B	C	D	E	F	G	H	A	F
333	Machinery mfg—Con.											
3339	Other general-purpose machinery mfg—Con.											
33399	All other general-purpose machinery mfg—Con.											
333997	Scale & balance (except laboratory) mfg	2001..	4 319	158 121	2 648	5 371	72 995	376 292	343 891	716 651	7	8
		2000..	4 613	163 102	2 897	5 879	76 810	413 351	351 655	764 630	5	8
		1999..	4 896	165 976	3 026	5 991	81 359	411 664	343 866	751 930	5	6
		1998..	4 849	157 030	2 574	5 014	64 480	377 145	326 334	698 165	5	4
		1997..	4 856	148 487	2 658	4 752	61 487	329 428	345 957	682 181	X	X
333999	All other miscellaneous general-purpose machinery mfg	2001..	58 632	2 360 256	34 116	67 442	1 017 779	4 675 503	4 064 996	8 912 211	2	2
		2000..	62 129	2 459 921	37 262	72 327	1 077 936	5 196 106	4 647 660	9 688 077	2	2
		1999..	59 521	2 303 480	35 005	68 492	991 575	4 905 862	4 138 926	8 994 351	2	2
		1998..	61 699	2 255 037	37 282	73 779	1 034 724	5 008 872	3 917 135	8 914 222	1	3
		1997..	61 793	2 242 027	36 911	71 626	1 032 334	5 210 348	3 779 895	8 928 934	X	X
334	Computer & electronic product mfg	2001..	1 598 766	77 137 249	779 908	1 508 190	26 372 081	223 718 142	202 645 132	429 470 841	1	2
		2000..	1 652 745	80 032 211	853 295	1 687 973	28 335 262	280 095 341	234 555 922	510 639 486	1	1
		1999..	1 610 202	74 943 060	831 078	1 668 737	26 736 275	270 706 642	196 718 348	467 059 396	1	1
		1998..	1 686 623	73 976 389	875 129	1 741 236	27 176 200	256 128 715	187 554 277	443 767 112	1	1
		1997..	1 691 146	72 483 848	877 002	1 746 314	26 117 539	252 629 768	187 875 131	439 381 300	X	X
3341	Computer & peripheral equipment mfg	2001..	193 109	9 165 129	65 209	125 203	2 416 799	34 394 096	54 344 617	89 528 420	2	1
		2000..	205 077	10 664 697	76 543	140 326	2 766 986	43 480 839	66 521 945	110 241 991	1	1
		1999..	207 666	10 984 050	80 739	167 130	2 849 032	47 056 636	65 669 727	113 161 552	1	1
		1998..	239 921	11 233 494	91 666	181 967	3 214 423	50 015 123	63 870 360	114 481 565	1	1
		1997..	240 307	10 899 245	99 974	200 934	3 181 898	44 111 746	66 057 526	110 054 987	X	X
33411	Computer & peripheral equipment mfg	2001..	193 109	9 165 129	65 209	125 203	2 416 799	34 394 096	54 344 617	89 528 420	2	1
		2000..	205 077	10 664 697	76 543	140 326	2 766 986	43 480 839	66 521 945	110 241 991	1	1
		1999..	207 666	10 984 050	80 739	167 130	2 849 032	47 056 636	65 669 727	113 161 552	1	1
		1998..	239 921	11 233 494	91 666	181 967	3 214 423	50 015 123	63 870 360	114 481 565	1	1
		1997..	240 307	10 899 245	99 974	200 934	3 181 898	44 111 746	66 057 526	110 054 987	X	X
334111	Electronic computer mfg	2001..	77 258	3 548 459	21 347	34 229	903 321	17 516 239	38 030 029	55 869 115	1	1
		2000..	87 715	4 572 408	27 869	44 128	1 051 790	24 723 734	44 260 704	69 298 988	1	1
		1999..	83 677	4 715 056	28 841	57 769	1 021 622	29 402 669	41 845 680	71 679 731	1	1
		1998..	95 806	4 277 845	31 782	57 462	912 889	31 206 150	35 105 601	66 864 612	1	1
		1997..	99 427	4 239 347	35 905	66 135	946 812	25 908 268	40 223 412	66 301 810	X	X
334112	Computer storage device mfg	2001..	35 332	1 617 183	14 543	29 781	479 537	7 291 793	6 396 874	14 062 770	6	3
		2000..	32 296	1 731 262	14 988	30 455	497 599	7 987 629	7 704 248	15 502 111	3	1
		1999..	37 044	1 712 821	18 486	37 538	609 897	7 225 763	8 611 938	15 711 040	2	1
		1998..	45 361	2 066 595	19 765	52 349	669 116	7 982 995	10 415 242	18 420 080	1	1
		1997..	42 012	1 910 310	20 428	42 986	622 177	7 386 606	8 036 209	15 354 924	X	X
334113	Computer terminal mfg	2001..	4 356	167 523	1 722	2 843	48 239	498 154	503 917	987 983	14	17
		2000..	3 270	149 636	1 487	3 099	52 164	390 268	410 694	808 217	10	33
		1999..	4 409	183 737	2 201	4 434	65 465	388 833	544 569	941 196	7	11
		1998..	5 167	218 247	2 171	4 991	74 013	444 465	651 309	1 096 153	4	10
		1997..	5 764	253 086	2 843	5 862	89 526	531 875	941 879	1 486 965	X	X
334119	Other computer peripheral equipment mfg	2001..	76 164	3 831 963	27 597	58 349	985 702	9 087 909	9 413 797	18 608 552	3	3
		2000..	81 796	4 211 391	32 198	62 645	1 165 434	10 379 209	14 146 298	24 632 676	3	3
		1999..	82 536	4 372 437	31 212	67 390	1 152 048	10 039 370	14 667 540	24 829 585	2	4
		1998..	93 587	4 670 807	37 947	67 165	1 558 405	10 381 512	17 698 208	28 100 719	2	1
		1997..	93 104	4 496 502	40 798	85 951	1 523 383	10 284 997	16 856 026	26 911 288	X	X
3342	Communications equipment mfg	2001..	301 732	17 089 013	120 337	228 423	4 476 308	50 756 866	51 191 946	102 004 304	5	4
		2000..	291 132	16 552 078	128 948	252 703	4 795 683	62 599 894	58 418 840	118 735 172	3	2
		1999..	274 161	14 259 489	121 460	233 876	4 234 546	55 867 710	41 821 737	97 953 424	1	1
		1998..	286 973	13 804 299	132 450	256 961	4 480 171	48 255 585	38 677 530	86 119 329	1	1
		1997..	294 865	13 826 630	135 313	261 498	4 524 867	48 040 124	35 767 800	82 852 421	X	X
33421	Telephone apparatus mfg	2001..	124 132	7 985 252	41 600	76 869	1 760 264	28 005 209	22 497 725	51 098 879	9	8
		2000..	109 085	7 008 916	40 886	79 091	1 685 919	35 843 013	26 938 685	61 524 499	3	2
		1999..	108 459	6 261 789	42 807	81 064	1 644 325	32 744 780	20 264 666	52 767 369	2	1
		1998..	101 364	5 378 812	41 455	78 424	1 561 854	25 415 686	17 110 827	41 790 925	1	1
		1997..	103 874	5 377 394	41 969	78 587	1 552 391	23 766 132	14 846 321	38 375 534	X	X
334210	Telephone apparatus mfg	2001..	124 132	7 985 252	41 600	76 869	1 760 264	28 005 209	22 497 725	51 098 879	9	8
		2000..	109 085	7 008 916	40 886	79 091	1 685 919	35 843 013	26 938 685	61 524 499	3	2
		1999..	108 459	6 261 789	42 807	81 064	1 644 325	32 744 780	20 264 666	52 767 369	2	1
		1998..	101 364	5 378 812	41 455	78 424	1 561 854	25 415 686	17 110 827	41 790 925	1	1
		1997..	103 874	5 377 394	41 969	78 587	1 552 391	23 766 132	14 846 321	38 375 534	X	X
33422	Radio & TV broadcasting & wireless communications equipment mfg	2001..	149 537	7 954 106	65 792	126 637	2 352 430	19 331 148	26 470 705	45 334 406	6	3
		2000..	159 166	8 681 744	76 707	152 077	2 818 614	23 961 480	29 367 173	52 305 949	5	2
		1999..	141 726	7 155 428	67 026	131 167	2 312 178	20 482 707	19 621 447	40 647 053	2	2
		1998..	161 264	7 514 117	79 343	156 150	2 648 628	20 446 628	19 785 508	40 138 927	1	1
		1997..	166 801	7 572 853	81 758	160 572	2 712 736	21 773 109	19 322 745	40 373 077	X	X
334220	Radio & TV broadcasting & wireless communications equipment mfg	2001..	149 537	7 954 106	65 792	126 637	2 352 430	19 331 148	26 470 705	45 334 406	6	3
		2000..	159 166	8 681 744	76 707	152 077	2 818 614	23 961 480	29 367 173	52 305 949	5	2
		1999..	141 726	7 155 428	67 026	131 167	2 312 178	20 482 707	19 621 447	40 647 053	2	2
		1998..	161 264	7 514 117	79 343	156 150	2 648 628	20 446 628	19 785 508	40 138 927	1	1
		1997..	166 801	7 572 853	81 758	160 572	2 712 736	21 773 109	19 322 745	40 373 077	X	X
33429	Other communications equipment mfg	2001..	28 062	1 149 655	12 945	24 917	363 614	3 420 509	2 223 516	5 571 020	5	4
		2000..	22 882	861 418	11 355	21 535	291 150	2 795 401	2 112 982	4 904 724	3	3
		1999..	23 977	842 271	11 627	21 645	278 043	2 640 223	1 935 625	4 539 002	3	2
		1998..	24 345	911 371	11 652	22 387	269 689	2 393 271	1 781 194	4 189 477	2	2
		1997..	24 190	876 383	11 586	22 339	259 740	2 500 883	1 598 734	4 103 810	X	X
334290	Other communications equipment mfg	2001..	28 062	1 149 655	12 945	24 917	363 614	3 420 509	2 223 516	5 571 020	5	4
		2000..	22 882	861 418	11 355	21 535	291 150	2 795 401	2 112 982	4 904 724	3	3
		1999..	23 977	842 271	11 627	21 645	278 043	2 640 223	1 935 625	4 539 002	3	2
		1998..	24 345	911 371	11 652	22 387	269 689	2 393 271	1 781 194	4 189 477	2	2
		1997..	24 190	876 383	11 586	22 339	259 740	2 500 883	1 598 734	4 103 810	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
334	Computer & electronic product mfg—Con.											
3343	Audio & video equipment mfg	2001..	27 142	962 979	17 563	34 548	423 800	3 143 007	5 638 530	8 941 542	5	8
		2000..	28 692	975 307	19 002	36 411	449 931	3 221 225	6 113 003	9 178 482	4	6
		1999..	29 760	990 808	20 266	37 712	480 172	2 854 957	6 152 890	8 927 205	3	5
		1998..	32 373	958 676	22 957	43 781	514 022	2 663 022	5 588 525	8 326 538	2	5
		1997..	30 306	918 069	20 684	40 461	463 377	2 372 815	5 825 578	8 226 685	X	X
33431	Audio & video equipment mfg	2001..	27 142	962 979	17 563	34 548	423 800	3 143 007	5 638 530	8 941 542	5	8
		2000..	28 692	975 307	19 002	36 411	449 931	3 221 225	6 113 003	9 178 482	4	6
		1999..	29 760	990 808	20 266	37 712	480 172	2 854 957	6 152 890	8 927 205	3	5
		1998..	32 373	958 676	22 957	43 781	514 022	2 663 022	5 588 525	8 326 538	2	5
		1997..	30 306	918 069	20 684	40 461	463 377	2 372 815	5 825 578	8 226 685	X	X
334310	Audio & video equipment mfg	2001..	27 142	962 979	17 563	34 548	423 800	3 143 007	5 638 530	8 941 542	5	8
		2000..	28 692	975 307	19 002	36 411	449 931	3 221 225	6 113 003	9 178 482	4	6
		1999..	29 760	990 808	20 266	37 712	480 172	2 854 957	6 152 890	8 927 205	3	5
		1998..	32 373	958 676	22 957	43 781	514 022	2 663 022	5 588 525	8 326 538	2	5
		1997..	30 306	918 069	20 684	40 461	463 377	2 372 815	5 825 578	8 226 685	X	X
3344	Semiconductor & other electronic component mfg	2001..	566 864	23 944 496	355 317	690 258	10 783 324	71 289 076	50 980 748	124 215 433	2	4
		2000..	614 083	26 387 892	397 169	801 807	11 996 311	105 642 432	62 651 324	166 670 953	2	2
		1999..	586 221	24 043 676	377 893	770 340	11 131 419	101 734 005	46 081 272	146 798 872	1	1
		1998..	585 395	22 320 889	376 761	755 066	10 240 894	89 077 959	43 942 721	133 193 113	1	1
		1997..	587 313	22 142 761	373 814	748 573	9 740 797	94 354 658	45 183 238	139 083 873	X	X
33441	Semiconductor & other electronic component mfg	2001..	566 864	23 944 496	355 317	690 258	10 783 324	71 289 076	50 980 748	124 215 433	2	4
		2000..	614 083	26 387 892	397 169	801 807	11 996 311	105 642 432	62 651 324	166 670 953	2	2
		1999..	586 221	24 043 676	377 893	770 340	11 131 419	101 734 005	46 081 272	146 798 872	1	1
		1998..	585 395	22 320 889	376 761	755 066	10 240 894	89 077 959	43 942 721	133 193 113	1	1
		1997..	587 313	22 142 761	373 814	748 573	9 740 797	94 354 658	45 183 238	139 083 873	X	X
334411	Electron tube mfg	2001..	15 627	632 994	12 269	24 473	441 750	1 180 636	1 878 304	3 199 382	1	2
		2000..	16 187	633 281	12 718	26 809	433 493	1 362 109	2 214 529	3 560 211	1	1
		1999..	17 619	663 279	13 647	28 313	449 030	1 758 039	2 089 404	3 821 710	1	1
		1998..	21 443	736 774	16 746	34 209	494 002	1 619 415	2 094 039	3 730 035	1	1
		1997..	21 656	726 712	16 774	34 208	488 835	1 568 417	2 273 565	3 789 948	X	X
334412	Bare printed circuit board mfg	2001..	72 333	2 359 198	55 644	107 567	1 522 882	4 731 694	4 484 395	9 413 636	6	4
		2000..	85 120	2 982 541	68 393	146 374	2 029 598	6 626 768	6 073 410	12 532 074	5	3
		1999..	81 416	2 661 239	65 239	137 886	1 798 136	5 557 074	4 413 171	9 832 103	3	3
		1998..	78 774	2 395 819	62 507	130 783	1 573 304	5 047 653	4 144 473	9 144 266	1	1
		1997..	72 282	2 110 176	56 173	113 963	1 345 948	5 062 300	3 486 866	8 507 125	X	X
334413	Semiconductor & related device mfg	2001..	216 210	11 660 780	118 256	233 759	4 504 923	44 118 169	18 767 668	63 173 024	4	6
		2000..	229 535	12 976 631	124 279	253 241	4 727 153	67 896 581	23 715 092	90 880 105	3	2
		1999..	214 667	11 651 290	116 583	237 394	4 310 458	68 021 675	15 853 489	83 535 638	1	1
		1998..	203 058	10 449 335	108 248	213 704	3 714 467	59 977 245	15 303 115	75 048 378	1	1
		1997..	199 037	10 101 783	106 484	216 061	3 531 168	64 135 313	15 055 008	78 479 496	X	X
334414	Electronic capacitor mfg	2001..	15 529	518 340	10 758	20 630	263 998	979 772	1 101 301	2 130 299	7	10
		2000..	17 940	576 459	12 923	24 883	307 478	1 919 426	1 533 021	3 385 855	4	1
		1999..	16 159	481 969	11 080	22 306	262 032	1 258 172	1 088 771	2 361 117	3	3
		1998..	18 197	510 415	12 737	24 966	272 439	1 239 544	1 033 132	2 265 591	1	1
		1997..	19 317	539 446	13 611	26 326	291 291	1 444 666	1 158 130	2 560 984	X	X
334415	Electronic resistor mfg	2001..	8 702	251 862	6 008	12 462	139 253	582 963	371 737	964 441	6	5
		2000..	8 761	254 729	6 136	13 243	146 831	720 243	452 207	1 155 124	6	4
		1999..	9 470	268 259	6 661	13 561	146 835	673 260	388 212	1 058 206	3	4
		1998..	10 755	288 205	7 692	14 829	169 682	674 588	429 607	1 106 278	2	6
		1997..	11 624	305 365	8 461	16 207	174 409	801 153	422 703	1 240 008	X	X
334416	Electronic coil, transformer, & other inductor mfg	2001..	15 342	426 762	11 254	21 394	232 338	951 683	558 450	1 512 808	3	3
		2000..	17 282	463 522	13 194	26 061	273 672	1 089 475	632 705	1 700 624	2	5
		1999..	17 052	429 551	13 184	25 511	249 608	865 949	545 592	1 405 827	2	3
		1998..	19 034	467 118	14 747	29 178	267 434	956 850	554 693	1 507 616	1	4
		1997..	18 999	450 514	14 784	29 613	261 187	936 268	589 896	1 524 064	X	X
334417	Electronic connector mfg	2001..	33 866	1 245 028	24 000	45 915	725 879	3 142 242	1 777 665	4 989 474	3	7
		2000..	34 347	1 234 381	25 715	53 615	772 579	4 112 138	2 052 457	6 120 190	4	4
		1999..	32 844	1 128 374	24 211	50 242	673 711	3 533 712	1 591 263	5 125 317	3	5
		1998..	39 358	1 187 395	27 586	56 573	723 503	3 706 797	1 619 264	5 325 651	2	1
		1997..	37 589	1 171 568	27 772	56 160	717 464	3 788 056	1 766 881	5 550 540	X	X
334418	Printed circuit assembly (electronic assembly) mfg	2001..	110 643	4 140 167	65 167	124 538	1 662 326	10 221 377	17 880 218	28 844 512	5	8
		2000..	113 989	4 219 974	70 527	138 068	1 817 764	14 978 259	20 866 837	35 274 199	4	5
		1999..	105 956	3 865 530	65 614	133 623	1 792 433	13 739 565	15 662 305	28 920 337	3	6
		1998..	104 960	3 549 080	66 733	132 500	1 677 700	10 082 321	14 493 887	24 994 715	3	3
		1997..	115 076	4 007 610	68 441	137 697	1 600 815	10 592 734	16 116 426	27 103 573	X	X
334419	Other electronic component mfg	2001..	78 612	2 709 365	51 961	99 520	1 289 975	5 380 539	4 161 011	9 987 857	3	4
		2000..	90 922	3 046 374	63 285	119 514	1 487 742	6 937 431	5 111 067	12 062 571	3	4
		1999..	91 038	2 894 186	61 674	121 504	1 449 176	6 326 559	4 449 066	10 738 616	2	4
		1998..	89 815	2 736 746	59 765	118 324	1 348 363	5 773 545	4 270 510	10 070 583	1	1
		1997..	91 733	2 729 587	61 314	118 338	1 329 680	6 025 751	4 313 763	10 328 135	X	X
3345	Navigational, measuring, medical, & control instruments mfg	2001..	468 114	24 461 045	192 785	368 423	7 388 082	60 034 921	37 053 098	97 169 107	1	1
		2000..	469 843	23 876 911	199 779	392 378	7 388 170	60 543 019	36 767 898	97 113 726	1	1
		1999..	466 032	23 052 018	197 536	390 201	7 075 923	58 304 899	33 262 558	91 555 127	1	1
		1998..	483 865	23 668 120	211 723	420 882	7 581 592	59 915 939	31 106 154	91 082 945	1	1
		1997..	484 438	22 843 455	209 238	415 620	7 092 891	58 284 906	30 799 004	89 465 709	X	X
33451	Navigational, measuring, medical, & control instruments mfg	2001..	468 114	24 461 045	192 785	368 423	7 388 082	60 034 921	37 053 098	97 169 107	1	1
		2000..	469 843	23 876 911	199 779	392 378	7 388 170	60 543 019	36 767 898	97 113 726	1	1
		1999..	466 032	23 052 018	197 536	390 201	7 075 923	58 304 899	33 262 558	91 555 127	1	1
		1998..	483 865	23 668 120	211 723	420 882	7 581 592	59 915 939	31 106 154	91 082 945	1	1
		1997..	484 438	22 843 455	209 238	415 620	7 092 891	58 284 906	30 799 004	89 465 709	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees		Production workers			Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column—	
			Number[1]	Payroll ($1,000)	Number[1]	Hours (1,000)	Wages ($1,000)					
			A	B	C	D	E	F	G	H	A	F
334	Computer & electronic product mfg—Con.											
3345	Navigational, measuring, medical, & control instruments mfg—Con.											
33451	Navigational, measuring, medical, & control instruments mfg—Con.											
334510	Electromedical & electrotherapeutic apparatus mfg	2001..	54 972	2 769 106	24 760	49 661	775 923	8 631 183	5 041 905	13 642 648	3	2
		2000..	52 334	2 675 439	23 531	47 554	736 652	8 269 567	4 709 819	12 909 458	2	2
		1999..	53 237	2 588 044	22 785	45 745	715 266	7 706 455	4 409 001	12 166 114	2	2
		1998..	55 333	2 670 194	24 127	48 775	756 629	7 886 308	4 156 163	11 959 013	3	2
		1997..	55 044	2 635 085	24 724	50 363	741 374	7 619 290	3 995 354	11 581 624	X	X
334511	Search, detection, navigation, & guidance instrument mfg	2001..	178 051	10 042 268	63 269	112 217	2 924 773	23 374 916	11 941 457	35 345 464	1	1
		2000..	179 659	9 751 693	64 882	119 339	2 778 986	21 440 486	11 359 786	33 081 818	1	1
		1999..	172 452	9 571 931	60 544	116 724	2 583 897	22 107 624	10 421 589	32 486 008	1	1
		1998..	188 299	10 257 901	69 485	134 441	2 910 566	23 941 705	9 192 213	33 265 406	1	1
		1997..	188 325	9 977 629	65 102	126 006	2 627 879	23 155 326	9 051 326	32 661 495	X	X
334512	Automatic environmental control mfg	2001..	18 022	646 153	11 818	23 691	320 180	1 788 987	1 299 069	3 091 114	6	3
		2000..	20 241	720 002	13 450	27 264	370 240	1 972 344	1 319 136	3 301 773	4	2
		1999..	20 480	697 647	13 721	28 413	367 589	1 880 864	1 173 387	3 089 522	2	2
		1998..	20 477	670 457	14 531	27 165	366 769	1 898 607	1 261 242	3 133 485	6	4
		1997..	21 470	666 464	14 922	29 904	371 348	1 737 147	1 195 244	2 943 971	X	X
334513	Industrial process control instrument mfg	2001..	42 979	1 936 305	18 692	37 404	644 750	4 567 236	2 776 347	7 376 604	2	3
		2000..	44 155	1 945 662	19 623	39 110	653 423	4 801 589	2 947 971	7 715 544	2	2
		1999..	45 887	1 959 555	20 387	40 711	657 704	4 581 307	2 892 955	7 482 846	2	1
		1998..	46 957	2 013 993	22 015	42 715	690 384	4 761 813	2 858 579	7 621 243	1	2
		1997..	48 237	1 958 046	21 312	41 233	618 958	4 914 894	2 728 231	7 662 564	X	X
334514	Totalizing fluid meter & counting device mfg	2001..	16 312	730 665	10 395	20 177	399 275	1 996 618	2 299 565	4 292 784	5	3
		2000..	18 172	895 115	11 891	24 932	531 022	2 126 744	2 496 750	4 614 408	4	4
		1999..	19 644	937 130	11 919	25 073	499 635	2 051 183	2 183 208	4 248 169	4	2
		1998..	16 726	695 847	11 654	23 578	422 045	2 018 174	1 836 148	3 840 622	1	2
		1997..	17 155	666 032	11 853	23 367	404 421	1 996 360	1 712 162	3 716 095	X	X
334515	Electricity measuring & testing instrument mfg	2001..	65 440	3 607 016	24 255	47 056	959 565	8 236 509	4 880 694	13 109 989	2	3
		2000..	61 832	3 421 797	25 757	51 138	968 780	10 346 835	5 821 238	16 002 779	2	2
		1999..	63 181	3 143 835	27 030	51 816	965 757	9 010 404	5 161 018	14 079 580	1	2
		1998..	63 976	3 222 892	28 721	59 505	1 050 922	8 754 959	4 772 761	13 610 141	1	3
		1997..	63 891	3 045 208	29 626	60 904	1 033 172	8 991 807	5 140 771	14 025 050	X	X
334516	Analytical laboratory instrument mfg	2001..	37 050	2 124 888	12 899	25 461	485 653	4 723 129	3 551 125	8 350 423	4	3
		2000..	35 914	1 880 064	12 836	25 858	468 245	4 730 303	3 092 046	7 779 121	3	2
		1999..	36 113	1 784 706	13 126	27 000	454 358	4 715 001	2 775 193	7 509 390	3	2
		1998..	36 278	1 767 898	13 075	26 526	512 555	4 480 606	2 689 605	7 201 507	1	1
		1997..	36 820	1 728 708	13 660	27 460	495 787	4 111 184	2 752 613	6 899 852	X	X
334517	Irradiation apparatus mfg	2001..	12 952	706 505	4 935	10 213	209 558	2 149 975	2 141 791	4 324 647	3	2
		2000..	13 177	694 270	4 870	10 825	196 160	2 255 270	2 069 833	4 329 236	3	2
		1999..	12 717	689 773	5 052	11 854	201 819	2 249 883	1 664 919	3 948 766	4	2
		1998..	13 929	692 336	5 650	12 531	203 784	2 243 374	1 833 998	4 061 936	1	1
		1997..	13 547	642 088	5 657	12 299	187 134	2 075 258	1 884 903	3 970 454	X	X
334518	Watch, clock, & part mfg	2001..	6 382	200 238	3 752	8 268	98 677	568 414	452 773	1 018 151	11	8
		2000..	7 026	218 154	4 318	11 117	104 345	695 090	463 498	1 150 650	8	6
		1999..	7 480	211 189	5 324	10 471	107 948	771 902	445 232	1 168 367	10	6
		1998..	6 521	199 384	4 510	9 596	99 179	598 509	425 110	1 020 778	2	2
		1997..	6 333	178 487	4 482	9 229	93 587	550 979	380 479	921 827	X	X
334519	Other measuring & controlling device mfg	2001..	35 953	1 697 901	18 010	34 276	569 728	3 997 955	2 668 373	6 617 283	4	4
		2000..	37 333	1 674 713	18 621	35 241	580 318	3 904 790	2 487 823	6 228 940	3	4
		1999..	34 840	1 468 209	17 649	32 392	521 951	3 230 276	2 136 055	5 376 365	3	3
		1998..	35 368	1 477 220	17 954	36 051	568 759	3 331 884	2 080 333	5 368 816	2	2
		1997..	33 616	1 345 708	17 900	34 855	519 231	3 132 661	1 957 921	5 082 777	X	X
3346	Mfg & reproducing magnetic & optical media	2001..	41 805	1 514 587	28 698	61 334	883 767	4 100 176	3 436 192	7 612 035	5	4
		2000..	43 918	1 575 326	31 854	64 347	938 181	4 607 933	4 082 913	8 699 162	4	4
		1999..	46 361	1 613 020	33 184	69 479	965 183	4 888 436	3 730 164	8 663 216	3	3
		1998..	58 097	1 990 910	39 571	82 580	1 145 098	6 201 087	4 368 987	10 563 622	3	2
		1997..	53 917	1 853 688	37 979	79 228	1 113 709	5 465 519	4 241 985	9 697 625	X	X
33461	Mfg & reproducing magnetic & optical media	2001..	41 805	1 514 587	28 698	61 334	883 767	4 100 176	3 436 192	7 612 035	5	4
		2000..	43 918	1 575 326	31 854	64 347	938 181	4 607 933	4 082 913	8 699 162	4	4
		1999..	46 361	1 613 020	33 184	69 479	965 183	4 888 436	3 730 164	8 663 216	3	3
		1998..	58 097	1 990 910	39 571	82 580	1 145 098	6 201 087	4 368 987	10 563 622	3	2
		1997..	53 917	1 853 688	37 979	79 228	1 113 709	5 465 519	4 241 985	9 697 625	X	X
334611	Software reproducing	2001..	1 841	64 813	1 774	3 295	56 672	248 917	130 281	382 197	50	28
		2000..	1 835	80 402	1 791	3 400	57 996	253 909	149 628	403 414	40	28
		1999..	2 785	98 862	2 511	4 792	74 585	370 458	169 098	535 336	26	22
		1998..	12 432	466 143	6 364	13 318	206 046	1 256 085	648 662	1 889 302	8	9
		1997..	7 868	302 863	4 212	9 721	192 472	786 164	421 955	1 209 207	X	X
334612	Prerecorded CD (except software), tape, & record reproducing	2001..	28 720	936 646	20 200	43 395	577 510	2 861 359	1 903 794	4 781 851	6	5
		2000..	27 053	883 399	20 424	41 980	576 829	2 913 398	1 985 661	4 894 180	5	5
		1999..	26 359	832 806	19 260	40 796	534 401	2 615 452	1 742 207	4 364 283	5	4
		1998..	26 481	808 900	20 452	42 118	544 876	2 702 739	1 602 553	4 315 726	1	1
		1997..	25 180	747 551	19 430	40 123	512 482	2 379 126	1 411 504	3 809 652	X	X
334613	Magnetic & optical recording media mfg	2001..	11 243	513 128	6 725	14 643	249 585	989 899	1 402 117	2 447 987	6	7
		2000..	15 030	611 525	9 639	18 967	303 356	1 440 626	1 947 624	3 401 568	5	5
		1999..	17 217	681 352	11 414	23 891	356 197	1 902 526	1 818 858	3 763 597	4	3
		1998..	19 184	715 867	12 756	27 143	394 176	2 242 263	2 117 772	4 358 594	8	1
		1997..	20 869	803 274	14 337	29 384	408 755	2 300 229	2 408 526	4 678 766	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
335	Electrical equipment, appliance, & component mfg	2001..	556 642	19 465 812	395 704	769 032	11 164 038	56 304 313	57 137 216	114 067 036	1	1
		2000..	591 319	20 627 889	430 902	850 589	12 067 797	62 881 666	62 963 446	125 442 639	1	1
		1999..	592 639	20 040 791	433 152	864 033	11 878 379	59 544 205	58 611 857	118 312 810	1	1
		1998..	593 347	19 528 559	432 417	862 375	11 681 365	59 124 430	57 014 078	116 024 078	1	1
		1997..	593 802	18 972 741	432 273	860 344	11 368 753	57 215 610	54 987 295	112 116 267	X	X
3351	Electric lighting equipment mfg	2001..	68 190	2 236 384	48 960	93 425	1 297 738	6 957 956	5 510 137	12 498 169	4	3
		2000..	74 278	2 348 196	54 043	104 968	1 413 918	7 420 392	5 791 653	13 129 297	4	2
		1999..	78 252	2 367 612	56 558	112 207	1 392 189	7 358 998	6 043 182	13 462 077	3	2
		1998..	72 849	2 170 324	54 929	114 097	1 363 141	7 517 056	5 915 745	13 480 092	1	1
		1997..	74 987	2 204 508	55 744	112 190	1 360 134	7 038 950	5 692 530	12 710 091	X	X
33511	Electric lamp bulb & part mfg	2001..	9 868	443 515	9 022	17 342	363 825	1 586 566	846 174	2 441 443	24	7
		2000..	11 520	516 625	10 452	22 373	433 934	2 041 481	977 148	3 012 790	20	5
		1999..	12 969	497 408	11 060	23 945	419 890	1 896 374	950 037	2 907 400	18	6
		1998..	15 946	556 505	13 072	27 065	446 149	2 177 383	1 126 153	3 320 979	1	1
		1997..	15 903	574 696	13 478	28 532	471 301	2 119 597	1 185 867	3 306 009	X	X
335110	Electric lamp bulb & part mfg	2001..	9 868	443 515	9 022	17 342	363 825	1 586 566	846 174	2 441 443	24	7
		2000..	11 520	516 625	10 452	22 373	433 934	2 041 481	977 148	3 012 790	20	5
		1999..	12 969	497 408	11 060	23 945	419 890	1 896 374	950 037	2 907 400	18	6
		1998..	15 946	556 505	13 072	27 065	446 149	2 177 383	1 126 153	3 320 979	1	1
		1997..	15 903	574 696	13 478	28 532	471 301	2 119 597	1 185 867	3 306 009	X	X
33512	Lighting fixture mfg	2001..	58 322	1 792 869	39 938	76 083	933 913	5 371 390	4 663 963	10 056 726	2	3
		2000..	62 758	1 831 571	43 592	82 594	979 984	5 378 912	4 814 506	10 116 507	2	2
		1999..	65 283	1 870 204	45 498	88 262	972 299	5 462 624	5 093 144	10 554 677	2	3
		1998..	56 903	1 613 819	41 857	87 033	916 992	5 339 673	4 789 592	10 159 113	2	2
		1997..	59 084	1 629 812	42 266	83 658	888 833	4 919 353	4 506 663	9 404 082	X	X
335121	Residential electric lighting fixture mfg	2001..	15 224	387 468	11 336	20 946	221 532	987 006	868 778	1 861 956	5	7
		2000..	17 570	426 285	13 134	24 171	238 536	1 115 883	880 848	1 972 828	5	5
		1999..	19 383	457 838	13 911	27 363	255 089	1 177 905	905 448	2 087 582	5	7
		1998..	17 871	456 504	13 676	27 297	254 469	1 196 054	1 157 891	2 376 950	3	2
		1997..	17 681	430 595	13 194	26 142	234 477	1 166 774	1 087 396	2 255 251	X	X
335122	Commercial/industrial/institutional electric lighting fixture mfg	2001..	22 395	699 559	15 146	29 504	367 980	2 511 121	2 014 482	4 535 035	4	5
		2000..	23 839	736 786	16 474	32 486	398 785	2 305 826	2 225 705	4 510 003	3	4
		1999..	24 711	732 607	17 311	33 681	379 848	2 291 802	2 403 897	4 686 971	3	4
		1998..	22 273	632 564	16 309	34 661	358 968	2 415 823	2 082 695	4 480 225	2	1
		1997..	23 098	657 592	16 409	33 063	364 950	2 070 729	2 043 965	4 101 442	X	X
335129	Other lighting equipment mfg	2001..	20 703	705 842	13 457	25 633	344 401	1 873 262	1 780 703	3 659 734	2	3
		2000..	21 349	668 500	13 984	25 937	342 662	1 957 203	1 707 953	3 633 676	3	3
		1999..	21 189	679 759	14 276	27 217	337 363	1 992 917	1 783 799	3 780 123	2	3
		1998..	16 759	524 751	11 872	25 075	303 555	1 727 796	1 549 005	3 301 937	5	5
		1997..	18 305	541 625	12 663	24 453	289 406	1 681 850	1 375 302	3 047 389	X	X
3352	Household appliance mfg	2001..	92 554	3 086 306	76 571	152 077	2 250 669	9 443 269	12 660 096	22 298 897	1	2
		2000..	99 532	3 287 756	82 740	163 224	2 379 432	10 262 866	13 069 901	23 414 965	1	1
		1999..	97 871	3 113 069	82 317	160 803	2 278 953	10 090 667	12 234 937	22 372 219	1	1
		1998..	99 531	3 089 525	82 373	157 760	2 240 202	10 032 133	12 588 257	22 471 878	1	1
		1997..	97 232	2 916 830	79 808	155 504	2 122 738	10 082 604	11 292 048	21 394 445	X	X
33521	Small electrical appliance mfg	2001..	21 615	668 831	15 902	31 722	407 405	2 444 943	2 536 059	5 003 366	4	5
		2000..	24 477	753 953	18 323	36 399	460 951	2 703 832	2 857 820	5 578 892	2	4
		1999..	23 987	677 382	18 251	33 872	402 514	2 394 258	2 496 775	4 892 573	3	4
		1998..	26 419	742 960	19 551	37 344	431 195	2 503 127	3 291 006	5 757 970	1	3
		1997..	27 505	748 041	20 111	37 601	434 845	2 869 205	3 026 039	5 907 367	X	X
335211	Electric housewares & household fan mfg	2001..	10 983	299 505	7 999	16 418	188 208	1 202 745	1 119 669	2 331 158	7	10
		2000..	12 928	362 171	9 735	19 933	210 061	1 292 328	1 245 070	2 549 540	4	8
		1999..	13 823	333 878	10 914	20 548	202 914	1 106 125	1 304 237	2 449 013	5	10
		1998..	15 480	372 274	11 793	22 483	221 532	1 264 667	1 769 077	3 027 425	2	6
		1997..	17 058	411 389	12 948	24 212	251 100	1 666 523	1 860 256	3 532 813	X	X
335212	Household vacuum cleaner mfg	2001..	10 632	369 326	7 903	15 304	219 197	1 242 197	1 416 390	2 672 208	1	1
		2000..	11 549	391 783	8 587	16 466	250 890	1 411 504	1 612 750	3 029 353	1	1
		1999..	10 164	343 504	7 337	13 324	199 599	1 288 133	1 192 539	2 443 560	2	1
		1998..	10 939	370 685	7 758	14 860	209 663	1 238 460	1 521 929	2 730 544	1	1
		1997..	10 447	336 652	7 163	13 389	183 745	1 202 682	1 165 783	2 374 554	X	X
33522	Major appliance mfg	2001..	70 938	2 417 475	60 669	120 356	1 843 264	6 998 326	10 124 037	17 295 532	1	2
		2000..	75 055	2 533 802	64 417	126 825	1 918 482	7 559 034	10 212 081	17 836 073	1	1
		1999..	73 884	2 435 687	64 066	126 931	1 876 440	7 696 410	9 738 161	17 479 646	1	1
		1998..	73 113	2 346 565	62 822	120 416	1 809 007	7 529 006	9 297 251	16 713 908	1	1
		1997..	69 727	2 168 789	59 697	117 903	1 687 893	7 213 399	8 266 009	15 487 078	X	X
335221	Household cooking appliance mfg	2001..	17 470	493 606	14 830	30 035	349 698	1 326 675	2 390 252	3 773 442	2	3
		2000..	18 036	512 197	15 266	32 249	356 615	1 699 688	2 387 354	4 178 958	1	2
		1999..	19 120	555 294	16 376	33 671	393 994	1 564 357	2 285 357	3 915 499	1	2
		1998..	18 237	523 078	15 263	29 785	356 750	1 704 978	2 225 702	3 849 167	6	5
		1997..	17 481	477 587	14 378	29 881	331 137	1 704 606	1 794 638	3 520 635	X	X
335222	Household refrigerator & home freezer mfg	2001..	25 780	910 647	22 614	43 526	741 812	2 018 107	3 405 502	5 561 618	1	1
		2000..	27 428	978 161	24 117	45 854	787 141	2 349 801	3 643 179	5 863 704	1	1
		1999..	25 683	873 720	22 576	44 103	703 849	2 585 694	3 471 175	6 038 537	1	1
		1998..	24 921	837 302	22 058	42 406	689 198	2 035 926	3 182 074	5 188 241	1	1
		1997..	24 597	801 717	21 513	41 152	648 064	1 941 186	2 943 884	4 887 364	X	X
335224	Household laundry equipment mfg	2001..	14 918	540 972	12 833	25 291	420 458	1 856 696	2 555 767	4 380 784	1	1
		2000..	15 503	568 853	13 259	25 513	429 350	1 731 174	2 395 307	4 252 698	1	1
		1999..	15 915	554 132	14 034	26 540	435 539	1 921 524	2 245 261	4 163 330	1	1
		1998..	16 740	565 166	14 307	26 318	438 647	2 105 958	2 316 703	4 421 433	1	1
		1997..	14 801	480 076	12 925	25 055	393 537	1 792 070	2 081 226	3 847 002	X	X
335228	Other major household appliance mfg	2001..	12 770	472 251	10 392	21 504	331 296	1 796 848	1 772 516	3 579 687	1	8
		2000..	14 088	474 591	11 775	23 209	345 376	1 778 371	1 786 241	3 540 712	3	4
		1999..	13 166	452 542	11 081	22 617	343 058	1 624 835	1 736 368	3 362 280	2	3
		1998..	13 215	421 019	11 195	21 906	324 412	1 682 143	1 572 772	3 255 066	1	1
		1997..	12 848	409 409	10 881	21 815	315 155	1 775 537	1 446 261	3 232 077	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
335	Electrical equipment, appliance, & component mfg—Con.											
3353	Electrical equipment mfg	2001..	186 759	6 660 220	124 677	236 272	3 499 146	17 339 939	16 446 712	33 933 581	1	1
		2000..	196 415	7 073 868	135 274	260 676	3 773 515	19 088 931	17 855 618	36 935 600	1	1
		1999..	201 491	7 071 304	139 421	275 260	3 854 284	18 628 948	17 010 965	35 697 720	1	1
		1998..	205 756	7 013 831	141 444	275 856	3 824 789	19 210 972	17 115 500	36 265 722	1	1
		1997..	209 311	6 845 920	144 608	285 279	3 776 159	19 241 142	16 989 463	36 233 634	X	X
33531	Electrical equipment mfg	2001..	186 759	6 660 220	124 677	236 272	3 499 146	17 339 939	16 446 712	33 933 581	1	1
		2000..	196 415	7 073 868	135 274	260 676	3 773 515	19 088 931	17 855 618	36 935 600	1	1
		1999..	201 491	7 071 304	139 421	275 260	3 854 284	18 628 948	17 010 965	35 697 720	1	1
		1998..	205 756	7 013 831	141 444	275 856	3 824 789	19 210 972	17 115 500	36 265 722	1	1
		1997..	209 311	6 845 920	144 608	285 279	3 776 159	19 241 142	16 989 463	36 233 634	X	X
335311	Power, distribution, & specialty transformer mfg	2001..	24 960	864 412	17 797	33 773	510 513	2 299 190	2 389 656	4 756 493	3	3
		2000..	26 227	890 249	19 161	38 786	529 166	2 745 271	2 557 620	5 250 367	3	5
		1999..	25 541	839 336	18 668	40 044	506 927	2 439 719	2 337 378	4 760 585	1	2
		1998..	26 758	831 006	19 753	39 977	508 941	2 476 386	2 343 284	4 779 143	4	5
		1997..	26 897	825 550	20 158	41 367	518 189	2 566 056	2 189 069	4 743 781	X	X
335312	Motor & generator mfg	2001..	60 962	1 929 365	45 946	89 915	1 200 196	4 866 777	4 514 848	9 389 600	1	2
		2000..	64 818	2 021 348	49 711	96 875	1 280 575	5 150 513	4 852 961	10 018 311	2	2
		1999..	69 300	2 131 915	53 975	106 078	1 407 621	5 404 426	5 425 624	10 815 043	1	2
		1998..	70 105	2 149 600	55 269	105 588	1 456 215	5 993 778	5 738 413	11 594 835	3	3
		1997..	74 171	2 172 250	57 853	115 681	1 456 910	6 123 289	6 027 446	12 174 434	X	X
335313	Switchgear & switchboard apparatus mfg	2001..	41 851	1 585 762	30 066	58 710	910 625	4 666 562	4 439 803	9 112 738	4	4
		2000..	43 878	1 676 859	31 676	62 680	967 632	5 011 724	4 871 335	9 898 617	3	2
		1999..	42 929	1 606 796	30 234	62 222	923 677	4 702 693	3 767 724	8 466 374	1	1
		1998..	41 859	1 507 992	29 467	61 288	875 641	4 458 253	3 449 230	7 877 174	1	1
		1997..	40 358	1 430 985	28 119	57 651	836 400	4 322 599	3 166 941	7 488 911	X	X
335314	Relay & industrial control mfg	2001..	58 985	2 280 681	30 868	53 874	877 812	5 507 411	5 102 404	10 674 750	2	2
		2000..	61 492	2 485 411	34 726	62 336	996 142	6 181 424	5 573 703	11 768 305	1	2
		1999..	63 721	2 493 257	36 545	66 916	1 016 059	6 082 110	5 480 239	11 655 718	1	1
		1998..	67 034	2 525 233	36 955	69 003	983 992	6 282 555	5 584 574	12 014 570	2	1
		1997..	67 885	2 417 135	38 478	70 580	964 660	6 229 198	5 606 007	11 826 508	X	X
3359	Other electrical equipment & component mfg	2001..	209 140	7 482 902	145 496	287 258	4 116 485	22 563 149	22 520 272	45 336 388	1	2
		2000..	221 094	7 918 069	158 845	321 721	4 500 932	26 109 476	26 246 274	51 962 777	1	1
		1999..	215 025	7 488 807	154 855	315 763	4 352 953	23 465 592	23 322 774	46 780 795	1	1
		1998..	215 210	7 254 879	153 671	314 662	4 253 233	22 364 269	21 394 576	43 806 387	1	1
		1997..	212 272	7 005 483	152 113	307 371	4 109 722	20 852 914	21 013 254	41 778 097	X	X
33591	Battery mfg	2001..	29 860	1 105 266	22 993	44 774	741 990	3 251 059	3 507 395	6 885 864	1	2
		2000..	32 761	1 183 128	26 133	53 520	818 085	4 044 459	3 844 167	7 815 746	1	2
		1999..	31 727	1 148 977	25 530	52 479	806 567	4 043 145	3 602 623	7 643 016	1	3
		1998..	30 686	1 061 894	24 459	50 299	766 556	3 500 302	3 403 621	6 886 491	1	2
		1997..	32 507	1 087 746	25 768	50 950	782 452	3 560 826	3 264 177	6 823 196	X	X
335911	Storage battery mfg	2001..	20 387	737 862	15 662	30 843	502 521	1 756 476	2 280 568	4 132 220	1	3
		2000..	22 583	813 254	18 274	38 027	577 131	2 345 066	2 563 195	4 890 670	1	3
		1999..	23 029	817 510	18 511	38 635	581 418	2 504 686	2 399 262	4 904 082	1	5
		1998..	21 900	751 880	17 767	36 676	562 144	2 039 932	2 222 101	4 252 466	2	2
		1997..	23 318	790 839	18 719	37 507	587 577	2 169 833	2 245 395	4 435 329	X	X
335912	Primary battery mfg	2001..	9 473	367 404	7 332	13 930	239 468	1 494 583	1 226 828	2 753 644	3	1
		2000..	10 178	369 874	7 859	15 493	240 954	1 699 394	1 280 972	2 925 076	2	1
		1999..	8 699	331 468	7 019	13 844	225 148	1 538 459	1 203 360	2 738 935	3	1
		1998..	8 786	310 014	6 692	13 623	204 412	1 460 370	1 181 521	2 634 025	1	3
		1997..	9 189	296 907	7 049	13 443	194 875	1 390 993	1 018 782	2 387 867	X	X
33592	Communication & energy wire & cable mfg	2001..	59 745	2 158 955	42 296	85 172	1 275 908	7 348 452	9 516 036	16 885 271	3	3
		2000..	62 070	2 300 707	46 137	97 485	1 412 238	8 422 447	11 984 152	20 269 973	2	2
		1999..	58 000	2 108 390	42 596	89 730	1 315 738	6 711 880	10 398 789	17 126 504	1	1
		1998..	56 126	2 003 744	40 171	86 921	1 215 838	6 515 459	8 767 842	15 269 963	1	2
		1997..	54 987	1 896 479	39 687	83 966	1 149 540	6 229 721	9 063 209	15 245 693	X	X
335921	Fiber optic cable mfg	2001..	10 984	464 670	7 453	15 029	267 070	2 401 460	1 909 161	4 314 759	3	2
		2000..	12 040	490 180	8 558	16 941	294 457	2 461 981	2 482 327	4 893 268	3	2
		1999..	9 860	430 761	6 925	14 414	284 350	1 641 570	2 069 377	3 741 798	4	2
		1998..	8 990	390 142	6 513	13 313	234 108	1 427 473	1 529 568	2 932 462	1	1
		1997..	8 630	366 045	6 233	12 341	217 617	1 373 769	1 453 212	2 772 428	X	X
335929	Other communication & energy wire mfg	2001..	48 761	1 694 285	34 843	70 142	1 008 838	4 946 992	7 606 874	12 570 511	3	5
		2000..	50 030	1 810 527	37 578	80 544	1 117 781	5 960 465	9 501 825	15 376 705	2	3
		1999..	48 140	1 677 628	35 671	75 316	1 031 388	5 070 311	8 329 412	13 384 706	1	2
		1998..	47 136	1 613 602	33 658	73 608	981 730	5 087 986	7 238 274	12 337 501	1	2
		1997..	46 357	1 530 434	33 454	71 625	931 923	4 855 952	7 609 997	12 473 265	X	X
33593	Wiring device mfg	2001..	62 918	2 134 175	44 869	87 157	1 174 532	6 914 624	4 550 737	11 543 088	2	2
		2000..	68 538	2 232 878	50 321	98 262	1 287 666	7 587 274	4 886 687	12 420 617	2	3
		1999..	69 037	2 189 692	50 959	101 833	1 296 151	7 312 349	4 647 817	11 930 237	2	2
		1998..	70 605	2 166 451	51 366	103 638	1 304 099	6 911 388	4 682 159	11 664 378	1	3
		1997..	68 447	2 080 658	50 100	99 717	1 241 203	6 008 044	4 313 753	10 328 708	X	X
335931	Current-carrying wiring device mfg	2001..	39 973	1 282 760	28 113	53 179	694 371	4 058 409	2 292 178	6 396 409	4	3
		2000..	44 449	1 400 116	32 095	61 643	790 474	4 630 661	2 694 011	7 293 888	4	4
		1999..	45 479	1 385 488	33 024	63 523	797 208	4 530 581	2 529 934	7 053 095	3	3
		1998..	46 125	1 368 999	33 526	65 502	810 059	4 053 665	2 500 536	6 594 066	1	2
		1997..	44 907	1 293 583	32 867	63 417	754 029	3 553 666	2 326 114	5 877 522	X	X
335932	Noncurrent-carrying wiring device mfg	2001..	22 945	851 415	16 755	33 978	480 161	2 856 215	2 258 559	5 146 679	1	4
		2000..	24 090	832 761	18 226	36 619	497 193	2 956 613	2 192 676	5 126 729	1	3
		1999..	23 558	804 204	17 934	38 310	498 943	2 781 768	2 117 883	4 877 143	1	3
		1998..	24 480	797 451	17 840	38 137	494 040	2 857 723	2 181 623	5 070 312	1	7
		1997..	23 540	787 075	17 233	36 300	487 174	2 454 378	1 987 639	4 451 186	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
335	Electrical equipment, appliance, & component mfg—Con.											
3359	Other electrical equipment & component mfg—Con.											
33599	All other electrical equipment & component mfg	2001..	56 617	2 084 507	35 337	70 155	924 056	5 049 014	4 946 104	10 022 166	3	3
		2000..	57 725	2 201 356	36 254	72 454	982 943	6 055 296	5 531 269	11 456 441	2	4
		1999..	56 261	2 041 748	35 771	71 721	934 498	5 398 217	4 673 545	10 081 037	2	4
		1998..	57 794	2 022 791	37 676	73 804	966 740	5 437 120	4 540 953	9 985 555	1	2
		1997..	56 331	1 940 600	36 558	72 738	936 527	5 054 323	4 372 115	9 380 500	X	X
335991	Carbon & graphite product mfg	2001..	9 174	342 410	6 838	14 652	214 806	903 240	872 776	1 767 459	6	4
		2000..	9 959	371 014	7 313	15 934	239 095	1 026 224	1 038 824	2 062 003	5	3
		1999..	10 290	378 493	7 641	16 448	247 837	1 037 140	1 007 647	2 099 032	3	3
		1998..	10 562	397 049	7 860	17 098	267 714	1 277 986	1 054 709	2 301 956	2	1
		1997..	10 691	397 781	7 980	17 533	261 158	1 267 908	1 096 041	2 340 732	X	X
335999	All other miscellaneous electrical equipment & component mfg	2001..	47 444	1 742 097	28 499	55 503	709 250	4 145 774	4 073 327	8 254 707	3	4
		2000..	47 766	1 830 342	28 941	56 520	743 847	5 029 072	4 492 445	9 394 438	3	4
		1999..	45 971	1 663 255	28 130	55 273	686 660	4 361 077	3 665 898	7 982 005	2	5
		1998..	47 232	1 625 742	29 816	56 706	699 026	4 159 134	3 486 244	7 683 599	2	2
		1997..	45 640	1 542 819	28 578	55 205	675 369	3 786 415	3 276 074	7 039 768	X	X
336	Transportation equipment mfg	2001..	1 717 633	80 415 734	1 246 508	2 493 750	51 551 334	227 675 342	374 692 947	602 495 870	1	1
		2000..	1 837 523	87 032 802	1 351 740	2 762 722	57 732 157	234 392 083	398 790 446	639 861 284	1	1
		1999..	1 873 543	87 236 224	1 370 711	2 846 163	57 221 206	263 782 885	411 905 518	676 328 002	1	1
		1998..	1 886 700	82 177 792	1 370 994	2 788 131	52 704 605	245 618 666	375 416 369	612 881 747	1	1
		1997..	1 842 315	79 616 518	1 340 735	2 734 790	51 450 169	227 510 551	348 121 929	575 306 996	X	X
3361	Motor vehicle mfg	2001..	213 981	12 646 658	186 209	373 148	10 550 709	54 172 827	161 690 645	216 127 725	1	1
		2000..	230 544	14 566 681	200 898	409 454	12 318 435	61 627 698	178 071 544	239 473 356	1	1
		1999..	233 052	14 413 748	204 911	431 353	12 283 486	77 424 682	190 035 528	267 399 973	1	1
		1998..	234 960	12 957 724	204 676	405 542	10 771 759	66 288 674	162 893 833	229 324 666	1	1
		1997..	236 247	13 022 700	207 368	423 564	10 905 978	72 574 976	147 707 890	220 052 857	X	X
33611	Automobile & light duty motor vehicle mfg	2001..	186 527	11 434 782	165 090	335 684	9 716 288	51 756 368	151 626 539	203 514 317	1	1
		2000..	195 511	12 947 287	172 508	357 424	11 141 258	56 880 501	163 252 652	219 945 358	1	1
		1999..	196 035	12 681 263	174 583	370 498	10 959 572	72 384 125	172 761 918	245 131 545	1	1
		1998..	201 366	11 518 511	177 069	352 161	9 658 097	60 409 729	150 640 297	211 202 751	1	1
		1997..	207 838	11 804 330	184 298	377 637	9 966 886	68 314 274	137 408 998	205 543 825	X	X
336111	Automobile mfg	2001..	91 062	5 387 755	78 607	159 580	4 444 888	25 773 401	61 248 255	87 046 267	1	1
		2000..	94 703	6 013 110	82 193	168 362	5 063 128	29 035 152	69 748 670	98 759 950	1	1
		1999..	96 744	5 861 174	84 079	170 925	4 934 432	30 302 676	69 514 391	99 802 500	1	1
		1998..	109 196	6 054 334	92 527	180 113	4 827 121	27 124 913	69 454 328	96 707 919	1	1
		1997..	113 820	6 404 445	97 859	197 349	5 190 889	28 937 270	66 543 755	95 365 667	X	X
336112	Light truck & utility vehicle mfg	2001..	95 465	6 047 028	86 483	176 104	5 271 400	25 982 966	90 378 285	116 468 050	1	1
		2000..	100 808	6 934 177	90 316	189 061	6 078 131	27 845 348	93 503 982	121 185 408	1	1
		1999..	99 291	6 820 089	90 504	199 573	6 025 140	42 081 449	103 247 527	145 329 045	1	1
		1998..	92 170	5 464 176	84 542	172 048	4 830 976	33 284 816	81 185 970	114 494 833	1	1
		1997..	94 018	5 399 885	86 439	180 288	4 775 997	39 377 004	70 865 243	110 178 158	X	X
33612	Heavy duty truck mfg	2001..	27 454	1 211 876	21 119	37 464	834 421	2 416 459	10 064 106	12 613 408	1	1
		2000..	35 033	1 619 393	28 390	52 030	1 177 176	4 747 197	14 818 892	19 527 998	1	1
		1999..	37 018	1 732 485	30 328	60 855	1 323 914	5 040 557	17 273 610	22 268 429	1	1
		1998..	33 594	1 439 213	27 606	53 381	1 113 662	5 878 945	12 253 536	18 121 914	1	1
		1997..	28 409	1 218 370	23 070	45 927	939 092	4 260 702	10 298 892	14 509 032	X	X
336120	Heavy duty truck mfg	2001..	27 454	1 211 876	21 119	37 464	834 421	2 416 459	10 064 106	12 613 408	1	1
		2000..	35 033	1 619 393	28 390	52 030	1 177 176	4 747 197	14 818 892	19 527 998	1	1
		1999..	37 018	1 732 485	30 328	60 855	1 323 914	5 040 557	17 273 610	22 268 429	1	1
		1998..	33 594	1 439 213	27 606	53 381	1 113 662	5 878 945	12 253 536	18 121 914	1	1
		1997..	28 409	1 218 370	23 070	45 927	939 092	4 260 702	10 298 892	14 509 032	X	X
3362	Motor vehicle body & trailer mfg	2001..	123 120	3 807 348	97 153	185 888	2 569 971	8 417 298	15 519 817	24 209 375	2	3
		2000..	136 658	4 205 952	111 066	215 864	2 908 146	9 871 325	17 655 467	27 370 506	2	3
		1999..	137 608	4 109 735	112 953	224 868	2 900 181	10 158 942	18 578 003	28 519 187	1	2
		1998..	129 031	3 631 182	104 006	205 219	2 514 823	8 474 444	17 075 190	25 789 267	1	3
		1997..	125 015	3 386 084	100 081	197 511	2 322 488	7 693 717	15 335 443	23 007 668	X	X
33621	Motor vehicle body & trailer mfg	2001..	123 120	3 807 348	97 153	185 888	2 569 971	8 417 298	15 519 817	24 209 375	2	3
		2000..	136 658	4 205 952	111 066	215 864	2 908 146	9 871 325	17 655 467	27 370 506	2	3
		1999..	137 608	4 109 735	112 953	224 868	2 900 181	10 158 942	18 578 003	28 519 187	1	2
		1998..	129 031	3 631 182	104 006	205 219	2 514 823	8 474 444	17 075 190	25 789 267	1	3
		1997..	125 015	3 386 084	100 081	197 511	2 322 488	7 693 717	15 335 443	23 007 668	X	X
336211	Motor vehicle body mfg	2001..	41 771	1 325 193	30 934	60 214	849 587	3 872 955	6 659 260	10 534 742	3	4
		2000..	43 844	1 423 886	33 636	66 921	949 615	3 843 881	6 546 752	10 334 902	3	4
		1999..	43 170	1 374 014	33 786	68 593	944 192	3 825 866	6 779 341	10 520 313	2	3
		1998..	43 306	1 267 038	32 863	66 373	854 051	2 982 920	6 404 325	9 695 984	3	9
		1997..	42 773	1 225 282	32 582	65 628	834 399	2 995 537	6 008 290	9 008 512	X	X
336212	Truck trailer mfg	2001..	26 360	824 686	20 830	42 202	579 621	1 490 664	2 777 119	4 295 676	3	5
		2000..	34 260	1 026 407	28 860	58 507	774 849	2 218 527	4 172 909	6 379 697	2	3
		1999..	34 984	988 478	29 838	59 664	738 651	2 362 530	4 423 222	6 721 755	2	3
		1998..	31 909	905 967	26 732	53 024	644 268	2 118 779	4 290 485	6 380 428	2	2
		1997..	30 648	835 977	25 633	50 446	577 684	1 788 126	3 766 432	5 504 115	X	X
336213	Motor home mfg	2001..	16 102	501 891	13 064	22 762	346 029	812 414	2 358 954	3 344 510	5	20
		2000..	18 532	556 291	15 336	26 951	368 346	1 353 180	3 051 749	4 364 697	4	6
		1999..	20 391	651 724	16 748	33 237	450 497	1 688 928	3 695 063	5 311 038	3	4
		1998..	18 306	542 184	15 239	29 188	380 346	1 340 295	3 126 531	4 465 757	1	1
		1997..	17 801	499 374	14 484	29 409	351 814	1 178 051	2 689 793	3 894 350	X	X
336214	Travel trailer & camper mfg	2001..	38 887	1 155 578	32 325	60 709	794 734	2 241 265	3 724 485	6 034 446	5	7
		2000..	40 023	1 199 368	33 235	63 485	815 336	2 455 736	3 884 057	6 291 210	4	7
		1999..	39 062	1 095 519	32 582	63 374	766 842	2 281 617	3 680 377	5 966 081	3	5
		1998..	35 510	915 992	29 172	56 634	636 159	2 032 450	3 253 849	5 247 098	1	3
		1997..	33 793	825 451	27 382	52 028	558 591	1 732 003	2 870 928	4 600 691	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
336	Transportation equipment mfg—Con.											
3363	Motor vehicle parts mfg	2001..	736 003	31 500 609	584 613	1 168 410	22 833 137	74 532 277	111 305 069	186 838 614	2	1
		2000..	802 575	35 316 707	642 813	1 322 332	26 271 405	84 481 291	120 332 145	204 336 085	1	1
		1999..	799 174	34 606 160	646 318	1 362 409	26 091 373	85 426 254	117 281 767	202 797 009	1	1
		1998..	789 564	31 382 928	636 478	1 319 964	23 232 554	77 370 457	107 424 385	184 476 031	1	1
		1997..	779 913	30 960 765	629 873	1 305 668	23 163 024	73 797 867	104 504 958	178 511 569	X	X
33631	Motor vehicle gasoline engine & engine parts mfg	2001..	88 635	4 287 906	73 021	149 350	3 320 080	9 764 071	18 285 226	28 201 527	3	2
		2000..	96 349	4 723 221	79 568	169 775	3 701 696	11 596 613	19 915 982	31 455 824	2	2
		1999..	97 551	4 726 986	80 120	172 886	3 709 125	11 471 748	19 896 907	31 395 163	1	1
		1998..	98 593	4 214 555	80 082	164 962	3 194 112	10 680 155	18 741 527	29 398 517	1	1
		1997..	97 823	4 184 639	79 694	166 573	3 192 555	9 597 585	18 860 266	28 518 227	X	X
336311	Carburetor, piston, piston ring, & valve mfg	2001..	16 656	745 335	13 944	27 880	568 495	1 651 295	1 236 481	2 907 373	7	5
		2000..	17 748	770 909	14 935	31 670	587 409	1 853 315	1 460 724	3 279 214	5	4
		1999..	17 341	735 552	14 268	30 735	567 225	1 757 693	1 336 803	3 108 445	4	1
		1998..	17 706	709 099	14 579	30 761	536 278	1 676 075	1 225 645	2 913 458	1	2
		1997..	17 241	663 961	14 285	29 836	504 719	1 587 949	1 138 820	2 731 573	X	X
336312	Gasoline engine & engine parts mfg	2001..	71 979	3 542 570	59 077	121 470	2 751 585	8 112 777	17 048 745	25 294 154	3	3
		2000..	78 600	3 952 312	64 633	138 105	3 114 287	9 743 298	18 455 258	28 176 610	2	2
		1999..	80 209	3 991 435	65 853	142 151	3 141 900	9 714 054	18 560 105	28 286 717	1	1
		1998..	80 887	3 505 457	65 503	134 201	2 657 834	9 004 079	17 515 882	26 485 059	1	1
		1997..	80 582	3 520 678	65 409	136 737	2 687 836	8 009 636	17 721 446	25 786 654	X	X
33632	Motor vehicle electrical & electronic equipment mfg	2001..	109 477	4 312 399	80 650	152 674	2 805 069	10 006 868	13 221 474	23 309 987	6	4
		2000..	117 619	4 549 045	85 856	165 288	2 994 419	11 513 398	14 308 387	25 768 097	7	5
		1999..	117 577	4 359 549	90 002	171 619	3 006 142	11 753 691	14 402 141	26 321 651	6	4
		1998..	114 955	3 928 384	88 420	173 132	2 654 929	10 555 525	12 342 813	22 793 425	1	1
		1997..	114 196	3 981 222	87 803	169 589	2 707 223	9 574 476	11 940 488	21 633 391	X	X
336321	Vehicular lighting equipment mfg	2001..	14 665	640 350	10 913	21 079	413 094	1 354 040	1 390 238	2 779 756	3	3
		2000..	15 055	646 218	11 135	22 467	422 033	1 549 051	1 433 008	2 991 940	2	2
		1999..	17 233	681 882	12 954	26 671	471 551	1 709 582	1 557 389	3 312 655	2	2
		1998..	15 660	603 249	12 109	24 232	430 755	1 494 845	1 641 398	3 137 546	1	1
		1997..	16 624	631 881	12 990	26 628	445 699	1 612 341	1 714 351	3 336 152	X	X
336322	Other motor vehicle electrical & electronic equipment mfg	2001..	94 812	3 672 049	69 737	131 595	2 391 975	8 652 828	11 831 236	20 530 231	7	4
		2000..	102 564	3 902 827	74 721	142 821	2 572 386	9 964 347	12 875 379	22 776 157	8	6
		1999..	100 345	3 677 666	77 048	144 948	2 534 592	10 044 109	12 844 751	23 008 996	8	4
		1998..	99 295	3 325 135	76 310	148 900	2 224 174	9 060 679	10 701 416	19 655 879	1	1
		1997..	97 572	3 349 341	74 813	142 961	2 261 524	7 962 135	10 226 137	18 297 239	X	X
33633	Motor vehicle steering & suspension component (except spring) mfg	2001..	47 015	2 207 265	38 239	78 959	1 629 585	4 591 148	5 424 084	10 043 770	3	3
		2000..	50 972	2 505 777	41 706	87 090	1 918 991	5 332 413	5 896 470	11 239 734	2	2
		1999..	48 747	2 508 828	40 494	90 127	1 972 590	5 645 636	5 701 018	11 316 314	2	2
		1998..	47 682	2 269 812	39 120	85 533	1 776 050	5 117 585	5 423 741	10 589 773	1	1
		1997..	48 676	2 341 273	40 079	86 039	1 819 005	5 234 835	5 424 087	10 632 673	X	X
336330	Motor vehicle steering & suspension component (except spring) mfg	2001..	47 015	2 207 265	38 239	78 959	1 629 585	4 591 148	5 424 084	10 043 770	3	3
		2000..	50 972	2 505 777	41 706	87 090	1 918 991	5 332 413	5 896 470	11 239 734	2	2
		1999..	48 747	2 508 828	40 494	90 127	1 972 590	5 645 636	5 701 018	11 316 314	2	2
		1998..	47 682	2 269 812	39 120	85 533	1 776 050	5 117 585	5 423 741	10 589 773	1	1
		1997..	48 676	2 341 273	40 079	86 039	1 819 005	5 234 835	5 424 087	10 632 673	X	X
33634	Motor vehicle brake system mfg	2001..	38 736	1 420 081	29 542	59 591	988 561	4 259 525	6 343 209	10 635 553	2	1
		2000..	44 331	1 610 497	34 964	66 507	1 139 154	4 766 408	7 585 631	12 201 040	3	2
		1999..	44 638	1 690 889	34 940	71 965	1 221 628	4 761 678	7 764 182	12 548 948	4	3
		1998..	45 807	1 551 511	36 800	73 136	1 130 869	4 140 406	6 906 829	11 075 700	3	2
		1997..	43 146	1 503 210	34 319	71 184	1 077 541	4 046 472	6 952 820	10 981 044	X	X
336340	Motor vehicle brake system mfg	2001..	38 736	1 420 081	29 542	59 591	988 561	4 259 525	6 343 209	10 635 553	2	1
		2000..	44 331	1 610 497	34 964	66 507	1 139 154	4 766 408	7 585 631	12 201 040	3	2
		1999..	44 638	1 690 889	34 940	71 965	1 221 628	4 761 678	7 764 182	12 548 948	4	3
		1998..	45 807	1 551 511	36 800	73 136	1 130 869	4 140 406	6 906 829	11 075 700	3	2
		1997..	43 146	1 503 210	34 319	71 184	1 077 541	4 046 472	6 952 820	10 981 044	X	X
33635	Motor vehicle transmission & power train parts mfg	2001..	98 753	5 178 072	79 306	171 176	4 018 701	13 304 811	17 775 185	31 466 013	6	5
		2000..	112 244	6 146 968	91 851	202 824	4 928 375	14 533 106	20 777 554	35 102 644	4	4
		1999..	111 338	5 913 253	91 212	208 670	4 760 964	14 675 664	20 303 019	35 003 923	3	3
		1998..	102 538	5 182 986	84 641	192 923	4 118 730	11 807 095	18 948 620	30 515 993	1	1
		1997..	100 605	4 982 175	82 810	184 487	3 965 743	11 916 802	18 166 804	30 105 923	X	X
336350	Motor vehicle transmission & power train parts mfg	2001..	98 753	5 178 072	79 306	171 176	4 018 701	13 304 811	17 775 185	31 466 013	6	5
		2000..	112 244	6 146 968	91 851	202 824	4 928 375	14 533 106	20 777 554	35 102 644	4	4
		1999..	111 338	5 913 253	91 212	208 670	4 760 964	14 675 664	20 303 019	35 003 923	3	3
		1998..	102 538	5 182 986	84 641	192 923	4 118 730	11 807 095	18 948 620	30 515 993	1	1
		1997..	100 605	4 982 175	82 810	184 487	3 965 743	11 916 802	18 166 804	30 105 923	X	X
33636	Motor vehicle seating & interior trim mfg	2001..	52 670	1 674 559	42 269	79 697	1 176 401	4 351 091	10 441 462	14 813 946	3	2
		2000..	58 028	2 028 678	45 758	92 445	1 408 694	5 100 678	10 590 957	15 652 142	2	2
		1999..	55 455	1 972 061	44 691	92 514	1 400 220	5 104 507	9 393 541	14 463 541	2	1
		1998..	48 898	1 636 272	39 405	80 870	1 157 437	4 181 234	8 191 822	12 379 665	1	4
		1997..	47 885	1 532 785	38 220	78 425	1 100 800	4 272 286	7 612 024	11 869 070	X	X
336360	Motor vehicle seating & interior trim mfg	2001..	52 670	1 674 559	42 269	79 697	1 176 401	4 351 091	10 441 462	14 813 946	3	2
		2000..	58 028	2 028 678	45 758	92 445	1 408 694	5 100 678	10 590 957	15 652 142	2	2
		1999..	55 455	1 972 061	44 691	92 514	1 400 220	5 104 507	9 393 541	14 463 541	2	1
		1998..	48 898	1 636 272	39 405	80 870	1 157 437	4 181 234	8 191 822	12 379 665	1	4
		1997..	47 885	1 532 785	38 220	78 425	1 100 800	4 272 286	7 612 024	11 869 070	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
336	Transportation equipment mfg—Con.											
3363	Motor vehicle parts mfg—Con.											
33637	Motor vehicle metal stamping	2001	112 488	5 391 757	94 033	190 553	4 288 393	9 899 453	11 835 530	21 858 253	3	4
		2000	117 012	6 027 139	98 437	207 820	4 814 826	11 203 829	12 774 960	24 025 620	3	3
		1999	118 695	5 927 922	100 356	217 234	4 722 463	11 919 991	12 870 092	24 775 866	2	2
		1998	123 214	5 461 784	101 246	215 481	4 122 568	11 489 675	12 686 748	24 126 992	1	1
		1997	126 668	5 642 120	105 248	226 337	4 418 773	10 915 335	12 677 687	23 633 912	X	X
336370	Motor vehicle metal stamping	2001	112 488	5 391 757	94 033	190 553	4 288 393	9 899 453	11 835 530	21 858 253	3	4
		2000	117 012	6 027 139	98 437	207 820	4 814 826	11 203 829	12 774 960	24 025 620	3	3
		1999	118 695	5 927 922	100 356	217 234	4 722 463	11 919 991	12 870 092	24 775 866	2	2
		1998	123 214	5 461 784	101 246	215 481	4 122 568	11 489 675	12 686 748	24 126 992	1	1
		1997	126 668	5 642 120	105 248	226 337	4 418 773	10 915 335	12 677 687	23 633 912	X	X
33639	Other motor vehicle parts mfg	2001	188 229	7 028 570	147 553	286 411	4 606 347	18 355 310	27 978 901	46 509 566	2	2
		2000	206 021	7 725 383	164 673	330 583	5 365 248	20 434 845	28 482 205	48 890 985	2	2
		1999	205 173	7 506 672	164 503	337 394	5 298 241	20 093 339	26 950 868	46 971 604	2	2
		1998	207 877	7 137 624	166 765	333 927	5 077 860	19 398 782	24 182 283	43 595 966	1	1
		1997	200 914	6 793 341	161 700	323 034	4 881 384	18 240 076	22 870 782	41 137 329	X	X
336391	Motor vehicle air-conditioning mfg	2001	19 594	1 054 336	16 031	32 042	799 321	2 355 087	3 287 899	5 623 073	1	1
		2000	20 393	1 058 060	16 880	35 301	797 107	2 175 068	3 173 022	5 364 668	1	1
		1999	21 477	1 169 656	17 829	39 831	886 614	2 713 599	3 363 162	6 065 425	1	1
		1998	21 310	999 087	17 402	38 405	755 741	2 606 692	3 001 970	5 568 484	1	1
		1997	21 522	1 053 943	17 504	38 953	821 334	2 701 288	2 875 912	5 626 596	X	X
336399	All other motor vehicle parts mfg	2001	168 635	5 974 234	131 522	254 368	3 807 026	16 000 223	24 691 002	40 886 493	3	2
		2000	185 628	6 667 323	147 793	295 281	4 568 141	18 259 777	25 309 184	43 526 317	2	2
		1999	183 696	6 337 017	146 674	297 563	4 411 627	17 379 741	23 587 706	40 906 180	2	2
		1998	186 567	6 138 537	149 363	295 521	4 322 118	16 792 090	21 180 313	38 027 482	1	1
		1997	179 392	5 739 398	144 196	284 081	4 060 050	15 538 788	19 994 870	35 510 733	X	X
3364	Aerospace product & parts mfg	2001	433 139	24 541 701	220 756	454 704	10 529 087	71 839 461	64 615 786	134 867 157	1	1
		2000	443 776	24 843 971	229 243	476 250	11 005 882	59 534 209	60 417 380	127 588 132	1	1
		1999	484 659	26 381 357	247 837	506 701	11 286 217	72 547 712	65 503 908	138 988 180	1	1
		1998	517 014	26 848 225	268 720	544 190	11 751 312	76 048 971	69 558 448	137 403 710	1	1
		1997	487 114	25 159 567	250 448	502 557	10 784 018	57 688 592	62 819 021	120 438 212	X	X
33641	Aerospace product & parts mfg	2001	433 139	24 541 701	220 756	454 704	10 529 087	71 839 461	64 615 786	134 867 157	1	1
		2000	443 776	24 843 971	229 243	476 250	11 005 882	59 534 209	60 417 380	127 588 132	1	1
		1999	484 659	26 381 357	247 837	506 701	11 286 217	72 547 712	65 503 908	138 988 180	1	1
		1998	517 014	26 848 225	268 720	544 190	11 751 312	76 048 971	69 558 448	137 403 710	1	1
		1997	487 114	25 159 567	250 448	502 557	10 784 018	57 688 592	62 819 021	120 438 212	X	X
336411	Aircraft mfg	2001	172 708	9 468 561	78 860	164 984	3 921 607	31 668 894	36 048 671	67 853 036	1	1
		2000	183 060	10 409 486	86 842	185 171	4 504 816	26 227 012	33 969 178	65 783 463	1	2
		1999	194 158	10 709 911	96 086	196 459	4 677 165	33 462 931	37 308 333	73 397 508	1	1
		1998	213 148	11 289 840	106 227	200 368	4 812 614	36 025 687	40 572 366	69 540 577	1	1
		1997	202 491	10 839 372	97 742	185 616	4 426 847	20 767 608	36 653 368	57 893 242	X	X
336412	Aircraft engine & engine parts mfg	2001	79 914	4 514 507	47 352	94 016	2 108 972	14 092 299	13 055 267	26 969 254	1	1
		2000	81 961	4 503 839	47 153	94 732	2 014 505	12 633 195	12 430 469	25 124 669	1	1
		1999	85 111	4 520 839	49 642	99 084	1 985 607	11 724 627	12 040 018	24 343 001	1	1
		1998	84 617	4 292 039	49 398	103 820	2 034 279	12 959 853	12 031 522	24 868 538	1	1
		1997	84 373	4 298 767	49 122	100 963	1 971 070	11 679 669	11 437 209	22 859 270	X	X
336413	Other aircraft part & auxiliary equipment mfg	2001	123 032	6 438 854	71 622	150 377	3 327 800	13 902 974	9 314 165	23 403 794	2	2
		2000	119 727	6 048 126	70 721	148 667	3 286 417	11 868 719	8 608 373	20 750 148	2	2
		1999	132 663	6 306 306	74 813	155 334	3 226 296	13 046 837	8 747 824	22 500 747	2	2
		1998	140 978	6 464 831	82 689	180 306	3 473 185	14 361 166	8 829 955	22 402 746	1	1
		1997	124 677	5 574 824	72 830	155 482	3 019 543	13 110 835	7 130 109	19 373 554	X	X
336414	Guided missile & space vehicle mfg	2001	36 649	2 821 132	12 487	23 701	690 708	10 251 036	5 207 890	13 600 509	1	1
		2000	38 295	2 682 083	13 376	24 873	681 127	6 644 577	4 385 514	12 831 945	1	1
		1999	48 748	3 517 507	14 936	30 645	817 374	11 739 833	6 165 952	14 963 338	1	1
		1998	53 085	3 429 407	17 967	34 739	868 777	9 949 990	6 697 429	16 475 701	1	1
		1997	51 398	3 123 246	18 500	35 996	815 692	9 492 504	6 141 862	16 247 363	X	X
336415	Guided missile & space vehicle propulsion unit & parts mfg	2001	15 324	1 020 983	6 292	13 245	292 872	1 447 351	665 825	2 244 443	1	1
		2000	14 688	898 320	6 485	13 619	307 268	1 656 263	707 460	2 258 172	1	1
		1999	17 911	1 038 530	7 592	15 542	366 744	1 996 055	921 613	2 879 775	1	1
		1998	18 430	1 068 768	7 812	15 569	367 833	2 139 050	968 871	3 030 060	1	1
		1997	17 738	1 031 920	7 903	15 557	363 756	2 062 154	1 061 215	3 101 378	X	X
336419	Other guided missile & space vehicle parts & auxiliary equip mfg	2001	5 512	277 665	4 143	8 382	187 128	476 907	323 967	796 121	1	1
		2000	6 044	302 118	4 666	9 188	211 748	504 443	316 385	839 735	1	1
		1999	6 068	288 265	4 769	9 637	213 031	577 428	320 169	903 811	2	1
		1998	6 755	303 339	4 627	9 388	194 624	613 225	458 305	1 086 089	1	1
		1997	6 437	291 438	4 351	8 943	187 110	575 822	395 258	963 405	X	X
3365	Railroad rolling stock mfg	2001	34 719	1 449 784	24 010	48 661	798 530	3 850 160	4 571 097	8 603 764	2	2
		2000	35 578	1 480 181	24 855	57 330	872 279	4 360 089	5 376 257	9 722 424	1	1
		1999	38 511	1 532 969	27 913	59 927	928 851	4 460 735	5 869 478	10 352 310	1	1
		1998	37 351	1 440 110	26 645	55 202	849 084	3 848 408	5 427 590	9 256 810	1	1
		1997	34 012	1 319 135	23 977	53 391	796 472	3 345 283	5 097 254	8 263 395	X	X
33651	Railroad rolling stock mfg	2001	34 719	1 449 784	24 010	48 661	798 530	3 850 160	4 571 097	8 603 764	2	2
		2000	35 578	1 480 181	24 855	57 330	872 279	4 360 089	5 376 257	9 722 424	1	1
		1999	38 511	1 532 969	27 913	59 927	928 851	4 460 735	5 869 478	10 352 310	1	1
		1998	37 351	1 440 110	26 645	55 202	849 084	3 848 408	5 427 590	9 256 810	1	1
		1997	34 012	1 319 135	23 977	53 391	796 472	3 345 283	5 097 254	8 263 395	X	X
336510	Railroad rolling stock mfg	2001	34 719	1 449 784	24 010	48 661	798 530	3 850 160	4 571 097	8 603 764	2	2
		2000	35 578	1 480 181	24 855	57 330	872 279	4 360 089	5 376 257	9 722 424	1	1
		1999	38 511	1 532 969	27 913	59 927	928 851	4 460 735	5 869 478	10 352 310	1	1
		1998	37 351	1 440 110	26 645	55 202	849 084	3 848 408	5 427 590	9 256 810	1	1
		1997	34 012	1 319 135	23 977	53 391	796 472	3 345 283	5 097 254	8 263 395	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees		Production workers			Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column—	
			Number[1]	Payroll ($1,000)	Number[1]	Hours (1,000)	Wages ($1,000)					
			A	B	C	D	E	F	G	H	A	F
336	Transportation equipment mfg—Con.											
3366	Ship & boat building	2001..	134 621	4 825 268	103 660	205 019	3 290 347	9 638 864	9 378 609	19 042 100	2	3
		2000..	144 951	5 012 299	111 872	221 796	3 408 734	10 013 316	9 768 801	19 662 982	2	3
		1999..	139 851	4 707 901	102 811	207 843	2 939 090	9 741 878	8 845 422	18 506 989	1	2
		1998..	137 756	4 461 362	102 268	204 270	2 796 839	9 497 641	7 616 381	17 081 844	1	1
		1997..	138 237	4 382 998	100 012	198 183	2 713 663	8 602 771	7 576 924	16 150 259	X	X
33661	Ship & boat building	2001..	134 621	4 825 268	103 660	205 019	3 290 347	9 638 864	9 378 609	19 042 100	2	3
		2000..	144 951	5 012 299	111 872	221 796	3 408 734	10 013 316	9 768 801	19 662 982	2	3
		1999..	139 851	4 707 901	102 811	207 843	2 939 090	9 741 878	8 845 422	18 506 989	1	2
		1998..	137 756	4 461 362	102 268	204 270	2 796 839	9 497 641	7 616 381	17 081 844	1	1
		1997..	138 237	4 382 998	100 012	198 183	2 713 663	8 602 771	7 576 924	16 150 259	X	X
336611	Ship building & repairing	2001..	84 458	3 439 474	63 484	127 230	2 322 890	6 438 138	5 364 694	11 802 832	2	4
		2000..	87 527	3 435 806	64 702	128 680	2 279 698	6 324 192	5 055 920	11 380 112	2	3
		1999..	88 963	3 336 632	61 022	124 658	1 969 858	6 328 784	4 742 177	11 070 960	2	3
		1998..	94 761	3 347 525	67 340	135 444	2 020 368	6 728 975	4 414 270	11 143 246	1	1
		1997..	97 065	3 353 414	66 964	133 665	2 019 168	6 202 797	4 340 164	10 542 961	X	X
336612	Boat building	2001..	50 163	1 385 794	40 176	77 788	967 458	3 200 726	4 013 915	7 239 268	3	4
		2000..	57 424	1 576 493	47 170	93 116	1 129 036	3 689 125	4 712 881	8 282 871	3	4
		1999..	50 888	1 371 270	41 789	83 184	969 232	3 413 094	4 103 245	7 436 028	2	3
		1998..	42 995	1 113 836	34 929	68 826	776 471	2 768 666	3 202 110	5 938 598	3	3
		1997..	41 172	1 029 584	33 048	64 518	694 495	2 399 974	3 236 760	5 607 298	X	X
3369	Other transportation equipment mfg	2001..	42 051	1 644 366	30 107	57 922	979 553	5 224 456	7 611 923	12 807 135	5	4
		2000..	43 440	1 607 010	30 992	59 696	947 277	4 504 155	7 168 852	11 707 798	5	3
		1999..	40 688	1 484 354	27 967	53 062	792 008	4 022 682	5 791 411	9 764 355	2	2
		1998..	41 024	1 456 262	28 201	53 744	788 233	4 090 070	5 420 542	9 549 417	1	1
		1997..	41 777	1 385 269	28 976	53 916	764 526	3 807 345	5 080 439	8 883 036	X	X
33699	Other transportation equipment mfg	2001..	42 051	1 644 366	30 107	57 922	979 553	5 224 456	7 611 923	12 807 135	5	4
		2000..	43 440	1 607 010	30 992	59 696	947 277	4 504 155	7 168 852	11 707 798	5	3
		1999..	40 688	1 484 354	27 967	53 062	792 008	4 022 682	5 791 411	9 764 355	2	2
		1998..	41 024	1 456 262	28 201	53 744	788 233	4 090 070	5 420 542	9 549 417	1	1
		1997..	41 777	1 385 269	28 976	53 916	764 526	3 807 345	5 080 439	8 883 036	X	X
336991	Motorcycle, bicycle, & parts mfg	2001..	15 033	639 319	10 786	19 650	417 595	1 832 611	1 814 645	3 656 994	6	4
		2000..	14 601	583 922	10 615	19 419	382 692	1 630 588	1 664 590	3 320 945	7	4
		1999..	14 817	576 106	10 326	19 303	327 130	1 476 930	1 599 759	3 054 747	4	3
		1998..	16 238	620 300	11 750	22 945	364 716	1 589 550	1 740 722	3 343 822	3	2
		1997..	17 151	622 286	12 782	24 384	367 140	1 605 782	1 802 377	3 382 689	X	X
336992	Military armored vehicle, tank, & tank component mfg	2001..	4 110	252 055	1 995	3 915	98 248	810 707	474 440	1 221 211	1	1
		2000..	4 378	251 402	2 070	4 347	90 870	719 004	387 524	1 128 565	1	1
		1999..	4 602	264 254	2 223	4 613	95 017	668 939	425 416	1 064 754	1	1
		1998..	5 042	257 996	2 312	4 934	105 279	730 743	443 792	1 172 724	1	1
		1997..	5 773	267 525	2 696	5 455	113 732	543 119	475 163	1 063 668	X	X
336999	All other transportation equipment mfg	2001..	22 908	752 992	17 327	34 357	463 710	2 581 138	5 322 838	7 928 930	9	7
		2000..	24 461	771 686	18 308	35 930	473 715	2 154 564	5 116 738	7 258 289	8	6
		1999..	21 269	643 994	15 418	29 146	369 861	1 876 813	3 766 236	5 644 854	3	4
		1998..	19 744	577 966	14 139	25 866	318 237	1 769 777	3 236 028	5 032 871	1	1
		1997..	18 853	495 458	13 498	24 077	283 654	1 658 444	2 802 899	4 436 679	X	X
337	Furniture & related product mfg	2001..	607 959	16 950 041	481 531	925 529	11 207 663	39 848 909	32 207 122	72 147 131	1	1
		2000..	641 000	17 613 061	513 666	995 448	11 821 683	41 823 944	33 642 909	75 107 164	1	1
		1999..	627 777	16 881 512	504 973	1 000 690	11 459 466	40 290 217	32 752 153	72 658 778	1	1
		1998..	625 436	16 047 844	505 849	993 152	10 935 232	37 810 264	31 959 813	69 615 766	1	1
		1997..	603 668	14 986 222	484 600	936 574	10 217 032	34 839 134	29 462 249	64 299 098	X	X
3371	Household & institutional furniture & kitchen cabinet mfg	2001..	395 718	10 107 391	325 177	619 121	7 088 331	22 683 210	19 605 762	42 393 609	1	1
		2000..	415 400	10 465 861	342 974	657 779	7 408 086	22 993 477	20 302 519	43 086 931	1	1
		1999..	408 183	10 082 948	339 559	669 763	7 241 606	22 560 200	19 785 909	42 120 210	1	1
		1998..	403 815	9 408 104	338 385	663 442	6 865 327	20 782 294	18 911 457	39 611 428	1	1
		1997..	388 438	8 767 969	322 677	613 756	6 358 136	19 152 783	17 280 609	36 418 307	X	X
33711	Wood kitchen cabinet & counter top mfg	2001..	115 803	3 169 476	91 669	180 805	2 189 787	7 333 607	5 038 276	12 333 554	2	2
		2000..	115 348	3 045 303	91 241	175 723	2 114 976	6 897 116	4 864 290	11 689 980	2	2
		1999..	106 635	2 774 165	84 781	170 686	1 924 415	6 211 651	4 470 428	10 664 732	2	2
		1998..	104 932	2 486 496	85 416	164 715	1 772 843	5 536 730	4 278 294	9 805 394	1	1
		1997..	99 266	2 320 124	79 704	151 337	1 643 229	5 155 365	3 874 217	9 029 834	X	X
337110	Wood kitchen cabinet & counter top mfg	2001..	115 803	3 169 476	91 669	180 805	2 189 787	7 333 607	5 038 276	12 333 554	2	2
		2000..	115 348	3 045 303	91 241	175 723	2 114 976	6 897 116	4 864 290	11 689 980	2	2
		1999..	106 635	2 774 165	84 781	170 686	1 924 415	6 211 651	4 470 428	10 664 732	2	2
		1998..	104 932	2 486 496	85 416	164 715	1 772 843	5 536 730	4 278 294	9 805 394	1	1
		1997..	99 266	2 320 124	79 704	151 337	1 643 229	5 155 365	3 874 217	9 029 834	X	X
33712	Household & institutional furniture mfg	2001..	279 915	6 937 916	233 509	438 316	4 898 544	15 349 603	14 567 487	30 060 055	1	2
		2000..	300 053	7 420 558	251 733	482 056	5 293 109	16 096 361	15 438 229	31 396 951	1	1
		1999..	301 548	7 308 784	254 777	499 077	5 317 191	16 348 549	15 315 482	31 455 478	1	1
		1998..	298 882	6 921 608	252 969	498 727	5 092 484	15 245 564	14 633 162	29 806 034	1	1
		1997..	289 172	6 447 845	242 973	462 419	4 714 907	13 997 418	13 406 392	27 388 473	X	X
337121	Upholstered household furniture mfg	2001..	88 025	2 189 966	74 901	138 477	1 611 974	4 450 934	4 870 595	9 318 252	2	2
		2000..	94 248	2 325 714	80 447	150 790	1 753 643	4 562 869	5 073 386	9 608 430	2	2
		1999..	94 010	2 273 880	80 851	154 477	1 733 191	4 624 457	4 998 129	9 601 031	1	2
		1998..	92 426	2 099 641	79 705	151 210	1 614 763	4 213 349	4 759 436	8 971 462	1	1
		1997..	89 215	2 001 160	76 693	142 670	1 518 080	3 978 674	4 277 651	8 232 635	X	X
337122	Nonupholstered wood household furniture mfg	2001..	122 774	2 817 105	106 009	196 778	2 090 853	6 261 128	5 483 072	11 860 891	3	3
		2000..	133 884	3 100 569	116 413	222 705	2 309 286	6 904 329	6 146 481	12 990 611	2	2
		1999..	134 169	3 058 177	116 929	231 062	2 350 643	7 012 904	6 148 509	12 995 810	2	2
		1998..	132 404	2 922 443	116 049	233 547	2 260 276	6 574 031	5 867 494	12 372 652	1	2
		1997..	127 703	2 674 409	110 671	213 299	2 061 506	5 905 184	5 401 214	11 318 807	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
337	Furniture & related product mfg—Con.											
3371	Household & institutional furniture & kitchen cabinet mfg—Con.											
33712	Household & institutional furniture mfg—Con.											
337124	Metal household furniture mfg	2001..	20 896	531 851	16 691	31 912	338 047	1 477 078	1 568 886	3 033 845	3	3
		2000..	22 467	538 009	18 269	35 137	361 731	1 423 204	1 406 085	2 782 200	3	3
		1999..	21 433	511 298	17 356	35 376	333 623	1 355 113	1 343 529	2 678 993	2	4
		1998..	23 704	543 026	19 104	38 473	377 751	1 353 380	1 297 366	2 651 401	2	4
		1997..	22 827	505 291	18 317	35 805	341 075	1 235 159	1 178 039	2 417 293	X	X
337125	Household furniture (except wood & metal) mfg	2001..	4 488	117 287	3 391	7 022	67 426	275 801	291 278	582 032	8	6
		2000..	4 923	125 630	3 797	7 578	71 833	300 818	341 127	648 254	8	6
		1999..	5 123	127 594	4 077	7 833	80 811	316 220	341 382	654 319	6	7
		1998..	4 058	93 465	3 174	6 362	64 663	197 358	250 874	452 297	6	6
		1997..	4 619	110 506	3 654	7 323	78 157	271 862	279 543	547 227	X	X
337127	Institutional furniture mfg	2001..	40 441	1 203 782	29 623	58 617	731 383	2 737 121	2 228 852	4 993 929	4	4
		2000..	41 047	1 254 317	29 804	59 992	737 854	2 777 528	2 328 332	5 098 119	2	3
		1999..	42 826	1 250 652	32 164	63 249	752 667	2 898 260	2 311 725	5 216 224	2	3
		1998..	41 927	1 173 177	31 114	61 283	704 080	2 753 576	2 305 251	5 051 833	2	3
		1997..	40 442	1 069 509	29 865	55 905	649 263	2 456 703	2 109 640	4 554 577	X	X
337129	Wood television, radio, & sewing machine cabinet mfg	2001..	3 291	77 925	2 893	5 509	58 861	147 541	124 804	271 106	9	5
		2000..	3 483	76 320	3 002	5 855	58 762	127 612	142 817	269 336	6	6
		1999..	3 987	87 184	3 400	7 080	66 255	141 594	172 207	309 101	4	3
		1998..	4 362	89 857	3 824	7 852	70 951	153 870	152 741	306 389	1	2
		1997..	4 366	86 970	3 773	7 417	66 826	149 836	160 305	317 934	X	X
3372	Office furniture (including fixtures) mfg	2001..	166 686	5 538 300	122 690	241 880	3 343 332	13 254 775	8 867 592	22 117 129	3	3
		2000..	177 238	5 815 694	134 854	268 077	3 618 594	15 019 546	9 509 566	24 401 205	2	3
		1999..	173 446	5 552 511	131 497	265 124	3 474 484	14 111 150	9 215 855	23 203 966	2	2
		1998..	176 912	5 489 683	134 630	263 409	3 359 363	13 445 768	9 459 064	22 846 244	1	1
		1997..	172 723	5 172 846	130 849	260 647	3 222 483	12 559 656	8 947 675	21 517 554	X	X
33721	Office furniture (including fixtures) mfg	2001..	166 686	5 538 300	122 690	241 880	3 343 332	13 254 775	8 867 592	22 117 129	3	3
		2000..	177 238	5 815 694	134 854	268 077	3 618 594	15 019 546	9 509 566	24 401 205	2	3
		1999..	173 446	5 552 511	131 497	265 124	3 474 484	14 111 150	9 215 855	23 203 966	2	2
		1998..	176 912	5 489 683	134 630	263 409	3 359 363	13 445 768	9 459 064	22 846 244	1	1
		1997..	172 723	5 172 846	130 849	260 647	3 222 483	12 559 656	8 947 675	21 517 554	X	X
337211	Wood office furniture mfg	2001..	30 823	907 550	24 916	50 933	611 742	2 147 767	1 648 478	3 768 576	6	8
		2000..	32 121	965 806	26 409	56 117	661 835	2 491 985	1 787 409	4 243 303	5	9
		1999..	30 115	853 209	24 680	49 564	591 952	2 122 031	1 531 666	3 617 685	4	6
		1998..	30 535	800 091	25 206	47 402	557 393	1 908 178	1 331 612	3 226 753	3	2
		1997..	30 106	766 094	24 229	49 390	528 848	1 744 454	1 276 399	3 021 800	X	X
337212	Custom architectural woodwork & millwork mfg	2001..	24 579	796 481	17 214	33 148	450 025	1 528 325	1 034 666	2 559 754	5	6
		2000..	26 746	890 048	19 086	36 326	507 982	1 743 899	1 009 095	2 732 511	4	8
		1999..	25 442	804 162	17 846	34 765	471 374	1 644 513	909 861	2 544 363	3	7
		1998..	25 248	793 437	17 375	34 567	447 228	1 499 446	920 769	2 419 287	4	7
		1997..	24 390	719 926	17 351	32 733	430 466	1 352 631	848 718	2 205 019	X	X
337214	Office furniture (except wood) mfg	2001..	39 483	1 641 125	27 436	57 010	923 673	4 810 662	2 660 492	7 460 675	3	2
		2000..	43 089	1 690 560	31 269	62 713	1 003 673	5 649 387	3 117 120	8 754 971	3	1
		1999..	43 118	1 696 107	30 906	63 488	988 669	5 477 342	3 255 738	8 691 567	2	1
		1998..	45 803	1 713 334	34 159	70 027	1 011 151	5 400 214	3 273 926	8 673 470	1	1
		1997..	44 414	1 625 080	32 440	69 641	982 053	5 018 286	3 306 678	8 341 389	X	X
337215	Showcase, partition, shelving, & locker mfg	2001..	71 800	2 193 144	53 124	100 790	1 357 892	4 768 021	3 523 956	8 328 123	5	6
		2000..	75 282	2 269 280	58 090	112 920	1 445 103	5 134 275	3 595 942	8 670 420	5	5
		1999..	74 771	2 199 033	58 064	117 306	1 422 489	4 867 264	3 518 590	8 350 351	4	5
		1998..	75 325	2 182 822	57 891	111 413	1 343 590	4 637 930	3 932 756	8 526 734	2	2
		1997..	73 813	2 061 746	56 829	108 883	1 281 116	4 444 285	3 515 880	7 949 346	X	X
3379	Other furniture related product mfg	2001..	45 556	1 304 350	33 663	64 528	776 000	3 910 924	3 733 768	7 636 393	3	3
		2000..	48 362	1 331 506	35 837	69 591	795 003	3 810 921	3 830 824	7 619 027	3	3
		1999..	46 148	1 246 053	33 918	65 803	743 375	3 618 868	3 750 388	7 334 602	2	3
		1998..	44 709	1 150 057	32 834	66 301	710 543	3 582 202	3 589 293	7 158 094	1	3
		1997..	42 507	1 045 407	31 074	62 171	636 413	3 126 695	3 233 965	6 363 237	X	X
33791	Mattress mfg	2001..	25 309	744 661	19 694	38 738	461 796	2 520 173	2 299 979	4 814 694	4	4
		2000..	26 322	755 945	20 570	40 366	468 051	2 519 828	2 396 215	4 905 971	3	3
		1999..	24 532	689 855	18 693	37 106	422 917	2 243 493	2 184 137	4 413 247	2	3
		1998..	23 897	662 960	17 950	36 373	404 709	2 248 626	2 144 072	4 382 806	1	2
		1997..	22 971	609 570	17 222	33 896	370 234	1 977 231	1 962 999	3 936 972	X	X
337910	Mattress mfg	2001..	25 309	744 661	19 694	38 738	461 796	2 520 173	2 299 979	4 814 694	4	4
		2000..	26 322	755 945	20 570	40 366	468 051	2 519 828	2 396 215	4 905 971	3	3
		1999..	24 532	689 855	18 693	37 106	422 917	2 243 493	2 184 137	4 413 247	2	3
		1998..	23 897	662 960	17 950	36 373	404 709	2 248 626	2 144 072	4 382 806	1	2
		1997..	22 971	609 570	17 222	33 896	370 234	1 977 231	1 962 999	3 936 972	X	X
33792	Blind & shade mfg	2001..	20 246	559 689	13 969	25 790	314 203	1 390 751	1 433 790	2 821 699	5	7
		2000..	22 040	575 561	15 266	29 225	326 953	1 291 093	1 434 609	2 713 056	4	6
		1999..	21 616	556 198	15 225	28 697	320 459	1 375 375	1 566 251	2 921 355	4	5
		1998..	20 812	487 097	14 884	29 928	305 833	1 333 576	1 445 221	2 775 287	3	6
		1997..	19 536	435 837	13 852	28 275	266 179	1 149 464	1 270 966	2 426 265	X	X
337920	Blind & shade mfg	2001..	20 246	559 689	13 969	25 790	314 203	1 390 751	1 433 790	2 821 699	5	7
		2000..	22 040	575 561	15 266	29 225	326 953	1 291 093	1 434 609	2 713 056	4	6
		1999..	21 616	556 198	15 225	28 697	320 459	1 375 375	1 566 251	2 921 355	4	5
		1998..	20 812	487 097	14 884	29 928	305 833	1 333 576	1 445 221	2 775 287	3	6
		1997..	19 536	435 837	13 852	28 275	266 179	1 149 464	1 270 966	2 426 265	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees: Number[1]	All employees: Payroll ($1,000)	Production workers: Number[1]	Production workers: Hours (1,000)	Production workers: Wages ($1,000)	Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column— A	Relative standard error of estimate[3] (percent) for column— F
			A	B	C	D	E	F	G	H	A	F
339	Miscellaneous mfg	2001..	725 077	24 988 556	481 154	934 835	12 075 172	71 372 182	45 004 389	116 201 090	1	1
		2000..	745 291	24 718 407	500 724	961 389	12 241 005	71 458 746	44 885 320	115 280 137	1	1
		1999..	738 039	23 468 611	497 360	957 978	11 876 854	66 772 427	42 168 817	108 290 263	1	1
		1998..	749 480	22 913 245	510 966	983 105	11 645 492	64 874 512	40 859 877	105 141 271	1	1
		1997..	725 396	21 618 204	492 558	938 191	10 970 663	61 452 548	38 263 345	99 729 798	X	X
3391	Medical equipment & supplies mfg	2001..	305 107	12 170 669	190 297	372 299	5 257 690	40 157 049	17 929 566	57 766 126	1	2
		2000..	307 529	11 762 265	192 045	368 412	5 134 376	38 081 736	16 343 040	53 928 349	1	2
		1999..	304 177	11 156 147	192 744	367 729	5 059 218	35 365 843	15 538 579	50 512 461	1	1
		1998..	312 553	11 078 106	200 425	381 872	5 029 991	33 801 020	15 590 605	49 273 788	1	1
		1997..	291 522	10 008 144	185 316	349 073	4 501 321	30 613 184	14 155 494	44 893 840	X	X
33911	Medical equipment & supplies mfg	2001..	305 107	12 170 669	190 297	372 299	5 257 690	40 157 049	17 929 566	57 766 126	1	2
		2000..	307 529	11 762 265	192 045	368 412	5 134 376	38 081 736	16 343 040	53 928 349	1	2
		1999..	304 177	11 156 147	192 744	367 729	5 059 218	35 365 843	15 538 579	50 512 461	1	1
		1998..	312 553	11 078 106	200 425	381 872	5 029 991	33 801 020	15 590 605	49 273 788	1	1
		1997..	291 522	10 008 144	185 316	349 073	4 501 321	30 613 184	14 155 494	44 893 840	X	X
339111	Laboratory apparatus & furniture mfg	2001..	16 452	765 095	9 377	19 076	295 820	1 680 869	1 127 413	2 772 433	5	5
		2000..	15 764	716 351	9 150	18 102	282 926	1 540 047	1 058 087	2 546 077	4	3
		1999..	15 461	642 453	8 580	16 976	259 946	1 318 439	1 000 329	2 339 637	3	3
		1998..	16 540	630 392	9 043	17 542	237 749	1 390 257	938 309	2 331 444	2	2
		1997..	16 626	609 237	9 055	18 054	240 692	1 344 180	874 568	2 220 507	X	X
339112	Surgical & medical instrument mfg	2001..	102 273	4 636 658	58 569	112 993	1 713 077	16 880 557	6 783 831	23 559 230	3	4
		2000..	103 653	4 421 627	58 273	112 101	1 661 079	16 317 796	5 717 279	21 778 210	3	3
		1999..	105 956	4 294 525	61 968	118 684	1 724 690	15 307 724	5 500 276	20 624 416	2	2
		1998..	108 837	4 257 081	65 163	124 613	1 736 104	14 311 821	5 673 796	19 940 659	1	1
		1997..	105 016	4 015 772	63 366	124 251	1 665 856	13 148 075	5 145 141	18 292 919	X	X
339113	Surgical appliance & supplies mfg	2001..	96 914	3 858 504	59 183	115 522	1 558 189	14 356 240	6 587 206	20 859 502	3	3
		2000..	98 956	3 860 516	62 036	118 247	1 581 429	13 218 738	6 358 969	19 453 188	3	3
		1999..	93 765	3 540 461	59 260	112 865	1 530 525	11 981 133	6 069 124	17 846 225	2	3
		1998..	91 574	3 488 634	57 380	109 760	1 444 610	11 331 734	5 804 073	17 043 966	1	2
		1997..	85 646	2 982 742	53 682	100 724	1 261 161	9 863 213	5 284 395	15 233 098	X	X
339114	Dental equipment & supplies mfg	2001..	17 734	696 790	10 978	21 340	310 215	2 040 652	1 157 145	3 174 498	4	4
		2000..	17 157	656 665	10 690	20 645	291 038	1 911 179	1 079 428	3 008 381	3	6
		1999..	18 137	662 509	11 490	21 864	291 515	1 893 899	1 056 340	2 931 978	3	4
		1998..	18 495	643 955	12 064	22 934	300 755	1 782 821	1 028 296	2 836 899	3	2
		1997..	17 806	605 765	11 646	21 694	281 684	1 717 856	957 869	2 666 147	X	X
339115	Ophthalmic goods mfg	2001..	23 766	867 963	17 031	31 196	456 552	2 801 270	1 603 843	4 356 197	5	4
		2000..	26 059	862 103	17 989	34 246	459 175	2 901 998	1 479 759	4 320 909	6	4
		1999..	27 413	860 468	18 592	35 645	459 255	2 815 323	1 329 087	4 129 661	5	3
		1998..	25 499	786 627	17 073	33 371	416 556	2 448 136	1 152 004	3 540 426	1	1
		1997..	25 274	770 994	16 982	33 503	404 597	2 387 162	1 096 286	3 497 595	X	X
339116	Dental laboratories	2001..	47 968	1 345 659	35 160	72 172	923 837	2 397 461	670 127	3 044 267	2	2
		2000..	45 940	1 245 002	33 907	65 071	858 729	2 191 977	649 518	2 821 584	2	2
		1999..	43 445	1 155 731	32 853	61 695	793 287	2 049 326	583 424	2 640 544	1	2
		1998..	51 607	1 271 416	39 703	73 652	894 215	2 536 251	994 127	3 580 395	1	2
		1997..	41 154	1 023 634	30 585	50 847	647 331	2 152 698	797 235	2 983 574	X	X
3399	Other miscellaneous mfg	2001..	419 970	12 817 886	290 857	562 536	6 817 482	31 215 133	27 074 824	58 434 964	1	1
		2000..	437 762	12 956 143	308 679	592 977	7 106 629	33 377 010	28 542 280	61 351 788	1	1
		1999..	433 863	12 312 464	304 616	590 249	6 817 635	31 406 584	26 630 238	57 777 803	1	1
		1998..	436 927	11 835 140	310 541	601 232	6 615 501	31 073 492	25 269 272	55 867 483	1	1
		1997..	433 874	11 610 060	307 242	589 118	6 469 342	30 839 364	24 107 851	54 835 958	X	X
33991	Jewelry & silverware mfg	2001..	61 091	1 657 512	42 650	80 720	915 979	3 998 576	4 802 440	8 845 215	3	3
		2000..	65 845	1 792 518	46 148	87 539	1 000 064	4 528 536	5 378 385	9 764 733	3	5
		1999..	63 163	1 671 122	43 739	81 244	922 307	4 228 925	5 116 458	9 258 456	2	5
		1998..	59 460	1 554 249	41 697	80 213	842 554	3 954 324	4 411 273	8 232 727	2	2
		1997..	61 104	1 531 249	43 226	78 930	847 312	3 991 201	4 343 722	8 303 714	X	X
339911	Jewelry (except costume) mfg	2001..	37 347	1 076 608	27 109	50 600	603 550	2 596 519	3 705 009	6 299 629	4	5
		2000..	40 108	1 127 036	28 893	53 848	636 651	2 966 728	4 056 798	6 893 391	3	7
		1999..	37 307	1 039 351	26 652	48 632	577 380	2 832 451	3 801 022	6 529 546	2	7
		1998..	32 963	892 326	22 815	44 654	471 760	2 321 931	2 988 871	5 260 814	3	4
		1997..	34 731	888 911	24 452	43 296	482 603	2 376 932	2 953 531	5 320 508	X	X
339912	Silverware & plated ware mfg	2001..	4 528	128 736	3 221	6 555	82 678	378 127	224 962	635 552	3	4
		2000..	5 626	173 776	4 176	8 459	111 317	516 766	305 770	798 117	4	5
		1999..	5 510	157 493	4 069	8 137	100 894	482 483	252 929	737 480	1	2
		1998..	6 357	205 640	4 460	8 913	115 487	575 720	381 096	918 815	2	1
		1997..	6 378	183 237	4 504	8 895	107 912	529 984	380 482	892 378	X	X
339913	Jewelers' material & lapidary work mfg	2001..	4 834	134 317	3 340	6 339	73 906	272 691	501 371	774 266	5	4
		2000..	5 258	145 830	3 690	7 526	86 216	260 135	571 467	825 149	4	5
		1999..	5 083	137 551	3 564	6 827	80 278	250 432	532 943	778 985	4	3
		1998..	5 503	122 170	3 893	6 875	65 133	255 239	485 350	737 408	5	6
		1997..	5 275	128 585	3 578	6 521	68 240	275 984	532 867	802 515	X	X
339914	Costume jewelry & novelty mfg	2001..	14 382	317 851	8 980	17 226	155 844	751 240	371 098	1 135 768	6	5
		2000..	14 852	345 875	9 388	17 706	165 880	784 908	444 350	1 248 076	6	5
		1999..	15 263	336 727	9 454	17 648	163 755	663 560	529 563	1 212 444	3	4
		1998..	14 636	334 112	10 529	19 771	190 175	801 433	555 956	1 315 691	4	5
		1997..	14 720	330 516	10 692	20 218	188 557	808 301	476 842	1 288 313	X	X
33992	Sporting & athletic goods mfg	2001..	69 059	2 088 406	48 637	94 862	1 076 619	6 233 714	5 564 264	11 844 936	3	3
		2000..	71 159	2 078 308	50 797	96 984	1 080 409	6 638 111	5 629 036	11 951 478	3	3
		1999..	64 557	1 796 553	46 357	88 295	976 966	5 600 859	5 031 830	10 550 617	3	2
		1998..	67 914	1 787 377	50 075	93 073	979 540	6 036 607	5 206 434	11 100 535	2	2
		1997..	68 586	1 826 631	49 893	94 756	1 004 057	5 866 075	4 755 192	10 633 528	X	X
339920	Sporting & athletic goods mfg	2001..	69 059	2 088 406	48 637	94 862	1 076 619	6 233 714	5 564 264	11 844 936	3	3
		2000..	71 159	2 078 308	50 797	96 984	1 080 409	6 638 111	5 629 036	11 951 478	3	3
		1999..	64 557	1 796 553	46 357	88 295	976 966	5 600 859	5 031 830	10 550 617	3	2
		1998..	67 914	1 787 377	50 075	93 073	979 540	6 036 607	5 206 434	11 100 535	2	2
		1997..	68 586	1 826 631	49 893	94 756	1 004 057	5 866 075	4 755 192	10 633 528	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees		Production workers			Value added ($1,000)	Total cost of materials ($1,000)	Total value of shipments[2] ($1,000)	Relative standard error of estimate[3] (percent) for column—	
			Number[1]	Payroll ($1,000)	Number[1]	Hours (1,000)	Wages ($1,000)					
			A	B	C	D	E	F	G	H	A	F
339	Miscellaneous mfg—Con.											
3399	Other miscellaneous mfg—Con.											
33993	Doll, toy, & game mfg	2001..	23 411	668 627	16 637	30 519	351 017	1 772 042	1 585 486	3 388 993	5	6
		2000..	25 711	699 161	19 182	35 757	398 614	1 868 364	1 802 336	3 710 067	3	6
		1999..	27 540	701 082	19 654	38 027	401 693	2 014 404	1 807 228	3 832 296	3	5
		1998..	31 798	801 232	22 997	44 108	451 888	2 401 974	1 980 934	4 348 021	3	4
		1997..	32 286	809 666	23 737	43 981	454 042	2 816 422	1 961 007	4 763 522	X	X
339931	Doll & stuffed toy mfg	2001..	2 597	62 358	1 629	3 091	30 275	168 695	123 500	295 674	15	21
		2000..	2 743	65 885	1 866	3 778	38 193	181 748	139 188	320 083	13	18
		1999..	3 278	70 521	2 371	4 675	44 967	208 263	140 754	343 002	9	14
		1998..	3 638	67 080	2 779	5 074	46 209	205 262	110 839	306 323	9	10
		1997..	3 386	63 582	2 520	4 525	41 548	194 644	104 614	300 678	X	X
339932	Game, toy, & children's vehicle mfg	2001..	20 813	606 269	15 008	27 428	320 742	1 603 346	1 461 986	3 093 320	5	7
		2000..	22 968	633 276	17 316	31 979	360 421	1 686 616	1 663 148	3 389 984	3	7
		1999..	24 262	630 561	17 283	33 352	356 726	1 806 141	1 666 474	3 489 295	3	5
		1998..	28 160	734 152	20 219	39 034	405 678	2 196 712	1 870 095	4 041 698	3	5
		1997..	28 900	746 084	21 217	39 456	412 494	2 621 778	1 856 393	4 462 844	X	X
33994	Office supplies (except paper) mfg	2001..	24 693	739 361	17 549	33 845	410 673	2 322 457	1 501 068	3 834 728	3	2
		2000..	26 405	767 566	18 968	37 216	451 643	2 327 043	1 736 980	4 131 635	2	2
		1999..	27 234	767 135	19 489	37 333	453 970	2 497 628	1 706 963	4 234 916	2	2
		1998..	29 592	812 939	20 569	41 429	472 047	2 616 060	1 824 530	4 405 622	1	2
		1997..	30 138	799 867	21 060	41 968	470 040	2 590 428	1 767 034	4 329 053	X	X
339941	Pen & mechanical pencil mfg	2001..	7 297	236 019	5 269	9 583	126 772	858 150	501 551	1 366 692	1	1
		2000..	8 153	265 613	5 970	11 768	166 665	914 194	629 127	1 593 920	1	1
		1999..	8 120	255 494	5 872	11 463	156 675	928 016	620 731	1 553 812	1	2
		1998..	8 816	283 311	6 357	12 469	163 377	1 051 542	692 677	1 733 487	3	4
		1997..	8 198	255 377	5 832	11 664	153 241	916 161	660 538	1 538 812	X	X
339942	Lead pencil & art good mfg	2001..	6 234	173 535	5 010	9 758	106 903	704 211	476 956	1 182 959	5	4
		2000..	6 449	172 750	5 096	9 824	102 535	634 256	543 535	1 194 715	5	4
		1999..	6 763	182 058	5 322	9 683	111 576	756 482	530 101	1 311 081	4	3
		1998..	7 313	201 377	5 496	11 823	123 019	746 547	524 571	1 251 060	1	1
		1997..	8 255	207 661	6 329	12 755	125 819	810 183	454 383	1 278 701	X	X
339943	Marking device mfg	2001..	6 859	189 721	4 509	8 855	99 346	464 383	198 407	661 048	7	8
		2000..	7 211	188 922	4 829	9 347	101 314	444 160	205 124	647 958	6	8
		1999..	7 454	194 885	4 902	9 401	103 852	477 622	211 847	689 567	6	11
		1998..	8 068	193 419	4 889	9 516	104 098	429 656	238 214	664 288	2	2
		1997..	8 012	194 792	4 795	9 564	102 191	423 895	240 414	661 173	X	X
339944	Carbon paper & inked ribbon mfg	2001..	4 303	140 086	2 761	5 650	77 651	295 713	324 154	624 028	5	6
		2000..	4 592	140 282	3 074	6 278	81 129	334 432	359 194	695 043	4	5
		1999..	4 898	134 699	3 392	6 786	81 866	335 507	344 284	680 455	4	4
		1998..	5 394	134 833	3 827	7 622	81 553	388 315	369 068	756 787	2	1
		1997..	5 673	142 037	4 104	7 985	88 789	440 189	411 699	850 367	X	X
33995	Sign mfg	2001..	87 131	2 815 723	54 994	108 823	1 393 232	5 403 637	4 103 582	9 517 397	2	2
		2000..	86 875	2 779 612	56 038	109 215	1 384 854	5 443 244	4 111 101	9 509 137	2	2
		1999..	88 960	2 714 739	57 558	112 871	1 354 502	5 381 225	3 942 546	9 268 681	2	2
		1998..	84 165	2 427 903	55 414	109 731	1 246 286	4 715 518	3 473 010	8 165 539	1	2
		1997..	83 813	2 412 225	54 475	104 509	1 217 571	4 637 205	3 375 219	7 997 974	X	X
339950	Sign mfg	2001..	87 131	2 815 723	54 994	108 823	1 393 232	5 403 637	4 103 582	9 517 397	2	2
		2000..	86 875	2 779 612	56 038	109 215	1 384 854	5 443 244	4 111 101	9 509 137	2	2
		1999..	88 960	2 714 739	57 558	112 871	1 354 502	5 381 225	3 942 546	9 268 681	2	2
		1998..	84 165	2 427 903	55 414	109 731	1 246 286	4 715 518	3 473 010	8 165 539	1	2
		1997..	83 813	2 412 225	54 475	104 509	1 217 571	4 637 205	3 375 219	7 997 974	X	X
33999	All other miscellaneous mfg	2001..	154 585	4 848 259	110 390	213 767	2 669 962	11 484 707	9 517 984	21 003 695	2	2
		2000..	161 768	4 838 978	117 546	226 264	2 791 045	12 571 712	9 884 442	22 284 738	2	3
		1999..	162 409	4 661 834	117 820	232 478	2 708 197	11 683 543	9 025 213	20 632 837	2	1
		1998..	163 999	4 451 441	119 789	232 678	2 623 187	11 349 009	8 373 090	19 615 039	1	1
		1997..	157 947	4 230 422	114 851	224 974	2 476 320	10 938 033	7 905 677	18 808 167	X	X
339991	Gasket, packing, & sealing device mfg	2001..	41 171	1 452 523	29 922	60 115	852 495	3 337 269	2 545 552	5 878 049	3	5
		2000..	43 700	1 516 323	32 054	63 375	893 111	3 884 127	2 803 506	6 673 288	3	8
		1999..	42 656	1 381 354	31 022	63 533	826 095	3 132 248	2 230 501	5 376 990	3	3
		1998..	42 607	1 330 897	30 495	61 844	797 676	3 197 564	2 175 933	5 419 356	2	3
		1997..	41 980	1 290 903	30 034	62 458	762 912	3 132 922	2 105 772	5 243 005	X	X
339992	Musical instrument mfg	2001..	15 732	477 338	12 555	24 183	325 650	1 099 591	707 379	1 777 426	3	3
		2000..	15 167	455 441	12 128	23 541	306 848	1 115 981	696 517	1 767 277	3	3
		1999..	14 446	413 311	11 507	22 239	278 370	1 000 190	660 645	1 648 115	3	3
		1998..	13 587	403 839	11 061	22 492	269 175	846 695	498 811	1 321 516	2	6
		1997..	13 249	357 842	10 810	21 900	243 531	836 529	483 633	1 324 529	X	X
339993	Fastener, button, needle, & pin mfg	2001..	5 994	185 431	4 323	8 719	105 762	423 727	283 699	704 258	8	5
		2000..	6 974	216 860	5 352	11 083	136 173	463 168	313 620	772 691	5	3
		1999..	7 173	213 095	5 491	11 536	134 560	471 935	312 151	785 024	4	4
		1998..	8 026	210 968	5 897	13 067	125 022	469 980	356 002	822 537	1	1
		1997..	8 021	211 561	5 767	13 113	125 760	503 706	347 605	838 928	X	X
339994	Broom, brush, & mop mfg	2001..	15 250	431 647	11 945	23 599	259 912	1 243 192	946 774	2 180 667	6	3
		2000..	16 280	452 691	12 688	25 302	275 375	1 216 307	978 349	2 185 076	5	3
		1999..	17 249	469 461	13 328	26 916	288 105	1 271 525	1 008 477	2 266 859	3	3
		1998..	18 302	479 896	14 144	27 804	290 474	1 301 508	1 035 979	2 329 177	3	3
		1997..	17 280	446 005	13 008	25 464	268 007	1 157 593	944 974	2 083 585	X	X
339995	Burial casket mfg	2001..	7 430	210 410	5 653	10 541	137 238	920 950	383 076	1 300 374	4	4
		2000..	7 146	201 344	5 272	10 052	131 477	897 753	360 893	1 252 572	2	3
		1999..	7 315	211 307	5 274	10 571	137 743	873 142	358 089	1 238 671	1	3
		1998..	7 379	212 670	5 600	10 717	147 341	855 370	365 521	1 220 629	1	1
		1997..	6 792	206 890	5 050	10 258	141 037	857 988	358 002	1 219 943	X	X
339999	All other miscellaneous mfg	2001..	69 009	2 090 909	45 993	86 609	988 905	4 459 977	4 651 505	9 162 920	3	3
		2000..	72 502	1 996 319	50 051	92 913	1 048 061	4 994 375	4 731 557	9 633 836	3	3
		1999..	73 570	1 973 305	51 198	97 683	1 043 324	4 934 502	4 455 351	9 317 179	3	3
		1998..	74 097	1 813 170	52 593	96 754	993 499	4 677 892	3 940 845	8 501 824	1	1
		1997..	70 625	1 717 221	50 182	91 781	935 073	4 449 295	3 665 691	8 098 177	X	X

See footnotes at end of table.

Table 2. **Statistics for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[1]Figures represent average number of production workers for payroll period ended nearest the 12th of March, May, August, and November, plus all other employees for payroll period ended nearest the 12th of March.

[2]Data represent 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.

[3]Description of relative standard error of estimate is given in Appendix B. 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 2000 Annual Survey of Manufactures (ASM) because of changes encountered in subsequent review of the 2001 ASM.

Note 2: The data in this table are based on the 2001 Annual Survey of Manufacturers (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. Data users who create their own estimates using data from American FactFinder tables should cite the U.S. Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix B.

Table 3. Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
31-33	**Manufacturing**	**2001..**	**15 879 477**	**746 223 818**	**593 050 590**	**153 173 228**	**1**
		2000..	**16 651 904**	**770 190 310**	**617 211 426**	**152 978 885**	**1**
		1999..	**16 685 639**	**749 359 355**	**601 472 998**	**147 886 357**	**1**
		1998..	**16 944 977**	**734 978 115**	**586 957 735**	**148 020 381**	**1**
		1997..	**16 805 127**	**716 594 764**	**569 808 845**	**146 785 919**	**X**
311	Food mfg	2001..	1 504 666	55 006 189	43 586 136	11 420 053	1
		2000..	1 505 642	53 699 683	42 657 764	11 041 918	1
		1999..	1 488 076	52 065 573	41 428 289	10 637 284	1
		1998..	1 498 667	50 226 620	39 659 857	10 566 763	1
		1997..	1 466 956	48 695 471	38 366 240	10 329 231	X
3111	Animal food mfg	2001..	49 549	2 144 972	1 699 904	445 069	3
		2000..	49 275	2 088 172	1 670 049	418 123	2
		1999..	48 302	2 012 533	1 604 699	407 834	2
		1998..	45 537	1 918 222	1 513 953	404 269	1
		1997..	46 651	1 877 408	1 478 617	398 791	X
31111	Animal food mfg	2001..	49 549	2 144 972	1 699 904	445 069	3
		2000..	49 275	2 088 172	1 670 049	418 123	2
		1999..	48 302	2 012 533	1 604 699	407 834	2
		1998..	45 537	1 918 222	1 513 953	404 269	1
		1997..	46 651	1 877 408	1 478 617	398 791	X
311111	Dog & cat food mfg	2001..	14 146	747 440	568 042	179 398	4
		2000..	14 766	746 286	583 793	162 493	4
		1999..	14 219	714 215	557 523	156 692	4
		1998..	14 088	683 757	528 068	155 689	1
		1997..	13 979	647 662	502 207	145 455	X
311119	Other animal food mfg	2001..	35 403	1 397 532	1 131 861	265 671	4
		2000..	34 510	1 341 886	1 086 257	255 629	3
		1999..	34 083	1 298 318	1 047 176	251 142	3
		1998..	31 449	1 234 465	985 885	248 580	1
		1997..	32 672	1 229 746	976 410	253 336	X
3112	Grain & oilseed milling	2001..	55 434	3 006 543	2 375 217	631 326	2
		2000..	57 344	3 004 993	2 387 522	617 471	2
		1999..	58 341	2 994 895	2 368 987	625 908	1
		1998..	56 957	2 940 921	2 307 268	633 653	1
		1997..	59 243	3 001 055	2 358 554	642 501	X
31121	Flour milling & malt mfg	2001..	16 621	751 837	593 248	158 589	3
		2000..	17 730	769 063	616 777	152 286	2
		1999..	17 272	729 550	585 693	143 857	3
		1998..	15 773	706 968	565 053	141 915	4
		1997..	17 877	778 583	618 434	160 149	X
311211	Flour milling	2001..	11 617	527 269	418 522	108 747	4
		2000..	12 599	545 166	441 371	103 795	3
		1999..	12 058	506 139	410 917	95 222	3
		1998..	10 892	485 549	392 853	92 696	6
		1997..	12 762	552 195	444 182	108 013	X
311212	Rice milling	2001..	4 130	171 790	135 748	36 041	7
		2000..	4 229	171 174	135 198	35 976	7
		1999..	4 347	173 119	136 637	36 481	8
		1998..	3 637	158 826	120 044	38 783	4
		1997..	3 805	156 542	118 318	38 224	X
311213	Malt mfg	2001..	875	52 779	38 978	13 801	1
		2000..	901	52 723	40 209	12 515	2
		1999..	866	50 292	38 139	12 153	2
		1998..	1 244	62 592	52 156	10 436	16
		1997..	1 310	69 846	55 934	13 912	X
31122	Starch & vegetable fats & oils mfg	2001..	24 794	1 338 280	1 042 020	296 260	3
		2000..	25 059	1 306 462	1 021 530	284 932	3
		1999..	26 333	1 321 331	1 032 121	289 210	3
		1998..	26 308	1 310 830	1 019 136	291 695	1
		1997..	26 970	1 316 466	1 022 051	294 415	X
311221	Wet corn milling	2001..	8 632	563 407	439 239	124 168	5
		2000..	9 154	564 108	442 997	121 111	6
		1999..	9 116	534 849	416 953	117 896	5
		1998..	9 324	526 183	414 259	111 924	1
		1997..	9 217	545 541	422 533	123 008	X
311222	Soybean processing	2001..	6 630	337 286	266 295	70 990	1
		2000..	6 542	320 188	254 215	65 973	1
		1999..	6 476	311 276	247 068	64 209	1
		1998..	6 388	300 961	238 814	62 146	1
		1997..	6 601	285 871	229 727	56 144	X
311223	Other oilseed processing	2001..	1 834	79 928	62 585	17 342	7
		2000..	1 924	82 789	64 012	18 778	4
		1999..	1 859	77 582	59 807	17 775	5
		1998..	2 642	92 211	72 330	19 881	1
		1997..	2 667	93 997	73 451	20 546	X
311225	Fats & oils refining & blending	2001..	7 698	357 659	273 900	83 759	8
		2000..	7 439	339 377	260 307	79 070	8
		1999..	8 882	397 624	308 294	89 330	4
		1998..	7 954	391 476	293 733	97 743	3
		1997..	8 485	391 057	296 340	94 717	X
31123	Breakfast cereal mfg	2001..	14 018	916 426	739 949	176 477	1
		2000..	14 555	929 468	749 214	180 253	1
		1999..	14 737	944 014	751 173	192 841	1
		1998..	14 876	923 123	723 079	200 044	1
		1997..	14 396	906 006	718 069	187 937	X
311230	Breakfast cereal mfg	2001..	14 018	916 426	739 949	176 477	1
		2000..	14 555	929 468	749 214	180 253	1
		1999..	14 737	944 014	751 173	192 841	1
		1998..	14 876	923 123	723 079	200 044	1
		1997..	14 396	906 006	718 069	187 937	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
311	Food mfg—Con.						
3113	Sugar & confectionery product mfg	2001..	84 755	3 513 440	2 729 850	783 590	1
		2000..	83 955	3 440 286	2 675 635	764 651	1
		1999..	84 588	3 398 080	2 638 906	759 174	1
		1998..	83 886	3 371 586	2 623 450	748 136	1
		1997..	84 876	3 280 597	2 560 362	720 235	X
31131	Sugar mfg	2001..	15 248	765 460	616 427	149 033	1
		2000..	16 352	792 340	630 094	162 246	1
		1999..	16 724	810 761	641 668	169 093	1
		1998..	16 638	783 268	624 595	158 673	1
		1997..	16 547	769 838	611 488	158 350	X
311311	Sugarcane mills	2001..	4 644	200 219	156 856	43 363	2
		2000..	4 928	201 759	158 222	43 537	3
		1999..	5 090	206 603	163 002	43 601	3
		1998..	4 873	200 105	158 635	41 470	3
		1997..	4 938	212 165	167 589	44 576	X
311312	Cane sugar refining	2001..	3 590	242 906	199 328	43 578	1
		2000..	3 866	260 321	203 249	57 072	1
		1999..	4 140	280 281	220 169	60 112	1
		1998..	3 938	254 220	198 015	56 205	1
		1997..	3 891	246 696	191 663	55 033	X
311313	Beet sugar mfg	2001..	7 015	322 335	260 243	62 092	2
		2000..	7 557	330 260	268 623	61 637	2
		1999..	7 494	323 877	258 497	65 380	1
		1998..	7 828	328 943	267 945	60 998	2
		1997..	7 718	310 977	252 236	58 741	X
31132	Chocolate & confectionery mfg from cacao beans	2001..	9 045	466 667	347 300	119 366	1
		2000..	9 083	450 908	342 949	107 959	1
		1999..	8 945	422 432	330 736	91 696	2
		1998..	10 000	474 220	361 589	112 631	1
		1997..	9 946	501 341	383 045	118 296	X
311320	Chocolate & confectionery mfg from cacao beans	2001..	9 045	466 667	347 300	119 366	1
		2000..	9 083	450 908	342 949	107 959	1
		1999..	8 945	422 432	330 736	91 696	2
		1998..	10 000	474 220	361 589	112 631	1
		1997..	9 946	501 341	383 045	118 296	X
31133	Confectionery mfg from purchased chocolate	2001..	36 978	1 281 667	997 819	283 847	3
		2000..	35 581	1 222 363	946 099	276 264	2
		1999..	33 564	1 149 040	888 997	260 042	1
		1998..	29 859	1 120 594	865 521	255 073	1
		1997..	32 871	1 104 737	856 440	248 297	X
311330	Confectionery mfg from purchased chocolate	2001..	36 978	1 281 667	997 819	283 847	3
		2000..	35 581	1 222 363	946 099	276 264	2
		1999..	33 564	1 149 040	888 997	260 042	1
		1998..	29 859	1 120 594	865 521	255 073	1
		1997..	32 871	1 104 737	856 440	248 297	X
31134	Nonchocolate confectionery mfg	2001..	23 484	999 647	768 304	231 343	3
		2000..	22 940	974 676	756 493	218 182	3
		1999..	25 356	1 015 847	777 505	238 343	2
		1998..	27 389	993 503	771 744	221 759	1
		1997..	25 512	904 681	709 389	195 292	X
311340	Nonchocolate confectionery mfg	2001..	23 484	999 647	768 304	231 343	3
		2000..	22 940	974 676	756 493	218 182	3
		1999..	25 356	1 015 847	777 505	238 343	2
		1998..	27 389	993 503	771 744	221 759	1
		1997..	25 512	904 681	709 389	195 292	X
3114	Fruit & vegetable preserving & specialty food mfg	2001..	176 783	6 639 953	5 131 567	1 508 386	1
		2000..	180 714	6 619 693	5 130 575	1 489 118	1
		1999..	180 157	6 495 868	5 045 326	1 450 541	1
		1998..	189 160	6 409 710	4 943 653	1 466 057	1
		1997..	191 576	6 367 864	4 884 327	1 483 537	X
31141	Frozen food mfg	2001..	89 209	3 160 252	2 453 931	706 321	1
		2000..	91 461	3 127 969	2 427 881	700 087	1
		1999..	92 667	3 021 417	2 359 978	661 438	1
		1998..	96 753	2 953 827	2 286 935	666 892	1
		1997..	94 192	2 840 649	2 192 511	648 138	X
311411	Frozen fruit, juice, & vegetable mfg	2001..	42 454	1 488 864	1 139 322	349 541	2
		2000..	43 588	1 450 534	1 105 085	345 449	2
		1999..	44 469	1 412 690	1 079 764	332 927	1
		1998..	49 461	1 432 551	1 101 281	331 269	1
		1997..	46 295	1 375 045	1 047 390	327 655	X
311412	Frozen specialty food mfg	2001..	46 755	1 671 388	1 314 609	356 779	2
		2000..	47 874	1 677 435	1 322 796	354 639	2
		1999..	48 198	1 608 726	1 280 215	328 512	1
		1998..	47 291	1 521 277	1 185 654	335 622	1
		1997..	47 897	1 465 604	1 145 121	320 483	X
31142	Fruit & vegetable canning, pickling, & drying	2001..	87 574	3 479 701	2 677 636	802 065	2
		2000..	89 253	3 491 725	2 702 694	789 031	2
		1999..	87 490	3 474 451	2 685 348	789 103	2
		1998..	92 407	3 455 883	2 656 718	799 165	1
		1997..	97 384	3 527 215	2 691 816	835 399	X
311421	Fruit & vegetable canning	2001..	59 172	2 336 861	1 803 749	533 113	3
		2000..	60 972	2 344 914	1 818 597	526 317	3
		1999..	58 769	2 313 085	1 796 809	516 275	3
		1998..	63 526	2 308 157	1 758 331	549 826	1
		1997..	63 612	2 281 518	1 709 578	571 940	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
311	Food mfg—Con.						
3114	Fruit & vegetable preserving & specialty food mfg—Con.						
31142	Fruit & vegetable canning, pickling, & drying—Con.						
311422	Specialty canning	2001..	15 034	664 818	507 770	157 049	2
		2000..	15 783	664 250	515 535	148 715	1
		1999..	15 809	665 837	512 213	153 624	2
		1998..	16 156	681 962	536 661	145 300	1
		1997..	19 157	760 572	602 615	157 957	X
311423	Dried & dehydrated food mfg	2001..	13 369	478 021	366 117	111 904	7
		2000..	12 498	482 561	368 562	113 998	4
		1999..	12 912	495 530	376 325	119 204	2
		1998..	12 725	465 764	361 725	104 039	2
		1997..	14 615	485 125	379 623	105 502	X
3115	Dairy product mfg	2001..	132 151	6 059 410	4 714 625	1 344 785	1
		2000..	132 262	5 870 281	4 578 182	1 292 099	1
		1999..	131 865	5 603 608	4 391 105	1 212 503	1
		1998..	132 765	5 439 417	4 202 894	1 236 523	1
		1997..	131 868	5 345 489	4 139 799	1 205 690	X
31151	Dairy product (except frozen) mfg	2001..	113 216	5 289 612	4 096 995	1 192 617	1
		2000..	112 670	5 093 568	3 958 895	1 134 673	2
		1999..	111 833	4 827 845	3 767 769	1 060 077	1
		1998..	112 642	4 658 631	3 574 639	1 083 992	1
		1997..	112 082	4 588 764	3 533 105	1 055 659	X
311511	Fluid milk mfg	2001..	57 222	2 721 008	2 116 153	604 855	2
		2000..	57 862	2 628 434	2 062 439	565 995	2
		1999..	57 815	2 523 486	1 974 296	549 190	2
		1998..	57 413	2 481 733	1 907 404	574 329	1
		1997..	57 638	2 467 787	1 897 820	569 967	X
311512	Creamery butter mfg	2001..	1 483	65 960	51 579	14 380	1
		2000..	1 381	62 757	48 455	14 301	1
		1999..	1 546	66 621	52 328	14 292	2
		1998..	1 738	69 310	57 012	12 298	10
		1997..	1 827	71 563	56 524	15 039	X
311513	Cheese mfg	2001..	37 005	1 546 892	1 208 658	338 234	3
		2000..	36 186	1 487 414	1 166 191	321 223	2
		1999..	36 143	1 377 465	1 096 193	281 272	2
		1998..	36 566	1 306 215	1 001 062	305 153	1
		1997..	36 543	1 298 840	1 005 266	293 574	X
311514	Dry, condensed, & evaporated dairy product mfg	2001..	17 506	955 753	720 604	235 148	3
		2000..	17 240	914 963	681 810	233 154	5
		1999..	16 329	860 274	644 951	215 323	3
		1998..	16 925	801 373	609 160	192 213	2
		1997..	16 074	750 574	573 495	177 079	X
31152	Ice cream & frozen dessert mfg	2001..	18 935	769 798	617 630	152 168	4
		2000..	19 591	776 713	619 287	157 426	3
		1999..	20 032	775 763	623 337	152 426	2
		1998..	20 123	780 786	628 255	152 531	2
		1997..	19 786	756 725	606 694	150 031	X
311520	Ice cream & frozen dessert mfg	2001..	18 935	769 798	617 630	152 168	4
		2000..	19 591	776 713	619 287	157 426	3
		1999..	20 032	775 763	623 337	152 426	2
		1998..	20 123	780 786	628 255	152 531	2
		1997..	19 786	756 725	606 694	150 031	X
3116	Meat product mfg	2001..	493 369	14 718 912	11 949 568	2 769 344	1
		2000..	485 851	14 101 941	11 502 159	2 599 782	1
		1999..	477 936	13 766 106	11 204 511	2 561 595	1
		1998..	468 008	12 934 171	10 458 451	2 475 720	1
		1997..	464 991	12 318 680	9 917 710	2 400 970	X
31161	Animal slaughtering & processing	2001..	493 369	14 718 912	11 949 568	2 769 344	1
		2000..	485 851	14 101 941	11 502 159	2 599 782	1
		1999..	477 936	13 766 106	11 204 511	2 561 595	1
		1998..	468 008	12 934 171	10 458 451	2 475 720	1
		1997..	464 991	12 318 680	9 917 710	2 400 970	X
311611	Animal (except poultry) slaughtering	2001..	144 729	4 681 651	3 860 662	820 989	1
		2000..	144 427	4 563 171	3 788 669	774 502	1
		1999..	142 640	4 372 615	3 619 382	753 233	1
		1998..	139 986	4 110 839	3 391 640	719 199	1
		1997..	141 882	3 954 930	3 245 551	709 379	X
311612	Meat processed from carcasses	2001..	107 060	3 770 114	3 031 677	738 437	2
		2000..	100 222	3 563 348	2 876 754	686 594	2
		1999..	98 494	3 484 459	2 785 669	698 790	1
		1998..	94 420	3 252 833	2 569 379	683 454	1
		1997..	90 002	2 964 539	2 347 336	617 203	X
311613	Rendering & meat byproduct processing	2001..	10 865	435 818	345 748	90 070	4
		2000..	10 061	395 590	315 363	80 227	3
		1999..	9 017	366 805	292 497	74 308	3
		1998..	8 704	351 837	273 286	78 552	4
		1997..	8 798	341 048	268 952	72 096	X
311615	Poultry processing	2001..	230 715	5 831 328	4 711 480	1 119 848	1
		2000..	231 140	5 579 832	4 521 373	1 058 459	1
		1999..	227 785	5 542 226	4 506 963	1 035 263	1
		1998..	224 898	5 218 661	4 224 147	994 515	1
		1997..	224 309	5 058 163	4 055 871	1 002 292	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
311	Food mfg—Con.						
3117	Seafood product preparation & packaging	2001	41 319	1 185 159	998 597	186 562	5
		2000	42 273	1 173 304	983 433	189 870	5
		1999	41 224	1 108 952	938 300	170 652	4
		1998	42 200	1 061 299	894 997	166 302	3
		1997	40 763	1 056 766	886 350	170 416	X
31171	Seafood product preparation & packaging	2001	41 319	1 185 159	998 597	186 562	5
		2000	42 273	1 173 304	983 433	189 870	5
		1999	41 224	1 108 952	938 300	170 652	4
		1998	42 200	1 061 299	894 997	166 302	3
		1997	40 763	1 056 766	886 350	170 416	X
311711	Seafood canning	2001	5 005	159 793	131 744	28 048	7
		2000	5 158	151 842	124 656	27 186	8
		1999	5 385	172 463	141 284	31 179	6
		1998	5 553	147 470	122 176	25 294	4
		1997	5 371	149 279	121 870	27 409	X
311712	Fresh & frozen seafood processing	2001	36 314	1 025 367	866 853	158 514	5
		2000	37 116	1 021 462	858 778	162 684	5
		1999	35 839	936 489	797 017	139 473	4
		1998	36 647	913 829	772 820	141 008	3
		1997	35 392	907 487	764 480	143 007	X
3118	Bakeries & tortilla mfg	2001	323 326	11 763 450	9 185 568	2 577 883	4
		2000	319 114	11 429 394	8 924 816	2 504 579	3
		1999	314 931	10 999 391	8 659 497	2 339 895	2
		1998	328 984	10 549 997	8 275 620	2 274 376	1
		1997	298 300	10 015 119	7 802 377	2 212 742	X
31181	Bread & bakery product mfg	2001	247 122	8 819 220	6 895 449	1 923 771	5
		2000	244 476	8 569 438	6 700 653	1 868 785	4
		1999	240 480	8 146 707	6 438 163	1 708 544	2
		1998	254 741	7 741 171	6 101 771	1 639 400	1
		1997	222 596	7 132 485	5 582 806	1 549 679	X
311811	Retail bakeries	2001	52 380	962 771	785 153	177 618	3
		2000	52 367	911 598	742 590	169 008	5
		1999	52 919	892 109	702 515	189 593	3
		1998	74 653	1 195 434	935 848	259 586	2
		1997	43 603	734 805	568 243	166 562	X
311812	Commercial bakeries	2001	178 000	7 264 028	5 639 707	1 624 321	6
		2000	175 635	7 094 030	5 514 529	1 579 501	5
		1999	172 514	6 747 539	5 330 908	1 416 630	2
		1998	164 686	6 028 644	4 758 119	1 270 525	1
		1997	164 033	5 898 705	4 624 748	1 273 957	X
311813	Frozen cakes, pies, & other pastries mfg	2001	16 742	592 421	470 588	121 832	4
		2000	16 473	563 810	443 534	120 277	3
		1999	15 047	507 059	404 739	102 320	3
		1998	15 402	517 094	407 805	109 289	2
		1997	14 960	498 975	389 815	109 160	X
31182	Cookie, cracker, & pasta mfg	2001	64 164	2 605 088	2 011 768	593 319	2
		2000	61 844	2 521 601	1 944 358	577 242	2
		1999	61 759	2 535 539	1 958 012	577 527	2
		1998	62 847	2 528 797	1 946 756	582 041	1
		1997	64 401	2 613 614	2 002 867	610 747	X
311821	Cookie & cracker mfg	2001	39 556	1 698 688	1 289 069	409 619	3
		2000	39 655	1 705 551	1 299 674	405 877	2
		1999	40 107	1 729 425	1 321 344	408 081	2
		1998	42 189	1 726 111	1 312 905	413 206	1
		1997	42 804	1 769 869	1 343 993	425 876	X
311822	Flour mixes & dough mfg from purchased flour	2001	19 962	740 060	593 919	146 142	6
		2000	17 874	664 272	528 380	135 892	4
		1999	17 196	660 179	523 063	137 116	2
		1998	15 232	613 484	485 517	127 968	1
		1997	15 534	620 788	484 414	136 374	X
311823	Dry pasta mfg	2001	4 646	166 339	128 781	37 559	15
		2000	4 315	151 777	116 304	35 473	16
		1999	4 457	145 934	113 604	32 331	18
		1998	5 426	189 202	148 334	40 868	1
		1997	6 063	222 957	174 460	48 497	X
31183	Tortilla mfg	2001	12 040	339 143	278 351	60 792	11
		2000	12 794	338 356	279 804	58 551	3
		1999	12 692	317 145	263 322	53 823	3
		1998	11 395	280 029	227 093	52 935	1
		1997	11 303	269 020	216 704	52 316	X
311830	Tortilla mfg	2001	12 040	339 143	278 351	60 792	11
		2000	12 794	338 356	279 804	58 551	3
		1999	12 692	317 145	263 322	53 823	3
		1998	11 395	280 029	227 093	52 935	1
		1997	11 303	269 020	216 704	52 316	X
3119	Other food mfg	2001	147 979	5 974 348	4 801 240	1 173 108	1
		2000	154 854	5 971 619	4 805 394	1 166 225	1
		1999	150 731	5 686 139	4 576 957	1 109 182	1
		1998	151 170	5 601 297	4 439 571	1 161 726	1
		1997	148 688	5 432 493	4 338 144	1 094 349	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
311	Food mfg—Con.						
3119	Other food mfg—Con.						
31191	Snack food mfg	2001..	41 508	1 761 163	1 391 413	369 750	3
		2000..	46 064	1 813 176	1 428 284	384 892	3
		1999..	46 015	1 738 710	1 363 710	375 000	2
		1998..	47 443	1 822 298	1 417 428	404 871	1
		1997..	46 609	1 730 241	1 368 683	361 558	X
311911	Roasted nuts & peanut butter mfg	2001..	10 423	398 355	308 083	90 272	3
		2000..	11 321	416 539	327 848	88 691	3
		1999..	11 118	380 210	297 804	82 406	3
		1998..	10 672	382 655	294 854	87 801	3
		1997..	10 128	345 620	265 104	80 516	X
311919	Other snack food mfg	2001..	31 085	1 362 808	1 083 329	279 478	4
		2000..	34 744	1 396 638	1 100 436	296 201	3
		1999..	34 897	1 358 500	1 065 906	292 595	3
		1998..	36 771	1 439 644	1 122 574	317 070	1
		1997..	36 481	1 384 621	1 103 579	281 042	X
31192	Coffee & tea mfg	2001..	12 293	602 256	476 092	126 164	4
		2000..	12 014	565 906	447 906	118 000	5
		1999..	12 067	562 584	449 774	112 810	5
		1998..	12 820	545 823	422 323	123 500	1
		1997..	12 895	577 133	445 357	131 776	X
311920	Coffee & tea mfg	2001..	12 293	602 256	476 092	126 164	4
		2000..	12 014	565 906	447 906	118 000	5
		1999..	12 067	562 584	449 774	112 810	5
		1998..	12 820	545 823	422 323	123 500	1
		1997..	12 895	577 133	445 357	131 776	X
31193	Flavoring syrup & concentrate mfg	2001..	5 734	334 646	268 521	66 125	9
		2000..	5 450	295 687	243 045	52 642	6
		1999..	5 546	287 753	234 931	52 822	4
		1998..	5 699	265 510	211 165	54 345	1
		1997..	6 243	279 026	225 770	53 256	X
311930	Flavoring syrup & concentrate mfg	2001..	5 734	334 646	268 521	66 125	9
		2000..	5 450	295 687	243 045	52 642	6
		1999..	5 546	287 753	234 931	52 822	4
		1998..	5 699	265 510	211 165	54 345	1
		1997..	6 243	279 026	225 770	53 256	X
31194	Seasoning & dressing mfg	2001..	27 823	1 315 739	1 070 025	245 714	2
		2000..	29 188	1 351 019	1 094 501	256 518	3
		1999..	28 629	1 310 955	1 070 659	240 296	2
		1998..	26 290	1 160 720	924 698	236 022	3
		1997..	26 055	1 111 151	897 346	213 805	X
311941	Mayonnaise, dressing, & other prepared sauce mfg	2001..	15 230	671 048	531 571	139 477	4
		2000..	15 811	670 363	533 411	136 952	4
		1999..	15 246	627 910	507 422	120 488	4
		1998..	14 307	572 773	446 688	126 085	2
		1997..	13 927	556 235	443 903	112 332	X
311942	Spice & extract mfg	2001..	12 593	644 691	538 454	106 237	3
		2000..	13 378	680 656	561 090	119 566	4
		1999..	13 383	683 045	563 237	119 808	3
		1998..	11 983	587 946	478 010	109 937	6
		1997..	12 128	554 916	453 443	101 473	X
31199	All other food mfg	2001..	60 620	1 960 544	1 595 189	365 354	3
		2000..	62 137	1 945 830	1 591 656	354 174	3
		1999..	58 474	1 786 137	1 457 884	328 253	2
		1998..	58 918	1 806 946	1 463 958	342 988	1
		1997..	56 886	1 734 942	1 400 988	333 954	X
311991	Perishable prepared food mfg	2001..	22 620	660 146	540 809	119 337	3
		2000..	22 409	618 685	515 361	103 325	4
		1999..	20 512	556 830	462 871	93 959	2
		1998..	21 198	581 594	487 465	94 129	3
		1997..	20 732	558 858	461 355	97 503	X
311999	All other miscellaneous food mfg	2001..	38 000	1 300 398	1 054 380	246 018	3
		2000..	39 728	1 327 145	1 076 296	250 849	3
		1999..	37 962	1 229 307	995 013	234 295	3
		1998..	37 720	1 225 352	976 492	248 860	1
		1997..	36 154	1 176 084	939 633	236 451	X
312	Beverage & tobacco product mfg	2001..	177 513	9 223 237	7 022 720	2 200 516	1
		2000..	174 609	9 146 871	7 044 712	2 102 159	1
		1999..	166 847	8 639 134	6 681 383	1 957 751	1
		1998..	175 214	8 863 791	6 810 605	2 053 186	1
		1997..	175 711	8 799 206	6 735 295	2 063 911	X
3121	Beverage mfg	2001..	150 807	7 331 539	5 632 030	1 699 509	2
		2000..	146 310	7 118 990	5 495 000	1 623 990	1
		1999..	138 534	6 673 153	5 236 764	1 436 389	1
		1998..	141 394	6 743 799	5 280 571	1 463 228	1
		1997..	142 117	6 602 133	5 139 203	1 462 930	X
31211	Soft drink & ice mfg	2001..	86 347	3 741 405	2 950 321	791 084	3
		2000..	85 919	3 624 663	2 864 758	759 906	3
		1999..	81 713	3 390 415	2 677 247	713 168	2
		1998..	82 891	3 422 673	2 691 104	731 569	1
		1997..	83 256	3 330 794	2 627 979	702 815	X
312111	Soft drink mfg	2001..	74 122	3 350 368	2 623 340	727 029	3
		2000..	73 806	3 237 104	2 541 043	696 060	3
		1999..	70 747	3 041 198	2 386 833	654 365	2
		1998..	73 212	3 094 710	2 426 218	668 492	1
		1997..	73 343	3 021 673	2 377 922	643 751	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
312	Beverage & tobacco product mfg—Con.						
3121	Beverage mfg—Con.						
31211	Soft drink & ice mfg—Con.						
312112	Bottled water mfg	2001..	6 298	217 061	179 652	37 408	13
		2000..	6 677	227 755	188 154	39 601	12
		1999..	5 783	197 508	161 758	35 750	9
		1998..	4 719	182 530	144 103	38 427	4
		1997..	4 661	168 324	132 426	35 898	X
312113	Ice mfg	2001..	5 927	173 976	147 329	26 648	6
		2000..	5 437	159 805	135 560	24 245	6
		1999..	5 183	151 709	128 656	23 053	6
		1998..	4 960	145 432	120 783	24 649	4
		1997..	5 252	140 797	117 631	23 166	X
31212	Breweries	2001..	33 286	2 117 004	1 509 015	607 989	1
		2000..	30 859	2 122 290	1 524 307	597 983	1
		1999..	30 255	2 044 629	1 575 344	469 285	1
		1998..	31 813	2 086 043	1 613 933	472 110	1
		1997..	34 251	2 091 257	1 598 573	492 684	X
312120	Breweries	2001..	33 286	2 117 004	1 509 015	607 989	1
		2000..	30 859	2 122 290	1 524 307	597 983	1
		1999..	30 255	2 044 629	1 575 344	469 285	1
		1998..	31 813	2 086 043	1 613 933	472 110	1
		1997..	34 251	2 091 257	1 598 573	492 684	X
31213	Wineries	2001..	23 774	1 105 446	870 639	234 807	2
		2000..	21 932	996 992	795 291	201 701	2
		1999..	20 849	948 043	755 640	192 403	2
		1998..	20 330	924 154	730 353	193 801	1
		1997..	18 193	860 792	668 051	192 741	X
312130	Wineries	2001..	23 774	1 105 446	870 639	234 807	2
		2000..	21 932	996 992	795 291	201 701	2
		1999..	20 849	948 043	755 640	192 403	2
		1998..	20 330	924 154	730 353	193 801	1
		1997..	18 193	860 792	668 051	192 741	X
31214	Distilleries	2001..	7 401	367 684	302 056	65 628	6
		2000..	7 600	375 044	310 643	64 401	5
		1999..	5 718	290 066	228 533	61 533	9
		1998..	6 360	310 929	245 180	65 749	7
		1997..	6 417	319 290	244 600	74 690	X
312140	Distilleries	2001..	7 401	367 684	302 056	65 628	6
		2000..	7 600	375 044	310 643	64 401	5
		1999..	5 718	290 066	228 533	61 533	9
		1998..	6 360	310 929	245 180	65 749	7
		1997..	6 417	319 290	244 600	74 690	X
3122	Tobacco mfg	2001..	26 706	1 891 698	1 390 690	501 008	1
		2000..	28 298	2 027 881	1 549 712	478 169	1
		1999..	28 313	1 965 981	1 444 619	521 362	1
		1998..	33 820	2 119 992	1 530 035	589 958	1
		1997..	33 594	2 197 073	1 596 092	600 981	X
31221	Tobacco stemming & redrying	2001..	4 201	137 758	109 092	28 666	1
		2000..	3 705	132 972	106 271	26 701	1
		1999..	4 131	147 964	116 186	31 778	1
		1998..	5 553	165 459	132 121	33 338	1
		1997..	4 955	144 432	112 571	31 861	X
312210	Tobacco stemming & redrying	2001..	4 201	137 758	109 092	28 666	1
		2000..	3 705	132 972	106 271	26 701	1
		1999..	4 131	147 964	116 186	31 778	1
		1998..	5 553	165 459	132 121	33 338	1
		1997..	4 955	144 432	112 571	31 861	X
31222	Tobacco product mfg	2001..	22 506	1 753 940	1 281 598	472 342	1
		2000..	24 593	1 894 909	1 443 441	451 468	1
		1999..	24 182	1 818 017	1 328 433	489 584	1
		1998..	28 267	1 954 533	1 397 914	556 620	1
		1997..	28 639	2 052 641	1 483 521	569 120	X
312221	Cigarette mfg	2001..	15 218	1 406 908	1 017 948	388 960	1
		2000..	17 659	1 554 443	1 185 892	368 551	1
		1999..	18 157	1 552 549	1 131 992	420 557	1
		1998..	20 541	1 631 415	1 158 539	472 876	1
		1997..	21 302	1 738 062	1 246 557	491 505	X
312229	Other tobacco product mfg	2001..	7 288	347 032	263 650	83 382	6
		2000..	6 934	340 466	257 549	82 917	7
		1999..	6 025	265 468	196 441	69 027	7
		1998..	7 726	323 118	239 375	83 744	1
		1997..	7 337	314 579	236 964	77 615	X
313	Textile mills	2001..	293 930	10 005 951	8 039 762	1 966 189	1
		2000..	337 001	11 366 917	9 203 145	2 163 771	1
		1999..	352 580	11 558 073	9 385 205	2 172 869	1
		1998..	377 391	12 085 339	9 860 628	2 224 711	1
		1997..	391 899	12 328 590	10 058 482	2 270 108	X
3131	Fiber, yarn, & thread mills	2001..	63 818	1 938 867	1 551 855	387 013	2
		2000..	72 182	2 215 111	1 788 310	426 801	2
		1999..	74 834	2 251 642	1 803 876	447 766	1
		1998..	80 024	2 328 176	1 884 183	443 993	1
		1997..	82 291	2 326 045	1 891 178	434 867	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
313	Textile mills—Con.						
3131	Fiber, yarn, & thread mills—Con.						
31311	Fiber, yarn, & thread mills	2001..	63 818	1 938 867	1 551 855	387 013	2
		2000..	72 182	2 215 111	1 788 310	426 801	2
		1999..	74 834	2 251 642	1 803 876	447 766	1
		1998..	80 024	2 328 176	1 884 183	443 993	1
		1997..	82 291	2 326 045	1 891 178	434 867	X
313111	Yarn spinning mills	2001..	41 209	1 243 649	999 018	244 630	3
		2000..	48 261	1 464 917	1 181 818	283 099	2
		1999..	51 762	1 511 931	1 220 210	291 721	1
		1998..	57 241	1 636 776	1 323 381	313 394	1
		1997..	58 440	1 643 443	1 334 129	309 314	X
313112	Yarn texturing, throwing, & twisting mills	2001..	20 118	627 226	500 887	126 339	4
		2000..	20 801	659 759	535 949	123 810	3
		1999..	20 186	664 117	524 536	139 581	3
		1998..	18 832	580 625	474 064	106 562	3
		1997..	20 256	580 786	478 414	102 372	X
313113	Thread mills	2001..	2 491	67 993	51 949	16 044	3
		2000..	3 120	90 435	70 542	19 893	2
		1999..	2 886	75 594	59 130	16 464	3
		1998..	3 951	110 775	86 738	24 037	1
		1997..	3 595	101 816	78 635	23 181	X
3132	Fabric mills	2001..	159 048	5 516 564	4 402 498	1 114 066	1
		2000..	184 736	6 287 054	5 071 335	1 215 720	1
		1999..	195 576	6 419 273	5 218 566	1 200 707	1
		1998..	210 996	6 802 453	5 578 294	1 224 159	1
		1997..	217 354	6 862 096	5 613 779	1 248 317	X
31321	Broadwoven fabric mills	2001..	95 919	3 293 580	2 605 470	688 110	1
		2000..	113 519	3 778 365	3 044 107	734 258	1
		1999..	120 999	3 862 721	3 139 585	723 135	1
		1998..	129 506	4 163 137	3 422 465	740 672	1
		1997..	132 797	4 181 028	3 434 157	746 871	X
313210	Broadwoven fabric mills	2001..	95 919	3 293 580	2 605 470	688 110	1
		2000..	113 519	3 778 365	3 044 107	734 258	1
		1999..	120 999	3 862 721	3 139 585	723 135	1
		1998..	129 506	4 163 137	3 422 465	740 672	1
		1997..	132 797	4 181 028	3 434 157	746 871	X
31322	Narrow fabric mills & schiffli machine embroidery	2001..	17 738	541 459	443 229	98 230	2
		2000..	18 446	562 037	459 955	102 081	2
		1999..	18 568	548 055	446 336	101 719	3
		1998..	20 221	554 062	454 677	99 385	4
		1997..	20 215	538 082	445 118	92 964	X
313221	Narrow fabric mills	2001..	15 857	484 349	396 536	87 813	2
		2000..	16 600	502 974	411 689	91 285	2
		1999..	16 448	482 053	391 693	90 360	3
		1998..	16 454	462 544	377 725	84 819	3
		1997..	16 366	448 475	368 459	80 016	X
313222	Schiffli machine embroidery	2001..	1 881	57 110	46 694	10 417	11
		2000..	1 846	59 062	48 266	10 796	9
		1999..	2 120	66 003	54 643	11 359	6
		1998..	3 767	91 518	76 953	14 566	13
		1997..	3 849	89 607	76 659	12 948	X
31323	Nonwoven fabric mills	2001..	21 083	927 387	731 939	195 448	2
		2000..	22 519	1 019 424	802 028	217 395	2
		1999..	21 190	945 492	750 131	195 361	2
		1998..	20 807	901 445	720 817	180 628	2
		1997..	21 162	884 633	693 101	191 532	X
313230	Nonwoven fabric mills	2001..	21 083	927 387	731 939	195 448	2
		2000..	22 519	1 019 424	802 028	217 395	2
		1999..	21 190	945 492	750 131	195 361	2
		1998..	20 807	901 445	720 817	180 628	2
		1997..	21 162	884 633	693 101	191 532	X
31324	Knit fabric mills	2001..	24 308	754 138	621 860	132 278	5
		2000..	30 251	927 229	765 244	161 985	3
		1999..	34 819	1 063 005	882 513	180 492	2
		1998..	40 463	1 183 810	980 334	203 475	1
		1997..	43 180	1 258 353	1 041 403	216 950	X
313241	Weft knit fabric mills	2001..	11 764	350 016	289 954	60 062	9
		2000..	16 231	480 050	397 482	82 568	4
		1999..	19 301	573 957	475 414	98 543	2
		1998..	23 397	671 725	553 702	118 023	1
		1997..	24 535	693 372	570 908	122 464	X
313249	Other knit fabric & lace mills	2001..	12 543	404 122	331 906	72 216	4
		2000..	14 020	447 179	367 762	79 417	4
		1999..	15 518	489 048	407 100	81 948	3
		1998..	17 067	512 085	426 632	85 453	1
		1997..	18 645	564 981	470 495	94 486	X
3133	Textile & fabric finishing & fabric coating mills	2001..	71 064	2 550 519	2 085 409	465 110	3
		2000..	80 083	2 864 751	2 343 501	521 250	2
		1999..	82 170	2 887 158	2 362 762	524 396	2
		1998..	86 371	2 954 710	2 398 151	556 559	3
		1997..	92 254	3 140 449	2 553 525	586 924	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
313	Textile mills—Con.						
3133	Textile & fabric finishing & fabric coating mills—Con.						
31331	Textile & fabric finishing mills	2001..	60 742	2 062 429	1 696 426	366 002	3
		2000..	68 918	2 329 035	1 918 367	410 668	3
		1999..	71 895	2 419 039	1 992 342	426 697	2
		1998..	74 981	2 428 142	2 001 368	426 774	4
		1997..	80 722	2 631 057	2 167 370	463 687	X
313311	Broadwoven fabric finishing mills	2001..	38 886	1 380 104	1 145 847	234 256	5
		2000..	45 024	1 566 098	1 297 591	268 507	4
		1999..	47 077	1 605 600	1 329 505	276 095	3
		1998..	47 159	1 567 736	1 292 788	274 948	6
		1997..	51 447	1 727 973	1 424 212	303 761	X
313312	Textile & fabric finishing mills	2001..	21 856	682 325	550 579	131 746	3
		2000..	23 894	762 937	620 776	142 161	3
		1999..	24 818	813 439	662 837	150 602	2
		1998..	27 822	860 406	708 579	151 826	3
		1997..	29 275	903 084	743 158	159 926	X
31332	Fabric coating mills	2001..	10 321	488 090	388 982	99 108	6
		2000..	11 165	535 716	425 134	110 583	5
		1999..	10 275	468 119	370 420	97 699	5
		1998..	11 390	526 568	396 784	129 785	3
		1997..	11 532	509 392	386 155	123 237	X
313320	Fabric coating mills	2001..	10 321	488 090	388 982	99 108	6
		2000..	11 165	535 716	425 134	110 583	5
		1999..	10 275	468 119	370 420	97 699	5
		1998..	11 390	526 568	396 784	129 785	3
		1997..	11 532	509 392	386 155	123 237	X
314	Textile product mills	2001..	209 676	6 147 562	5 051 306	1 096 256	2
		2000..	229 717	6 518 138	5 395 146	1 122 992	1
		1999..	237 421	6 520 895	5 418 347	1 102 548	1
		1998..	229 848	6 144 956	5 067 384	1 077 571	2
		1997..	235 441	6 150 313	5 088 653	1 061 660	X
3141	Textile furnishings mills	2001..	115 012	3 387 986	2 775 741	612 246	1
		2000..	124 551	3 548 527	2 931 647	616 880	1
		1999..	125 781	3 507 697	2 912 803	594 894	1
		1998..	125 469	3 376 058	2 787 576	588 482	1
		1997..	126 041	3 320 871	2 750 812	570 059	X
31411	Carpet & rug mills	2001..	49 013	1 614 405	1 313 606	300 798	1
		2000..	51 872	1 664 083	1 368 435	295 648	1
		1999..	50 882	1 611 430	1 339 806	271 624	1
		1998..	52 638	1 650 518	1 355 061	295 458	1
		1997..	51 624	1 587 892	1 320 268	267 624	X
314110	Carpet & rug mills	2001..	49 013	1 614 405	1 313 606	300 798	1
		2000..	51 872	1 664 083	1 368 435	295 648	1
		1999..	50 882	1 611 430	1 339 806	271 624	1
		1998..	52 638	1 650 518	1 355 061	295 458	1
		1997..	51 624	1 587 892	1 320 268	267 624	X
31412	Curtain & linen mills	2001..	65 999	1 773 582	1 462 135	311 447	3
		2000..	72 679	1 884 444	1 563 212	321 232	2
		1999..	74 899	1 896 267	1 572 997	323 270	2
		1998..	72 830	1 725 539	1 432 515	293 024	2
		1997..	74 417	1 732 979	1 430 544	302 435	X
314121	Curtain & drapery mills	2001..	21 238	573 478	480 263	93 215	5
		2000..	23 810	608 383	512 557	95 826	4
		1999..	24 863	599 391	494 459	104 932	3
		1998..	26 892	601 188	495 886	105 302	3
		1997..	25 384	549 365	450 504	98 861	X
314129	Other household textile product mills	2001..	44 761	1 200 104	981 872	218 232	3
		2000..	48 869	1 276 061	1 050 655	225 406	3
		1999..	50 036	1 296 877	1 078 538	218 338	2
		1998..	45 938	1 124 351	936 629	187 722	2
		1997..	49 033	1 183 614	980 040	203 574	X
3149	Other textile product mills	2001..	94 664	2 759 576	2 275 565	484 011	3
		2000..	105 166	2 969 611	2 463 499	506 112	2
		1999..	111 640	3 013 198	2 505 544	507 654	2
		1998..	104 379	2 768 898	2 279 809	489 089	4
		1997..	109 400	2 829 442	2 337 841	491 601	X
31491	Textile bag & canvas mills	2001..	27 361	782 712	665 676	117 036	4
		2000..	29 617	811 668	690 812	120 856	4
		1999..	30 711	806 659	686 309	120 350	3
		1998..	32 567	806 723	683 084	123 639	1
		1997..	32 781	793 531	667 725	125 806	X
314911	Textile bag mills	2001..	9 367	245 042	211 065	33 977	10
		2000..	10 636	256 959	221 850	35 109	8
		1999..	11 735	271 460	232 105	39 355	5
		1998..	13 909	302 330	255 189	47 141	2
		1997..	14 089	301 483	253 570	47 913	X
314912	Canvas & related product mills	2001..	17 994	537 670	454 610	83 060	4
		2000..	18 981	554 709	468 962	85 747	4
		1999..	18 976	535 199	454 204	80 995	4
		1998..	18 658	504 393	427 895	76 498	2
		1997..	18 692	492 048	414 155	77 893	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
314	Textile product mills—Con.						
3149	Other textile product mills—Con.						
31499	All other textile product mills	2001..	67 304	1 976 863	1 609 889	366 974	4
		2000..	75 550	2 157 943	1 772 688	385 255	3
		1999..	80 929	2 206 539	1 819 235	387 304	2
		1998..	71 813	1 962 175	1 596 725	365 450	5
		1997..	76 619	2 035 911	1 670 116	365 795	X
314991	Rope, cordage, & twine mills	2001..	5 787	190 621	155 731	34 890	7
		2000..	6 204	203 530	170 455	33 074	7
		1999..	6 550	198 740	165 534	33 206	4
		1998..	6 310	200 149	162 137	38 012	11
		1997..	6 417	193 861	159 268	34 593	X
314992	Tire cord & tire fabric mills	2001..	4 590	202 494	144 646	57 848	1
		2000..	5 785	253 048	188 727	64 321	1
		1999..	5 523	233 760	171 900	61 860	1
		1998..	4 983	203 863	147 712	56 150	1
		1997..	5 192	209 781	155 683	54 098	X
314999	All other miscellaneous textile product mills	2001..	56 926	1 583 748	1 309 512	274 236	5
		2000..	63 560	1 701 365	1 413 505	287 860	4
		1999..	68 857	1 774 039	1 481 800	292 239	3
		1998..	60 520	1 558 164	1 286 876	271 288	7
		1997..	65 010	1 632 269	1 355 165	277 104	X
315	Apparel mfg	2001..	456 471	11 043 688	9 204 556	1 839 132	2
		2000..	520 322	12 284 163	10 288 064	1 996 099	2
		1999..	577 773	13 196 223	11 046 012	2 150 210	1
		1998..	649 010	14 293 508	11 922 888	2 370 620	1
		1997..	710 796	15 140 092	12 582 352	2 557 740	X
3151	Apparel knitting mills	2001..	72 027	1 843 774	1 526 085	317 689	3
		2000..	78 054	2 006 317	1 663 919	342 398	2
		1999..	83 844	2 055 980	1 714 976	341 004	2
		1998..	89 186	2 149 929	1 786 811	363 119	1
		1997..	99 901	2 343 895	1 933 113	410 782	X
31511	Hosiery & sock mills	2001..	43 467	1 105 348	901 752	203 596	3
		2000..	46 730	1 155 717	952 000	203 717	2
		1999..	48 646	1 156 177	967 880	188 298	2
		1998..	49 486	1 162 726	976 807	185 919	1
		1997..	52 806	1 185 796	982 923	202 873	X
315111	Sheer hosiery mills	2001..	12 250	328 340	255 624	72 716	4
		2000..	13 497	335 940	266 577	69 363	5
		1999..	14 670	353 169	291 713	61 455	5
		1998..	15 342	374 288	311 703	62 584	1
		1997..	17 798	426 814	349 890	76 924	X
315119	Other hosiery & sock mills	2001..	31 217	777 008	646 128	130 880	4
		2000..	33 233	819 777	685 423	134 354	3
		1999..	33 977	803 009	676 166	126 842	2
		1998..	34 144	788 438	665 104	123 334	2
		1997..	35 008	758 982	633 033	125 949	X
31519	Other apparel knitting mills	2001..	28 560	738 426	624 333	114 093	5
		2000..	31 324	850 600	711 919	138 681	4
		1999..	35 198	899 802	747 096	152 707	3
		1998..	39 700	987 204	810 003	177 200	1
		1997..	47 095	1 158 099	950 190	207 909	X
315191	Outerwear knitting mills	2001..	25 514	651 043	556 130	94 913	6
		2000..	28 243	758 857	640 857	118 000	5
		1999..	29 863	749 429	628 672	120 756	3
		1998..	33 371	833 386	689 038	144 349	1
		1997..	40 154	996 765	819 788	176 977	X
315192	Underwear & nightwear knitting mills	2001..	3 046	87 383	68 203	19 179	5
		2000..	3 081	91 743	71 062	20 681	5
		1999..	5 335	150 374	118 423	31 950	3
		1998..	6 329	153 817	120 966	32 852	2
		1997..	6 941	161 334	130 402	30 932	X
3152	Cut & sew apparel mfg	2001..	335 789	7 990 575	6 670 381	1 320 194	3
		2000..	389 285	8 993 934	7 544 210	1 449 724	2
		1999..	441 430	9 892 845	8 279 510	1 613 334	2
		1998..	506 413	10 902 309	9 090 275	1 812 034	1
		1997..	558 328	11 582 165	9 625 941	1 956 224	X
31521	Cut & sew apparel contractors	2001..	80 112	1 369 813	1 161 567	208 246	11
		2000..	98 362	1 629 523	1 377 904	251 618	8
		1999..	117 481	1 871 357	1 594 579	276 778	7
		1998..	162 184	2 598 366	2 216 051	382 315	2
		1997..	197 863	3 017 649	2 572 447	445 202	X
315211	Men's & boys' cut & sew apparel contractors	2001..	29 567	538 760	445 939	92 821	8
		2000..	31 524	573 528	471 850	101 677	7
		1999..	35 455	638 152	525 454	112 697	5
		1998..	42 371	778 337	641 769	136 568	3
		1997..	50 444	840 521	693 666	146 855	X
315212	Women's, girls', & infants' cut & sew apparel contractors	2001..	50 545	831 053	715 628	115 425	18
		2000..	66 837	1 055 995	906 054	149 941	13
		1999..	82 026	1 233 205	1 069 125	164 080	11
		1998..	119 813	1 820 029	1 574 283	245 747	2
		1997..	147 419	2 177 128	1 878 781	298 347	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
315	Apparel mfg—Con.						
3152	Cut & sew apparel mfg—Con.						
31522	Men's & boys' cut & sew apparel mfg	2001	110 607	2 730 201	2 184 246	545 955	3
		2000	125 834	3 011 998	2 438 068	573 930	3
		1999	147 600	3 469 898	2 805 648	664 249	2
		1998	164 738	3 703 977	2 964 379	739 598	1
		1997	177 527	3 884 840	3 098 512	786 328	X
315221	Men's & boys' cut & sew underwear & nightwear mfg	2001	3 085	93 690	73 936	19 754	9
		2000	5 329	152 379	122 949	29 430	6
		1999	7 493	195 045	156 033	39 012	4
		1998	7 037	148 570	117 742	30 827	1
		1997	9 759	208 033	162 485	45 548	X
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	2001	14 637	414 169	324 216	89 954	10
		2000	17 220	474 831	373 314	101 516	8
		1999	19 550	531 639	415 344	116 296	7
		1998	21 200	556 178	438 054	118 124	1
		1997	21 948	581 020	460 838	120 182	X
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	2001	24 326	602 786	487 106	115 681	6
		2000	29 954	713 806	588 697	125 109	4
		1999	38 219	930 422	767 088	163 334	3
		1998	44 314	1 009 676	828 628	181 047	1
		1997	52 648	1 152 081	938 927	213 154	X
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	2001	35 840	913 836	723 088	190 748	7
		2000	37 684	916 519	732 707	183 812	7
		1999	42 208	1 007 693	800 620	207 072	5
		1998	46 456	1 103 624	853 348	250 277	1
		1997	45 219	1 014 473	775 607	238 866	X
315225	Men's & boys' cut & sew work clothing mfg	2001	17 897	373 200	307 244	65 956	5
		2000	19 042	384 967	318 843	66 124	5
		1999	20 475	398 045	328 349	69 695	4
		1998	22 429	412 285	333 682	78 604	2
		1997	23 306	431 228	346 801	84 427	X
315228	Men's & boys' cut & sew other outerwear mfg	2001	14 822	332 518	268 656	63 863	9
		2000	16 605	369 496	301 557	67 939	8
		1999	19 655	407 054	338 214	68 840	5
		1998	23 302	473 644	392 925	80 719	1
		1997	24 647	498 005	413 854	84 151	X
31523	Women's & girls' cut & sew apparel mfg	2001	126 120	3 433 568	2 937 166	496 402	4
		2000	144 655	3 843 152	3 299 455	543 697	3
		1999	153 763	4 027 739	3 438 526	589 213	3
		1998	155 940	4 076 593	3 469 291	607 302	1
		1997	157 739	4 127 309	3 490 513	636 796	X
315231	Women's & girls' cut/sew lingerie & nightwear mfg	2001	16 474	398 230	336 246	61 984	6
		2000	17 651	421 882	352 588	69 294	7
		1999	20 348	467 723	386 253	81 471	5
		1998	23 107	511 766	422 011	89 755	4
		1997	26 081	550 051	451 917	98 134	X
315232	Women's & girls' cut & sew blouse & shirt mfg	2001	27 719	765 347	662 365	102 982	9
		2000	29 260	734 015	640 450	93 565	9
		1999	31 101	847 872	737 091	110 781	7
		1998	29 170	814 145	708 420	105 725	1
		1997	26 201	637 809	554 072	83 737	X
315233	Women's & girls' cut & sew dress mfg	2001	22 305	724 863	639 596	85 267	6
		2000	29 960	859 752	755 181	104 571	5
		1999	28 802	863 341	757 626	105 715	5
		1998	29 158	868 772	762 834	105 938	1
		1997	28 280	811 273	711 042	100 231	X
315234	Women's & girls' cut & sew suit, coat, skirt mfg	2001	9 521	348 911	301 435	47 476	16
		2000	10 685	393 293	333 924	59 370	12
		1999	12 930	427 924	355 958	71 966	9
		1998	18 087	567 219	476 755	90 465	3
		1997	20 324	630 802	528 734	102 068	X
315239	Women's & girls' cut & sew other outerwear mfg	2001	50 100	1 196 216	997 523	198 693	6
		2000	57 100	1 434 210	1 217 313	216 897	5
		1999	60 582	1 420 879	1 201 599	219 280	4
		1998	56 419	1 314 691	1 099 272	215 419	1
		1997	56 853	1 497 374	1 244 748	252 626	X
31529	Other cut & sew apparel mfg	2001	18 950	456 993	387 403	69 591	6
		2000	20 435	509 262	428 783	80 479	5
		1999	22 586	523 851	440 757	83 094	3
		1998	23 551	523 373	440 554	82 819	1
		1997	25 199	552 367	464 469	87 898	X
315291	Infants' cut & sew apparel mfg	2001	2 674	56 524	45 994	10 530	16
		2000	4 666	124 414	100 817	23 597	7
		1999	6 571	146 269	116 655	29 614	6
		1998	8 903	197 379	162 152	35 227	1
		1997	9 457	190 724	152 721	38 003	X
315292	Fur & leather apparel mfg	2001	2 868	71 368	61 250	10 119	22
		2000	2 739	71 377	61 856	9 521	21
		1999	2 782	67 106	58 571	8 535	17
		1998	1 710	46 682	41 380	5 302	8
		1997	2 132	51 940	45 928	6 012	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
315	Apparel mfg—Con.						
3152	Cut & sew apparel mfg—Con.						
31529	Other cut & sew apparel mfg—Con.						
315299	All other cut & sew apparel mfg	2001..	13 408	329 101	280 159	48 942	6
		2000..	13 030	313 471	266 110	47 361	6
		1999..	13 232	310 476	265 531	44 945	3
		1998..	12 937	279 312	237 022	42 290	2
		1997..	13 610	309 703	265 820	43 883	X
3159	Apparel accessories & other apparel mfg	2001..	48 655	1 209 339	1 008 090	201 249	3
		2000..	52 983	1 283 912	1 079 934	203 978	3
		1999..	52 499	1 247 398	1 051 526	195 872	2
		1998..	53 411	1 241 270	1 045 802	195 468	1
		1997..	52 567	1 214 032	1 023 298	190 734	X
31599	Apparel accessories & other apparel mfg	2001..	48 655	1 209 339	1 008 090	201 249	3
		2000..	52 983	1 283 912	1 079 934	203 978	3
		1999..	52 499	1 247 398	1 051 526	195 872	2
		1998..	53 411	1 241 270	1 045 802	195 468	1
		1997..	52 567	1 214 032	1 023 298	190 734	X
315991	Hat, cap, & millinery mfg	2001..	14 885	354 563	293 877	60 686	9
		2000..	16 292	376 034	315 247	60 786	8
		1999..	16 682	375 036	318 283	56 753	7
		1998..	16 827	362 225	304 897	57 328	2
		1997..	17 237	361 054	303 495	57 559	X
315992	Glove & mitten mfg	2001..	4 688	120 528	95 946	24 582	5
		2000..	5 068	124 760	101 097	23 664	5
		1999..	5 396	123 949	101 879	22 069	6
		1998..	6 223	138 769	116 348	22 421	2
		1997..	6 412	143 503	119 679	23 824	X
315993	Men's & boys' neckwear mfg	2001..	3 515	103 714	89 873	13 841	6
		2000..	4 047	111 285	96 847	14 438	5
		1999..	4 426	125 997	110 794	15 203	8
		1998..	4 985	142 252	123 696	18 557	6
		1997..	4 936	134 197	117 274	16 923	X
315999	Other apparel accessories & other apparel mfg	2001..	25 567	630 534	528 393	102 141	3
		2000..	27 577	671 832	566 743	105 089	2
		1999..	25 994	622 416	520 569	101 847	2
		1998..	25 375	598 023	500 861	97 162	1
		1997..	23 982	575 278	482 850	92 428	X
316	Leather & allied product mfg	2001..	61 747	1 818 333	1 482 565	335 767	3
		2000..	69 209	2 020 197	1 653 209	366 988	2
		1999..	73 784	2 144 734	1 766 449	378 285	2
		1998..	80 933	2 220 478	1 823 228	397 250	1
		1997..	85 115	2 237 088	1 832 341	404 747	X
3161	Leather & hide tanning & finishing	2001..	12 998	473 337	375 555	97 782	5
		2000..	15 214	549 559	441 536	108 024	4
		1999..	15 070	562 783	453 590	109 193	3
		1998..	15 366	535 193	430 148	105 044	1
		1997..	14 898	508 024	408 772	99 252	X
31611	Leather & hide tanning & finishing	2001..	12 998	473 337	375 555	97 782	5
		2000..	15 214	549 559	441 536	108 024	4
		1999..	15 070	562 783	453 590	109 193	3
		1998..	15 366	535 193	430 148	105 044	1
		1997..	14 898	508 024	408 772	99 252	X
316110	Leather & hide tanning & finishing	2001..	12 998	473 337	375 555	97 782	5
		2000..	15 214	549 559	441 536	108 024	4
		1999..	15 070	562 783	453 590	109 193	3
		1998..	15 366	535 193	430 148	105 044	1
		1997..	14 898	508 024	408 772	99 252	X
3162	Footwear mfg	2001..	28 043	783 730	633 753	149 977	4
		2000..	30 521	852 719	695 621	157 098	3
		1999..	34 546	935 371	763 926	171 446	3
		1998..	37 563	964 404	783 263	181 141	2
		1997..	41 744	1 021 710	827 526	194 184	X
31621	Footwear mfg	2001..	28 043	783 730	633 753	149 977	4
		2000..	30 521	852 719	695 621	157 098	3
		1999..	34 546	935 371	763 926	171 446	3
		1998..	37 563	964 404	783 263	181 141	2
		1997..	41 744	1 021 710	827 526	194 184	X
316211	Rubber & plastics footwear mfg	2001..	5 959	169 685	136 671	33 014	8
		2000..	6 425	193 422	153 624	39 798	6
		1999..	6 997	198 535	156 726	41 809	4
		1998..	8 198	240 441	192 220	48 221	4
		1997..	8 292	211 982	168 185	43 797	X
316212	House slipper mfg	2001..	1 466	44 432	36 634	7 798	1
		2000..	1 780	51 571	43 029	8 542	1
		1999..	1 946	54 769	45 921	8 848	1
		1998..	2 246	57 735	46 786	10 949	2
		1997..	2 501	62 808	51 471	11 337	X
316213	Men's footwear (except athletic) mfg	2001..	13 564	392 895	307 378	85 516	6
		2000..	14 155	399 364	319 216	80 148	5
		1999..	15 293	428 310	343 768	84 542	4
		1998..	14 971	391 625	314 264	77 361	5
		1997..	17 182	455 508	367 831	87 677	X
316214	Women's footwear (except athletic) mfg	2001..	5 302	137 171	119 435	17 736	11
		2000..	6 114	157 983	137 426	20 558	8
		1999..	7 417	183 992	160 214	23 778	5
		1998..	9 370	210 716	179 913	30 803	2
		1997..	10 442	218 868	183 020	35 848	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
316	Leather & allied product mfg—Con.						
3162	Footwear mfg—Con.						
31621	Footwear mfg—Con.						
316219	Other footwear mfg	2001..	1 752	39 547	33 635	5 913	27
		2000..	2 047	50 379	42 326	8 053	13
		1999..	2 893	69 766	57 297	12 470	5
		1998..	2 778	63 886	50 080	13 806	4
		1997..	3 327	72 544	57 019	15 525	X
3169	Other leather & allied product mfg	2001..	20 705	561 266	473 257	88 009	4
		2000..	23 474	617 920	516 053	101 867	3
		1999..	24 168	646 580	548 933	97 647	3
		1998..	28 004	720 881	609 817	111 064	1
		1997..	28 473	707 354	596 043	111 311	X
31699	Other leather & allied product mfg	2001..	20 705	561 266	473 257	88 009	4
		2000..	23 474	617 920	516 053	101 867	3
		1999..	24 168	646 580	548 933	97 647	3
		1998..	28 004	720 881	609 817	111 064	1
		1997..	28 473	707 354	596 043	111 311	X
316991	Luggage mfg	2001..	6 956	207 738	172 477	35 260	6
		2000..	8 188	229 583	188 799	40 783	5
		1999..	8 944	256 818	214 526	42 292	4
		1998..	9 275	256 964	213 438	43 526	2
		1997..	9 550	264 967	219 951	45 016	X
316992	Women's handbag & purse mfg	2001..	2 289	54 596	47 305	7 290	22
		2000..	2 302	77 914	64 664	13 250	3
		1999..	2 623	75 917	68 863	7 053	6
		1998..	3 651	90 514	80 588	9 926	2
		1997..	3 492	89 307	78 998	10 309	X
316993	Personal leather good (except women's handbag & purse) mfg	2001..	4 198	118 004	100 957	17 047	4
		2000..	4 600	112 634	95 955	16 678	4
		1999..	4 557	107 210	93 245	13 965	6
		1998..	4 957	128 329	110 742	17 588	3
		1997..	5 215	128 740	109 840	18 900	X
316999	All other leather good mfg	2001..	7 262	180 929	152 518	28 411	8
		2000..	8 384	197 789	166 635	31 155	8
		1999..	8 043	206 635	172 299	34 336	5
		1998..	10 121	245 073	205 049	40 024	1
		1997..	10 216	224 340	187 254	37 086	X
321	Wood product mfg	2001..	555 900	18 931 301	15 431 017	3 500 284	1
		2000..	586 473	19 721 960	16 127 580	3 594 380	1
		1999..	588 609	19 621 517	15 988 598	3 632 919	1
		1998..	577 900	18 591 556	15 112 611	3 478 945	1
		1997..	570 034	17 698 996	14 319 193	3 379 803	X
3211	Sawmills & wood preservation	2001..	124 432	4 322 206	3 481 384	840 822	2
		2000..	130 326	4 527 707	3 649 079	878 628	2
		1999..	130 222	4 543 456	3 632 196	911 260	1
		1998..	128 128	4 361 830	3 476 001	885 830	1
		1997..	130 935	4 376 967	3 478 548	898 419	X
32111	Sawmills & wood preservation	2001..	124 432	4 322 206	3 481 384	840 822	2
		2000..	130 326	4 527 707	3 649 079	878 628	2
		1999..	130 222	4 543 456	3 632 196	911 260	1
		1998..	128 128	4 361 830	3 476 001	885 830	1
		1997..	130 935	4 376 967	3 478 548	898 419	X
321113	Sawmills	2001..	113 573	3 945 794	3 168 590	777 204	2
		2000..	118 713	4 146 546	3 333 566	812 980	2
		1999..	118 012	4 152 611	3 310 220	842 391	1
		1998..	116 304	3 995 125	3 177 159	817 966	1
		1997..	119 267	4 011 823	3 180 425	831 398	X
321114	Wood preservation	2001..	10 859	376 411	312 794	63 617	4
		2000..	11 613	381 161	315 513	65 648	4
		1999..	12 210	390 846	321 976	68 870	2
		1998..	11 823	366 706	298 841	67 864	2
		1997..	11 668	365 144	298 123	67 021	X
3212	Veneer, plywood, & engineered wood product mfg	2001..	115 373	4 412 563	3 514 652	897 911	1
		2000..	120 002	4 575 685	3 659 198	916 487	1
		1999..	115 701	4 327 607	3 458 044	869 563	1
		1998..	112 532	4 135 116	3 310 807	824 309	1
		1997..	113 085	3 962 492	3 155 921	806 571	X
32121	Veneer, plywood, & engineered wood product mfg	2001..	115 373	4 412 563	3 514 652	897 911	1
		2000..	120 002	4 575 685	3 659 198	916 487	1
		1999..	115 701	4 327 607	3 458 044	869 563	1
		1998..	112 532	4 135 116	3 310 807	824 309	1
		1997..	113 085	3 962 492	3 155 921	806 571	X
321211	Hardwood veneer & plywood mfg	2001..	22 522	730 561	584 922	145 639	3
		2000..	23 775	762 445	617 653	144 792	3
		1999..	21 968	685 089	556 315	128 773	3
		1998..	21 236	681 111	550 599	130 512	3
		1997..	22 029	647 571	523 831	123 740	X
321212	Softwood veneer & plywood mfg	2001..	25 611	1 105 826	849 318	256 508	2
		2000..	27 567	1 175 694	911 066	264 629	1
		1999..	25 793	1 107 613	861 335	246 278	1
		1998..	26 219	1 093 920	859 116	234 804	2
		1997..	28 435	1 147 624	895 756	251 868	X
321213	Engineered wood member (except truss) mfg	2001..	5 724	250 618	193 583	57 034	6
		2000..	5 709	241 354	185 192	56 162	4
		1999..	5 884	249 931	192 765	57 165	4
		1998..	5 811	225 156	173 489	51 667	1
		1997..	5 372	197 980	154 564	43 416	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
321	Wood product mfg—Con.						
3212	Veneer, plywood, & engineered wood product mfg—Con.						
32121	Veneer, plywood, & engineered wood product mfg—Con.						
321214	Truss mfg	2001..	39 307	1 309 463	1 104 210	205 253	3
		2000..	38 597	1 288 699	1 083 561	205 137	3
		1999..	37 649	1 206 770	1 009 567	197 203	2
		1998..	34 661	1 099 815	920 735	179 080	3
		1997..	32 069	943 512	784 839	158 673	X
321219	Reconstituted wood product mfg	2001..	22 208	1 016 095	782 619	233 477	2
		2000..	24 354	1 107 493	861 727	245 766	1
		1999..	24 408	1 078 205	838 062	240 143	1
		1998..	24 605	1 035 114	806 868	228 246	1
		1997..	25 180	1 025 805	796 931	228 874	X
3219	Other wood product mfg	2001..	316 095	10 196 532	8 434 981	1 761 551	3
		2000..	336 145	10 618 568	8 819 303	1 799 265	3
		1999..	342 686	10 750 453	8 898 358	1 852 096	1
		1998..	337 240	10 094 610	8 325 804	1 768 806	1
		1997..	326 014	9 359 537	7 684 724	1 674 813	X
32191	Millwork	2001..	145 904	5 078 329	4 166 871	911 458	5
		2000..	151 653	5 137 137	4 226 621	910 515	5
		1999..	151 659	5 019 454	4 101 319	918 135	2
		1998..	145 125	4 534 991	3 696 253	838 738	1
		1997..	140 506	4 237 561	3 434 757	802 804	X
321911	Wood window & door mfg	2001..	65 894	2 599 912	2 120 872	479 040	9
		2000..	68 317	2 603 744	2 133 397	470 347	9
		1999..	69 473	2 593 791	2 107 860	485 931	3
		1998..	66 817	2 278 688	1 877 279	401 409	1
		1997..	63 806	2 093 069	1 702 872	390 197	X
321912	Cut stock, resawing lumber, & planing	2001..	40 173	1 200 494	987 539	212 955	3
		2000..	41 710	1 249 159	1 027 014	222 145	3
		1999..	41 561	1 212 768	989 376	223 392	2
		1998..	39 744	1 149 968	918 608	231 360	4
		1997..	39 205	1 092 922	878 081	214 841	X
321918	Other millwork (including flooring)	2001..	39 837	1 277 923	1 058 459	219 463	3
		2000..	41 626	1 284 234	1 066 210	218 024	2
		1999..	40 626	1 212 895	1 004 083	208 812	3
		1998..	38 564	1 106 336	900 366	205 970	1
		1997..	37 495	1 051 570	853 804	197 766	X
32192	Wood container & pallet mfg	2001..	49 157	1 283 642	1 097 365	186 277	3
		2000..	51 091	1 301 975	1 116 084	185 891	2
		1999..	49 899	1 240 125	1 062 422	177 703	2
		1998..	52 564	1 215 702	1 033 297	182 404	1
		1997..	51 173	1 148 114	971 865	176 249	X
321920	Wood container & pallet mfg	2001..	49 157	1 283 642	1 097 365	186 277	3
		2000..	51 091	1 301 975	1 116 084	185 891	2
		1999..	49 899	1 240 125	1 062 422	177 703	2
		1998..	52 564	1 215 702	1 033 297	182 404	1
		1997..	51 173	1 148 114	971 865	176 249	X
32199	All other wood product mfg	2001..	121 034	3 834 560	3 170 744	663 816	1
		2000..	133 402	4 179 457	3 476 598	702 858	1
		1999..	141 129	4 490 874	3 734 616	756 258	1
		1998..	139 551	4 343 917	3 596 254	747 664	1
		1997..	134 335	3 973 862	3 278 102	695 760	X
321991	Manufactured home (mobile home) mfg	2001..	52 058	1 699 527	1 404 641	294 886	2
		2000..	62 104	2 006 971	1 679 914	327 057	1
		1999..	71 747	2 389 983	1 995 956	394 027	2
		1998..	71 424	2 403 096	2 005 262	397 835	1
		1997..	67 470	2 131 242	1 771 302	359 940	X
321992	Prefabricated wood building mfg	2001..	26 166	912 226	762 976	149 250	3
		2000..	26 334	893 889	746 915	146 974	3
		1999..	25 612	841 151	704 775	136 376	3
		1998..	23 579	757 519	624 900	132 619	3
		1997..	23 187	714 722	592 344	122 378	X
321999	All other miscellaneous wood product mfg	2001..	42 810	1 222 807	1 003 127	219 680	3
		2000..	44 964	1 278 597	1 049 769	228 828	2
		1999..	43 769	1 259 740	1 033 885	225 855	2
		1998..	44 548	1 183 302	966 092	217 210	1
		1997..	43 678	1 127 898	914 456	213 442	X
322	Paper mfg	2001..	530 245	28 133 603	22 188 323	5 945 280	1
		2000..	548 293	28 365 510	22 680 124	5 685 386	1
		1999..	560 662	28 472 010	22 837 400	5 634 610	1
		1998..	572 371	28 237 942	22 529 483	5 708 459	1
		1997..	574 274	27 902 123	22 311 971	5 590 152	X
3221	Pulp, paper, & paperboard mills	2001..	170 661	11 808 897	9 178 690	2 630 207	1
		2000..	179 279	11 963 382	9 447 174	2 516 209	1
		1999..	187 518	12 281 216	9 759 270	2 521 945	1
		1998..	195 053	12 359 654	9 785 963	2 573 692	1
		1997..	201 540	12 488 726	10 001 730	2 486 996	X
32211	Pulp mills	2001..	7 218	538 553	414 452	124 101	1
		2000..	7 337	536 121	411 307	124 813	1
		1999..	7 311	504 612	389 985	114 627	1
		1998..	7 433	505 743	397 165	108 578	1
		1997..	8 048	523 928	417 689	106 239	X
322110	Pulp mills	2001..	7 218	538 553	414 452	124 101	1
		2000..	7 337	536 121	411 307	124 813	1
		1999..	7 311	504 612	389 985	114 627	1
		1998..	7 433	505 743	397 165	108 578	1
		1997..	8 048	523 928	417 689	106 239	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
322	Paper mfg—Con.						
3221	Pulp, paper, & paperboard mills—Con.						
32212	Paper mills	2001..	114 670	7 964 368	6 162 914	1 801 454	1
		2000..	121 025	8 033 490	6 340 914	1 692 575	1
		1999..	129 011	8 406 848	6 688 680	1 718 168	1
		1998..	133 939	8 466 782	6 675 971	1 790 811	2
		1997..	138 985	8 634 089	6 915 579	1 718 510	X
322121	Paper (except newsprint) mills	2001..	104 964	7 219 743	5 586 938	1 632 805	1
		2000..	110 708	7 261 201	5 738 720	1 522 481	1
		1999..	117 721	7 593 785	6 062 652	1 531 133	1
		1998..	121 298	7 581 050	5 973 936	1 607 114	2
		1997..	125 935	7 735 327	6 197 015	1 538 312	X
322122	Newsprint mills	2001..	9 706	744 625	575 976	168 649	2
		2000..	10 317	772 289	602 195	170 094	2
		1999..	11 291	813 062	626 027	187 035	1
		1998..	12 641	885 732	702 035	183 697	1
		1997..	13 050	898 762	718 564	180 198	X
32213	Paperboard mills	2001..	48 773	3 305 976	2 601 324	704 652	1
		2000..	50 918	3 393 772	2 694 952	698 821	1
		1999..	51 196	3 369 756	2 680 605	689 151	1
		1998..	53 681	3 387 129	2 712 826	674 302	1
		1997..	54 507	3 330 709	2 668 462	662 247	X
322130	Paperboard mills	2001..	48 773	3 305 976	2 601 324	704 652	1
		2000..	50 918	3 393 772	2 694 952	698 821	1
		1999..	51 196	3 369 756	2 680 605	689 151	1
		1998..	53 681	3 387 129	2 712 826	674 302	1
		1997..	54 507	3 330 709	2 668 462	662 247	X
3222	Converted paper product mfg	2001..	359 584	16 324 706	13 009 633	3 315 073	2
		2000..	369 013	16 402 128	13 232 951	3 169 177	1
		1999..	373 144	16 190 794	13 078 130	3 112 664	1
		1998..	377 317	15 878 288	12 743 521	3 134 767	1
		1997..	372 734	15 413 397	12 310 241	3 103 156	X
32221	Paperboard container mfg	2001..	205 004	9 405 697	7 482 963	1 922 733	3
		2000..	212 261	9 466 966	7 663 813	1 803 154	1
		1999..	211 488	9 290 107	7 530 283	1 759 825	1
		1998..	211 799	9 013 729	7 251 137	1 762 593	1
		1997..	207 346	8 695 893	6 939 598	1 756 295	X
322211	Corrugated & solid fiber box mfg	2001..	131 225	6 166 306	4 902 874	1 263 431	5
		2000..	134 341	6 045 943	4 909 083	1 136 860	1
		1999..	132 517	5 892 903	4 799 280	1 093 622	1
		1998..	129 387	5 545 566	4 475 762	1 069 804	2
		1997..	124 641	5 313 757	4 260 630	1 053 127	X
322212	Folding paperboard box mfg	2001..	43 618	2 075 497	1 664 152	411 345	2
		2000..	46 677	2 220 436	1 791 259	429 176	2
		1999..	47 584	2 188 683	1 759 206	429 477	1
		1998..	50 798	2 254 230	1 794 138	460 092	2
		1997..	50 465	2 217 943	1 745 178	472 765	X
322213	Setup paperboard box mfg	2001..	5 476	166 949	141 706	25 244	10
		2000..	5 688	174 179	147 817	26 361	11
		1999..	5 345	159 243	135 096	24 147	4
		1998..	S	S	S	S	X
		1997..	6 033	171 355	142 263	29 092	X
322214	Fiber can, tube, drum, & similar products mfg	2001..	11 490	462 556	364 000	98 556	5
		2000..	11 478	480 447	384 703	95 744	4
		1999..	11 787	504 767	403 757	101 010	3
		1998..	11 311	475 510	376 801	98 709	1
		1997..	11 498	451 627	355 517	96 110	X
322215	Nonfolding sanitary food container mfg	2001..	13 195	534 389	410 231	124 158	2
		2000..	14 076	545 962	430 949	115 012	2
		1999..	14 254	544 511	432 943	111 568	3
		1998..	14 701	547 839	447 284	100 555	7
		1997..	14 709	541 211	436 010	105 201	X
32222	Paper bag & coated & treated paper mfg	2001..	70 599	3 351 379	2 664 502	686 877	2
		2000..	70 337	3 340 140	2 667 468	672 673	2
		1999..	72 312	3 388 375	2 706 515	681 861	1
		1998..	75 290	3 395 933	2 699 017	696 916	1
		1997..	75 370	3 322 114	2 624 531	697 583	X
322221	Coated & laminated packaging paper & plastics film mfg	2001..	5 545	264 458	208 625	55 834	4
		2000..	5 897	267 385	213 049	54 336	4
		1999..	5 864	258 599	205 744	52 854	2
		1998..	4 974	221 896	175 342	46 554	4
		1997..	5 385	232 666	183 786	48 880	X
322222	Coated & laminated paper mfg	2001..	40 577	2 009 300	1 610 436	398 864	4
		2000..	38 861	1 964 905	1 583 671	381 235	2
		1999..	40 101	1 987 131	1 601 254	385 877	2
		1998..	41 548	1 980 333	1 584 975	395 358	1
		1997..	41 550	1 957 063	1 552 642	404 421	X
322223	Plastics, foil, & coated paper bag mfg	2001..	2 315	98 851	80 618	18 233	4
		2000..	2 389	98 638	80 572	18 066	4
		1999..	2 626	108 793	88 085	20 708	3
		1998..	3 129	120 287	96 131	24 156	1
		1997..	2 991	120 648	94 810	25 838	X
322224	Uncoated paper & multiwall bag mfg	2001..	14 903	582 471	458 850	123 621	3
		2000..	15 500	605 542	477 826	127 715	3
		1999..	15 878	610 238	482 804	127 435	2
		1998..	17 119	617 523	490 330	127 193	1
		1997..	16 808	586 530	461 405	125 125	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
322	Paper mfg—Con.						
3222	Converted paper product mfg—Con.						
32222	Paper bag & coated & treated paper mfg—Con.						
322225	Laminated aluminum foil mfg for flexible packaging uses	2001..	4 628	280 573	216 291	64 282	3
		2000..	4 626	270 667	208 011	62 657	3
		1999..	4 751	277 117	210 317	66 800	2
		1998..	5 241	301 810	228 700	73 110	2
		1997..	5 342	269 569	205 766	63 803	X
322226	Surface-coated paperboard mfg	2001..	2 630	115 725	89 681	26 043	4
		2000..	3 064	133 003	104 339	28 665	4
		1999..	3 092	146 497	118 311	28 187	5
		1998..	3 280	154 085	123 539	30 546	1
		1997..	3 294	155 638	126 122	29 516	X
32223	Stationery product mfg	2001..	45 137	1 806 182	1 452 293	353 889	2
		2000..	46 831	1 859 723	1 498 748	360 976	2
		1999..	47 881	1 796 096	1 445 464	350 632	1
		1998..	48 245	1 721 937	1 388 770	333 167	2
		1997..	47 750	1 697 154	1 375 317	321 837	X
322231	Die-cut paper & paperboard office supplies mfg	2001..	12 995	465 431	376 366	89 065	6
		2000..	13 467	492 561	403 586	88 975	6
		1999..	13 859	479 259	386 228	93 032	4
		1998..	13 194	434 903	347 777	87 125	2
		1997..	12 552	422 596	337 559	85 037	X
322232	Envelope mfg	2001..	24 133	1 039 150	834 613	204 537	2
		2000..	25 208	1 062 675	852 700	209 976	2
		1999..	25 428	1 005 818	812 952	192 866	1
		1998..	26 362	999 326	807 908	191 418	4
		1997..	25 981	981 010	796 765	184 245	X
322233	Stationery, tablet, & related product mfg	2001..	8 009	301 600	241 314	60 287	4
		2000..	8 156	304 487	242 463	62 024	4
		1999..	8 594	311 019	246 285	64 734	3
		1998..	8 689	287 708	233 085	54 623	2
		1997..	9 217	293 548	240 993	52 555	X
32229	Other converted paper product mfg	2001..	38 844	1 761 449	1 409 875	351 575	3
		2000..	39 585	1 735 298	1 402 923	332 375	3
		1999..	41 463	1 716 216	1 395 868	320 347	3
		1998..	41 983	1 746 689	1 404 597	342 092	1
		1997..	42 268	1 698 236	1 370 795	327 441	X
322291	Sanitary paper product mfg	2001..	15 489	801 987	626 054	175 933	4
		2000..	15 431	767 106	609 088	158 019	4
		1999..	16 233	783 243	630 570	152 673	4
		1998..	18 864	916 103	730 945	185 158	1
		1997..	18 360	844 755	680 102	164 653	X
322299	All other converted paper product mfg	2001..	23 356	959 463	783 821	175 641	4
		2000..	24 154	968 192	793 835	174 357	4
		1999..	25 230	932 973	765 299	167 674	4
		1998..	23 119	830 587	673 652	156 934	3
		1997..	23 908	853 481	690 693	162 788	X
323	Printing & related support activities	2001..	799 240	32 146 643	27 157 972	4 988 671	1
		2000..	830 403	33 212 834	28 114 165	5 098 669	1
		1999..	835 053	32 467 776	27 329 098	5 138 678	1
		1998..	843 254	32 032 226	26 846 805	5 185 421	1
		1997..	834 404	31 148 808	26 022 991	5 125 817	X
3231	Printing & related support activities	2001..	799 240	32 146 643	27 157 972	4 988 671	1
		2000..	830 403	33 212 834	28 114 165	5 098 669	1
		1999..	835 053	32 467 776	27 329 098	5 138 678	1
		1998..	843 254	32 032 226	26 846 805	5 185 421	1
		1997..	834 404	31 148 808	26 022 991	5 125 817	X
32311	Printing	2001..	725 947	29 256 611	24 666 853	4 589 758	1
		2000..	752 485	30 013 374	25 353 614	4 659 760	2
		1999..	756 706	29 270 633	24 593 588	4 677 045	1
		1998..	760 983	28 692 273	24 001 590	4 690 682	1
		1997..	751 027	27 877 920	23 250 806	4 627 114	X
323110	Commercial lithographic printing	2001..	409 239	17 417 043	14 790 748	2 626 295	2
		2000..	417 659	17 644 287	15 047 387	2 596 900	3
		1999..	417 693	17 273 043	14 635 024	2 638 019	2
		1998..	422 579	16 986 579	14 356 414	2 630 165	1
		1997..	413 680	16 298 706	13 708 665	2 590 041	X
323111	Commercial gravure printing	2001..	17 936	847 807	676 170	171 638	2
		2000..	21 892	1 022 843	820 793	202 050	2
		1999..	21 879	999 745	798 999	200 745	1
		1998..	23 116	1 026 261	827 300	198 961	1
		1997..	23 126	995 201	802 731	192 470	X
323112	Commercial flexographic printing	2001..	33 065	1 465 802	1 229 923	235 878	2
		2000..	32 416	1 444 600	1 210 212	234 388	2
		1999..	32 056	1 336 115	1 117 035	219 080	2
		1998..	30 733	1 278 879	1 061 921	216 958	2
		1997..	30 348	1 239 829	1 027 927	211 902	X
323113	Commercial screen printing	2001..	64 891	2 148 708	1 838 171	310 536	4
		2000..	69 417	2 212 611	1 891 674	320 937	3
		1999..	69 007	2 099 168	1 771 047	328 121	2
		1998..	70 835	2 042 938	1 705 381	337 557	2
		1997..	72 479	2 071 383	1 731 971	339 412	X
323114	Quick printing	2001..	49 215	1 539 770	1 321 514	218 256	5
		2000..	53 290	1 659 997	1 419 456	240 541	4
		1999..	56 264	1 680 315	1 429 309	251 006	2
		1998..	52 954	1 532 984	1 299 726	233 258	1
		1997..	52 069	1 475 034	1 248 931	226 103	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
323	Printing & related support activities—Con.						
3231	Printing & related support activities—Con.						
32311	Printing—Con.						
323115	Digital printing	2001..	6 627	233 259	199 106	34 152	10
		2000..	6 627	250 036	212 640	37 396	9
		1999..	5 216	186 248	158 539	27 708	5
		1998..	4 582	155 391	130 574	24 817	3
		1997..	4 222	145 678	122 560	23 118	X
323116	Manifold business form printing	2001..	45 416	1 812 956	1 484 015	328 941	3
		2000..	48 986	1 952 187	1 570 945	381 242	3
		1999..	52 911	1 978 776	1 592 743	386 032	2
		1998..	54 721	2 045 959	1 640 299	405 660	4
		1997..	55 884	2 079 125	1 678 053	401 072	X
323117	Book printing	2001..	49 823	2 028 083	1 651 785	376 299	3
		2000..	51 765	2 074 898	1 711 184	363 714	2
		1999..	50 518	2 008 840	1 659 177	349 663	2
		1998..	49 453	1 901 956	1 549 499	352 457	1
		1997..	49 047	1 873 428	1 530 539	342 889	X
323118	Blankbook, looseleaf binder, & device mfg	2001..	15 414	572 755	464 002	108 753	5
		2000..	15 693	597 138	487 533	109 605	4
		1999..	16 781	604 261	493 852	110 409	4
		1998..	17 485	644 229	522 868	121 361	2
		1997..	17 565	623 967	496 481	127 486	X
323119	Other commercial printing	2001..	34 322	1 190 428	1 011 418	179 009	6
		2000..	34 741	1 154 777	981 791	172 986	5
		1999..	34 381	1 104 124	937 862	166 262	5
		1998..	34 524	1 077 098	907 607	169 491	3
		1997..	32 607	1 075 569	902 948	172 621	X
32312	Support activities for printing	2001..	73 293	2 890 032	2 491 120	398 913	4
		2000..	77 918	3 199 460	2 760 551	438 909	3
		1999..	78 347	3 197 143	2 735 510	461 633	3
		1998..	82 271	3 339 953	2 845 214	494 739	2
		1997..	83 377	3 270 888	2 772 185	498 703	X
323121	Tradebinding & related work	2001..	31 460	932 919	815 706	117 213	6
		2000..	31 965	990 843	862 806	128 036	6
		1999..	30 582	947 700	813 813	133 887	4
		1998..	30 982	931 702	797 864	133 838	2
		1997..	30 831	886 915	755 060	131 855	X
323122	Prepress services	2001..	41 833	1 957 114	1 675 414	281 700	5
		2000..	45 953	2 208 617	1 897 745	310 872	4
		1999..	47 765	2 249 444	1 921 697	327 747	3
		1998..	51 289	2 408 251	2 047 350	360 901	3
		1997..	52 546	2 383 973	2 017 125	366 848	X
324	Petroleum & coal products mfg	2001..	101 452	7 524 031	5 829 969	1 694 062	1
		2000..	101 343	7 098 427	5 618 433	1 479 995	1
		1999..	103 407	7 111 302	5 613 124	1 498 178	1
		1998..	107 980	7 220 262	5 678 001	1 542 260	1
		1997..	107 625	7 125 300	5 546 082	1 579 218	X
3241	Petroleum & coal products mfg	2001..	101 452	7 524 031	5 829 969	1 694 062	1
		2000..	101 343	7 098 427	5 618 433	1 479 995	1
		1999..	103 407	7 111 302	5 613 124	1 498 178	1
		1998..	107 980	7 220 262	5 678 001	1 542 260	1
		1997..	107 625	7 125 300	5 546 082	1 579 218	X
32411	Petroleum refineries	2001..	63 258	5 526 436	4 233 075	1 293 360	1
		2000..	62 118	5 072 549	3 991 697	1 080 852	1
		1999..	63 619	5 086 654	3 983 102	1 103 553	1
		1998..	64 920	5 084 300	3 964 664	1 119 637	1
		1997..	65 448	5 035 389	3 884 869	1 150 520	X
324110	Petroleum refineries	2001..	63 258	5 526 436	4 233 075	1 293 360	1
		2000..	62 118	5 072 549	3 991 697	1 080 852	1
		1999..	63 619	5 086 654	3 983 102	1 103 553	1
		1998..	64 920	5 084 300	3 964 664	1 119 637	1
		1997..	65 448	5 035 389	3 884 869	1 150 520	X
32412	Asphalt paving, roofing, & saturated materials mfg	2001..	25 214	1 279 827	1 022 680	257 148	2
		2000..	25 632	1 283 406	1 029 184	254 223	2
		1999..	26 156	1 308 134	1 049 669	258 465	2
		1998..	27 962	1 359 721	1 095 663	264 059	1
		1997..	27 301	1 319 492	1 059 768	259 724	X
324121	Asphalt paving mixture & block mfg	2001..	13 134	672 858	534 546	138 312	3
		2000..	12 983	663 818	527 236	136 582	3
		1999..	13 188	665 493	532 740	132 753	3
		1998..	14 660	705 880	572 980	132 900	2
		1997..	13 946	695 135	560 441	134 694	X
324122	Asphalt shingle & coating materials mfg	2001..	12 080	606 969	488 133	118 836	3
		2000..	12 649	619 589	501 948	117 641	2
		1999..	12 969	642 641	516 929	125 712	1
		1998..	13 302	653 842	522 682	131 159	1
		1997..	13 355	624 357	499 327	125 030	X
32419	Other petroleum & coal products mfg	2001..	12 980	717 768	574 214	143 554	2
		2000..	13 592	742 472	597 552	144 920	2
		1999..	13 632	716 514	580 354	136 160	2
		1998..	15 099	776 240	617 675	158 565	2
		1997..	14 876	770 419	601 445	168 974	X
324191	Petroleum lubricating oil & grease mfg	2001..	9 847	548 132	445 028	103 104	2
		2000..	10 344	575 566	468 197	107 368	2
		1999..	10 850	573 913	469 666	104 247	2
		1998..	11 542	583 647	471 421	112 226	2
		1997..	11 242	562 016	448 857	113 159	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
324	Petroleum & coal products mfg—Con.						
3241	Petroleum & coal products mfg—Con.						
32419	Other petroleum & coal products mfg—Con.						
324199	All other petroleum & coal products mfg	2001	3 133	169 637	129 186	40 450	4
		2000	3 248	166 906	129 354	37 552	3
		1999	2 782	142 601	110 688	31 913	3
		1998	3 557	192 593	146 254	46 338	3
		1997	3 634	208 403	152 588	55 815	X
325	Chemical mfg	2001	874 958	55 017 040	43 800 327	11 216 712	1
		2000	889 830	54 575 667	43 507 590	11 068 077	1
		1999	885 695	53 598 901	42 643 928	10 954 973	1
		1998	895 452	52 362 174	41 581 035	10 781 138	1
		1997	882 645	50 310 027	39 835 717	10 474 310	X
3251	Basic chemical mfg	2001	183 233	13 427 189	10 582 386	2 844 802	1
		2000	190 799	13 390 330	10 530 784	2 859 545	1
		1999	196 568	13 479 071	10 504 759	2 974 312	1
		1998	202 185	13 345 828	10 498 422	2 847 405	1
		1997	200 766	13 091 426	10 290 943	2 800 483	X
32511	Petrochemical mfg	2001	8 756	771 084	613 067	158 017	2
		2000	9 657	761 430	600 988	160 442	2
		1999	11 762	947 280	718 135	229 145	1
		1998	10 377	831 146	646 692	184 454	1
		1997	10 192	813 832	620 132	193 700	X
325110	Petrochemical mfg	2001	8 756	771 084	613 067	158 017	2
		2000	9 657	761 430	600 988	160 442	2
		1999	11 762	947 280	718 135	229 145	1
		1998	10 377	831 146	646 692	184 454	1
		1997	10 192	813 832	620 132	193 700	X
32512	Industrial gas mfg	2001	11 097	737 667	564 396	173 271	2
		2000	11 266	744 190	564 479	179 710	2
		1999	11 901	751 180	575 695	175 485	3
		1998	12 548	748 486	581 876	166 610	1
		1997	12 636	746 006	579 853	166 153	X
325120	Industrial gas mfg	2001	11 097	737 667	564 396	173 271	2
		2000	11 266	744 190	564 479	179 710	2
		1999	11 901	751 180	575 695	175 485	3
		1998	12 548	748 486	581 876	166 610	1
		1997	12 636	746 006	579 853	166 153	X
32513	Dye & pigment mfg	2001	16 619	1 025 587	827 196	198 391	3
		2000	17 626	1 083 379	862 757	220 621	3
		1999	17 078	1 020 520	801 761	218 758	4
		1998	16 964	991 127	780 322	210 805	2
		1997	17 318	1 000 621	782 624	217 997	X
325131	Inorganic dye & pigment mfg	2001	7 481	517 532	413 736	103 796	6
		2000	8 289	556 394	440 521	115 873	6
		1999	8 205	532 832	411 860	120 972	5
		1998	8 524	509 845	401 354	108 492	1
		1997	8 629	505 276	394 603	110 673	X
325132	Synthetic organic dye & pigment mfg	2001	9 138	508 055	413 460	94 595	3
		2000	9 337	526 985	422 236	104 748	3
		1999	8 872	487 688	389 901	97 787	5
		1998	8 440	481 281	378 968	102 313	3
		1997	8 689	495 345	388 021	107 324	X
32518	Other basic inorganic chemical mfg	2001	54 038	4 061 389	3 148 229	913 160	1
		2000	56 944	3 942 498	3 076 985	865 513	1
		1999	59 978	4 078 278	3 123 242	955 036	1
		1998	62 784	4 061 554	3 186 819	874 734	1
		1997	60 055	3 779 753	2 971 865	807 888	X
325181	Alkalies & chlorine mfg	2001	4 693	362 275	285 999	76 277	1
		2000	4 891	379 166	300 311	78 855	1
		1999	4 878	350 769	277 595	73 174	1
		1998	4 899	349 193	279 018	70 175	1
		1997	4 859	339 677	272 779	66 898	X
325182	Carbon black mfg	2001	1 761	123 418	98 190	25 228	1
		2000	1 860	125 460	100 788	24 672	2
		1999	1 875	119 791	97 813	21 978	2
		1998	1 732	119 927	93 012	26 915	1
		1997	1 769	117 458	90 694	26 764	X
325188	All other basic inorganic chemical mfg	2001	47 584	3 575 696	2 764 041	811 655	1
		2000	50 193	3 437 872	2 675 886	761 986	1
		1999	53 225	3 607 717	2 747 833	859 884	1
		1998	56 153	3 592 434	2 814 789	777 645	1
		1997	53 427	3 322 618	2 608 392	714 226	X
32519	Other basic organic chemical mfg	2001	92 724	6 831 462	5 429 498	1 401 964	1
		2000	95 307	6 858 834	5 425 575	1 433 259	1
		1999	95 850	6 681 814	5 285 926	1 395 888	1
		1998	99 512	6 713 515	5 302 713	1 410 802	1
		1997	100 565	6 751 214	5 336 469	1 414 745	X
325191	Gum & wood chemical mfg	2001	2 364	118 758	91 468	27 290	2
		2000	2 171	113 842	88 463	25 379	1
		1999	2 494	121 694	96 807	24 887	1
		1998	2 486	115 501	93 987	21 515	1
		1997	2 261	104 809	84 253	20 556	X
325192	Cyclic crude & intermediate mfg	2001	6 771	572 328	443 390	128 937	2
		2000	7 477	627 776	486 663	141 113	2
		1999	8 280	651 378	504 356	147 022	1
		1998	8 557	602 648	463 580	139 068	1
		1997	8 641	605 172	467 132	138 040	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
325	Chemical mfg—Con.						
3251	Basic chemical mfg—Con.						
32519	Other basic organic chemical mfg—Con.						
325193	Ethyl alcohol mfg	2001..	1 679	90 189	69 525	20 665	4
		2000..	1 649	85 373	67 082	18 291	4
		1999..	1 720	83 574	64 950	18 624	4
		1998..	1 542	78 048	60 133	17 915	6
		1997..	1 503	74 633	58 421	16 212	X
325199	All other basic organic chemical mfg	2001..	81 910	6 050 188	4 825 116	1 225 072	1
		2000..	84 010	6 031 843	4 783 367	1 248 476	1
		1999..	83 356	5 825 168	4 619 814	1 205 355	1
		1998..	86 927	5 917 318	4 685 013	1 232 304	1
		1997..	88 160	5 966 600	4 726 663	1 239 937	X
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	2001..	97 589	6 699 031	5 179 866	1 519 165	1
		2000..	106 753	7 096 749	5 523 369	1 573 380	1
		1999..	109 409	7 303 734	5 618 019	1 685 715	1
		1998..	114 427	7 163 532	5 509 683	1 653 849	1
		1997..	115 691	7 029 436	5 397 924	1 631 512	X
32521	Resin & synthetic rubber mfg	2001..	68 953	5 074 526	3 975 917	1 098 610	2
		2000..	74 036	5 303 567	4 177 055	1 126 512	2
		1999..	73 499	5 304 618	4 112 604	1 192 014	1
		1998..	73 701	5 024 666	3 893 560	1 131 107	1
		1997..	73 804	4 903 377	3 788 883	1 114 494	X
325211	Plastics material & resin mfg	2001..	58 613	4 308 285	3 388 835	919 450	2
		2000..	63 250	4 530 871	3 578 852	952 019	2
		1999..	62 287	4 505 254	3 499 089	1 006 165	1
		1998..	62 789	4 243 548	3 297 106	946 442	1
		1997..	61 632	4 068 330	3 160 542	907 788	X
325212	Synthetic rubber mfg	2001..	10 340	766 241	587 082	179 160	3
		2000..	10 786	772 696	598 203	174 493	3
		1999..	11 212	799 364	613 516	185 848	3
		1998..	10 912	781 118	596 454	184 664	1
		1997..	12 172	835 047	628 341	206 706	X
32522	Artificial & synthetic fibers & filaments mfg	2001..	28 636	1 624 505	1 203 949	420 556	1
		2000..	32 717	1 793 182	1 346 314	446 868	1
		1999..	35 910	1 999 116	1 505 414	493 702	1
		1998..	40 726	2 138 866	1 616 123	522 743	1
		1997..	41 887	2 126 059	1 609 041	517 018	X
325221	Cellulosic organic fiber mfg	2001..	1 863	109 042	75 742	33 300	1
		2000..	2 098	111 979	81 076	30 903	1
		1999..	3 187	168 256	122 877	45 379	1
		1998..	4 055	198 848	147 082	51 766	1
		1997..	4 802	236 905	174 879	62 026	X
325222	Noncellulosic organic fiber mfg	2001..	26 773	1 515 463	1 128 207	387 256	1
		2000..	30 619	1 681 203	1 265 238	415 965	1
		1999..	32 724	1 830 860	1 382 537	448 323	1
		1998..	36 671	1 940 018	1 469 041	470 977	1
		1997..	37 085	1 889 154	1 434 162	454 992	X
3253	Pesticide, fertilizer, & other agricultural chemical mfg	2001..	33 898	2 024 729	1 601 144	423 585	3
		2000..	35 071	2 053 517	1 639 267	414 250	2
		1999..	36 673	2 039 072	1 629 486	409 586	2
		1998..	37 437	1 956 547	1 557 357	399 190	2
		1997..	37 123	1 902 960	1 515 969	386 991	X
32531	Fertilizer mfg	2001..	21 498	1 222 383	986 272	236 110	2
		2000..	21 945	1 226 587	989 490	237 097	2
		1999..	22 971	1 198 539	963 321	235 218	2
		1998..	23 140	1 136 984	911 851	225 133	3
		1997..	23 150	1 091 982	880 977	211 005	X
325311	Nitrogenous fertilizer mfg	2001..	5 016	339 249	277 648	61 602	4
		2000..	5 179	326 856	270 937	55 919	4
		1999..	5 292	319 277	262 548	56 728	4
		1998..	5 204	360 193	295 207	64 987	2
		1997..	5 811	346 127	286 132	59 995	X
325312	Phosphatic fertilizer mfg	2001..	7 195	470 061	358 614	111 447	1
		2000..	7 491	489 009	373 675	115 334	1
		1999..	8 682	527 038	411 189	115 849	1
		1998..	8 565	469 346	364 007	105 339	7
		1997..	8 482	456 266	357 905	98 361	X
325314	Fertilizer (mixing only) mfg	2001..	9 286	413 073	350 011	63 062	6
		2000..	9 275	410 722	344 877	65 845	5
		1999..	8 996	352 224	289 584	62 641	5
		1998..	9 371	307 445	252 637	54 808	1
		1997..	8 857	289 589	236 940	52 649	X
32532	Pesticide & other agricultural chemical mfg	2001..	12 401	802 346	614 872	187 475	6
		2000..	13 126	826 930	649 777	177 153	5
		1999..	13 702	840 533	666 165	174 368	4
		1998..	14 297	819 563	645 506	174 057	1
		1997..	13 973	810 978	634 992	175 986	X
325320	Pesticide & other agricultural chemical mfg	2001..	12 401	802 346	614 872	187 475	6
		2000..	13 126	826 930	649 777	177 153	5
		1999..	13 702	840 533	666 165	174 368	4
		1998..	14 297	819 563	645 506	174 057	1
		1997..	13 973	810 978	634 992	175 986	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
325	Chemical mfg—Con.						
3254	Pharmaceutical & medicine mfg	2001	251 289	16 600 915	13 395 639	3 205 276	2
		2000	241 173	15 765 361	12 779 339	2 986 022	2
		1999	228 866	15 145 828	12 334 924	2 810 904	1
		1998	212 655	13 815 119	11 203 070	2 612 048	1
		1997	203 337	12 592 956	10 111 751	2 481 205	X
32541	Pharmaceutical & medicine mfg	2001	251 289	16 600 915	13 395 639	3 205 276	2
		2000	241 173	15 765 361	12 779 339	2 986 022	2
		1999	228 866	15 145 828	12 334 924	2 810 904	1
		1998	212 655	13 815 119	11 203 070	2 612 048	1
		1997	203 337	12 592 956	10 111 751	2 481 205	X
325411	Medicinal & botanical mfg	2001	19 104	1 212 845	994 002	218 843	9
		2000	18 916	1 198 689	977 636	221 053	8
		1999	21 351	1 404 183	1 146 762	257 421	8
		1998	30 023	2 127 927	1 728 518	399 409	1
		1997	27 764	1 881 055	1 530 029	351 026	X
325412	Pharmaceutical preparation mfg	2001	167 245	10 724 600	8 699 583	2 025 018	3
		2000	159 304	10 218 313	8 322 889	1 895 424	3
		1999	145 697	9 637 993	7 878 039	1 759 954	1
		1998	117 707	7 505 552	6 085 472	1 420 081	1
		1997	114 119	6 888 097	5 522 283	1 365 814	X
325413	In-vitro diagnostic substance mfg	2001	40 960	3 169 615	2 494 923	674 692	1
		2000	40 162	2 973 532	2 364 696	608 837	1
		1999	40 633	2 910 644	2 352 133	558 510	1
		1998	40 790	2 829 300	2 292 512	536 789	2
		1997	38 485	2 557 328	2 051 030	506 298	X
325414	Biological product (except diagnostic) mfg	2001	23 981	1 493 855	1 207 132	286 723	4
		2000	22 790	1 374 827	1 114 119	260 708	4
		1999	21 185	1 193 009	957 990	235 019	4
		1998	24 134	1 352 340	1 096 569	255 770	1
		1997	22 969	1 266 476	1 008 409	258 067	X
3255	Paint, coating, & adhesive mfg	2001	73 225	3 897 269	3 159 993	737 276	2
		2000	75 767	3 949 886	3 199 852	750 033	3
		1999	73 671	3 814 008	3 071 460	742 548	2
		1998	75 911	3 710 851	2 954 535	756 316	1
		1997	74 464	3 649 657	2 903 042	746 615	X
32551	Paint & coating mfg	2001	51 084	2 667 551	2 166 657	500 894	3
		2000	52 981	2 721 262	2 219 816	501 446	3
		1999	51 114	2 642 690	2 139 169	503 521	2
		1998	53 876	2 622 845	2 099 770	523 075	2
		1997	52 772	2 595 113	2 071 651	523 462	X
325510	Paint & coating mfg	2001	51 084	2 667 551	2 166 657	500 894	3
		2000	52 981	2 721 262	2 219 816	501 446	3
		1999	51 114	2 642 690	2 139 169	503 521	2
		1998	53 876	2 622 845	2 099 770	523 075	2
		1997	52 772	2 595 113	2 071 651	523 462	X
32552	Adhesive mfg	2001	22 141	1 229 718	993 336	236 382	3
		2000	22 786	1 228 624	980 036	248 587	6
		1999	22 556	1 171 319	932 291	239 027	7
		1998	22 035	1 088 006	854 765	233 241	1
		1997	21 692	1 054 544	831 391	223 153	X
325520	Adhesive mfg	2001	22 141	1 229 718	993 336	236 382	3
		2000	22 786	1 228 624	980 036	248 587	6
		1999	22 556	1 171 319	932 291	239 027	7
		1998	22 035	1 088 006	854 765	233 241	1
		1997	21 692	1 054 544	831 391	223 153	X
3256	Soap, cleaning compound, & toilet preparation mfg	2001	120 246	5 961 913	4 708 204	1 253 710	3
		2000	119 425	5 745 085	4 536 544	1 208 540	2
		1999	118 677	5 537 850	4 405 558	1 132 292	1
		1998	130 672	5 979 033	4 742 716	1 236 317	1
		1997	126 446	5 735 489	4 567 517	1 167 972	X
32561	Soap & cleaning compound mfg	2001	52 646	2 709 268	2 151 690	557 578	2
		2000	53 519	2 747 970	2 179 450	568 520	2
		1999	54 784	2 746 582	2 186 716	559 866	2
		1998	63 852	3 136 352	2 495 332	641 020	2
		1997	62 479	3 080 208	2 454 050	626 158	X
325611	Soap & other detergent mfg	2001	23 050	1 193 742	936 311	257 430	3
		2000	24 084	1 254 366	983 185	271 181	2
		1999	24 069	1 263 212	989 838	273 374	2
		1998	30 771	1 603 081	1 265 897	337 185	4
		1997	31 052	1 603 152	1 268 061	335 091	X
325612	Polish & other sanitation good mfg	2001	20 838	978 696	780 721	197 975	4
		2000	20 757	950 481	753 289	197 191	3
		1999	21 093	912 230	732 577	179 653	3
		1998	23 633	932 030	750 814	181 216	2
		1997	21 985	896 799	724 411	172 388	X
325613	Surface active agent mfg	2001	8 758	536 831	434 658	102 173	5
		2000	8 679	543 124	442 975	100 149	4
		1999	9 622	571 140	464 301	106 839	5
		1998	9 448	601 241	478 621	122 619	1
		1997	9 442	580 257	461 578	118 679	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
325	Chemical mfg—Con.						
3256	Soap, cleaning compound, & toilet preparation mfg—Con.						
32562	Toilet preparation mfg	2001..	67 600	3 252 645	2 556 514	696 132	4
		2000..	65 906	2 997 115	2 357 095	640 020	3
		1999..	63 893	2 791 268	2 218 842	572 425	2
		1998..	66 820	2 842 681	2 247 384	595 297	2
		1997..	63 967	2 655 281	2 113 467	541 814	X
325620	Toilet preparation mfg	2001..	67 600	3 252 645	2 556 514	696 132	4
		2000..	65 906	2 997 115	2 357 095	640 020	3
		1999..	63 893	2 791 268	2 218 842	572 425	2
		1998..	66 820	2 842 681	2 247 384	595 297	2
		1997..	63 967	2 655 281	2 113 467	541 814	X
3259	Other chemical product mfg	2001..	115 479	6 405 993	5 173 095	1 232 898	1
		2000..	120 843	6 574 739	5 298 433	1 276 307	1
		1999..	121 832	6 279 338	5 079 722	1 199 616	1
		1998..	122 165	6 391 265	5 115 253	1 276 013	1
		1997..	124 818	6 308 103	5 048 571	1 259 532	X
32591	Printing ink mfg	2001..	13 377	723 994	588 504	135 490	3
		2000..	13 088	697 976	566 511	131 464	3
		1999..	13 904	725 484	590 734	134 750	2
		1998..	13 429	673 518	542 350	131 168	4
		1997..	13 196	638 825	509 564	129 261	X
325910	Printing ink mfg	2001..	13 377	723 994	588 504	135 490	3
		2000..	13 088	697 976	566 511	131 464	3
		1999..	13 904	725 484	590 734	134 750	2
		1998..	13 429	673 518	542 350	131 168	4
		1997..	13 196	638 825	509 564	129 261	X
32592	Explosives mfg	2001..	6 473	330 983	252 708	78 275	5
		2000..	7 957	375 273	301 832	73 440	4
		1999..	8 680	385 885	301 334	84 551	3
		1998..	8 410	383 547	296 903	86 643	1
		1997..	8 972	407 441	312 301	95 140	X
325920	Explosives mfg	2001..	6 473	330 983	252 708	78 275	5
		2000..	7 957	375 273	301 832	73 440	4
		1999..	8 680	385 885	301 334	84 551	3
		1998..	8 410	383 547	296 903	86 643	1
		1997..	8 972	407 441	312 301	95 140	X
32599	All other chemical product & preparation mfg	2001..	95 628	5 351 016	4 331 883	1 019 133	1
		2000..	99 797	5 501 491	4 430 089	1 071 402	1
		1999..	99 248	5 167 969	4 187 655	980 315	1
		1998..	100 326	5 334 200	4 275 999	1 058 201	1
		1997..	102 650	5 261 837	4 226 706	1 035 131	X
325991	Custom compounding of purchased resin	2001..	25 844	1 269 297	1 017 963	251 333	3
		2000..	27 976	1 310 608	1 053 201	257 407	2
		1999..	26 960	1 238 461	990 222	248 239	2
		1998..	27 415	1 244 045	986 948	257 097	1
		1997..	27 664	1 221 881	969 961	251 920	X
325992	Photographic film, paper, plate, & chemical mfg	2001..	33 318	2 166 121	1 777 544	388 577	1
		2000..	34 381	2 207 746	1 783 615	424 132	1
		1999..	34 466	2 053 086	1 696 597	356 489	1
		1998..	35 751	2 215 794	1 788 536	427 258	1
		1997..	39 090	2 265 000	1 836 912	428 088	X
325998	All other miscellaneous chemical product & preparation mfg	2001..	36 466	1 915 598	1 536 376	379 223	2
		2000..	37 441	1 983 137	1 593 274	389 863	2
		1999..	37 822	1 876 422	1 500 835	375 587	2
		1998..	37 160	1 874 361	1 500 515	373 846	1
		1997..	35 896	1 774 956	1 419 833	355 123	X
326	Plastics & rubber products mfg	2001..	1 028 055	41 102 475	32 538 767	8 563 708	1
		2000..	1 080 295	42 402 656	33 872 084	8 530 572	1
		1999..	1 070 078	41 007 858	32 733 060	8 274 798	1
		1998..	1 040 446	39 057 484	31 027 376	8 030 108	1
		1997..	1 023 060	37 564 944	29 804 904	7 760 040	X
3261	Plastics product mfg	2001..	834 452	31 638 723	25 587 593	6 051 130	1
		2000..	871 755	32 506 958	26 401 341	6 105 617	1
		1999..	860 536	31 397 246	25 505 540	5 891 706	1
		1998..	835 558	29 840 272	24 096 922	5 743 350	1
		1997..	820 707	28 648 749	23 029 570	5 619 179	X
32611	Unsupported plastics film, sheet, & bag mfg	2001..	109 201	4 970 987	3 968 659	1 002 328	1
		2000..	112 674	4 968 891	3 993 829	975 063	1
		1999..	111 130	4 817 863	3 869 000	948 863	1
		1998..	109 821	4 624 430	3 698 205	926 225	1
		1997..	110 292	4 573 724	3 646 537	927 187	X
326111	Unsupported plastics bag mfg	2001..	39 772	1 587 820	1 287 000	300 820	2
		2000..	40 043	1 557 174	1 261 739	295 434	1
		1999..	41 189	1 558 506	1 269 848	288 658	1
		1998..	41 169	1 493 524	1 211 123	282 401	2
		1997..	40 671	1 443 018	1 168 260	274 758	X
326112	Unsupported plastics packaging film & sheet mfg	2001..	16 875	846 010	671 299	174 711	2
		2000..	17 327	822 998	656 742	166 256	3
		1999..	16 447	755 804	605 225	150 579	2
		1998..	15 288	708 776	567 022	141 754	3
		1997..	15 428	683 465	550 628	132 837	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
326	Plastics & rubber products mfg—Con.						
3261	Plastics product mfg—Con.						
32611	Unsupported plastics film, sheet, & bag mfg—Con.						
326113	Unsupported plastics film & sheet (except packaging) mfg	2001..	52 555	2 537 157	2 010 360	526 797	2
		2000..	55 304	2 588 720	2 075 347	513 373	2
		1999..	53 494	2 503 553	1 993 927	509 626	2
		1998..	53 364	2 422 130	1 920 060	502 070	1
		1997..	54 193	2 447 241	1 927 649	519 592	X
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	2001..	48 889	1 965 477	1 608 265	357 212	2
		2000..	50 895	2 025 994	1 656 211	369 784	2
		1999..	48 695	1 862 165	1 529 688	332 478	2
		1998..	47 864	1 844 919	1 490 807	354 112	2
		1997..	47 419	1 756 321	1 409 531	346 790	X
326121	Unsupported plastics profile shape mfg	2001..	26 999	1 142 932	931 081	211 851	3
		2000..	28 251	1 186 644	965 206	221 438	3
		1999..	27 053	1 068 736	878 771	189 965	3
		1998..	27 657	1 083 152	866 589	216 563	4
		1997..	27 449	1 068 172	857 876	210 296	X
326122	Plastics pipe & pipe fitting mfg	2001..	21 890	822 545	677 183	145 361	4
		2000..	22 644	839 350	691 005	148 345	3
		1999..	21 642	793 429	650 916	142 513	4
		1998..	20 207	761 768	624 218	137 550	2
		1997..	19 970	688 149	551 655	136 494	X
32613	Laminated plastics plate, sheet, & shape mfg	2001..	14 866	651 721	517 969	133 752	3
		2000..	15 378	678 510	542 364	136 146	3
		1999..	14 832	666 239	534 730	131 510	2
		1998..	15 689	679 861	542 124	137 737	3
		1997..	16 517	702 570	545 933	156 637	X
326130	Laminated plastics plate, sheet, & shape mfg	2001..	14 866	651 721	517 969	133 752	3
		2000..	15 378	678 510	542 364	136 146	3
		1999..	14 832	666 239	534 730	131 510	2
		1998..	15 689	679 861	542 124	137 737	3
		1997..	16 517	702 570	545 933	156 637	X
32614	Polystyrene foam product mfg	2001..	34 122	1 226 554	988 014	238 539	4
		2000..	34 065	1 218 067	988 819	229 248	3
		1999..	33 116	1 186 511	965 051	221 460	5
		1998..	30 564	1 030 434	837 401	193 033	2
		1997..	27 142	940 094	759 412	180 682	X
326140	Polystyrene foam product mfg	2001..	34 122	1 226 554	988 014	238 539	4
		2000..	34 065	1 218 067	988 819	229 248	3
		1999..	33 116	1 186 511	965 051	221 460	5
		1998..	30 564	1 030 434	837 401	193 033	2
		1997..	27 142	940 094	759 412	180 682	X
32615	Urethane & other foam product (except polystyrene) mfg	2001..	34 454	1 259 336	1 008 667	250 668	4
		2000..	37 142	1 354 222	1 084 783	269 439	4
		1999..	36 416	1 319 022	1 051 696	267 326	3
		1998..	35 985	1 292 775	1 027 980	264 795	2
		1997..	37 362	1 273 267	1 008 426	264 841	X
326150	Urethane & other foam product (except polystyrene) mfg	2001..	34 454	1 259 336	1 008 667	250 668	4
		2000..	37 142	1 354 222	1 084 783	269 439	4
		1999..	36 416	1 319 022	1 051 696	267 326	3
		1998..	35 985	1 292 775	1 027 980	264 795	2
		1997..	37 362	1 273 267	1 008 426	264 841	X
32616	Plastics bottle mfg	2001..	36 546	1 421 766	1 129 306	292 460	4
		2000..	37 287	1 412 169	1 132 707	279 463	2
		1999..	36 844	1 335 193	1 070 003	265 190	2
		1998..	35 160	1 279 003	1 016 353	262 650	1
		1997..	33 933	1 220 050	963 813	256 237	X
326160	Plastics bottle mfg	2001..	36 546	1 421 766	1 129 306	292 460	4
		2000..	37 287	1 412 169	1 132 707	279 463	2
		1999..	36 844	1 335 193	1 070 003	265 190	2
		1998..	35 160	1 279 003	1 016 353	262 650	1
		1997..	33 933	1 220 050	963 813	256 237	X
32619	Other plastics product mfg	2001..	556 374	20 142 882	16 366 712	3 776 170	1
		2000..	584 315	20 849 104	17 002 629	3 846 475	1
		1999..	579 503	20 210 253	16 485 373	3 724 880	1
		1998..	560 475	19 088 849	15 484 052	3 604 798	1
		1997..	548 042	18 182 723	14 695 918	3 486 805	X
326191	Plastics plumbing fixture mfg	2001..	22 678	696 259	577 078	119 180	4
		2000..	24 055	724 825	604 526	120 299	4
		1999..	23 090	723 965	601 321	122 644	3
		1998..	19 269	608 241	496 085	112 157	5
		1997..	19 254	559 026	452 514	106 512	X
326192	Resilient floor covering mfg	2001..	5 123	295 597	234 217	61 380	3
		2000..	5 344	298 769	235 172	63 597	2
		1999..	5 502	289 423	226 370	63 053	1
		1998..	6 484	341 545	277 255	64 289	1
		1997..	6 070	336 880	270 689	66 191	X
326199	All other plastics product mfg	2001..	528 573	19 151 027	15 555 417	3 595 610	1
		2000..	554 916	19 825 510	16 162 931	3 662 578	1
		1999..	550 910	19 196 865	15 657 681	3 539 184	1
		1998..	534 723	18 139 064	14 710 712	3 428 352	1
		1997..	522 718	17 286 817	13 972 715	3 314 102	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
326	Plastics & rubber products mfg—Con.						
3262	Rubber product mfg	2001	193 603	9 463 751	6 951 174	2 512 578	1
		2000	208 540	9 895 698	7 470 743	2 424 955	1
		1999	209 542	9 610 612	7 227 520	2 383 092	1
		1998	204 888	9 217 212	6 930 454	2 286 758	1
		1997	202 353	8 916 195	6 775 334	2 140 861	X
32621	Tire mfg	2001	71 171	4 394 104	3 048 315	1 345 789	1
		2000	74 104	4 476 880	3 227 998	1 248 881	1
		1999	71 693	4 261 768	3 068 592	1 193 175	1
		1998	73 577	4 189 965	3 028 618	1 161 347	1
		1997	72 189	3 996 662	2 962 564	1 034 098	X
326211	Tire mfg (except retreading)	2001	62 577	4 128 756	2 829 912	1 298 844	1
		2000	66 449	4 227 129	3 022 720	1 204 410	1
		1999	64 112	4 022 864	2 873 071	1 149 794	1
		1998	65 429	3 937 299	2 824 020	1 113 279	1
		1997	64 334	3 758 274	2 772 569	985 705	X
326212	Tire retreading	2001	8 593	265 348	218 403	46 944	6
		2000	7 655	249 750	205 279	44 472	4
		1999	7 580	238 903	195 522	43 382	4
		1998	8 148	252 666	204 598	48 068	3
		1997	7 855	238 388	189 995	48 393	X
32622	Rubber & plastics hoses & belting mfg	2001	23 776	1 025 024	766 676	258 348	2
		2000	25 114	1 074 575	823 906	250 669	2
		1999	26 030	1 102 206	841 208	260 999	2
		1998	24 181	1 025 673	775 834	249 840	3
		1997	24 182	1 011 301	749 220	262 081	X
326220	Rubber & plastics hoses & belting mfg	2001	23 776	1 025 024	766 676	258 348	2
		2000	25 114	1 074 575	823 906	250 669	2
		1999	26 030	1 102 206	841 208	260 999	2
		1998	24 181	1 025 673	775 834	249 840	3
		1997	24 182	1 011 301	749 220	262 081	X
32629	Other rubber product mfg	2001	98 656	4 044 624	3 136 183	908 441	2
		2000	109 322	4 344 244	3 418 839	925 405	2
		1999	111 819	4 246 638	3 317 720	928 918	2
		1998	107 130	4 001 574	3 126 003	875 572	1
		1997	105 982	3 908 232	3 063 550	844 682	X
326291	Rubber product mfg for mechanical use	2001	54 020	2 231 013	1 704 984	526 029	3
		2000	60 391	2 419 702	1 888 157	531 544	2
		1999	60 323	2 317 255	1 778 214	539 041	2
		1998	56 741	2 149 935	1 658 528	491 407	2
		1997	55 397	2 061 185	1 593 564	467 621	X
326299	All other rubber product mfg	2001	44 636	1 813 611	1 431 199	382 412	4
		2000	48 930	1 924 542	1 530 681	393 860	4
		1999	51 496	1 929 382	1 539 505	389 877	3
		1998	50 390	1 851 639	1 467 474	384 165	1
		1997	50 585	1 847 047	1 469 986	377 061	X
327	Nonmetallic mineral product mfg	2001	507 308	23 069 925	18 146 912	4 923 013	1
		2000	521 747	23 290 601	18 482 461	4 808 140	1
		1999	523 019	22 624 544	17 914 663	4 709 881	1
		1998	507 938	21 427 438	16 865 696	4 561 742	1
		1997	501 471	20 546 013	16 172 049	4 373 964	X
3271	Clay product & refractory mfg	2001	69 611	2 759 567	2 179 872	579 695	2
		2000	74 604	2 923 795	2 331 759	592 036	2
		1999	76 658	2 908 086	2 304 587	603 499	1
		1998	77 657	2 824 513	2 229 006	595 507	1
		1997	80 441	2 833 434	2 235 382	598 052	X
32711	Pottery, ceramics, & plumbing fixture mfg	2001	35 026	1 351 141	1 054 778	296 363	4
		2000	37 390	1 408 849	1 121 496	287 353	4
		1999	39 070	1 419 922	1 119 162	300 760	2
		1998	41 155	1 428 364	1 125 359	303 005	1
		1997	42 557	1 415 569	1 114 784	300 785	X
327111	Vitreous china plumbing fixture & bathroom accessories mfg	2001	8 532	351 644	271 360	80 284	6
		2000	8 601	368 656	290 532	78 123	6
		1999	8 979	375 004	290 673	84 332	5
		1998	9 604	399 683	306 131	93 552	1
		1997	9 222	370 041	284 871	85 170	X
327112	Vitreous china, fine earthenware, & other pottery product mfg	2001	17 109	593 408	465 045	128 363	7
		2000	18 696	612 503	489 471	123 032	7
		1999	20 479	633 960	503 885	130 075	3
		1998	22 103	643 201	510 009	133 192	1
		1997	23 253	639 411	504 659	134 752	X
327113	Porcelain electrical supply mfg	2001	9 384	406 089	318 373	87 717	3
		2000	10 093	427 690	341 493	86 197	4
		1999	9 612	410 957	324 604	86 353	3
		1998	9 448	385 480	309 219	76 261	4
		1997	10 082	406 117	325 254	80 863	X
32712	Clay building material & refractories mfg	2001	34 585	1 408 426	1 125 095	283 332	3
		2000	37 215	1 514 945	1 210 263	304 682	2
		1999	37 589	1 488 164	1 185 426	302 739	2
		1998	36 502	1 396 149	1 103 647	292 502	1
		1997	37 884	1 417 865	1 120 598	297 267	X
327121	Brick & structural clay tile mfg	2001	13 546	508 681	417 151	91 530	4
		2000	14 382	522 555	429 741	92 813	3
		1999	14 170	510 186	415 292	94 894	3
		1998	13 182	448 788	363 358	85 430	4
		1997	13 694	445 951	360 947	85 004	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
327	Nonmetallic mineral product mfg—Con.						
3271	Clay product & refractory mfg—Con.						
32712	Clay building material & refractories mfg—Con.						
327122	Ceramic wall & floor tile mfg	2001..	8 389	282 909	231 249	51 660	6
		2000..	9 163	304 344	251 681	52 662	7
		1999..	8 705	278 712	229 154	49 558	6
		1998..	8 337	251 909	203 764	48 145	3
		1997..	8 755	267 862	214 860	53 002	X
327123	Other structural clay product mfg	2001..	1 623	59 175	46 658	12 518	6
		2000..	1 473	54 656	43 148	11 508	4
		1999..	1 452	51 469	41 457	10 012	5
		1998..	1 490	50 117	38 270	11 847	1
		1997..	1 332	45 938	35 163	10 775	X
327124	Clay refractory mfg	2001..	3 801	181 780	141 146	40 634	9
		2000..	4 552	219 961	170 919	49 041	7
		1999..	4 916	231 722	182 557	49 165	7
		1998..	5 617	259 054	201 829	57 225	1
		1997..	5 781	254 207	199 274	54 933	X
327125	Nonclay refractory mfg	2001..	7 227	375 881	288 891	86 990	6
		2000..	7 644	413 431	314 773	98 658	5
		1999..	8 345	416 075	316 966	99 109	3
		1998..	7 876	386 282	296 426	89 856	1
		1997..	8 322	403 907	310 354	93 553	X
3272	Glass & glass product mfg	2001..	122 504	6 029 645	4 542 118	1 487 528	1
		2000..	126 860	6 203 129	4 762 289	1 440 840	1
		1999..	127 321	6 022 002	4 645 579	1 376 423	1
		1998..	127 206	5 773 157	4 442 821	1 330 337	1
		1997..	128 565	5 744 758	4 428 351	1 316 407	X
32721	Glass & glass product mfg	2001..	122 504	6 029 645	4 542 118	1 487 528	1
		2000..	126 860	6 203 129	4 762 289	1 440 840	1
		1999..	127 321	6 022 002	4 645 579	1 376 423	1
		1998..	127 206	5 773 157	4 442 821	1 330 337	1
		1997..	128 565	5 744 758	4 428 351	1 316 407	X
327211	Flat glass mfg	2001..	11 044	703 560	530 805	172 754	1
		2000..	11 652	705 460	541 291	164 168	1
		1999..	11 387	716 192	568 879	147 313	1
		1998..	11 500	686 639	540 673	145 966	1
		1997..	11 579	696 394	535 454	160 940	X
327212	Other pressed & blown glass & glassware mfg	2001..	33 379	1 656 179	1 209 315	446 864	1
		2000..	34 799	1 787 207	1 331 902	455 305	1
		1999..	34 301	1 657 726	1 227 151	430 575	1
		1998..	35 089	1 638 383	1 218 756	419 627	1
		1997..	35 383	1 628 734	1 228 719	400 015	X
327213	Glass container mfg	2001..	15 580	999 896	716 785	283 111	2
		2000..	16 846	1 060 386	773 256	287 130	1
		1999..	19 220	1 111 572	818 898	292 673	1
		1998..	19 935	1 106 792	822 235	284 557	1
		1997..	21 184	1 129 899	840 703	289 196	X
327215	Glass product mfg made of purchased glass	2001..	62 501	2 670 011	2 085 212	584 799	3
		2000..	63 564	2 650 076	2 115 840	534 237	2
		1999..	62 414	2 536 513	2 030 651	505 862	2
		1998..	60 682	2 341 343	1 861 156	480 186	2
		1997..	60 419	2 289 731	1 823 475	466 256	X
3273	Cement & concrete product mfg	2001..	222 337	9 859 471	7 926 970	1 932 501	1
		2000..	220 767	9 605 913	7 747 191	1 858 722	1
		1999..	217 515	9 215 264	7 408 374	1 806 890	1
		1998..	201 890	8 425 338	6 713 871	1 711 467	1
		1997..	194 970	7 799 989	6 190 454	1 609 535	X
32731	Cement mfg	2001..	17 220	1 119 086	860 475	258 610	1
		2000..	17 175	1 071 579	829 473	242 106	1
		1999..	17 323	1 044 589	815 732	228 857	1
		1998..	17 227	984 866	756 333	228 533	1
		1997..	16 925	952 940	734 226	218 714	X
327310	Cement mfg	2001..	17 220	1 119 086	860 475	258 610	1
		2000..	17 175	1 071 579	829 473	242 106	1
		1999..	17 323	1 044 589	815 732	228 857	1
		1998..	17 227	984 866	756 333	228 533	1
		1997..	16 925	952 940	734 226	218 714	X
32732	Ready-mix concrete mfg	2001..	102 790	4 582 245	3 709 915	872 329	2
		2000..	101 103	4 462 154	3 622 064	840 090	2
		1999..	102 044	4 366 786	3 529 981	836 805	1
		1998..	94 401	3 969 631	3 177 079	792 552	1
		1997..	93 136	3 715 663	2 965 346	750 317	X
327320	Ready-mix concrete mfg	2001..	102 790	4 582 245	3 709 915	872 329	2
		2000..	101 103	4 462 154	3 622 064	840 090	2
		1999..	102 044	4 366 786	3 529 981	836 805	1
		1998..	94 401	3 969 631	3 177 079	792 552	1
		1997..	93 136	3 715 663	2 965 346	750 317	X
32733	Concrete pipe, brick, & block mfg	2001..	36 028	1 563 028	1 253 059	309 969	4
		2000..	37 269	1 589 738	1 282 004	307 733	5
		1999..	37 166	1 555 029	1 247 146	307 883	4
		1998..	34 108	1 391 856	1 108 273	283 583	2
		1997..	32 164	1 250 431	990 225	260 206	X
327331	Concrete block & brick mfg	2001..	21 616	950 644	761 831	188 813	5
		2000..	22 555	974 965	785 470	189 495	7
		1999..	22 653	937 484	749 140	188 343	6
		1998..	19 602	806 186	636 918	169 268	3
		1997..	18 079	712 712	559 417	153 295	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
327	Nonmetallic mineral product mfg—Con.						
3273	Cement & concrete product mfg—Con.						
32733	Concrete pipe, brick, & block mfg—Con.						
327332	Concrete pipe mfg	2001..	14 412	612 384	491 228	121 156	4
		2000..	14 714	614 772	496 534	118 239	5
		1999..	14 512	617 545	498 006	119 540	5
		1998..	14 506	585 670	471 355	114 315	3
		1997..	14 085	537 719	430 808	106 911	X
32739	Other concrete product mfg	2001..	66 299	2 595 113	2 103 521	491 592	3
		2000..	65 219	2 482 442	2 013 649	468 792	3
		1999..	60 982	2 248 860	1 815 515	433 345	2
		1998..	56 155	2 078 984	1 672 186	406 798	1
		1997..	52 745	1 880 955	1 500 657	380 298	X
327390	Other concrete product mfg	2001..	66 299	2 595 113	2 103 521	491 592	3
		2000..	65 219	2 482 442	2 013 649	468 792	3
		1999..	60 982	2 248 860	1 815 515	433 345	2
		1998..	56 155	2 078 984	1 672 186	406 798	1
		1997..	52 745	1 880 955	1 500 657	380 298	X
3274	Lime & gypsum product mfg	2001..	18 645	927 094	739 206	187 888	2
		2000..	20 347	965 883	782 459	183 424	2
		1999..	20 837	977 879	789 492	188 387	1
		1998..	20 562	966 391	776 129	190 263	5
		1997..	18 856	852 416	691 349	161 067	X
32741	Lime mfg	2001..	5 096	268 545	208 860	59 685	4
		2000..	5 398	270 400	211 974	58 426	3
		1999..	5 674	277 673	219 882	57 791	3
		1998..	5 748	282 577	222 163	60 414	7
		1997..	5 313	246 578	194 786	51 792	X
327410	Lime mfg	2001..	5 096	268 545	208 860	59 685	4
		2000..	5 398	270 400	211 974	58 426	3
		1999..	5 674	277 673	219 882	57 791	3
		1998..	5 748	282 577	222 163	60 414	7
		1997..	5 313	246 578	194 786	51 792	X
32742	Gypsum product mfg	2001..	13 549	658 549	530 346	128 203	3
		2000..	14 949	695 483	570 485	124 998	2
		1999..	15 163	700 206	569 610	130 596	2
		1998..	14 813	683 814	553 966	129 849	6
		1997..	13 543	605 838	496 563	109 275	X
327420	Gypsum product mfg	2001..	13 549	658 549	530 346	128 203	3
		2000..	14 949	695 483	570 485	124 998	2
		1999..	15 163	700 206	569 610	130 596	2
		1998..	14 813	683 814	553 966	129 849	6
		1997..	13 543	605 838	496 563	109 275	X
3279	Other nonmetallic mineral product mfg	2001..	74 211	3 494 148	2 758 746	735 402	2
		2000..	79 169	3 591 881	2 858 763	733 118	2
		1999..	80 686	3 501 313	2 766 631	734 682	1
		1998..	80 623	3 438 038	2 703 870	734 168	1
		1997..	78 639	3 315 416	2 626 513	688 903	X
32791	Abrasive product mfg	2001..	17 013	846 767	662 881	183 886	4
		2000..	20 229	938 161	757 402	180 759	4
		1999..	20 785	932 757	744 347	188 411	3
		1998..	21 551	969 862	756 109	213 754	2
		1997..	22 571	992 493	782 054	210 439	X
327910	Abrasive product mfg	2001..	17 013	846 767	662 881	183 886	4
		2000..	20 229	938 161	757 402	180 759	4
		1999..	20 785	932 757	744 347	188 411	3
		1998..	21 551	969 862	756 109	213 754	2
		1997..	22 571	992 493	782 054	210 439	X
32799	All other nonmetallic mineral product mfg	2001..	57 198	2 647 381	2 095 866	551 516	2
		2000..	58 940	2 653 720	2 101 361	552 359	2
		1999..	59 901	2 568 556	2 022 284	546 272	2
		1998..	59 072	2 468 176	1 947 762	520 414	1
		1997..	56 068	2 322 923	1 844 459	478 464	X
327991	Cut stone & stone product mfg	2001..	16 341	643 219	513 881	129 338	4
		2000..	15 890	594 510	474 741	119 769	4
		1999..	15 756	533 531	423 528	110 003	6
		1998..	14 332	466 381	369 175	97 207	5
		1997..	13 109	439 192	350 549	88 643	X
327992	Ground or treated mineral & earth mfg	2001..	9 509	450 665	349 086	101 579	3
		2000..	10 084	470 995	369 888	101 107	3
		1999..	10 130	475 564	370 657	104 907	3
		1998..	9 757	451 109	353 037	98 072	4
		1997..	10 115	462 947	360 995	101 952	X
327993	Mineral wool mfg	2001..	20 553	1 102 074	865 290	236 784	2
		2000..	20 983	1 114 852	872 132	242 720	3
		1999..	21 773	1 104 098	862 381	241 717	2
		1998..	22 498	1 094 118	862 871	231 247	2
		1997..	21 610	1 021 107	811 380	209 727	X
327999	All other miscellaneous nonmetallic mineral product mfg	2001..	10 795	451 424	367 608	83 816	6
		2000..	11 983	473 362	384 599	88 763	5
		1999..	12 242	455 363	365 718	89 645	3
		1998..	12 486	456 567	362 679	93 888	2
		1997..	11 234	399 677	321 535	78 142	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
331	Primary metal mfg	2001..	532 819	29 732 066	22 199 270	7 532 795	1
		2000..	577 841	31 968 299	24 155 087	7 813 212	1
		1999..	582 775	31 336 399	23 722 389	7 614 010	1
		1998..	602 292	32 024 864	24 146 138	7 878 726	1
		1997..	605 085	31 787 971	23 811 233	7 976 738	X
3311	Iron & steel mills & ferroalloy mfg	2001..	130 296	9 604 902	6 699 994	2 904 907	1
		2000..	143 688	10 578 740	7 600 224	2 978 516	1
		1999..	141 942	10 205 341	7 327 094	2 878 248	1
		1998..	148 392	10 678 683	7 661 084	3 017 599	1
		1997..	149 875	10 770 672	7 604 810	3 165 862	X
33111	Iron & steel mills & ferroalloy mfg	2001..	130 296	9 604 902	6 699 994	2 904 907	1
		2000..	143 688	10 578 740	7 600 224	2 978 516	1
		1999..	141 942	10 205 341	7 327 094	2 878 248	1
		1998..	148 392	10 678 683	7 661 084	3 017 599	1
		1997..	149 875	10 770 672	7 604 810	3 165 862	X
331111	Iron & steel mills	2001..	127 359	9 429 147	6 565 465	2 863 682	1
		2000..	140 580	10 397 065	7 461 982	2 935 083	1
		1999..	138 995	10 030 759	7 193 490	2 837 269	1
		1998..	144 723	10 466 844	7 501 782	2 965 062	1
		1997..	146 215	10 567 760	7 450 380	3 117 380	X
331112	Electrometallurgical ferroalloy product mfg	2001..	2 937	175 755	134 530	41 225	6
		2000..	3 108	181 675	138 242	43 433	7
		1999..	2 947	174 582	133 604	40 979	5
		1998..	3 669	211 839	159 302	52 537	1
		1997..	3 660	202 912	154 430	48 482	X
3312	Steel product mfg from purchased steel	2001..	59 047	2 980 316	2 270 020	710 296	2
		2000..	62 644	3 105 124	2 407 493	697 631	2
		1999..	61 722	2 980 060	2 309 651	670 409	2
		1998..	64 483	3 087 598	2 380 165	707 433	1
		1997..	64 200	3 003 421	2 306 920	696 501	X
33121	Iron & steel pipes & tubes mfg from purchased steel	2001..	25 176	1 255 317	978 547	276 769	6
		2000..	27 174	1 311 320	1 027 093	284 227	5
		1999..	26 246	1 232 229	967 367	264 862	6
		1998..	27 313	1 270 104	994 813	275 291	1
		1997..	26 864	1 222 053	956 735	265 318	X
331210	Iron & steel pipes & tubes mfg from purchased steel	2001..	25 176	1 255 317	978 547	276 769	6
		2000..	27 174	1 311 320	1 027 093	284 227	5
		1999..	26 246	1 232 229	967 367	264 862	6
		1998..	27 313	1 270 104	994 813	275 291	1
		1997..	26 864	1 222 053	956 735	265 318	X
33122	Rolling & drawing of purchased steel	2001..	33 871	1 724 999	1 291 472	433 527	1
		2000..	35 470	1 793 804	1 380 400	413 404	1
		1999..	35 476	1 747 832	1 342 284	405 547	1
		1998..	37 170	1 817 494	1 385 352	432 143	2
		1997..	37 336	1 781 368	1 350 185	431 183	X
331221	Cold-rolled steel shape mfg	2001..	11 643	732 169	521 223	210 946	2
		2000..	12 852	800 857	593 176	207 680	2
		1999..	12 000	750 155	553 052	197 103	2
		1998..	14 319	870 938	637 705	233 233	2
		1997..	14 106	861 626	630 082	231 544	X
331222	Steel wire drawing	2001..	22 228	992 830	770 249	222 581	2
		2000..	22 618	992 948	787 224	205 724	2
		1999..	23 476	997 677	789 232	208 445	2
		1998..	22 851	946 556	747 646	198 910	5
		1997..	23 230	919 742	720 103	199 639	X
3313	Alumina & aluminum production & processing	2001..	76 354	4 121 745	3 104 597	1 017 148	1
		2000..	81 833	4 454 116	3 304 055	1 150 061	1
		1999..	83 477	4 410 683	3 295 264	1 115 419	1
		1998..	85 462	4 483 742	3 335 937	1 147 806	1
		1997..	84 487	4 436 415	3 345 036	1 091 379	X
33131	Alumina & aluminum production & processing	2001..	76 354	4 121 745	3 104 597	1 017 148	1
		2000..	81 833	4 454 116	3 304 055	1 150 061	1
		1999..	83 477	4 410 683	3 295 264	1 115 419	1
		1998..	85 462	4 483 742	3 335 937	1 147 806	1
		1997..	84 487	4 436 415	3 345 036	1 091 379	X
331311	Alumina refining	2001..	2 983	214 103	156 862	57 241	1
		2000..	2 981	201 066	142 444	58 622	1
		1999..	2 863	190 637	132 912	57 725	1
		1998..	3 004	195 096	140 710	54 386	1
		1997..	3 035	205 266	150 696	54 570	X
331312	Primary aluminum production	2001..	12 796	804 718	588 155	216 563	1
		2000..	14 758	920 912	662 516	258 396	1
		1999..	16 168	949 984	687 678	262 306	1
		1998..	16 317	1 016 513	730 453	286 060	1
		1997..	15 763	969 268	707 402	261 866	X
331314	Secondary smelting & alloying of aluminum	2001..	7 308	334 136	258 967	75 169	3
		2000..	7 634	340 803	263 449	77 354	3
		1999..	7 380	326 030	252 856	73 174	3
		1998..	6 918	305 990	237 122	68 869	1
		1997..	6 614	290 561	226 469	64 092	X
331315	Aluminum sheet, plate, & foil mfg	2001..	20 232	1 344 659	979 373	365 286	2
		2000..	21 556	1 467 029	1 050 856	416 173	2
		1999..	22 332	1 458 547	1 072 817	385 730	2
		1998..	23 416	1 484 591	1 083 592	400 999	1
		1997..	24 709	1 568 200	1 175 506	392 694	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
331	Primary metal mfg—Con.						
3313	Alumina & aluminum production & processing—Con.						
33131	Alumina & aluminum production & processing—Con.						
331316	Aluminum extruded product mfg	2001	29 249	1 263 132	999 665	263 467	2
		2000	30 752	1 340 656	1 042 595	298 061	2
		1999	30 727	1 304 508	1 007 963	296 545	1
		1998	31 690	1 299 791	1 001 575	298 217	1
		1997	30 357	1 221 182	944 829	276 353	X
331319	Other aluminum rolling & drawing	2001	3 785	160 997	121 575	39 422	2
		2000	4 153	183 651	142 195	41 455	2
		1999	4 007	180 978	141 038	39 939	1
		1998	4 115	181 761	142 485	39 276	2
		1997	4 009	181 938	140 134	41 804	X
3314	Nonferrous metal (except aluminum) production & processing	2001	67 779	3 628 334	2 767 555	860 779	2
		2000	72 793	3 800 105	2 933 094	867 011	1
		1999	73 505	3 750 800	2 913 914	836 886	1
		1998	80 519	3 929 290	3 062 091	867 199	1
		1997	81 162	3 928 586	3 048 301	880 285	X
33141	Nonferrous metal (except aluminum) smelting & refining	2001	11 888	728 552	543 420	185 132	3
		2000	12 802	734 815	557 450	177 366	3
		1999	13 703	747 362	573 105	174 258	3
		1998	16 102	812 937	628 798	184 139	1
		1997	16 568	843 941	651 108	192 833	X
331411	Primary smelting & refining of copper	2001	3 404	217 486	143 051	74 435	1
		2000	3 605	227 569	156 482	71 087	1
		1999	4 744	263 752	193 262	70 490	1
		1998	6 539	326 163	249 314	76 849	1
		1997	7 360	372 254	287 382	84 872	X
331419	Other nonferrous metal primary smelting & refining	2001	8 484	511 066	400 369	110 696	5
		2000	9 197	507 247	400 968	106 278	5
		1999	8 959	483 610	379 842	103 768	4
		1998	9 563	486 774	379 484	107 290	2
		1997	9 208	471 687	363 726	107 961	X
33142	Copper rolling, drawing, extruding, & alloying	2001	23 969	1 208 399	919 689	288 711	2
		2000	25 824	1 280 750	991 706	289 044	2
		1999	25 356	1 235 053	963 053	271 999	1
		1998	27 874	1 310 650	1 020 359	290 291	1
		1997	27 583	1 279 568	996 132	283 436	X
331421	Copper rolling, drawing, & extruding	2001	18 159	934 679	707 074	227 605	2
		2000	19 810	1 003 025	771 658	231 367	1
		1999	19 796	989 317	768 986	220 331	1
		1998	21 112	1 029 172	798 339	230 834	1
		1997	21 012	1 006 098	780 787	225 311	X
331422	Copper wire (except mechanical) drawing	2001	3 952	171 951	133 305	38 645	8
		2000	3 953	170 811	135 454	35 356	8
		1999	3 493	138 932	110 208	28 724	7
		1998	4 476	167 294	132 770	34 524	4
		1997	4 238	157 353	124 240	33 113	X
331423	Secondary smelting, refining, & alloying of copper	2001	1 859	101 769	79 309	22 460	5
		2000	2 061	106 914	84 593	22 321	5
		1999	2 066	106 803	83 859	22 944	3
		1998	2 285	114 184	89 251	24 933	4
		1997	2 333	116 117	91 105	25 012	X
33149	Other nonferrous metal rolling, drawing, extruding, & alloying	2001	31 922	1 691 382	1 304 446	386 936	3
		2000	34 167	1 784 539	1 383 939	400 601	3
		1999	34 446	1 768 385	1 377 756	390 629	2
		1998	36 544	1 805 703	1 412 933	392 769	1
		1997	37 011	1 805 077	1 401 061	404 016	X
331491	Other nonferrous metal rolling, drawing, & extruding	2001	22 319	1 208 918	922 970	285 948	2
		2000	23 828	1 266 044	972 723	293 321	1
		1999	24 432	1 260 832	976 845	283 987	1
		1998	25 581	1 277 118	997 651	279 467	1
		1997	25 484	1 266 000	977 877	288 123	X
331492	Other nonferrous metal secondary smelting, refining, & alloying	2001	9 603	482 464	381 476	100 989	10
		2000	10 338	518 496	411 216	107 280	9
		1999	10 013	507 553	400 912	106 641	6
		1998	10 963	528 584	415 282	113 302	1
		1997	11 527	539 077	423 184	115 893	X
3315	Foundries	2001	199 343	9 396 770	7 357 104	2 039 665	1
		2000	216 883	10 030 215	7 910 221	2 119 993	1
		1999	222 130	9 989 515	7 876 467	2 113 048	1
		1998	223 436	9 845 551	7 706 861	2 138 690	1
		1997	225 361	9 648 877	7 506 166	2 142 711	X
33151	Ferrous metal foundries	2001	115 459	5 865 949	4 569 037	1 296 912	1
		2000	124 895	6 284 527	4 926 928	1 357 599	1
		1999	129 184	6 261 060	4 890 198	1 370 862	1
		1998	127 298	6 032 072	4 699 658	1 332 414	2
		1997	131 574	6 004 091	4 630 562	1 373 529	X
331511	Iron foundries	2001	73 680	4 022 584	3 115 479	907 104	2
		2000	80 233	4 328 653	3 388 118	940 535	2
		1999	82 711	4 310 284	3 348 621	961 663	1
		1998	80 456	4 119 774	3 185 121	934 653	3
		1997	85 429	4 189 932	3 211 357	978 575	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
331	Primary metal mfg—Con.						
3315	Foundries—Con.						
33151	Ferrous metal foundries—Con.						
331512	Steel investment foundries	2001..	21 950	934 999	727 690	207 309	1
		2000..	22 318	957 859	741 660	216 199	1
		1999..	22 521	932 767	723 523	209 245	1
		1998..	22 282	905 389	707 848	197 541	2
		1997..	22 673	867 613	669 452	198 161	X
331513	Steel foundries (except investment)	2001..	19 828	908 366	725 868	182 498	4
		2000..	22 344	998 014	797 149	200 865	3
		1999..	23 952	1 018 009	818 054	199 955	3
		1998..	24 560	1 006 909	806 689	200 220	1
		1997..	23 472	946 546	749 753	196 793	X
33152	Nonferrous metal foundries	2001..	83 883	3 530 821	2 788 068	742 753	3
		2000..	91 989	3 745 688	2 983 293	762 394	2
		1999..	92 946	3 728 455	2 986 269	742 186	2
		1998..	96 138	3 813 479	3 007 203	806 276	1
		1997..	93 787	3 644 786	2 875 604	769 182	X
331521	Aluminum die-casting foundries	2001..	25 046	1 130 782	893 872	236 910	5
		2000..	27 726	1 163 954	917 334	246 620	3
		1999..	27 534	1 172 202	936 373	235 829	3
		1998..	28 067	1 190 557	931 554	259 003	3
		1997..	27 516	1 143 964	899 544	244 420	X
331522	Nonferrous (except aluminum) die-casting foundries	2001..	15 213	579 645	471 685	107 960	5
		2000..	15 981	613 375	501 250	112 125	4
		1999..	16 669	610 469	501 675	108 794	3
		1998..	17 477	631 153	509 048	122 105	3
		1997..	16 840	601 025	488 196	112 829	X
331524	Aluminum foundries (except die-casting)	2001..	30 925	1 294 931	1 011 625	283 307	4
		2000..	34 726	1 414 832	1 129 387	285 445	3
		1999..	34 839	1 385 503	1 108 696	276 807	3
		1998..	35 234	1 335 994	1 056 853	279 141	1
		1997..	33 768	1 274 587	1 006 954	267 633	X
331525	Copper foundries (except die-casting)	2001..	8 178	303 014	239 019	63 995	6
		2000..	9 138	336 962	267 287	69 675	4
		1999..	9 341	341 990	269 530	72 460	3
		1998..	9 353	351 666	271 763	79 904	1
		1997..	8 868	337 936	258 151	79 785	X
331528	Other nonferrous foundries (except die-casting)	2001..	4 521	222 447	171 867	50 581	5
		2000..	4 418	216 564	168 035	48 529	5
		1999..	4 564	218 290	169 994	48 296	4
		1998..	6 008	304 107	237 985	66 122	5
		1997..	6 795	287 274	222 759	64 515	X
332	Fabricated metal product mfg	2001..	1 724 693	73 143 288	59 569 462	13 573 826	1
		2000..	1 814 906	76 287 504	62 421 772	13 865 732	1
		1999..	1 795 909	73 773 992	60 055 114	13 718 877	1
		1998..	1 811 231	73 374 951	59 343 525	14 031 427	1
		1997..	1 763 772	70 092 703	56 631 583	13 461 120	X
3321	Forging & stamping	2001..	157 863	6 891 251	5 592 104	1 299 148	2
		2000..	166 400	7 327 961	5 992 500	1 335 460	1
		1999..	163 122	7 069 854	5 721 192	1 348 661	1
		1998..	163 571	7 146 109	5 737 171	1 408 938	1
		1997..	158 944	6 804 088	5 461 638	1 342 450	X
33211	Forging & stamping	2001..	157 863	6 891 251	5 592 104	1 299 148	2
		2000..	166 400	7 327 961	5 992 500	1 335 460	1
		1999..	163 122	7 069 854	5 721 192	1 348 661	1
		1998..	163 571	7 146 109	5 737 171	1 408 938	1
		1997..	158 944	6 804 088	5 461 638	1 342 450	X
332111	Iron & steel forging	2001..	25 375	1 293 916	1 011 951	281 965	3
		2000..	26 046	1 311 386	1 031 933	279 452	2
		1999..	25 929	1 296 074	1 017 222	278 852	1
		1998..	28 404	1 442 156	1 133 210	308 946	1
		1997..	26 156	1 315 575	1 020 473	295 102	X
332112	Nonferrous forging	2001..	10 417	510 306	411 113	99 193	4
		2000..	9 942	505 447	402 535	102 912	4
		1999..	9 558	490 128	377 637	112 491	3
		1998..	9 258	466 316	353 955	112 361	1
		1997..	8 991	466 903	363 301	103 602	X
332114	Custom roll forming	2001..	15 561	649 578	532 460	117 118	4
		2000..	16 240	680 460	557 869	122 590	3
		1999..	15 978	664 000	541 722	122 278	2
		1998..	15 538	678 371	542 067	136 304	7
		1997..	15 852	643 609	522 950	120 659	X
332115	Crown & closure mfg	2001..	4 526	199 683	158 874	40 809	2
		2000..	4 294	205 960	166 007	39 953	1
		1999..	4 107	197 723	158 597	39 127	1
		1998..	3 757	201 664	155 817	45 847	8
		1997..	4 576	211 797	161 511	50 286	X
332116	Metal stamping	2001..	91 183	3 721 653	3 079 598	642 055	2
		2000..	98 575	4 090 533	3 413 207	677 327	2
		1999..	96 713	3 923 146	3 231 147	691 998	1
		1998..	95 402	3 872 690	3 159 060	713 630	1
		1997..	92 511	3 711 681	3 022 396	689 285	X
332117	Powder metallurgy part mfg	2001..	10 802	516 115	398 108	118 007	8
		2000..	11 302	534 175	420 950	113 225	12
		1999..	10 837	498 783	394 867	103 916	7
		1998..	11 212	484 912	393 062	91 849	1
		1997..	10 858	454 523	371 007	83 516	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
332	Fabricated metal product mfg—Con.						
3322	Cutlery & handtool mfg	2001..	69 741	3 115 915	2 440 920	674 995	2
		2000..	77 403	3 342 228	2 649 110	693 118	1
		1999..	78 780	3 295 470	2 608 331	687 139	1
		1998..	77 814	3 272 316	2 575 141	697 174	2
		1997..	77 337	3 170 174	2 484 032	686 142	X
33221	Cutlery & handtool mfg	2001..	69 741	3 115 915	2 440 920	674 995	2
		2000..	77 403	3 342 228	2 649 110	693 118	1
		1999..	78 780	3 295 470	2 608 331	687 139	1
		1998..	77 814	3 272 316	2 575 141	697 174	2
		1997..	77 337	3 170 174	2 484 032	686 142	X
332211	Cutlery & flatware (except precious) mfg	2001..	8 791	422 416	317 499	104 916	3
		2000..	9 490	441 052	332 873	108 178	2
		1999..	9 760	449 667	341 475	108 192	2
		1998..	10 233	451 091	336 432	114 659	1
		1997..	10 301	442 845	331 471	111 374	X
332212	Hand & edge tool mfg	2001..	47 219	2 062 316	1 632 462	429 854	3
		2000..	52 204	2 211 150	1 774 205	436 945	2
		1999..	53 188	2 173 836	1 739 315	434 521	2
		1998..	51 362	2 149 352	1 709 131	440 222	2
		1997..	50 598	2 069 767	1 639 098	430 669	X
332213	Saw blade & handsaw mfg	2001..	8 873	397 762	315 972	81 790	5
		2000..	9 724	430 900	343 403	87 497	4
		1999..	9 344	404 130	320 927	83 203	3
		1998..	9 168	391 975	312 386	79 590	19
		1997..	9 127	383 421	300 001	83 420	X
332214	Kitchen utensil, pot, & pan mfg	2001..	4 857	233 421	174 987	58 434	4
		2000..	5 986	259 127	198 629	60 497	2
		1999..	6 488	267 838	206 614	61 223	2
		1998..	7 050	279 897	217 193	62 703	5
		1997..	7 311	274 141	213 462	60 679	X
3323	Architectural & structural metals mfg	2001..	403 507	16 172 725	13 314 192	2 858 533	1
		2000..	418 378	16 487 351	13 621 184	2 866 167	1
		1999..	411 100	15 770 038	12 933 311	2 836 727	1
		1998..	396 089	15 017 575	12 255 149	2 762 426	1
		1997..	381 573	14 069 748	11 447 903	2 621 845	X
33231	Plate work & fabricated structural product mfg	2001..	151 340	6 432 882	5 290 513	1 142 369	2
		2000..	153 768	6 413 975	5 279 242	1 134 732	2
		1999..	155 526	6 334 428	5 161 236	1 173 192	2
		1998..	148 496	5 900 082	4 797 731	1 102 351	1
		1997..	144 843	5 580 464	4 528 931	1 051 533	X
332311	Prefabricated metal building & component mfg	2001..	27 189	1 030 819	829 364	201 455	4
		2000..	28 797	1 103 987	900 354	203 633	5
		1999..	28 456	1 086 904	886 457	200 448	4
		1998..	26 465	1 011 889	835 808	176 081	4
		1997..	27 167	963 718	798 192	165 526	X
332312	Fabricated structural metal mfg	2001..	100 082	4 387 239	3 618 299	768 940	2
		2000..	99 080	4 261 179	3 506 224	754 955	2
		1999..	101 721	4 234 297	3 443 692	790 605	3
		1998..	96 408	3 889 333	3 149 886	739 447	1
		1997..	92 471	3 641 460	2 942 908	698 552	X
332313	Plate work mfg	2001..	24 068	1 014 823	842 849	171 974	4
		2000..	25 891	1 048 809	872 665	176 144	3
		1999..	25 349	1 013 227	831 087	182 139	2
		1998..	25 624	998 861	812 038	186 823	2
		1997..	25 205	975 286	787 831	187 455	X
33232	Ornamental & architectural metal products mfg	2001..	252 167	9 739 843	8 023 679	1 716 165	1
		2000..	264 610	10 073 377	8 341 941	1 731 435	1
		1999..	255 574	9 435 610	7 772 075	1 663 535	1
		1998..	247 592	9 117 493	7 457 418	1 660 075	1
		1997..	236 730	8 489 284	6 918 972	1 570 312	X
332321	Metal window & door mfg	2001..	82 774	2 872 587	2 342 529	530 058	3
		2000..	84 330	2 866 256	2 339 825	526 432	2
		1999..	83 063	2 739 661	2 242 494	497 167	2
		1998..	77 916	2 597 321	2 121 416	475 905	1
		1997..	74 063	2 384 533	1 941 363	443 170	X
332322	Sheet metal work mfg	2001..	131 901	5 392 103	4 473 349	918 754	2
		2000..	142 652	5 756 377	4 809 509	946 868	2
		1999..	134 155	5 304 851	4 389 549	915 302	2
		1998..	133 229	5 189 194	4 255 130	934 063	1
		1997..	127 791	4 887 288	3 991 922	895 366	X
332323	Ornamental & architectural metal work mfg	2001..	37 492	1 475 153	1 207 801	267 352	3
		2000..	37 629	1 450 743	1 192 607	258 136	2
		1999..	38 356	1 391 098	1 140 032	251 066	2
		1998..	36 447	1 330 979	1 080 872	250 107	1
		1997..	34 876	1 217 463	985 687	231 776	X
3324	Boiler, tank, & shipping container mfg	2001..	91 485	4 446 118	3 510 468	935 650	2
		2000..	96 269	4 622 304	3 648 732	973 571	1
		1999..	101 408	4 806 943	3 806 097	1 000 846	1
		1998..	102 038	4 770 541	3 779 201	991 340	1
		1997..	102 191	4 628 031	3 675 396	952 635	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
332	Fabricated metal product mfg—Con.						
3324	Boiler, tank, & shipping container mfg—Con.						
33241	Power boiler & heat exchanger mfg	2001..	25 867	1 143 571	917 399	226 172	3
		2000..	26 695	1 148 353	930 366	217 987	3
		1999..	26 789	1 162 893	940 570	222 324	3
		1998..	28 604	1 236 906	999 352	237 554	5
		1997..	27 576	1 184 713	947 859	236 854	X
332410	Power boiler & heat exchanger mfg	2001..	25 867	1 143 571	917 399	226 172	3
		2000..	26 695	1 148 353	930 366	217 987	3
		1999..	26 789	1 162 893	940 570	222 324	3
		1998..	28 604	1 236 906	999 352	237 554	5
		1997..	27 576	1 184 713	947 859	236 854	X
33242	Metal tank (heavy gauge) mfg	2001..	28 458	1 332 564	1 087 451	245 114	4
		2000..	30 432	1 434 947	1 168 146	266 801	3
		1999..	33 414	1 509 849	1 228 442	281 408	3
		1998..	32 556	1 430 018	1 155 777	274 241	2
		1997..	33 300	1 399 113	1 129 336	269 777	X
332420	Metal tank (heavy gauge) mfg	2001..	28 458	1 332 564	1 087 451	245 114	4
		2000..	30 432	1 434 947	1 168 146	266 801	3
		1999..	33 414	1 509 849	1 228 442	281 408	3
		1998..	32 556	1 430 018	1 155 777	274 241	2
		1997..	33 300	1 399 113	1 129 336	269 777	X
33243	Metal can, box, & other metal container (light gauge) mfg	2001..	37 161	1 969 982	1 505 618	464 364	2
		2000..	39 142	2 039 003	1 550 220	488 783	1
		1999..	41 205	2 134 200	1 637 086	497 115	1
		1998..	40 879	2 103 617	1 624 072	479 545	1
		1997..	41 315	2 044 205	1 598 201	446 004	X
332431	Metal can mfg	2001..	23 115	1 414 591	1 055 636	358 956	2
		2000..	23 581	1 423 982	1 048 702	375 280	1
		1999..	24 557	1 488 025	1 109 274	378 750	1
		1998..	25 098	1 488 389	1 124 249	364 140	1
		1997..	26 747	1 504 304	1 167 821	336 483	X
332439	Other metal container mfg	2001..	14 045	555 391	449 982	105 409	4
		2000..	15 562	615 022	501 518	113 504	3
		1999..	16 648	646 176	527 811	118 364	3
		1998..	15 780	615 228	499 822	115 406	3
		1997..	14 568	539 901	430 380	109 521	X
3325	Hardware mfg	2001..	65 394	2 764 142	2 156 089	608 053	2
		2000..	71 749	2 957 280	2 336 764	620 516	2
		1999..	70 844	2 885 568	2 284 950	600 618	2
		1998..	73 075	2 887 552	2 273 941	613 611	1
		1997..	75 437	2 974 174	2 327 164	647 010	X
33251	Hardware mfg	2001..	65 394	2 764 142	2 156 089	608 053	2
		2000..	71 749	2 957 280	2 336 764	620 516	2
		1999..	70 844	2 885 568	2 284 950	600 618	2
		1998..	73 075	2 887 552	2 273 941	613 611	1
		1997..	75 437	2 974 174	2 327 164	647 010	X
332510	Hardware mfg	2001..	65 394	2 764 142	2 156 089	608 053	2
		2000..	71 749	2 957 280	2 336 764	620 516	2
		1999..	70 844	2 885 568	2 284 950	600 618	2
		1998..	73 075	2 887 552	2 273 941	613 611	1
		1997..	75 437	2 974 174	2 327 164	647 010	X
3326	Spring & wire product mfg	2001..	65 800	2 382 405	1 958 627	423 778	3
		2000..	73 831	2 611 530	2 161 722	449 808	2
		1999..	71 826	2 511 998	2 071 250	440 749	2
		1998..	71 581	2 543 210	2 067 379	475 831	2
		1997..	70 193	2 352 897	1 906 503	446 394	X
33261	Spring & wire product mfg	2001..	65 800	2 382 405	1 958 627	423 778	3
		2000..	73 831	2 611 530	2 161 722	449 808	2
		1999..	71 826	2 511 998	2 071 250	440 749	2
		1998..	71 581	2 543 210	2 067 379	475 831	2
		1997..	70 193	2 352 897	1 906 503	446 394	X
332611	Spring (heavy gauge) mfg	2001..	5 478	248 372	200 640	47 732	5
		2000..	5 871	259 461	211 502	47 959	2
		1999..	5 718	241 468	199 268	42 200	4
		1998..	6 144	264 729	215 557	49 172	1
		1997..	5 581	227 011	183 180	43 831	X
332612	Spring (light gauge) mfg	2001..	19 120	735 121	602 530	132 591	6
		2000..	20 194	773 865	639 486	134 379	6
		1999..	20 267	759 696	623 071	136 624	5
		1998..	20 013	767 530	613 324	154 206	5
		1997..	18 798	698 818	564 372	134 446	X
332618	Other fabricated wire product mfg	2001..	41 202	1 398 912	1 155 456	243 456	4
		2000..	47 766	1 578 203	1 310 734	267 470	3
		1999..	45 841	1 510 834	1 248 910	261 924	2
		1998..	45 424	1 510 951	1 238 498	272 453	3
		1997..	45 814	1 427 068	1 158 951	268 117	X
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2001..	417 586	17 526 281	14 738 910	2 787 371	1
		2000..	429 966	18 211 147	15 322 384	2 888 763	1
		1999..	423 983	17 369 933	14 522 375	2 847 557	1
		1998..	440 840	17 553 397	14 611 494	2 941 903	1
		1997..	423 004	16 901 344	14 029 104	2 872 240	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
332	Fabricated metal product mfg—Con.						
3327	Machine shops, turned product, & screw, nut, & bolt mfg—Con.						
33271	Machine shops	2001..	293 733	11 951 386	10 191 690	1 759 696	2
		2000..	298 630	12 229 329	10 407 675	1 821 654	2
		1999..	291 482	11 531 237	9 744 727	1 786 510	1
		1998..	303 126	11 691 058	9 844 537	1 846 521	1
		1997..	289 437	11 244 072	9 446 782	1 797 290	X
332710	Machine shops	2001..	293 733	11 951 386	10 191 690	1 759 696	2
		2000..	298 630	12 229 329	10 407 675	1 821 654	2
		1999..	291 482	11 531 237	9 744 727	1 786 510	1
		1998..	303 126	11 691 058	9 844 537	1 846 521	1
		1997..	289 437	11 244 072	9 446 782	1 797 290	X
33272	Turned product & screw, nut, & bolt mfg	2001..	123 853	5 574 896	4 547 221	1 027 675	2
		2000..	131 336	5 981 818	4 914 709	1 067 109	2
		1999..	132 501	5 838 696	4 777 648	1 061 048	1
		1998..	137 714	5 862 339	4 766 957	1 095 382	1
		1997..	133 567	5 657 272	4 582 322	1 074 950	X
332721	Precision turned product mfg	2001..	71 709	3 056 860	2 557 064	499 796	2
		2000..	77 833	3 341 650	2 792 494	549 155	2
		1999..	77 165	3 233 748	2 690 491	543 257	2
		1998..	81 380	3 308 644	2 720 775	587 869	2
		1997..	80 225	3 205 945	2 629 738	576 207	X
332722	Bolt, nut, screw, rivet, & washer mfg	2001..	52 145	2 518 035	1 990 156	527 879	3
		2000..	53 504	2 640 169	2 122 215	517 954	3
		1999..	55 336	2 604 948	2 087 157	517 790	2
		1998..	56 334	2 553 695	2 046 182	507 513	1
		1997..	53 342	2 451 327	1 952 584	498 743	X
3328	Coating, engraving, heat treating, & allied activities	2001..	148 800	5 682 400	4 718 532	963 868	2
		2000..	159 007	6 054 548	5 029 218	1 025 330	2
		1999..	155 060	5 791 866	4 780 284	1 011 582	1
		1998..	159 122	5 887 255	4 817 728	1 069 527	1
		1997..	152 884	5 507 410	4 513 791	993 619	X
33281	Coating, engraving, heat treating, & allied activities	2001..	148 800	5 682 400	4 718 532	963 868	2
		2000..	159 007	6 054 548	5 029 218	1 025 330	2
		1999..	155 060	5 791 866	4 780 284	1 011 582	1
		1998..	159 122	5 887 255	4 817 728	1 069 527	1
		1997..	152 884	5 507 410	4 513 791	993 619	X
332811	Metal heat treating	2001..	21 749	995 573	804 691	190 881	5
		2000..	23 094	1 061 435	866 071	195 364	4
		1999..	23 368	1 030 351	847 732	182 619	3
		1998..	23 482	1 075 775	872 238	203 537	2
		1997..	22 299	976 987	789 233	187 754	X
332812	Metal coating/engraving (exc jewelry/ silverware)/allied services	2001..	56 959	2 204 626	1 816 434	388 192	3
		2000..	60 625	2 291 459	1 888 437	403 022	3
		1999..	59 361	2 214 459	1 809 333	405 126	3
		1998..	60 476	2 180 917	1 764 582	416 335	1
		1997..	55 954	2 007 386	1 634 627	372 759	X
332813	Electroplating, plating, polishing, anodizing, & coloring	2001..	70 092	2 482 202	2 097 407	384 795	2
		2000..	75 287	2 701 654	2 274 710	426 944	2
		1999..	72 330	2 547 055	2 123 218	423 837	2
		1998..	75 163	2 630 563	2 180 909	449 654	2
		1997..	74 631	2 523 037	2 089 931	433 106	X
3329	Other fabricated metal product mfg	2001..	304 517	14 162 051	11 139 621	3 022 430	1
		2000..	321 903	14 673 156	11 660 158	3 012 998	1
		1999..	319 787	14 272 322	11 327 325	2 944 997	1
		1998..	327 102	14 296 997	11 226 321	3 070 676	1
		1997..	322 209	13 684 837	10 786 052	2 898 785	X
33291	Metal valve mfg	2001..	115 448	5 595 094	4 361 079	1 234 015	1
		2000..	121 193	5 712 780	4 493 060	1 219 720	1
		1999..	122 517	5 643 892	4 438 399	1 205 493	1
		1998..	127 695	5 798 006	4 492 996	1 305 009	1
		1997..	126 245	5 582 567	4 364 424	1 218 143	X
332911	Industrial valve mfg	2001..	50 340	2 510 091	1 953 860	556 231	2
		2000..	52 561	2 555 981	2 011 652	544 329	1
		1999..	53 549	2 566 827	2 014 647	552 179	1
		1998..	56 237	2 636 316	2 055 360	580 956	3
		1997..	54 294	2 468 545	1 947 182	521 363	X
332912	Fluid power valve & hose fitting mfg	2001..	35 845	1 791 092	1 380 161	410 932	2
		2000..	37 826	1 835 759	1 431 692	404 067	2
		1999..	37 872	1 801 624	1 417 801	383 823	2
		1998..	38 757	1 829 383	1 398 063	431 319	1
		1997..	37 280	1 742 047	1 327 456	414 591	X
332913	Plumbing fixture fitting & trim mfg	2001..	13 188	582 404	462 391	120 013	4
		2000..	14 750	628 079	498 706	129 374	2
		1999..	14 781	591 870	463 810	128 060	2
		1998..	15 651	644 015	499 276	144 739	4
		1997..	16 133	636 976	498 551	138 425	X
332919	Other metal valve & pipe fitting mfg	2001..	16 075	711 507	564 666	146 840	4
		2000..	16 055	692 961	551 011	141 950	3
		1999..	16 316	683 572	542 140	141 431	3
		1998..	17 051	688 291	540 297	147 994	4
		1997..	18 538	734 999	591 235	143 764	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
332	Fabricated metal product mfg—Con.						
3329	Other fabricated metal product mfg—Con.						
33299	All other fabricated metal product mfg	2001..	189 070	8 566 957	6 778 542	1 788 415	1
		2000..	200 710	8 960 375	7 167 097	1 793 278	1
		1999..	197 270	8 628 430	6 888 926	1 739 504	1
		1998..	199 406	8 498 992	6 733 325	1 765 667	1
		1997..	195 964	8 102 270	6 421 628	1 680 642	X
332991	Ball & roller bearing mfg	2001..	32 222	1 794 444	1 332 692	461 752	1
		2000..	35 727	1 934 556	1 459 948	474 608	1
		1999..	35 964	1 873 242	1 427 753	445 489	1
		1998..	36 948	1 843 148	1 402 650	440 498	1
		1997..	36 547	1 783 428	1 368 804	414 624	X
332992	Small arms ammunition mfg	2001..	6 947	347 618	258 054	89 564	1
		2000..	7 222	358 994	277 847	81 147	1
		1999..	7 235	357 113	277 616	79 497	1
		1998..	7 145	333 880	257 981	75 898	1
		1997..	7 135	325 162	254 731	70 431	X
332993	Ammunition (except small arms) mfg	2001..	5 738	314 048	245 369	68 679	5
		2000..	7 324	397 612	323 088	74 524	5
		1999..	8 335	434 063	341 551	92 512	4
		1998..	9 487	491 306	381 724	109 583	1
		1997..	9 281	476 916	371 808	105 108	X
332994	Small arms mfg	2001..	9 413	410 619	314 053	96 566	3
		2000..	9 755	417 456	331 957	85 499	3
		1999..	9 826	415 871	325 358	90 513	2
		1998..	9 616	412 621	321 025	91 597	1
		1997..	9 841	414 965	319 663	95 302	X
332995	Other ordnance & accessories mfg	2001..	6 971	458 061	366 142	91 919	3
		2000..	7 114	457 528	362 510	95 018	3
		1999..	8 362	469 840	383 873	85 967	3
		1998..	8 722	462 780	377 751	85 029	1
		1997..	8 545	456 867	362 201	94 666	X
332996	Fabricated pipe & pipe fitting mfg	2001..	31 938	1 272 273	1 045 414	226 858	5
		2000..	32 009	1 223 942	1 012 752	211 190	4
		1999..	30 416	1 158 077	953 968	204 110	3
		1998..	30 096	1 139 402	931 846	207 556	2
		1997..	29 746	1 077 722	879 723	197 999	X
332997	Industrial pattern mfg	2001..	7 081	324 034	274 720	49 314	5
		2000..	7 629	344 289	290 335	53 953	3
		1999..	7 367	342 801	287 147	55 654	2
		1998..	8 101	375 839	317 545	58 294	4
		1997..	7 952	342 110	284 879	57 231	X
332998	Enameled iron & metal sanitary ware mfg	2001..	9 965	453 284	357 611	95 673	2
		2000..	10 275	462 133	365 769	96 364	2
		1999..	9 535	445 191	350 814	94 377	2
		1998..	9 947	418 773	321 355	97 418	1
		1997..	9 792	355 498	275 889	79 609	X
332999	All other miscellaneous fabricated metal product mfg	2001..	78 794	3 192 576	2 584 487	608 089	2
		2000..	83 655	3 363 866	2 742 891	620 975	2
		1999..	80 229	3 132 231	2 540 846	591 385	2
		1998..	79 345	3 021 242	2 421 448	599 794	2
		1997..	77 125	2 869 602	2 303 930	565 672	X
333	Machinery mfg	2001..	1 314 727	65 971 719	52 844 134	13 127 584	1
		2000..	1 396 397	69 527 813	55 965 719	13 562 093	1
		1999..	1 401 751	67 694 967	54 339 741	13 355 226	1
		1998..	1 433 463	67 673 133	54 038 645	13 634 488	1
		1997..	1 420 512	66 367 624	53 012 226	13 355 398	X
3331	Agriculture, construction, & mining machinery mfg	2001..	185 840	9 294 460	7 270 952	2 023 508	2
		2000..	197 213	9 514 669	7 391 883	2 122 787	2
		1999..	197 865	9 565 700	7 322 390	2 243 310	1
		1998..	211 728	10 261 496	7 873 191	2 388 306	1
		1997..	211 200	10 052 141	7 689 706	2 362 435	X
33311	Agricultural implement mfg	2001..	79 981	3 666 332	2 799 857	866 475	3
		2000..	86 692	3 779 023	2 885 654	893 370	2
		1999..	85 619	3 832 559	2 849 291	983 268	1
		1998..	93 568	4 164 598	3 125 846	1 038 753	1
		1997..	94 711	4 125 597	3 102 280	1 023 317	X
333111	Farm machinery & equipment mfg	2001..	57 690	2 813 162	2 149 188	663 974	4
		2000..	61 735	2 868 761	2 190 165	678 596	3
		1999..	59 121	2 840 600	2 093 769	746 830	2
		1998..	66 312	3 183 578	2 385 716	797 862	1
		1997..	66 370	3 173 064	2 370 599	802 465	X
333112	Lawn & garden tractor & home lawn & garden equipment mfg	2001..	22 291	853 170	650 668	202 501	1
		2000..	24 956	910 262	695 489	214 774	1
		1999..	26 499	991 959	755 521	236 438	1
		1998..	27 255	981 020	740 129	240 891	1
		1997..	28 341	952 533	731 681	220 852	X
33312	Construction machinery mfg	2001..	67 129	3 479 588	2 753 485	726 103	2
		2000..	72 410	3 754 823	2 913 266	841 557	2
		1999..	72 176	3 808 986	2 923 783	885 203	2
		1998..	74 353	3 989 944	3 058 775	931 169	1
		1997..	74 741	3 931 170	2 990 139	941 031	X
333120	Construction machinery mfg	2001..	67 129	3 479 588	2 753 485	726 103	2
		2000..	72 410	3 754 823	2 913 266	841 557	2
		1999..	72 176	3 808 986	2 923 783	885 203	2
		1998..	74 353	3 989 944	3 058 775	931 169	1
		1997..	74 741	3 931 170	2 990 139	941 031	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
333	Machinery mfg—Con.						
3331	Agriculture, construction, & mining machinery mfg —Con.						
33313	Mining & oil & gas field machinery mfg	2001..	38 730	2 148 540	1 717 610	430 929	4
		2000..	38 111	1 980 823	1 592 963	387 860	4
		1999..	40 070	1 924 155	1 549 316	374 839	5
		1998..	43 808	2 106 954	1 688 570	418 384	1
		1997..	41 748	1 995 374	1 597 287	398 087	X
333131	Mining machinery & equipment mfg	2001..	11 064	556 765	434 624	122 140	4
		2000..	11 235	563 536	441 842	121 694	3
		1999..	12 591	577 642	454 710	122 932	3
		1998..	14 599	657 603	520 958	136 645	3
		1997..	13 507	614 312	485 338	128 974	X
333132	Oil & gas field machinery & equipment mfg	2001..	27 666	1 591 775	1 282 986	308 789	6
		2000..	26 876	1 417 287	1 151 121	266 167	6
		1999..	27 479	1 346 513	1 094 605	251 907	7
		1998..	29 209	1 449 351	1 167 612	281 739	1
		1997..	28 241	1 381 062	1 111 949	269 113	X
3332	Industrial machinery mfg	2001..	190 529	10 420 167	8 533 004	1 887 163	1
		2000..	197 716	10 983 280	9 075 666	1 907 614	1
		1999..	189 147	9 798 228	8 025 336	1 772 892	1
		1998..	197 811	9 472 758	7 699 600	1 773 158	1
		1997..	194 210	9 401 439	7 616 113	1 785 326	X
33321	Sawmill & woodworking machinery mfg	2001..	7 858	349 813	284 440	65 373	4
		2000..	8 803	398 806	325 524	73 282	4
		1999..	8 747	380 780	311 958	68 821	3
		1998..	9 227	401 187	318 015	83 172	7
		1997..	8 973	368 227	297 430	70 797	X
333210	Sawmill & woodworking machinery mfg	2001..	7 858	349 813	284 440	65 373	4
		2000..	8 803	398 806	325 524	73 282	4
		1999..	8 747	380 780	311 958	68 821	3
		1998..	9 227	401 187	318 015	83 172	7
		1997..	8 973	368 227	297 430	70 797	X
33322	Plastics & rubber industry machinery mfg	2001..	16 734	875 642	696 109	179 533	4
		2000..	17 596	949 959	759 887	190 073	5
		1999..	17 304	896 972	720 215	176 757	4
		1998..	18 783	895 961	719 535	176 426	2
		1997..	18 530	931 124	741 819	189 305	X
333220	Plastics & rubber industry machinery mfg	2001..	16 734	875 642	696 109	179 533	4
		2000..	17 596	949 959	759 887	190 073	5
		1999..	17 304	896 972	720 215	176 757	4
		1998..	18 783	895 961	719 535	176 426	2
		1997..	18 530	931 124	741 819	189 305	X
33329	Other industrial machinery mfg	2001..	165 937	9 194 712	7 552 455	1 642 258	1
		2000..	171 317	9 634 515	7 990 255	1 644 259	1
		1999..	163 096	8 520 476	6 993 163	1 527 313	1
		1998..	169 800	8 175 610	6 662 050	1 513 560	1
		1997..	166 707	8 102 088	6 576 864	1 525 224	X
333291	Paper industry machinery mfg	2001..	14 735	859 192	672 875	186 317	5
		2000..	15 806	907 784	730 890	176 894	5
		1999..	16 400	919 009	739 920	179 089	4
		1998..	18 539	956 958	771 823	185 135	2
		1997..	18 313	950 710	761 458	189 252	X
333292	Textile machinery mfg	2001..	10 555	447 591	370 219	77 372	5
		2000..	12 409	537 460	437 542	99 918	6
		1999..	12 513	508 920	423 082	85 838	3
		1998..	12 813	525 769	441 680	84 088	5
		1997..	13 511	532 977	445 381	87 596	X
333293	Printing machinery & equipment mfg	2001..	18 249	971 824	803 578	168 246	4
		2000..	20 111	1 117 456	916 693	200 763	2
		1999..	19 596	1 056 144	865 268	190 876	2
		1998..	21 140	1 070 881	871 206	199 675	1
		1997..	22 390	1 128 250	924 863	203 387	X
333294	Food product machinery mfg	2001..	17 733	867 462	704 970	162 492	4
		2000..	18 376	897 951	736 348	161 603	3
		1999..	19 102	893 707	725 190	168 518	3
		1998..	19 054	894 064	728 644	165 420	3
		1997..	18 898	873 510	711 852	161 658	X
333295	Semiconductor machinery mfg	2001..	50 469	3 348 544	2 784 327	564 217	3
		2000..	50 430	3 486 071	2 959 863	526 208	3
		1999..	41 586	2 528 024	2 105 480	422 543	2
		1998..	43 995	2 200 444	1 777 586	422 858	2
		1997..	40 104	2 128 563	1 702 788	425 775	X
333298	All other industrial machinery mfg	2001..	54 195	2 700 099	2 216 485	483 614	3
		2000..	54 185	2 687 793	2 208 920	478 873	3
		1999..	53 899	2 614 673	2 134 222	480 451	2
		1998..	54 259	2 527 495	2 071 112	456 383	3
		1997..	53 491	2 488 078	2 030 522	457 556	X
3333	Commercial & service industry machinery mfg	2001..	113 251	5 494 637	4 372 612	1 122 024	5
		2000..	117 999	5 604 632	4 481 745	1 122 887	2
		1999..	129 479	5 954 997	4 774 988	1 180 009	1
		1998..	129 557	5 839 291	4 694 721	1 144 570	1
		1997..	129 691	5 828 694	4 698 826	1 129 868	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
333	Machinery mfg—Con.						
3333	Commercial & service industry machinery mfg—Con.						
33331	Commercial & service industry machinery mfg	2001..	113 251	5 494 637	4 372 612	1 122 024	5
		2000..	117 999	5 604 632	4 481 745	1 122 887	2
		1999..	129 479	5 954 997	4 774 988	1 180 009	1
		1998..	129 557	5 839 291	4 694 721	1 144 570	1
		1997..	129 691	5 828 694	4 698 826	1 129 868	X
333311	Automatic vending machine mfg	2001..	8 122	336 939	266 016	70 923	6
		2000..	8 456	347 276	277 723	69 554	3
		1999..	9 477	328 411	261 928	66 483	5
		1998..	8 806	283 382	224 858	58 524	2
		1997..	8 220	270 777	216 397	54 380	X
333312	Commercial laundry, drycleaning, & pressing machine mfg	2001..	3 497	143 812	116 897	26 915	6
		2000..	3 543	141 957	115 048	26 909	6
		1999..	4 204	159 120	129 929	29 191	5
		1998..	4 434	164 671	134 405	30 266	1
		1997..	4 523	168 346	136 783	31 563	X
333313	Office machinery mfg	2001..	9 794	415 760	344 046	71 714	5
		2000..	11 090	427 597	350 871	76 726	6
		1999..	13 063	500 896	409 343	91 553	4
		1998..	13 403	516 403	434 135	82 268	3
		1997..	14 586	529 686	452 165	77 521	X
333314	Optical instrument & lens mfg	2001..	21 378	1 204 601	940 935	263 666	21
		2000..	20 308	1 147 442	922 524	224 919	10
		1999..	23 398	1 168 340	948 190	220 149	7
		1998..	20 397	1 021 058	841 457	179 602	3
		1997..	20 351	993 429	812 428	181 001	X
333315	Photographic & photocopying equipment mfg	2001..	13 346	681 036	539 777	141 259	5
		2000..	15 749	819 354	640 189	179 164	3
		1999..	19 750	1 110 511	876 772	233 738	2
		1998..	23 611	1 305 290	1 030 362	274 928	1
		1997..	24 143	1 346 211	1 074 710	271 501	X
333319	Other commercial & service industry machinery mfg	2001..	57 114	2 712 488	2 164 940	547 548	2
		2000..	58 854	2 721 006	2 175 391	545 615	2
		1999..	59 588	2 687 719	2 148 826	538 893	1
		1998..	58 906	2 548 486	2 029 504	518 982	1
		1997..	57 868	2 520 245	2 006 343	513 902	X
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	2001..	172 430	7 337 802	5 745 326	1 592 476	2
		2000..	184 276	7 732 798	6 119 339	1 613 459	2
		1999..	180 399	7 313 794	5 810 285	1 503 509	2
		1998..	174 324	6 931 769	5 504 294	1 427 475	1
		1997..	174 136	6 710 638	5 344 894	1 365 744	X
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	2001..	172 430	7 337 802	5 745 326	1 592 476	2
		2000..	184 276	7 732 798	6 119 339	1 613 459	2
		1999..	180 399	7 313 794	5 810 285	1 503 509	2
		1998..	174 324	6 931 769	5 504 294	1 427 475	1
		1997..	174 136	6 710 638	5 344 894	1 365 744	X
333411	Air purification equipment mfg	2001..	15 380	564 775	468 588	96 187	4
		2000..	15 760	586 896	482 694	104 202	5
		1999..	15 901	541 613	445 450	96 162	5
		1998..	16 270	564 504	464 383	100 121	2
		1997..	16 447	581 954	479 162	102 792	X
333412	Industrial & commercial fan & blower mfg	2001..	13 701	603 843	487 257	116 586	4
		2000..	15 122	627 711	510 939	116 772	4
		1999..	15 656	628 704	513 224	115 479	3
		1998..	14 534	585 936	476 050	109 887	7
		1997..	13 706	528 128	431 622	96 506	X
333414	Heating equipment (except warm air furnaces) mfg	2001..	24 472	1 044 087	838 998	205 089	4
		2000..	26 010	1 061 866	857 834	204 032	3
		1999..	24 880	1 008 241	808 546	199 695	3
		1998..	23 510	900 198	719 194	181 003	3
		1997..	24 597	936 247	755 114	181 133	X
333415	AC & warm air heating & commercial/industrial refrig equip mfg	2001..	118 876	5 125 096	3 950 483	1 174 613	3
		2000..	127 384	5 456 325	4 267 872	1 188 453	2
		1999..	123 962	5 135 237	4 043 064	1 092 172	2
		1998..	120 011	4 881 131	3 844 667	1 036 464	1
		1997..	119 386	4 664 309	3 678 996	985 313	X
3335	Metalworking machinery mfg	2001..	217 671	10 882 265	9 055 259	1 827 005	1
		2000..	236 355	12 023 653	10 042 698	1 980 955	1
		1999..	239 862	11 849 251	9 835 871	2 013 380	1
		1998..	247 187	12 132 672	10 002 017	2 130 655	1
		1997..	242 963	11 902 914	9 827 519	2 075 395	X
33351	Metalworking machinery mfg	2001..	217 671	10 882 265	9 055 259	1 827 005	1
		2000..	236 355	12 023 653	10 042 698	1 980 955	1
		1999..	239 862	11 849 251	9 835 871	2 013 380	1
		1998..	247 187	12 132 672	10 002 017	2 130 655	1
		1997..	242 963	11 902 914	9 827 519	2 075 395	X
333511	Industrial mold mfg	2001..	45 494	2 317 229	1 964 270	352 959	3
		2000..	49 895	2 565 494	2 182 870	382 624	2
		1999..	50 789	2 522 217	2 120 867	401 350	2
		1998..	48 931	2 480 114	2 072 760	407 353	1
		1997..	48 113	2 467 952	2 067 403	400 549	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
333	Machinery mfg—Con.						
3335	Metalworking machinery mfg—Con.						
33351	Metalworking machinery mfg—Con.						
333512	Machine tool (metal cutting types) mfg	2001..	21 635	1 271 712	1 035 209	236 503	4
		2000..	24 859	1 414 021	1 152 937	261 084	3
		1999..	25 497	1 418 096	1 159 444	258 652	3
		1998..	27 539	1 476 253	1 196 365	279 888	1
		1997..	29 577	1 572 796	1 274 460	298 336	X
333513	Machine tool (metal forming types) mfg	2001..	11 660	620 686	504 362	116 324	5
		2000..	13 310	730 946	598 408	132 539	4
		1999..	13 529	737 886	596 008	141 878	3
		1998..	15 154	792 998	640 710	152 288	2
		1997..	14 141	737 492	596 804	140 688	X
333514	Special die & tool, die set, jig, & fixture mfg	2001..	71 838	3 392 507	2 854 081	538 426	2
		2000..	77 987	3 816 798	3 234 362	582 436	2
		1999..	80 159	3 839 244	3 227 356	611 888	2
		1998..	82 269	3 915 690	3 274 181	641 509	1
		1997..	79 994	3 857 540	3 226 074	631 466	X
333515	Cutting tool & machine tool accessory mfg	2001..	43 263	1 923 772	1 568 873	354 900	2
		2000..	46 182	2 124 952	1 721 515	403 437	3
		1999..	45 898	2 014 727	1 634 654	380 073	2
		1998..	49 706	2 126 735	1 712 647	414 088	1
		1997..	48 017	2 033 357	1 644 426	388 931	X
333516	Rolling mill machinery & equipment mfg	2001..	3 025	175 818	146 191	29 627	16
		2000..	3 145	190 623	158 046	32 578	15
		1999..	3 094	155 196	127 447	27 749	6
		1998..	4 290	219 452	179 144	40 308	5
		1997..	4 149	206 589	167 312	39 277	X
333518	Other metalworking machinery mfg	2001..	20 755	1 180 541	982 275	198 266	3
		2000..	20 977	1 180 818	994 561	186 257	3
		1999..	20 897	1 161 883	970 094	191 790	2
		1998..	19 298	1 121 431	926 210	195 221	3
		1997..	18 972	1 027 188	851 040	176 148	X
3336	Engine, turbine, & power transmission equipment mfg	2001..	106 759	6 251 266	4 811 215	1 440 051	2
		2000..	114 061	6 432 077	5 008 653	1 423 423	1
		1999..	116 434	6 403 905	5 009 441	1 394 464	1
		1998..	112 399	6 088 767	4 704 387	1 384 381	1
		1997..	113 802	6 002 034	4 638 042	1 363 992	X
33361	Engine, turbine, & power transmission equipment mfg	2001..	106 759	6 251 266	4 811 215	1 440 051	2
		2000..	114 061	6 432 077	5 008 653	1 423 423	1
		1999..	116 434	6 403 905	5 009 441	1 394 464	1
		1998..	112 399	6 088 767	4 704 387	1 384 381	1
		1997..	113 802	6 002 034	4 638 042	1 363 992	X
333611	Turbine & turbine generator set unit mfg	2001..	19 514	1 395 755	1 109 511	286 244	4
		2000..	17 646	1 167 435	941 465	225 970	6
		1999..	19 236	1 134 043	912 358	221 685	3
		1998..	18 062	1 060 394	837 210	223 184	1
		1997..	19 529	1 156 469	910 316	246 153	X
333612	Speed changer, industrial high-speed drive, & gear mfg	2001..	15 540	767 750	609 530	158 220	5
		2000..	15 477	771 010	613 614	157 396	5
		1999..	16 011	781 735	623 525	158 211	4
		1998..	15 784	766 257	607 540	158 717	1
		1997..	16 182	752 318	594 251	158 067	X
333613	Mechanical power transmission equipment mfg	2001..	20 071	998 931	778 876	220 056	4
		2000..	21 644	1 050 780	823 347	227 433	5
		1999..	21 966	1 003 245	782 969	220 276	5
		1998..	21 713	1 006 186	788 564	217 622	1
		1997..	21 271	967 374	759 037	208 337	X
333618	Other engine equipment mfg	2001..	51 634	3 088 830	2 313 298	775 532	3
		2000..	59 294	3 442 851	2 630 226	812 625	1
		1999..	59 221	3 484 882	2 690 589	794 292	1
		1998..	56 839	3 255 931	2 471 072	784 858	1
		1997..	56 820	3 125 873	2 374 438	751 435	X
3339	Other general-purpose machinery mfg	2001..	328 248	16 291 122	13 055 765	3 235 357	1
		2000..	348 775	17 236 704	13 845 735	3 390 969	1
		1999..	348 564	16 809 093	13 561 430	3 247 663	1
		1998..	360 458	16 946 380	13 560 436	3 385 944	1
		1997..	354 510	16 469 764	13 197 126	3 272 638	X
33391	Pump & compressor mfg	2001..	58 876	3 082 228	2 439 279	642 949	2
		2000..	60 721	3 185 440	2 527 064	658 376	2
		1999..	65 035	3 266 934	2 615 179	651 755	1
		1998..	69 611	3 419 585	2 691 140	728 445	2
		1997..	67 263	3 254 783	2 571 850	682 933	X
333911	Pump & pumping equipment mfg	2001..	32 037	1 707 788	1 362 095	345 693	3
		2000..	33 089	1 766 237	1 409 839	356 398	2
		1999..	34 840	1 779 574	1 432 074	347 500	2
		1998..	37 234	1 882 821	1 491 460	391 361	3
		1997..	36 020	1 758 992	1 402 147	356 845	X
333912	Air & gas compressor mfg	2001..	21 071	1 075 588	837 703	237 885	3
		2000..	21 559	1 127 564	884 392	243 172	3
		1999..	23 348	1 149 908	917 922	231 986	2
		1998..	25 925	1 214 103	947 337	266 766	2
		1997..	24 582	1 182 984	925 655	257 329	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
333	Machinery mfg—Con.						
3339	Other general-purpose machinery mfg—Con.						
33391	Pump & compressor mfg—Con.						
333913	Measuring & dispensing pump mfg	2001..	5 769	298 851	239 481	59 371	2
		2000..	6 074	291 639	232 833	58 806	2
		1999..	6 846	337 452	265 183	72 269	1
		1998..	6 452	322 660	252 342	70 318	1
		1997..	6 661	312 807	244 048	68 759	X
33392	Material handling equipment mfg	2001..	93 509	4 419 993	3 541 947	878 046	2
		2000..	99 169	4 739 958	3 811 239	928 719	2
		1999..	95 980	4 534 152	3 661 890	872 262	1
		1998..	94 390	4 280 904	3 447 418	833 486	1
		1997..	92 600	4 148 226	3 330 707	817 519	X
333921	Elevator & moving stairway mfg	2001..	10 733	498 673	397 683	100 990	4
		2000..	10 515	476 251	378 044	98 207	4
		1999..	9 481	435 106	345 311	89 795	3
		1998..	9 489	414 813	333 280	81 533	4
		1997..	9 442	428 381	340 525	87 856	X
333922	Conveyor & conveying equipment mfg	2001..	38 223	1 969 061	1 597 169	371 893	2
		2000..	40 319	2 119 148	1 719 050	400 099	2
		1999..	39 291	2 046 424	1 675 605	370 818	2
		1998..	39 134	1 912 030	1 551 065	360 964	3
		1997..	39 421	1 894 745	1 531 932	362 813	X
333923	Overhead traveling crane, hoist, & monorail system mfg	2001..	20 813	867 989	687 836	180 152	5
		2000..	21 789	930 286	739 462	190 823	5
		1999..	20 275	872 714	697 932	174 782	4
		1998..	18 993	784 286	618 890	165 395	1
		1997..	17 784	715 388	564 482	150 906	X
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	2001..	23 740	1 084 270	859 259	225 011	3
		2000..	26 547	1 214 273	974 683	239 590	2
		1999..	26 933	1 179 909	943 042	236 866	2
		1998..	26 774	1 169 776	944 182	225 594	1
		1997..	25 953	1 109 712	893 768	215 944	X
33399	All other general-purpose machinery mfg	2001..	175 862	8 788 901	7 074 539	1 714 362	1
		2000..	188 885	9 311 305	7 507 432	1 803 873	1
		1999..	187 549	9 008 007	7 284 361	1 723 646	1
		1998..	196 457	9 245 891	7 421 878	1 824 013	1
		1997..	194 647	9 066 755	7 294 569	1 772 186	X
333991	Power-driven handtool mfg	2001..	16 311	668 921	517 373	151 547	3
		2000..	17 216	725 570	565 494	160 076	2
		1999..	16 389	671 525	523 447	148 078	1
		1998..	16 793	709 454	553 440	156 015	1
		1997..	16 816	676 296	531 378	144 918	X
333992	Welding & soldering equipment mfg	2001..	18 338	959 887	776 016	183 871	5
		2000..	20 087	999 408	813 344	186 065	4
		1999..	18 488	937 461	758 202	179 259	3
		1998..	21 128	1 032 332	840 387	191 945	1
		1997..	22 505	1 114 116	918 180	195 936	X
333993	Packaging machinery mfg	2001..	27 923	1 475 857	1 207 904	267 952	3
		2000..	29 259	1 543 613	1 263 422	280 191	2
		1999..	31 000	1 575 606	1 294 363	281 243	2
		1998..	32 385	1 613 321	1 307 899	305 423	1
		1997..	32 109	1 577 209	1 278 345	298 864	X
333994	Industrial process furnace & oven mfg	2001..	15 294	771 619	622 605	149 014	5
		2000..	16 345	788 939	632 925	156 014	4
		1999..	16 834	771 312	624 847	146 465	3
		1998..	17 929	830 133	670 345	159 788	2
		1997..	17 575	814 914	657 327	157 587	X
333995	Fluid power cylinder & actuator mfg	2001..	21 436	1 118 733	889 607	229 126	4
		2000..	23 303	1 231 495	974 928	256 567	3
		1999..	24 801	1 265 644	1 002 336	263 308	2
		1998..	24 484	1 247 313	965 324	281 989	1
		1997..	23 030	1 170 843	898 428	272 415	X
333996	Fluid power pump & motor mfg	2001..	13 610	713 357	542 658	170 699	3
		2000..	15 934	824 714	634 297	190 417	2
		1999..	15 620	787 593	611 710	175 883	2
		1998..	17 189	850 372	672 415	177 956	1
		1997..	15 963	787 383	620 397	166 986	X
333997	Scale & balance (except laboratory) mfg	2001..	4 319	196 558	158 121	38 437	11
		2000..	4 613	202 945	163 102	39 843	11
		1999..	4 896	205 353	165 976	39 377	10
		1998..	4 849	199 227	157 030	42 196	6
		1997..	4 856	190 839	148 487	42 352	X
333999	All other miscellaneous general-purpose machinery mfg	2001..	58 632	2 883 971	2 360 256	523 715	2
		2000..	62 129	2 994 621	2 459 921	534 700	2
		1999..	59 521	2 793 513	2 303 480	490 033	1
		1998..	61 699	2 763 740	2 255 037	508 703	1
		1997..	61 793	2 735 155	2 242 027	493 128	X
334	Computer & electronic product mfg	2001..	1 598 766	95 308 727	77 137 249	18 171 478	2
		2000..	1 652 745	98 277 284	80 032 211	18 245 074	1
		1999..	1 610 202	91 453 494	74 943 060	16 510 433	1
		1998..	1 686 623	91 167 837	73 976 389	17 191 448	1
		1997..	1 691 146	89 471 578	72 483 848	16 987 730	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
334	Computer & electronic product mfg—Con.						
3341	Computer & peripheral equipment mfg	2001..	193 109	11 266 694	9 165 129	2 101 565	1
		2000..	205 077	12 848 155	10 664 697	2 183 458	1
		1999..	207 666	13 045 710	10 984 050	2 061 660	2
		1998..	239 921	13 646 582	11 233 494	2 413 088	2
		1997..	240 307	13 284 865	10 899 245	2 385 620	X
33411	Computer & peripheral equipment mfg	2001..	193 109	11 266 694	9 165 129	2 101 565	1
		2000..	205 077	12 848 155	10 664 697	2 183 458	1
		1999..	207 666	13 045 710	10 984 050	2 061 660	2
		1998..	239 921	13 646 582	11 233 494	2 413 088	2
		1997..	240 307	13 284 865	10 899 245	2 385 620	X
334111	Electronic computer mfg	2001..	77 258	4 305 357	3 548 459	756 898	1
		2000..	87 715	5 423 912	4 572 408	851 504	1
		1999..	83 677	5 432 188	4 715 056	717 132	1
		1998..	95 806	5 132 254	4 277 845	854 409	1
		1997..	99 427	5 195 503	4 239 347	956 156	X
334112	Computer storage device mfg	2001..	35 332	2 060 013	1 617 183	442 829	5
		2000..	32 296	2 176 865	1 731 262	445 603	3
		1999..	37 044	2 128 183	1 712 821	415 362	2
		1998..	45 361	2 565 852	2 066 595	499 258	1
		1997..	42 012	2 345 847	1 910 310	435 537	X
334113	Computer terminal mfg	2001..	4 356	211 309	167 523	43 786	6
		2000..	3 270	179 454	149 636	29 818	9
		1999..	4 409	222 050	183 737	38 313	5
		1998..	5 167	262 714	218 247	44 466	5
		1997..	5 764	303 566	253 086	50 480	X
334119	Other computer peripheral equipment mfg	2001..	76 164	4 690 015	3 831 963	858 052	2
		2000..	81 796	5 067 924	4 211 391	856 533	2
		1999..	82 536	5 263 289	4 372 437	890 853	5
		1998..	93 587	5 685 762	4 670 807	1 014 954	4
		1997..	93 104	5 439 949	4 496 502	943 447	X
3342	Communications equipment mfg	2001..	301 732	20 916 638	17 089 013	3 827 625	8
		2000..	291 132	20 277 355	16 552 078	3 725 277	6
		1999..	274 161	17 395 567	14 259 489	3 136 078	1
		1998..	286 973	17 004 965	13 804 299	3 200 666	1
		1997..	294 865	17 013 352	13 826 630	3 186 722	X
33421	Telephone apparatus mfg	2001..	124 132	9 593 598	7 985 252	1 608 346	16
		2000..	109 085	8 489 733	7 008 916	1 480 818	4
		1999..	108 459	7 687 858	6 261 789	1 426 069	2
		1998..	101 364	6 681 506	5 378 812	1 302 695	1
		1997..	103 874	6 635 405	5 377 394	1 258 011	X
334210	Telephone apparatus mfg	2001..	124 132	9 593 598	7 985 252	1 608 346	16
		2000..	109 085	8 489 733	7 008 916	1 480 818	4
		1999..	108 459	7 687 858	6 261 789	1 426 069	2
		1998..	101 364	6 681 506	5 378 812	1 302 695	1
		1997..	103 874	6 635 405	5 377 394	1 258 011	X
33422	Radio & TV broadcasting & wireless communications equipment mfg	2001..	149 537	9 877 487	7 954 106	1 923 380	6
		2000..	159 166	10 745 521	8 681 744	2 063 777	10
		1999..	141 726	8 679 150	7 155 428	1 523 722	2
		1998..	161 264	9 207 098	7 514 117	1 692 982	1
		1997..	166 801	9 309 679	7 572 853	1 736 826	X
334220	Radio & TV broadcasting & wireless communications equipment mfg	2001..	149 537	9 877 487	7 954 106	1 923 380	6
		2000..	159 166	10 745 521	8 681 744	2 063 777	10
		1999..	141 726	8 679 150	7 155 428	1 523 722	2
		1998..	161 264	9 207 098	7 514 117	1 692 982	1
		1997..	166 801	9 309 679	7 572 853	1 736 826	X
33429	Other communications equipment mfg	2001..	28 062	1 445 553	1 149 655	295 898	3
		2000..	22 882	1 042 101	861 418	180 682	3
		1999..	23 977	1 028 559	842 271	186 287	3
		1998..	24 345	1 116 360	911 371	204 989	1
		1997..	24 190	1 068 268	876 383	191 885	X
334290	Other communications equipment mfg	2001..	28 062	1 445 553	1 149 655	295 898	3
		2000..	22 882	1 042 101	861 418	180 682	3
		1999..	23 977	1 028 559	842 271	186 287	3
		1998..	24 345	1 116 360	911 371	204 989	1
		1997..	24 190	1 068 268	876 383	191 885	X
3343	Audio & video equipment mfg	2001..	27 142	1 168 475	962 979	205 496	5
		2000..	28 692	1 179 702	975 307	204 395	4
		1999..	29 760	1 211 371	990 808	220 563	3
		1998..	32 373	1 201 552	958 676	242 876	2
		1997..	30 306	1 151 516	918 069	233 447	X
33431	Audio & video equipment mfg	2001..	27 142	1 168 475	962 979	205 496	5
		2000..	28 692	1 179 702	975 307	204 395	4
		1999..	29 760	1 211 371	990 808	220 563	3
		1998..	32 373	1 201 552	958 676	242 876	2
		1997..	30 306	1 151 516	918 069	233 447	X
334310	Audio & video equipment mfg	2001..	27 142	1 168 475	962 979	205 496	5
		2000..	28 692	1 179 702	975 307	204 395	4
		1999..	29 760	1 211 371	990 808	220 563	3
		1998..	32 373	1 201 552	958 676	242 876	2
		1997..	30 306	1 151 516	918 069	233 447	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
334	Computer & electronic product mfg—Con.						
3344	Semiconductor & other electronic component mfg	2001	566 864	29 464 614	23 944 496	5 520 119	2
		2000	614 083	32 193 283	26 387 892	5 805 391	1
		1999	586 221	29 324 556	24 043 676	5 280 880	1
		1998	585 395	27 458 385	22 320 889	5 137 496	1
		1997	587 313	27 196 768	22 142 761	5 054 007	X
33441	Semiconductor & other electronic component mfg	2001	566 864	29 464 614	23 944 496	5 520 119	2
		2000	614 083	32 193 283	26 387 892	5 805 391	1
		1999	586 221	29 324 556	24 043 676	5 280 880	1
		1998	585 395	27 458 385	22 320 889	5 137 496	1
		1997	587 313	27 196 768	22 142 761	5 054 007	X
334411	Electron tube mfg	2001	15 627	838 180	632 994	205 186	1
		2000	16 187	833 567	633 281	200 286	1
		1999	17 619	852 218	663 279	188 938	1
		1998	21 443	949 837	736 774	213 063	1
		1997	21 656	934 729	726 712	208 017	X
334412	Bare printed circuit board mfg	2001	72 333	2 856 401	2 359 198	497 203	4
		2000	85 120	3 536 295	2 982 541	553 754	3
		1999	81 416	3 198 060	2 661 239	536 822	3
		1998	78 774	2 884 516	2 395 819	488 697	1
		1997	72 282	2 532 565	2 110 176	422 389	X
334413	Semiconductor & related device mfg	2001	216 210	14 346 619	11 660 780	2 685 839	4
		2000	229 535	15 852 483	12 976 631	2 875 852	2
		1999	214 667	14 213 767	11 651 290	2 562 478	1
		1998	203 058	12 882 844	10 449 335	2 433 509	1
		1997	199 037	12 371 162	10 101 783	2 269 379	X
334414	Electronic capacitor mfg	2001	15 529	646 213	518 340	127 872	6
		2000	17 940	717 287	576 459	140 828	5
		1999	16 159	609 166	481 969	127 197	3
		1998	18 197	640 899	510 415	130 484	1
		1997	19 317	673 062	539 446	133 616	X
334415	Electronic resistor mfg	2001	8 702	314 803	251 862	62 942	6
		2000	8 761	316 441	254 729	61 712	6
		1999	9 470	331 219	268 259	62 960	4
		1998	10 755	358 087	288 205	69 882	2
		1997	11 624	376 350	305 365	70 985	X
334416	Electronic coil, transformer, & other inductor mfg	2001	15 342	518 310	426 762	91 548	5
		2000	17 282	561 152	463 522	97 630	4
		1999	17 052	524 691	429 551	95 140	3
		1998	19 034	575 387	467 118	108 269	2
		1997	18 999	553 843	450 514	103 329	X
334417	Electronic connector mfg	2001	33 866	1 532 058	1 245 028	287 030	6
		2000	34 347	1 505 013	1 234 381	270 633	3
		1999	32 844	1 380 997	1 128 374	252 623	3
		1998	39 358	1 479 615	1 187 395	292 220	3
		1997	37 589	1 465 298	1 171 568	293 730	X
334418	Printed circuit assembly (electronic assembly) mfg	2001	110 643	5 098 884	4 140 167	958 717	3
		2000	113 989	5 156 874	4 219 974	936 900	3
		1999	105 956	4 696 406	3 865 530	830 876	2
		1998	104 960	4 328 232	3 549 080	779 151	2
		1997	115 076	4 954 244	4 007 610	946 634	X
334419	Other electronic component mfg	2001	78 612	3 313 146	2 709 365	603 781	4
		2000	90 922	3 714 170	3 046 374	667 796	3
		1999	91 038	3 518 031	2 894 186	623 845	2
		1998	89 815	3 358 967	2 736 746	622 221	1
		1997	91 733	3 335 515	2 729 587	605 928	X
3345	Navigational, measuring, medical, & control instruments mfg	2001	468 114	30 640 092	24 461 045	6 179 047	1
		2000	469 843	29 864 959	23 876 911	5 988 047	1
		1999	466 032	28 514 756	23 052 018	5 462 739	1
		1998	483 865	29 430 021	23 668 120	5 761 901	1
		1997	484 438	28 556 358	22 843 455	5 712 903	X
33451	Navigational, measuring, medical, & control instruments mfg	2001	468 114	30 640 092	24 461 045	6 179 047	1
		2000	469 843	29 864 959	23 876 911	5 988 047	1
		1999	466 032	28 514 756	23 052 018	5 462 739	1
		1998	483 865	29 430 021	23 668 120	5 761 901	1
		1997	484 438	28 556 358	22 843 455	5 712 903	X
334510	Electromedical & electrotherapeutic apparatus mfg	2001	54 972	3 381 857	2 769 106	612 751	3
		2000	52 334	3 258 278	2 675 439	582 839	2
		1999	53 237	3 107 498	2 588 044	519 454	2
		1998	55 333	3 201 870	2 670 194	531 676	5
		1997	55 044	3 171 177	2 635 085	536 092	X
334511	Search, detection, navigation, & guidance instrument mfg	2001	178 051	12 939 246	10 042 268	2 896 978	1
		2000	179 659	12 526 654	9 751 693	2 774 961	1
		1999	172 452	11 982 789	9 571 931	2 410 857	1
		1998	188 299	12 867 553	10 257 901	2 609 652	1
		1997	188 325	12 642 907	9 977 629	2 665 278	X
334512	Automatic environmental control mfg	2001	18 022	833 471	646 153	187 318	3
		2000	20 241	900 674	720 002	180 671	2
		1999	20 480	879 010	697 647	181 363	2
		1998	20 477	862 359	670 457	191 901	4
		1997	21 470	858 755	666 464	192 291	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
334	Computer & electronic product mfg—Con.						
3345	Navigational, measuring, medical, & control instruments mfg—Con.						
33451	Navigational, measuring, medical, & control instruments mfg—Con.						
334513	Industrial process control instrument mfg	2001..	42 979	2 348 242	1 936 305	411 937	2
		2000..	44 155	2 369 772	1 945 662	424 110	2
		1999..	45 887	2 397 788	1 959 555	438 233	2
		1998..	46 957	2 460 293	2 013 993	446 300	2
		1997..	48 237	2 412 991	1 958 046	454 945	X
334514	Totalizing fluid meter & counting device mfg	2001..	16 312	926 664	730 665	195 999	4
		2000..	18 172	1 126 929	895 115	231 814	3
		1999..	19 644	1 156 991	937 130	219 861	3
		1998..	16 726	889 658	695 847	193 811	1
		1997..	17 155	873 870	666 032	207 838	X
334515	Electricity measuring & testing instrument mfg	2001..	65 440	4 414 540	3 607 016	807 524	2
		2000..	61 832	4 214 282	3 421 797	792 485	2
		1999..	63 181	3 871 480	3 143 835	727 645	2
		1998..	63 976	4 037 601	3 222 892	814 709	3
		1997..	63 891	3 782 652	3 045 208	737 444	X
334516	Analytical laboratory instrument mfg	2001..	37 050	2 596 031	2 124 888	471 143	3
		2000..	35 914	2 291 303	1 880 064	411 238	3
		1999..	36 113	2 202 445	1 784 706	417 739	2
		1998..	36 278	2 179 165	1 767 898	411 267	1
		1997..	36 820	2 137 988	1 728 708	409 280	X
334517	Irradiation apparatus mfg	2001..	12 952	860 091	706 505	153 587	3
		2000..	13 177	851 234	694 270	156 963	3
		1999..	12 717	834 343	689 773	144 569	2
		1998..	13 929	835 228	692 336	142 893	1
		1997..	13 547	777 695	642 088	135 607	X
334518	Watch, clock, & part mfg	2001..	6 382	250 020	200 238	49 782	10
		2000..	7 026	268 755	218 154	50 601	6
		1999..	7 480	261 517	211 189	50 329	4
		1998..	6 521	250 549	199 384	51 165	2
		1997..	6 333	225 441	178 487	46 954	X
334519	Other measuring & controlling device mfg	2001..	35 953	2 089 929	1 697 901	392 028	4
		2000..	37 333	2 057 079	1 674 713	382 366	4
		1999..	34 840	1 820 897	1 468 209	352 688	4
		1998..	35 368	1 845 746	1 477 220	368 527	1
		1997..	33 616	1 672 882	1 345 708	327 174	X
3346	Mfg & reproducing magnetic & optical media	2001..	41 805	1 852 214	1 514 587	337 626	5
		2000..	43 918	1 913 831	1 575 326	338 506	4
		1999..	46 361	1 961 533	1 613 020	348 513	3
		1998..	58 097	2 426 331	1 990 910	435 422	2
		1997..	53 917	2 268 719	1 853 688	415 031	X
33461	Mfg & reproducing magnetic & optical media	2001..	41 805	1 852 214	1 514 587	337 626	5
		2000..	43 918	1 913 831	1 575 326	338 506	4
		1999..	46 361	1 961 533	1 613 020	348 513	3
		1998..	58 097	2 426 331	1 990 910	435 422	2
		1997..	53 917	2 268 719	1 853 688	415 031	X
334611	Software reproducing	2001..	1 841	74 668	64 813	9 855	88
		2000..	1 835	93 094	80 402	12 692	65
		1999..	2 785	113 341	98 862	14 479	52
		1998..	12 432	544 210	466 143	78 067	5
		1997..	7 868	365 442	302 863	62 579	X
334612	Prerecorded CD (except software), tape, & record reproducing	2001..	28 720	1 136 060	936 646	199 413	5
		2000..	27 053	1 068 937	883 399	185 538	5
		1999..	26 359	1 003 030	832 806	170 224	5
		1998..	26 481	987 115	808 900	178 216	1
		1997..	25 180	904 048	747 551	156 497	X
334613	Magnetic & optical recording media mfg	2001..	11 243	641 486	513 128	128 358	5
		2000..	15 030	751 800	611 525	140 275	4
		1999..	17 217	845 162	681 352	163 810	4
		1998..	19 184	895 006	715 867	179 139	4
		1997..	20 869	999 229	803 274	195 955	X
335	Electrical equipment, appliance, & component mfg	2001..	556 642	24 863 011	19 465 812	5 397 199	1
		2000..	591 319	26 238 436	20 627 889	5 610 547	1
		1999..	592 639	25 412 141	20 040 791	5 371 350	1
		1998..	593 347	24 976 174	19 528 559	5 447 616	1
		1997..	593 802	24 252 037	18 972 741	5 279 296	X
3351	Electric lighting equipment mfg	2001..	68 190	2 781 986	2 236 384	545 602	3
		2000..	74 278	2 917 721	2 348 196	569 525	3
		1999..	78 252	2 940 638	2 367 612	573 027	3
		1998..	72 849	2 730 558	2 170 324	560 234	1
		1997..	74 987	2 766 409	2 204 508	561 901	X
33511	Electric lamp bulb & part mfg	2001..	9 868	595 127	443 515	151 612	11
		2000..	11 520	691 054	516 625	174 429	9
		1999..	12 969	665 134	497 408	167 726	9
		1998..	15 946	745 605	556 505	189 100	1
		1997..	15 903	760 947	574 696	186 251	X
335110	Electric lamp bulb & part mfg	2001..	9 868	595 127	443 515	151 612	11
		2000..	11 520	691 054	516 625	174 429	9
		1999..	12 969	665 134	497 408	167 726	9
		1998..	15 946	745 605	556 505	189 100	1
		1997..	15 903	760 947	574 696	186 251	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
335	Electrical equipment, appliance, & component mfg—Con.						
3351	Electric lighting equipment mfg—Con.						
33512	Lighting fixture mfg	2001..	58 322	2 186 859	1 792 869	393 990	2
		2000..	62 758	2 226 667	1 831 571	395 096	2
		1999..	65 283	2 275 504	1 870 204	405 301	3
		1998..	56 903	1 984 953	1 613 819	371 134	2
		1997..	59 084	2 005 462	1 629 812	375 650	X
335121	Residential electric lighting fixture mfg	2001..	15 224	454 552	387 468	67 084	6
		2000..	17 570	498 867	426 285	72 582	5
		1999..	19 383	539 805	457 838	81 967	7
		1998..	17 871	543 866	456 504	87 363	1
		1997..	17 681	515 454	430 595	84 859	X
335122	Commercial/industrial/institutional electric lighting fixture mfg	2001..	22 395	864 032	699 559	164 473	4
		2000..	23 839	899 385	736 786	162 599	4
		1999..	24 711	886 892	732 607	154 285	4
		1998..	22 273	788 489	632 564	155 926	1
		1997..	23 098	811 444	657 592	153 852	X
335129	Other lighting equipment mfg	2001..	20 703	868 275	705 842	162 433	3
		2000..	21 349	828 415	668 500	159 915	2
		1999..	21 189	848 807	679 759	169 048	3
		1998..	16 759	652 597	524 751	127 846	6
		1997..	18 305	678 564	541 625	136 939	X
3352	Household appliance mfg	2001..	92 554	4 101 485	3 086 306	1 015 179	1
		2000..	99 532	4 357 094	3 287 756	1 069 339	1
		1999..	97 871	4 105 803	3 113 069	992 733	1
		1998..	99 531	4 072 038	3 089 525	982 513	1
		1997..	97 232	3 869 096	2 916 830	952 266	X
33521	Small electrical appliance mfg	2001..	21 615	874 662	668 831	205 831	4
		2000..	24 477	964 706	753 953	210 753	3
		1999..	23 987	862 497	677 382	185 116	3
		1998..	26 419	957 914	742 960	214 954	1
		1997..	27 505	967 089	748 041	219 048	X
335211	Electric housewares & household fan mfg	2001..	10 983	373 650	299 505	74 145	12
		2000..	12 928	449 035	362 171	86 864	7
		1999..	13 823	421 465	333 878	87 588	6
		1998..	15 480	478 357	372 274	106 083	1
		1997..	17 058	525 830	411 389	114 441	X
335212	Household vacuum cleaner mfg	2001..	10 632	501 012	369 326	131 686	1
		2000..	11 549	515 671	391 783	123 889	1
		1999..	10 164	441 032	343 504	97 528	2
		1998..	10 939	479 557	370 685	108 871	1
		1997..	10 447	441 259	336 652	104 607	X
33522	Major appliance mfg	2001..	70 938	3 226 823	2 417 475	809 348	1
		2000..	75 055	3 392 388	2 533 802	858 586	1
		1999..	73 884	3 243 305	2 435 687	807 618	1
		1998..	73 113	3 114 125	2 346 565	767 559	1
		1997..	69 727	2 902 007	2 168 789	733 218	X
335221	Household cooking appliance mfg	2001..	17 470	624 952	493 606	131 347	1
		2000..	18 036	651 629	512 197	139 433	1
		1999..	19 120	703 242	555 294	147 948	1
		1998..	18 237	659 979	523 078	136 900	8
		1997..	17 481	607 675	477 587	130 088	X
335222	Household refrigerator & home freezer mfg	2001..	25 780	1 242 542	910 647	331 895	1
		2000..	27 428	1 330 092	978 161	351 931	1
		1999..	25 683	1 208 004	873 720	334 284	1
		1998..	24 921	1 156 227	837 302	318 925	1
		1997..	24 597	1 117 658	801 717	315 941	X
335224	Household laundry equipment mfg	2001..	14 918	733 011	540 972	192 039	1
		2000..	15 503	768 540	568 853	199 687	1
		1999..	15 915	743 344	554 132	189 213	1
		1998..	16 740	746 796	565 166	181 630	1
		1997..	14 801	639 435	480 076	159 359	X
335228	Other major household appliance mfg	2001..	12 770	626 318	472 251	154 067	5
		2000..	14 088	642 127	474 591	167 536	2
		1999..	13 166	588 715	452 542	136 173	1
		1998..	13 215	551 123	421 019	130 104	1
		1997..	12 848	537 239	409 409	127 830	X
3353	Electrical equipment mfg	2001..	186 759	8 419 741	6 660 220	1 759 521	1
		2000..	196 415	8 931 489	7 073 868	1 857 622	1
		1999..	201 491	8 914 508	7 071 304	1 843 205	1
		1998..	205 756	8 973 245	7 013 831	1 959 414	2
		1997..	209 311	8 758 471	6 845 920	1 912 551	X
33531	Electrical equipment mfg	2001..	186 759	8 419 741	6 660 220	1 759 521	1
		2000..	196 415	8 931 489	7 073 868	1 857 622	1
		1999..	201 491	8 914 508	7 071 304	1 843 205	1
		1998..	205 756	8 973 245	7 013 831	1 959 414	2
		1997..	209 311	8 758 471	6 845 920	1 912 551	X
335311	Power, distribution, & specialty transformer mfg	2001..	24 960	1 096 009	864 412	231 597	3
		2000..	26 227	1 113 843	890 249	223 594	3
		1999..	25 541	1 055 883	839 336	216 547	2
		1998..	26 758	1 052 391	831 006	221 385	10
		1997..	26 897	1 038 573	825 550	213 023	X
335312	Motor & generator mfg	2001..	60 962	2 460 726	1 929 365	531 361	2
		2000..	64 818	2 590 481	2 021 348	569 132	2
		1999..	69 300	2 706 519	2 131 915	574 605	1
		1998..	70 105	2 796 529	2 149 600	646 929	3
		1997..	74 171	2 830 979	2 172 250	658 729	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
335	Electrical equipment, appliance, & component mfg—Con.						
3353	Electrical equipment mfg—Con.						
33531	Electrical equipment mfg—Con.						
335313	Switchgear & switchboard apparatus mfg	2001..	41 851	2 045 647	1 585 762	459 884	3
		2000..	43 878	2 156 194	1 676 859	479 335	3
		1999..	42 929	2 055 142	1 606 796	448 346	2
		1998..	41 859	1 956 615	1 507 992	448 623	3
		1997..	40 358	1 843 863	1 430 985	412 878	X
335314	Relay & industrial control mfg	2001..	58 985	2 817 360	2 280 681	536 679	2
		2000..	61 492	3 070 972	2 485 411	585 560	2
		1999..	63 721	3 096 964	2 493 257	603 706	1
		1998..	67 034	3 167 710	2 525 233	642 477	1
		1997..	67 885	3 045 056	2 417 135	627 921	X
3359	Other electrical equipment & component mfg	2001..	209 140	9 559 799	7 482 902	2 076 897	1
		2000..	221 094	10 032 131	7 918 069	2 114 061	1
		1999..	215 025	9 451 192	7 488 807	1 962 385	1
		1998..	215 210	9 200 333	7 254 879	1 945 454	1
		1997..	212 272	8 858 061	7 005 483	1 852 578	X
33591	Battery mfg	2001..	29 860	1 455 111	1 105 266	349 845	2
		2000..	32 761	1 537 513	1 183 128	354 385	2
		1999..	31 727	1 467 278	1 148 977	318 301	2
		1998..	30 686	1 378 909	1 061 894	317 015	1
		1997..	32 507	1 405 994	1 087 746	318 248	X
335911	Storage battery mfg	2001..	20 387	967 523	737 862	229 661	2
		2000..	22 583	1 064 130	813 254	250 876	2
		1999..	23 029	1 050 268	817 510	232 758	2
		1998..	21 900	982 204	751 880	230 324	2
		1997..	23 318	1 025 364	790 839	234 525	X
335912	Primary battery mfg	2001..	9 473	487 588	367 404	120 184	2
		2000..	10 178	473 383	369 874	103 509	3
		1999..	8 699	417 010	331 468	85 543	2
		1998..	8 786	396 705	310 014	86 691	1
		1997..	9 189	380 630	296 907	83 723	X
33592	Communication & energy wire & cable mfg	2001..	59 745	2 781 316	2 158 955	622 362	2
		2000..	62 070	2 969 012	2 300 707	668 305	2
		1999..	58 000	2 713 150	2 108 390	604 760	1
		1998..	56 126	2 566 398	2 003 744	562 655	1
		1997..	54 987	2 418 507	1 896 479	522 028	X
335921	Fiber optic cable mfg	2001..	10 984	604 762	464 670	140 092	1
		2000..	12 040	627 828	490 180	137 648	2
		1999..	9 860	550 580	430 761	119 819	1
		1998..	8 990	505 639	390 142	115 498	1
		1997..	8 630	471 881	366 045	105 836	X
335929	Other communication & energy wire mfg	2001..	48 761	2 176 555	1 694 285	482 270	3
		2000..	50 030	2 341 184	1 810 527	530 657	3
		1999..	48 140	2 162 570	1 677 628	484 942	1
		1998..	47 136	2 060 759	1 613 602	447 157	1
		1997..	46 357	1 946 626	1 530 434	416 192	X
33593	Wiring device mfg	2001..	62 918	2 717 828	2 134 175	583 654	2
		2000..	68 538	2 812 299	2 232 878	579 422	2
		1999..	69 037	2 759 781	2 189 692	570 089	2
		1998..	70 605	2 736 277	2 166 451	569 826	1
		1997..	68 447	2 631 858	2 080 658	551 200	X
335931	Current-carrying wiring device mfg	2001..	39 973	1 625 926	1 282 760	343 166	3
		2000..	44 449	1 757 162	1 400 116	357 046	3
		1999..	45 479	1 752 188	1 385 488	366 700	3
		1998..	46 125	1 734 456	1 368 999	365 456	1
		1997..	44 907	1 648 513	1 293 583	354 930	X
335932	Noncurrent-carrying wiring device mfg	2001..	22 945	1 091 902	851 415	240 487	1
		2000..	24 090	1 055 137	832 761	222 376	1
		1999..	23 558	1 007 593	804 204	203 389	1
		1998..	24 480	1 001 821	797 451	204 370	1
		1997..	23 540	983 345	787 075	196 270	X
33599	All other electrical equipment & component mfg	2001..	56 617	2 605 544	2 084 507	521 037	3
		2000..	57 725	2 713 306	2 201 356	511 950	2
		1999..	56 261	2 510 983	2 041 748	469 235	2
		1998..	57 794	2 518 749	2 022 791	495 958	1
		1997..	56 331	2 401 702	1 940 600	461 102	X
335991	Carbon & graphite product mfg	2001..	9 174	448 722	342 410	106 311	6
		2000..	9 959	479 201	371 014	108 188	6
		1999..	10 290	489 145	378 493	110 653	4
		1998..	10 562	525 159	397 049	128 109	2
		1997..	10 691	523 243	397 781	125 462	X
335999	All other miscellaneous electrical equipment & component mfg	2001..	47 444	2 156 822	1 742 097	414 725	3
		2000..	47 766	2 234 105	1 830 342	403 762	2
		1999..	45 971	2 021 838	1 663 255	358 582	2
		1998..	47 232	1 993 590	1 625 742	367 849	2
		1997..	45 640	1 878 459	1 542 819	335 640	X
336	Transportation equipment mfg	2001..	1 717 633	106 796 599	80 415 734	26 380 865	1
		2000..	1 837 523	112 624 203	87 032 802	25 591 400	1
		1999..	1 873 543	111 468 103	87 236 224	24 231 879	1
		1998..	1 886 700	105 241 643	82 177 792	23 063 851	1
		1997..	1 842 315	104 066 528	79 616 518	24 450 010	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
336	Transportation equipment mfg—Con.						
3361	Motor vehicle mfg	2001..	213 981	17 999 929	12 646 658	5 353 270	1
		2000..	230 544	19 654 147	14 566 681	5 087 466	1
		1999..	233 052	19 122 053	14 413 748	4 708 305	1
		1998..	234 960	17 082 446	12 957 724	4 124 722	1
		1997..	236 247	18 243 699	13 022 700	5 220 999	X
33611	Automobile & light duty motor vehicle mfg	2001..	186 527	16 289 787	11 434 782	4 855 005	1
		2000..	195 511	17 471 820	12 947 287	4 524 533	1
		1999..	196 035	16 816 100	12 681 263	4 134 837	1
		1998..	201 366	15 200 669	11 518 511	3 682 158	1
		1997..	207 838	16 589 657	11 804 330	4 785 327	X
336111	Automobile mfg	2001..	91 062	7 590 214	5 387 755	2 202 459	1
		2000..	94 703	8 028 156	6 013 110	2 015 046	1
		1999..	96 744	7 738 002	5 861 174	1 876 828	1
		1998..	109 196	8 092 613	6 054 334	2 038 279	1
		1997..	113 820	8 981 236	6 404 445	2 576 791	X
336112	Light truck & utility vehicle mfg	2001..	95 465	8 699 573	6 047 028	2 652 546	1
		2000..	100 808	9 443 664	6 934 177	2 509 487	1
		1999..	99 291	9 078 098	6 820 089	2 258 009	1
		1998..	92 170	7 108 055	5 464 176	1 643 879	1
		1997..	94 018	7 608 421	5 399 885	2 208 536	X
33612	Heavy duty truck mfg	2001..	27 454	1 710 141	1 211 876	498 266	1
		2000..	35 033	2 182 326	1 619 393	562 933	1
		1999..	37 018	2 305 953	1 732 485	573 468	1
		1998..	33 594	1 881 778	1 439 213	442 564	1
		1997..	28 409	1 654 042	1 218 370	435 672	X
336120	Heavy duty truck mfg	2001..	27 454	1 710 141	1 211 876	498 266	1
		2000..	35 033	2 182 326	1 619 393	562 933	1
		1999..	37 018	2 305 953	1 732 485	573 468	1
		1998..	33 594	1 881 778	1 439 213	442 564	1
		1997..	28 409	1 654 042	1 218 370	435 672	X
3362	Motor vehicle body & trailer mfg	2001..	123 120	4 619 477	3 807 348	812 129	2
		2000..	136 658	5 061 788	4 205 952	855 836	2
		1999..	137 608	4 937 270	4 109 735	827 535	2
		1998..	129 031	4 399 386	3 631 182	768 204	1
		1997..	125 015	4 163 604	3 386 084	777 520	X
33621	Motor vehicle body & trailer mfg	2001..	123 120	4 619 477	3 807 348	812 129	2
		2000..	136 658	5 061 788	4 205 952	855 836	2
		1999..	137 608	4 937 270	4 109 735	827 535	2
		1998..	129 031	4 399 386	3 631 182	768 204	1
		1997..	125 015	4 163 604	3 386 084	777 520	X
336211	Motor vehicle body mfg	2001..	41 771	1 648 274	1 325 193	323 081	3
		2000..	43 844	1 718 037	1 423 886	294 151	3
		1999..	43 170	1 654 562	1 374 014	280 548	3
		1998..	43 306	1 526 721	1 267 038	259 683	3
		1997..	42 773	1 496 394	1 225 282	271 112	X
336212	Truck trailer mfg	2001..	26 360	1 009 054	824 686	184 368	3
		2000..	34 260	1 253 874	1 026 407	227 467	3
		1999..	34 984	1 212 752	988 478	224 273	4
		1998..	31 909	1 115 081	905 967	209 114	2
		1997..	30 648	1 076 221	835 977	240 244	X
336213	Motor home mfg	2001..	16 102	597 323	501 891	95 432	2
		2000..	18 532	673 575	556 291	117 284	4
		1999..	20 391	773 785	651 724	122 062	3
		1998..	18 306	655 122	542 184	112 938	1
		1997..	17 801	599 548	499 374	100 174	X
336214	Travel trailer & camper mfg	2001..	38 887	1 364 827	1 155 578	209 249	4
		2000..	40 023	1 416 301	1 199 368	216 934	4
		1999..	39 062	1 296 170	1 095 519	200 651	3
		1998..	35 510	1 102 462	915 992	186 469	2
		1997..	33 793	991 441	825 451	165 990	X
3363	Motor vehicle parts mfg	2001..	736 003	42 320 887	31 500 609	10 820 278	1
		2000..	802 575	46 341 889	35 316 707	11 025 182	1
		1999..	799 174	44 521 294	34 606 160	9 915 134	1
		1998..	789 564	40 645 218	31 382 928	9 262 290	1
		1997..	779 913	41 187 305	30 960 765	10 226 540	X
33631	Motor vehicle gasoline engine & engine parts mfg	2001..	88 635	5 772 826	4 287 906	1 484 920	2
		2000..	96 349	6 176 026	4 723 221	1 452 804	2
		1999..	97 551	6 102 457	4 726 986	1 375 471	1
		1998..	98 593	5 486 867	4 214 555	1 272 312	1
		1997..	97 823	5 517 721	4 184 639	1 333 082	X
336311	Carburetor, piston, piston ring, & valve mfg	2001..	16 656	1 004 038	745 335	258 703	5
		2000..	17 748	1 002 815	770 909	231 906	5
		1999..	17 341	933 112	735 552	197 560	4
		1998..	17 706	908 790	709 099	199 691	3
		1997..	17 241	867 001	663 961	203 040	X
336312	Gasoline engine & engine parts mfg	2001..	71 979	4 768 787	3 542 570	1 226 217	2
		2000..	78 600	5 173 211	3 952 312	1 220 898	2
		1999..	80 209	5 169 345	3 991 435	1 177 911	1
		1998..	80 887	4 578 077	3 505 457	1 072 620	1
		1997..	80 582	4 650 720	3 520 678	1 130 042	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
336	Transportation equipment mfg—Con.						
3363	Motor vehicle parts mfg—Con.						
33632	Motor vehicle electrical & electronic equipment mfg	2001..	109 477	5 697 960	4 312 399	1 385 560	5
		2000..	117 619	5 939 796	4 549 045	1 390 751	5
		1999..	117 577	5 642 803	4 359 549	1 283 255	4
		1998..	114 955	5 105 917	3 928 384	1 177 533	1
		1997..	114 196	5 362 193	3 981 222	1 380 971	X
336321	Vehicular lighting equipment mfg	2001..	14 665	818 239	640 350	177 889	3
		2000..	15 055	831 912	646 218	185 694	2
		1999..	17 233	857 102	681 882	175 219	3
		1998..	15 660	790 384	603 249	187 135	1
		1997..	16 624	867 685	631 881	235 804	X
336322	Other motor vehicle electrical & electronic equipment mfg	2001..	94 812	4 879 720	3 672 049	1 207 671	6
		2000..	102 564	5 107 884	3 902 827	1 205 057	6
		1999..	100 345	4 785 702	3 677 666	1 108 035	5
		1998..	99 295	4 315 534	3 325 135	990 398	1
		1997..	97 572	4 494 508	3 349 341	1 145 167	X
33633	Motor vehicle steering & suspension component (except spring) mfg	2001..	47 015	2 924 214	2 207 265	716 948	2
		2000..	50 972	3 301 396	2 505 777	795 620	2
		1999..	48 747	3 202 123	2 508 828	693 295	1
		1998..	47 682	2 970 795	2 269 812	700 983	1
		1997..	48 676	3 168 210	2 341 273	826 937	X
336330	Motor vehicle steering & suspension component (except spring) mfg	2001..	47 015	2 924 214	2 207 265	716 948	2
		2000..	50 972	3 301 396	2 505 777	795 620	2
		1999..	48 747	3 202 123	2 508 828	693 295	1
		1998..	47 682	2 970 795	2 269 812	700 983	1
		1997..	48 676	3 168 210	2 341 273	826 937	X
33634	Motor vehicle brake system mfg	2001..	38 736	1 967 511	1 420 081	547 430	1
		2000..	44 331	2 141 922	1 610 497	531 426	2
		1999..	44 638	2 196 411	1 690 889	505 522	2
		1998..	45 807	2 041 012	1 551 511	489 501	1
		1997..	43 146	1 998 779	1 503 210	495 569	X
336340	Motor vehicle brake system mfg	2001..	38 736	1 967 511	1 420 081	547 430	1
		2000..	44 331	2 141 922	1 610 497	531 426	2
		1999..	44 638	2 196 411	1 690 889	505 522	2
		1998..	45 807	2 041 012	1 551 511	489 501	1
		1997..	43 146	1 998 779	1 503 210	495 569	X
33635	Motor vehicle transmission & power train parts mfg	2001..	98 753	7 199 941	5 178 072	2 021 869	2
		2000..	112 244	8 270 020	6 146 968	2 123 053	1
		1999..	111 338	7 709 603	5 913 253	1 796 350	1
		1998..	102 538	6 713 121	5 182 986	1 530 135	1
		1997..	100 605	6 635 881	4 982 175	1 653 706	X
336350	Motor vehicle transmission & power train parts mfg	2001..	98 753	7 199 941	5 178 072	2 021 869	2
		2000..	112 244	8 270 020	6 146 968	2 123 053	1
		1999..	111 338	7 709 603	5 913 253	1 796 350	1
		1998..	102 538	6 713 121	5 182 986	1 530 135	1
		1997..	100 605	6 635 881	4 982 175	1 653 706	X
33636	Motor vehicle seating & interior trim mfg	2001..	52 670	2 200 362	1 674 559	525 803	2
		2000..	58 028	2 634 887	2 028 678	606 209	1
		1999..	55 455	2 491 145	1 972 061	519 084	1
		1998..	48 898	2 078 622	1 636 272	442 349	1
		1997..	47 885	1 994 067	1 532 785	461 282	X
336360	Motor vehicle seating & interior trim mfg	2001..	52 670	2 200 362	1 674 559	525 803	2
		2000..	58 028	2 634 887	2 028 678	606 209	1
		1999..	55 455	2 491 145	1 972 061	519 084	1
		1998..	48 898	2 078 622	1 636 272	442 349	1
		1997..	47 885	1 994 067	1 532 785	461 282	X
33637	Motor vehicle metal stamping	2001..	112 488	7 252 927	5 391 757	1 861 170	2
		2000..	117 012	7 816 758	6 027 139	1 789 618	2
		1999..	118 695	7 477 171	5 927 922	1 549 249	1
		1998..	123 214	7 017 831	5 461 784	1 556 047	1
		1997..	126 668	7 572 037	5 642 120	1 929 917	X
336370	Motor vehicle metal stamping	2001..	112 488	7 252 927	5 391 757	1 861 170	2
		2000..	117 012	7 816 758	6 027 139	1 789 618	2
		1999..	118 695	7 477 171	5 927 922	1 549 249	1
		1998..	123 214	7 017 831	5 461 784	1 556 047	1
		1997..	126 668	7 572 037	5 642 120	1 929 917	X
33639	Other motor vehicle parts mfg	2001..	188 229	9 305 146	7 028 570	2 276 577	2
		2000..	206 021	10 061 084	7 725 383	2 335 701	2
		1999..	205 173	9 699 581	7 506 672	2 192 908	2
		1998..	207 877	9 231 054	7 137 624	2 093 430	1
		1997..	200 914	8 938 417	6 793 341	2 145 076	X
336391	Motor vehicle air-conditioning mfg	2001..	19 594	1 403 411	1 054 336	349 075	1
		2000..	20 393	1 377 644	1 058 060	319 584	1
		1999..	21 477	1 525 347	1 169 656	355 691	1
		1998..	21 310	1 334 116	999 087	335 029	1
		1997..	21 522	1 479 610	1 053 943	425 667	X
336399	All other motor vehicle parts mfg	2001..	168 635	7 901 735	5 974 234	1 927 501	2
		2000..	185 628	8 683 440	6 667 323	2 016 116	2
		1999..	183 696	8 174 234	6 337 017	1 837 217	2
		1998..	186 567	7 896 938	6 138 537	1 758 401	1
		1997..	179 392	7 458 807	5 739 398	1 719 409	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
336	Transportation equipment mfg—Con.						
3364	Aerospace product & parts mfg	2001..	433 139	31 812 888	24 541 701	7 271 187	1
		2000..	443 776	31 379 242	24 843 971	6 535 271	1
		1999..	484 659	33 134 184	26 381 357	6 752 826	1
		1998..	517 014	33 774 222	26 848 225	6 925 997	1
		1997..	487 114	31 488 440	25 159 567	6 328 873	X
33641	Aerospace product & parts mfg	2001..	433 139	31 812 888	24 541 701	7 271 187	1
		2000..	443 776	31 379 242	24 843 971	6 535 271	1
		1999..	484 659	33 134 184	26 381 357	6 752 826	1
		1998..	517 014	33 774 222	26 848 225	6 925 997	1
		1997..	487 114	31 488 440	25 159 567	6 328 873	X
336411	Aircraft mfg	2001..	172 708	12 514 081	9 468 561	3 045 520	1
		2000..	183 060	13 052 420	10 409 486	2 642 934	1
		1999..	194 158	13 377 104	10 709 911	2 667 194	1
		1998..	213 148	14 243 678	11 289 840	2 953 837	1
		1997..	202 491	13 366 721	10 839 372	2 527 349	X
336412	Aircraft engine & engine parts mfg	2001..	79 914	5 705 192	4 514 507	1 190 685	2
		2000..	81 961	5 731 646	4 503 839	1 227 807	1
		1999..	85 111	5 726 085	4 520 839	1 205 246	1
		1998..	84 617	5 435 596	4 292 039	1 143 558	1
		1997..	84 373	5 416 713	4 298 767	1 117 946	X
336413	Other aircraft part & auxiliary equipment mfg	2001..	123 032	8 400 799	6 438 854	1 961 946	1
		2000..	119 727	7 748 740	6 048 126	1 700 614	2
		1999..	132 663	7 973 109	6 306 306	1 666 803	2
		1998..	140 978	8 170 998	6 464 831	1 706 167	1
		1997..	124 677	7 129 164	5 574 824	1 554 340	X
336414	Guided missile & space vehicle mfg	2001..	36 649	3 485 255	2 821 132	664 123	1
		2000..	38 295	3 317 126	2 682 083	635 043	1
		1999..	48 748	4 391 907	3 517 507	874 400	1
		1998..	53 085	4 195 342	3 429 407	765 935	1
		1997..	51 398	3 900 580	3 123 246	777 334	X
336415	Guided missile & space vehicle propulsion unit & parts mfg	2001..	15 324	1 342 284	1 020 983	321 301	1
		2000..	14 688	1 151 317	898 320	252 997	1
		1999..	17 911	1 306 048	1 038 530	267 518	1
		1998..	18 430	1 345 755	1 068 768	276 987	1
		1997..	17 738	1 305 427	1 031 920	273 507	X
336419	Other guided missile & space vehicle parts & auxiliary equip mfg	2001..	5 512	365 277	277 665	87 612	1
		2000..	6 044	377 993	302 118	75 875	1
		1999..	6 068	359 931	288 265	71 665	1
		1998..	6 755	382 853	303 339	79 514	1
		1997..	6 437	369 835	291 438	78 397	X
3365	Railroad rolling stock mfg	2001..	34 719	1 898 270	1 449 784	448 485	2
		2000..	35 578	1 941 580	1 480 181	461 399	2
		1999..	38 511	2 011 352	1 532 969	478 383	2
		1998..	37 351	1 895 103	1 440 110	454 993	1
		1997..	34 012	1 739 073	1 319 135	419 938	X
33651	Railroad rolling stock mfg	2001..	34 719	1 898 270	1 449 784	448 485	2
		2000..	35 578	1 941 580	1 480 181	461 399	2
		1999..	38 511	2 011 352	1 532 969	478 383	2
		1998..	37 351	1 895 103	1 440 110	454 993	1
		1997..	34 012	1 739 073	1 319 135	419 938	X
336510	Railroad rolling stock mfg	2001..	34 719	1 898 270	1 449 784	448 485	2
		2000..	35 578	1 941 580	1 480 181	461 399	2
		1999..	38 511	2 011 352	1 532 969	478 383	2
		1998..	37 351	1 895 103	1 440 110	454 993	1
		1997..	34 012	1 739 073	1 319 135	419 938	X
3366	Ship & boat building	2001..	134 621	6 088 210	4 825 268	1 262 943	3
		2000..	144 951	6 269 599	5 012 299	1 257 300	3
		1999..	139 851	5 925 748	4 707 901	1 217 846	3
		1998..	137 756	5 632 955	4 461 362	1 171 594	1
		1997..	138 237	5 529 868	4 382 998	1 146 870	X
33661	Ship & boat building	2001..	134 621	6 088 210	4 825 268	1 262 943	3
		2000..	144 951	6 269 599	5 012 299	1 257 300	3
		1999..	139 851	5 925 748	4 707 901	1 217 846	3
		1998..	137 756	5 632 955	4 461 362	1 171 594	1
		1997..	138 237	5 529 868	4 382 998	1 146 870	X
336611	Ship building & repairing	2001..	84 458	4 396 335	3 439 474	956 861	3
		2000..	87 527	4 366 462	3 435 806	930 656	4
		1999..	88 963	4 269 999	3 336 632	933 368	4
		1998..	94 761	4 289 906	3 347 525	942 380	1
		1997..	97 065	4 290 308	3 353 414	936 894	X
336612	Boat building	2001..	50 163	1 691 875	1 385 794	306 082	3
		2000..	57 424	1 903 137	1 576 493	326 644	2
		1999..	50 888	1 655 748	1 371 270	284 479	2
		1998..	42 995	1 343 050	1 113 836	229 213	1
		1997..	41 172	1 239 560	1 029 584	209 976	X
3369	Other transportation equipment mfg	2001..	42 051	2 056 938	1 644 366	412 572	6
		2000..	43 440	1 975 959	1 607 010	368 948	5
		1999..	40 688	1 816 203	1 484 354	331 849	2
		1998..	41 024	1 812 312	1 456 262	356 050	1
		1997..	41 777	1 714 539	1 385 269	329 270	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
336	Transportation equipment mfg—Con.						
3369	Other transportation equipment mfg—Con.						
33699	Other transportation equipment mfg	2001..	42 051	2 056 938	1 644 366	412 572	6
		2000..	43 440	1 975 959	1 607 010	368 948	5
		1999..	40 688	1 816 203	1 484 354	331 849	2
		1998..	41 024	1 812 312	1 456 262	356 050	1
		1997..	41 777	1 714 539	1 385 269	329 270	X
336991	Motorcycle, bicycle, & parts mfg	2001..	15 033	805 359	639 319	166 040	6
		2000..	14 601	721 496	583 922	137 574	5
		1999..	14 817	704 335	576 106	128 230	4
		1998..	16 238	748 240	620 300	127 939	2
		1997..	17 151	748 428	622 286	126 142	X
336992	Military armored vehicle, tank, & tank component mfg	2001..	4 110	308 761	252 055	56 706	1
		2000..	4 378	306 732	251 402	55 330	1
		1999..	4 602	325 068	264 254	60 814	1
		1998..	5 042	361 027	257 996	103 031	1
		1997..	5 773	353 246	267 525	85 721	X
336999	All other transportation equipment mfg	2001..	22 908	942 818	752 992	189 826	11
		2000..	24 461	947 731	771 686	176 045	9
		1999..	21 269	786 800	643 994	142 806	2
		1998..	19 744	703 045	577 966	125 079	2
		1997..	18 853	612 865	495 458	117 407	X
337	Furniture & related product mfg	2001..	607 959	20 733 068	16 950 041	3 783 027	1
		2000..	641 000	21 425 156	17 613 061	3 812 095	1
		1999..	627 777	20 552 622	16 881 512	3 671 109	1
		1998..	625 436	19 630 019	16 047 844	3 582 175	1
		1997..	603 668	18 357 228	14 986 222	3 371 006	X
3371	Household & institutional furniture & kitchen cabinet mfg	2001..	395 718	12 246 224	10 107 391	2 138 833	1
		2000..	415 400	12 581 164	10 465 861	2 115 303	1
		1999..	408 183	12 135 880	10 082 948	2 052 931	1
		1998..	403 815	11 355 021	9 408 104	1 946 917	1
		1997..	388 438	10 605 302	8 767 969	1 837 333	X
33711	Wood kitchen cabinet & counter top mfg	2001..	115 803	3 796 747	3 169 476	627 271	2
		2000..	115 348	3 634 389	3 045 303	589 086	2
		1999..	106 635	3 314 234	2 774 165	540 069	2
		1998..	104 932	2 985 576	2 486 496	499 081	2
		1997..	99 266	2 797 724	2 320 124	477 600	X
337110	Wood kitchen cabinet & counter top mfg	2001..	115 803	3 796 747	3 169 476	627 271	2
		2000..	115 348	3 634 389	3 045 303	589 086	2
		1999..	106 635	3 314 234	2 774 165	540 069	2
		1998..	104 932	2 985 576	2 486 496	499 081	2
		1997..	99 266	2 797 724	2 320 124	477 600	X
33712	Household & institutional furniture mfg	2001..	279 915	8 449 477	6 937 916	1 511 562	1
		2000..	300 053	8 946 775	7 420 558	1 526 217	1
		1999..	301 548	8 821 646	7 308 784	1 512 862	1
		1998..	298 882	8 369 444	6 921 608	1 447 836	1
		1997..	289 172	7 807 578	6 447 845	1 359 733	X
337121	Upholstered household furniture mfg	2001..	88 025	2 629 532	2 189 966	439 566	2
		2000..	94 248	2 759 199	2 325 714	433 485	2
		1999..	94 010	2 692 210	2 273 880	418 331	2
		1998..	92 426	2 505 312	2 099 641	405 671	1
		1997..	89 215	2 381 794	2 001 160	380 634	X
337122	Nonupholstered wood household furniture mfg	2001..	122 774	3 453 427	2 817 105	636 321	2
		2000..	133 884	3 746 029	3 100 569	645 460	2
		1999..	134 169	3 726 443	3 058 177	668 265	2
		1998..	132 404	3 549 958	2 922 443	627 516	1
		1997..	127 703	3 253 118	2 674 409	578 709	X
337124	Metal household furniture mfg	2001..	20 896	658 471	531 851	126 620	4
		2000..	22 467	663 247	538 009	125 238	4
		1999..	21 433	626 135	511 298	114 837	4
		1998..	23 704	679 684	543 026	136 658	3
		1997..	22 827	627 309	505 291	122 018	X
337125	Household furniture (except wood & metal) mfg	2001..	4 488	142 888	117 287	25 601	9
		2000..	4 923	148 080	125 630	22 450	8
		1999..	5 123	147 126	127 594	19 533	6
		1998..	4 058	109 592	93 465	16 127	5
		1997..	4 619	137 577	110 506	27 071	X
337127	Institutional furniture mfg	2001..	40 441	1 469 315	1 203 782	265 534	3
		2000..	41 047	1 536 202	1 254 317	281 885	3
		1999..	42 826	1 520 102	1 250 652	269 450	2
		1998..	41 927	1 412 763	1 173 177	239 587	4
		1997..	40 442	1 298 127	1 069 509	228 618	X
337129	Wood television, radio, & sewing machine cabinet mfg	2001..	3 291	95 844	77 925	17 919	10
		2000..	3 483	94 018	76 320	17 698	10
		1999..	3 987	109 630	87 184	22 446	5
		1998..	4 362	112 135	89 857	22 278	2
		1997..	4 366	109 653	86 970	22 683	X
3372	Office furniture (including fixtures) mfg	2001..	166 686	6 887 738	5 538 300	1 349 438	2
		2000..	177 238	7 210 959	5 815 694	1 395 265	2
		1999..	173 446	6 885 206	5 552 511	1 332 695	2
		1998..	176 912	6 832 987	5 489 683	1 343 304	1
		1997..	172 723	6 436 146	5 172 846	1 263 300	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
337	Furniture & related product mfg—Con.						
3372	Office furniture (including fixtures) mfg—Con.						
33721	Office furniture (including fixtures) mfg	2001	166 686	6 887 738	5 538 300	1 349 438	2
		2000	177 238	7 210 959	5 815 694	1 395 265	2
		1999	173 446	6 885 206	5 552 511	1 332 695	2
		1998	176 912	6 832 987	5 489 683	1 343 304	1
		1997	172 723	6 436 146	5 172 846	1 263 300	X
337211	Wood office furniture mfg	2001	30 823	1 109 600	907 550	202 050	5
		2000	32 121	1 188 161	965 806	222 356	5
		1999	30 115	1 045 826	853 209	192 617	4
		1998	30 535	978 797	800 091	178 707	1
		1997	30 106	938 918	766 094	172 824	X
337212	Custom architectural woodwork & millwork mfg	2001	24 579	945 452	796 481	148 971	4
		2000	26 746	1 062 729	890 048	172 681	4
		1999	25 442	965 882	804 162	161 720	3
		1998	25 248	960 354	793 437	166 918	7
		1997	24 390	874 124	719 926	154 198	X
337214	Office furniture (except wood) mfg	2001	39 483	2 191 097	1 641 125	549 972	1
		2000	43 089	2 230 080	1 690 560	539 520	1
		1999	43 118	2 201 465	1 696 107	505 357	1
		1998	45 803	2 241 786	1 713 334	528 452	1
		1997	44 414	2 103 425	1 625 080	478 345	X
337215	Showcase, partition, shelving, & locker mfg	2001	71 800	2 641 589	2 193 144	448 445	5
		2000	75 282	2 729 988	2 269 280	460 709	5
		1999	74 771	2 672 034	2 199 033	473 001	5
		1998	75 325	2 652 050	2 182 822	469 228	2
		1997	73 813	2 519 679	2 061 746	457 933	X
3379	Other furniture related product mfg	2001	45 556	1 599 106	1 304 350	294 756	4
		2000	48 362	1 633 033	1 331 506	301 527	3
		1999	46 148	1 531 536	1 246 053	285 483	4
		1998	44 709	1 442 011	1 150 057	291 954	2
		1997	42 507	1 315 780	1 045 407	270 373	X
33791	Mattress mfg	2001	25 309	918 018	744 661	173 357	3
		2000	26 322	924 090	755 945	168 145	3
		1999	24 532	849 279	689 855	159 424	2
		1998	23 897	827 345	662 960	164 385	4
		1997	22 971	759 313	609 570	149 743	X
337910	Mattress mfg	2001	25 309	918 018	744 661	173 357	3
		2000	26 322	924 090	755 945	168 145	3
		1999	24 532	849 279	689 855	159 424	2
		1998	23 897	827 345	662 960	164 385	4
		1997	22 971	759 313	609 570	149 743	X
33792	Blind & shade mfg	2001	20 246	681 087	559 689	121 399	8
		2000	22 040	708 943	575 561	133 382	7
		1999	21 616	682 257	556 198	126 059	8
		1998	20 812	614 666	487 097	127 569	1
		1997	19 536	556 467	435 837	120 630	X
337920	Blind & shade mfg	2001	20 246	681 087	559 689	121 399	8
		2000	22 040	708 943	575 561	133 382	7
		1999	21 616	682 257	556 198	126 059	8
		1998	20 812	614 666	487 097	127 569	1
		1997	19 536	556 467	435 837	120 630	X
339	Miscellaneous mfg	2001	725 077	30 505 365	24 988 556	5 516 809	1
		2000	745 291	30 137 993	24 718 407	5 419 585	1
		1999	738 039	28 639 098	23 468 611	5 170 487	1
		1998	749 480	28 125 721	22 913 245	5 212 476	1
		1997	725 396	26 552 124	21 618 204	4 933 920	X
3391	Medical equipment & supplies mfg	2001	305 107	15 014 533	12 170 669	2 843 864	1
		2000	307 529	14 519 606	11 762 265	2 757 341	1
		1999	304 177	13 773 631	11 156 147	2 617 483	1
		1998	312 553	13 751 073	11 078 106	2 672 968	1
		1997	291 522	12 456 070	10 008 144	2 447 926	X
33911	Medical equipment & supplies mfg	2001	305 107	15 014 533	12 170 669	2 843 864	1
		2000	307 529	14 519 606	11 762 265	2 757 341	1
		1999	304 177	13 773 631	11 156 147	2 617 483	1
		1998	312 553	13 751 073	11 078 106	2 672 968	1
		1997	291 522	12 456 070	10 008 144	2 447 926	X
339111	Laboratory apparatus & furniture mfg	2001	16 452	919 798	765 095	154 703	5
		2000	15 764	859 286	716 351	142 935	5
		1999	15 461	772 035	642 453	129 582	4
		1998	16 540	764 188	630 392	133 796	2
		1997	16 626	752 645	609 237	143 408	X
339112	Surgical & medical instrument mfg	2001	102 273	5 683 306	4 636 658	1 046 648	3
		2000	103 653	5 426 574	4 421 627	1 004 946	3
		1999	105 956	5 244 079	4 294 525	949 554	3
		1998	108 837	5 266 511	4 257 081	1 009 430	1
		1997	105 016	4 979 698	4 015 772	963 926	X
339113	Surgical appliance & supplies mfg	2001	96 914	4 853 373	3 858 504	994 868	2
		2000	98 956	4 857 143	3 860 516	996 627	2
		1999	93 765	4 470 003	3 540 461	929 541	2
		1998	91 574	4 391 224	3 488 634	902 589	3
		1997	85 646	3 745 720	2 982 742	762 978	X
339114	Dental equipment & supplies mfg	2001	17 734	849 005	696 790	152 215	7
		2000	17 157	801 787	656 665	145 121	7
		1999	18 137	808 379	662 509	145 870	4
		1998	18 495	792 540	643 955	148 584	2
		1997	17 806	750 721	605 765	144 956	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
339	Miscellaneous mfg—Con.						
3391	Medical equipment & supplies mfg—Con.						
33911	Medical equipment & supplies mfg—Con.						
339115	Ophthalmic goods mfg	2001..	23 766	1 089 272	867 963	221 309	5
		2000..	26 059	1 081 271	862 103	219 168	3
		1999..	27 413	1 061 813	860 468	201 345	4
		1998..	25 499	975 049	786 627	188 422	1
		1997..	25 274	954 948	770 994	183 954	X
339116	Dental laboratories	2001..	47 968	1 619 779	1 345 659	274 120	2
		2000..	45 940	1 493 546	1 245 002	248 544	2
		1999..	43 445	1 417 322	1 155 731	261 591	2
		1998..	51 607	1 561 563	1 271 416	290 147	1
		1997..	41 154	1 272 338	1 023 634	248 704	X
3399	Other miscellaneous mfg	2001..	419 970	15 490 831	12 817 886	2 672 945	1
		2000..	437 762	15 618 387	12 956 143	2 662 244	1
		1999..	433 863	14 865 467	12 312 464	2 553 003	1
		1998..	436 927	14 374 648	11 835 140	2 539 508	1
		1997..	433 874	14 096 054	11 610 060	2 485 994	X
33991	Jewelry & silverware mfg	2001..	61 091	1 998 096	1 657 512	340 585	3
		2000..	65 845	2 147 781	1 792 518	355 263	3
		1999..	63 163	1 996 949	1 671 122	325 827	2
		1998..	59 460	1 865 493	1 554 249	311 244	2
		1997..	61 104	1 840 635	1 531 249	309 386	X
339911	Jewelry (except costume) mfg	2001..	37 347	1 277 545	1 076 608	200 937	5
		2000..	40 108	1 334 513	1 127 036	207 477	4
		1999..	37 307	1 228 712	1 039 351	189 361	2
		1998..	32 963	1 059 088	892 326	166 762	3
		1997..	34 731	1 057 032	888 911	168 121	X
339912	Silverware & plated ware mfg	2001..	4 528	161 604	128 736	32 868	4
		2000..	5 626	215 430	173 776	41 654	5
		1999..	5 510	195 582	157 493	38 089	2
		1998..	6 357	250 194	205 640	44 554	2
		1997..	6 378	224 011	183 237	40 774	X
339913	Jewelers' material & lapidary work mfg	2001..	4 834	168 532	134 317	34 215	4
		2000..	5 258	178 610	145 830	32 780	2
		1999..	5 083	169 958	137 551	32 407	2
		1998..	5 503	149 380	122 170	27 209	5
		1997..	5 275	159 055	128 585	30 470	X
339914	Costume jewelry & novelty mfg	2001..	14 382	390 415	317 851	72 564	4
		2000..	14 852	419 226	345 875	73 351	4
		1999..	15 263	402 698	336 727	65 971	3
		1998..	14 636	406 831	334 112	72 719	3
		1997..	14 720	400 537	330 516	70 021	X
33992	Sporting & athletic goods mfg	2001..	69 059	2 542 114	2 088 406	453 708	3
		2000..	71 159	2 528 121	2 078 308	449 813	3
		1999..	64 557	2 188 737	1 796 553	392 184	2
		1998..	67 914	2 197 928	1 787 377	410 551	2
		1997..	68 586	2 233 916	1 826 631	407 285	X
339920	Sporting & athletic goods mfg	2001..	69 059	2 542 114	2 088 406	453 708	3
		2000..	71 159	2 528 121	2 078 308	449 813	3
		1999..	64 557	2 188 737	1 796 553	392 184	2
		1998..	67 914	2 197 928	1 787 377	410 551	2
		1997..	68 586	2 233 916	1 826 631	407 285	X
33993	Doll, toy, & game mfg	2001..	23 411	828 665	668 627	160 038	4
		2000..	25 711	859 537	699 161	160 376	4
		1999..	27 540	861 448	701 082	160 366	3
		1998..	31 798	983 874	801 232	182 642	2
		1997..	32 286	991 794	809 666	182 128	X
339931	Doll & stuffed toy mfg	2001..	2 597	72 262	62 358	9 904	7
		2000..	2 743	77 118	65 885	11 233	12
		1999..	3 278	82 993	70 521	12 473	11
		1998..	3 638	77 268	67 080	10 188	9
		1997..	3 386	72 337	63 582	8 755	X
339932	Game, toy, & children's vehicle mfg	2001..	20 813	756 403	606 269	150 134	4
		2000..	22 968	782 419	633 276	149 144	4
		1999..	24 262	778 455	630 561	147 894	3
		1998..	28 160	906 605	734 152	172 454	2
		1997..	28 900	919 457	746 084	173 373	X
33994	Office supplies (except paper) mfg	2001..	24 693	909 363	739 361	170 002	3
		2000..	26 405	954 235	767 566	186 668	3
		1999..	27 234	955 588	767 135	188 453	2
		1998..	29 592	1 002 053	812 939	189 113	2
		1997..	30 138	994 734	799 867	194 867	X
339941	Pen & mechanical pencil mfg	2001..	7 297	298 805	236 019	62 786	1
		2000..	8 153	337 393	265 613	71 781	1
		1999..	8 120	323 641	255 494	68 147	1
		1998..	8 816	354 991	283 311	71 681	5
		1997..	8 198	324 583	255 377	69 206	X
339942	Lead pencil & art good mfg	2001..	6 234	214 853	173 535	41 318	6
		2000..	6 449	217 731	172 750	44 980	6
		1999..	6 763	231 388	182 058	49 331	5
		1998..	7 313	252 514	201 377	51 137	1
		1997..	8 255	263 865	207 661	56 204	X
339943	Marking device mfg	2001..	6 859	226 312	189 721	36 592	10
		2000..	7 211	226 866	188 922	37 944	10
		1999..	7 454	233 563	194 885	38 679	8
		1998..	8 068	228 240	193 419	34 822	1
		1997..	8 012	229 317	194 792	34 525	X

See footnotes at end of table.

Table 3. **Employment and Labor Costs for Operating Manufacturing Establishments by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		All employees[1]	Compensation ($1,000) Total	Payroll	Total fringe benefits	Relative standard error of estimate[2] (percent) for column—
			A	B	C	D	D
339	Miscellaneous mfg—Con.						
3399	Other miscellaneous mfg—Con.						
33994	Office supplies (except paper) mfg—Con.						
339944	Carbon paper & inked ribbon mfg	2001	4 303	169 392	140 086	29 306	5
		2000	4 592	172 245	140 282	31 963	5
		1999	4 898	166 995	134 699	32 296	4
		1998	5 394	166 307	134 833	31 474	1
		1997	5 673	176 969	142 037	34 932	X
33995	Sign mfg	2001	87 131	3 292 590	2 815 723	476 867	2
		2000	86 875	3 245 993	2 779 612	466 381	2
		1999	88 960	3 190 750	2 714 739	476 012	2
		1998	84 165	2 868 962	2 427 903	441 059	2
		1997	83 813	2 858 030	2 412 225	445 805	X
339950	Sign mfg	2001	87 131	3 292 590	2 815 723	476 867	2
		2000	86 875	3 245 993	2 779 612	466 381	2
		1999	88 960	3 190 750	2 714 739	476 012	2
		1998	84 165	2 868 962	2 427 903	441 059	2
		1997	83 813	2 858 030	2 412 225	445 805	X
33999	All other miscellaneous mfg	2001	154 585	5 920 004	4 848 259	1 071 745	2
		2000	161 768	5 882 721	4 838 978	1 043 743	2
		1999	162 409	5 671 995	4 661 834	1 010 161	2
		1998	163 999	5 456 339	4 451 441	1 004 898	1
		1997	157 947	5 176 945	4 230 422	946 523	X
339991	Gasket, packing, & sealing device mfg	2001	41 171	1 829 698	1 452 523	377 174	3
		2000	43 700	1 879 489	1 516 323	363 166	3
		1999	42 656	1 715 228	1 381 354	333 874	3
		1998	42 607	1 681 556	1 330 897	350 658	2
		1997	41 980	1 614 425	1 290 903	323 522	X
339992	Musical instrument mfg	2001	15 732	588 990	477 338	111 652	4
		2000	15 167	553 390	455 441	97 949	4
		1999	14 446	505 522	413 311	92 210	4
		1998	13 587	484 459	403 839	80 620	3
		1997	13 249	433 940	357 842	76 098	X
339993	Fastener, button, needle, & pin mfg	2001	5 994	222 842	185 431	37 410	4
		2000	6 974	256 336	216 860	39 476	5
		1999	7 173	254 162	213 095	41 067	5
		1998	8 026	256 927	210 968	45 958	1
		1997	8 021	254 592	211 561	43 031	X
339994	Broom, brush, & mop mfg	2001	15 250	527 710	431 647	96 063	4
		2000	16 280	552 471	452 691	99 780	3
		1999	17 249	571 222	469 461	101 761	3
		1998	18 302	579 095	479 896	99 198	3
		1997	17 280	538 174	446 005	92 169	X
339995	Burial casket mfg	2001	7 430	268 508	210 410	58 098	6
		2000	7 146	257 454	201 344	56 110	6
		1999	7 315	262 277	211 307	50 970	5
		1998	7 379	259 732	212 670	47 062	1
		1997	6 792	254 850	206 890	47 960	X
339999	All other miscellaneous mfg	2001	69 009	2 482 257	2 090 909	391 348	3
		2000	72 502	2 383 581	1 996 319	387 262	3
		1999	73 570	2 363 584	1 973 305	390 278	3
		1998	74 097	2 194 571	1 813 170	381 401	1
		1997	70 625	2 080 964	1 717 221	363 743	X

1Figures represent average number of production workers for payroll period ended nearest the 12th of March, May, August, and November, plus all other employees for payroll period ended nearest the 12th of March.

2Description of relative standard error of estimate is given in Appendix B. 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 2000 Annual Survey of Manufactures (ASM) because of changes encountered in subsequent review of the 2001 ASM.

Note 2: The data in this table are based on the 2001 Annual Survey of Manufacturers (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. Data users who create their own estimates using data from American FactFinder tables should cite the U.S. Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix B.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
31-33	**Manufacturing**	**2001**	**79 831 685**	**837 973 468**	**40 862 928**	**94 521 704**	**38 968 757**	**1**	**1**
		2000	**75 465 609**	**863 675 053**	**40 813 930**	**100 864 717**	**34 651 679**	**1**	**1**
		1999	**65 284 751**	**833 374 689**	**38 606 834**	**110 322 154**	**26 677 917**	**1**	**1**
		1998	**63 742 426**	**819 725 796**	**38 424 285**	**113 089 909**	**25 318 141**	**1**	**1**
		1997	**64 909 791**	**827 353 664**	**38 695 146**	**92 643 862**	**26 214 645**	**X**	**X**
311	Food mfg	2001	7 754 144	69 505 942	3 707 110	3 661 195	4 047 034	1	1
		2000	6 356 144	64 832 092	3 302 515	3 981 212	3 053 628	1	1
		1999	5 565 500	60 780 441	3 107 755	3 649 440	2 457 745	1	1
		1998	5 568 727	61 972 920	3 148 194	4 285 270	2 420 533	1	1
		1997	5 584 178	60 622 556	3 117 392	4 342 538	2 466 786	X	X
3111	Animal food mfg	2001	428 575	4 746 260	244 521	797	184 054	9	8
		2000	372 321	3 871 296	212 992	409	159 329	10	12
		1999	284 702	3 131 911	171 299	D	113 403	2	3
		1998	275 277	3 069 122	167 043	46 543	108 234	2	3
		1997	285 351	3 086 826	167 505	–	117 846	X	X
31111	Animal food mfg	2001	428 575	4 746 260	244 521	797	184 054	9	8
		2000	372 321	3 871 296	212 992	409	159 329	10	12
		1999	284 702	3 131 911	171 299	D	113 403	2	3
		1998	275 277	3 069 122	167 043	46 543	108 234	2	3
		1997	285 351	3 086 826	167 505	–	117 846	X	X
311111	Dog & cat food mfg	2001	134 289	1 498 641	72 643	D	61 646	10	4
		2000	108 032	1 149 193	56 753	D	51 279	4	4
		1999	98 586	1 096 097	55 177	D	43 409	3	3
		1998	98 818	1 079 191	55 564	6 608	43 255	1	2
		1997	98 570	1 030 994	53 737	–	44 833	X	X
311119	Other animal food mfg	2001	294 287	3 247 619	171 879	D	122 408	12	12
		2000	264 288	2 722 103	156 239	D	108 049	13	17
		1999	186 116	2 035 813	116 122	420	69 994	3	4
		1998	176 459	1 989 931	111 480	39 935	64 980	2	4
		1997	186 781	2 055 832	113 768	–	73 013	X	X
3112	Grain & oilseed milling	2001	1 614 422	14 952 964	644 915	2 304 670	969 507	2	3
		2000	1 398 603	14 285 916	593 361	2 502 207	805 242	2	2
		1999	1 196 670	13 053 784	562 332	2 578 367	634 338	2	2
		1998	1 268 096	13 268 931	581 484	2 780 536	686 612	1	1
		1997	1 234 581	14 223 740	628 741	2 764 730	605 840	X	X
31121	Flour milling & malt mfg	2001	232 245	2 859 874	160 459	D	71 786	2	3
		2000	203 202	2 883 291	146 710	D	56 493	2	3
		1999	180 155	2 761 324	141 420	D	38 735	2	4
		1998	210 346	3 041 853	158 802	D	51 544	1	3
		1997	205 265	3 009 952	155 656	D	49 609	X	X
311211	Flour milling	2001	143 034	2 044 011	116 544	D	26 490	2	7
		2000	131 642	2 121 013	108 588	D	23 054	2	7
		1999	121 249	2 038 532	104 449	D	16 800	2	9
		1998	144 333	2 198 376	117 606	12 696	26 726	2	3
		1997	132 798	2 153 986	114 041	10 789	18 757	X	X
311212	Rice milling	2001	42 536	494 104	29 614	–	12 922	8	6
		2000	33 839	440 799	24 608	–	9 230	6	5
		1999	31 729	426 281	24 893	–	6 836	7	4
		1998	32 346	440 392	25 237	D	7 109	4	7
		1997	31 611	434 801	25 257	D	6 354	X	X
311213	Malt mfg	2001	46 676	321 759	14 301	–	32 375	2	1
		2000	37 722	321 479	13 514	–	24 208	2	1
		1999	27 177	296 511	12 079	–	15 098	2	2
		1998	33 667	403 084	15 959	D	17 708	3	7
		1997	40 856	421 165	16 358	D	24 498	X	X
31122	Starch & vegetable fats & oils mfg	2001	1 265 983	11 044 546	432 795	2 135 787	833 188	3	4
		2000	1 092 288	10 301 473	395 912	2 328 748	696 376	3	3
		1999	926 815	9 184 178	369 948	2 398 189	556 868	3	2
		1998	969 041	9 143 706	371 365	2 597 032	597 676	1	1
		1997	938 957	10 189 373	423 774	2 573 682	515 183	X	X
311221	Wet corn milling	2001	792 060	7 406 293	261 084	1 877 379	530 975	5	5
		2000	686 442	6 991 553	236 446	1 993 733	449 997	5	4
		1999	565 735	5 728 057	217 647	2 052 956	348 088	5	3
		1998	599 864	5 855 994	217 833	2 010 895	382 031	1	1
		1997	601 431	6 902 497	280 943	1 876 208	320 488	X	X
311222	Soybean processing	2001	314 671	2 270 748	105 182	D	209 489	1	1
		2000	278 802	2 179 801	102 750	D	176 052	1	1
		1999	242 152	2 163 091	89 897	D	152 255	1	1
		1998	231 541	1 715 237	81 056	557 873	150 484	1	1
		1997	201 293	1 627 095	72 647	637 139	128 646	X	X
311223	Other oilseed processing	2001	52 722	590 725	27 830	D	24 891	13	7
		2000	44 269	452 790	21 268	D	23 001	8	4
		1999	39 226	518 223	23 696	D	15 530	7	9
		1998	50 805	708 477	32 802	D	18 003	2	1
		1997	50 878	854 139	31 205	D	19 673	X	X
311225	Fats & oils refining & blending	2001	106 531	776 780	38 699	D	67 832	6	5
		2000	82 775	677 329	35 449	D	47 326	6	4
		1999	79 702	774 807	38 708	D	40 994	3	2
		1998	86 831	863 997	39 674	D	47 157	1	1
		1997	85 355	805 642	38 979	D	46 376	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
311	Food mfg—Con.								
3112	Grain & oilseed milling—Con.								
31123	Breakfast cereal mfg	2001..	116 194	1 048 543	51 660	D	64 533	1	2
		2000..	103 113	1 101 151	50 739	D	52 373	1	1
		1999..	89 700	1 108 282	50 964	D	38 735	1	1
		1998..	88 710	1 083 372	51 316	D	37 393	1	1
		1997..	90 359	1 024 415	49 311	D	41 048	X	X
311230	Breakfast cereal mfg	2001..	116 194	1 048 543	51 660	D	64 533	1	2
		2000..	103 113	1 101 151	50 739	D	52 373	1	1
		1999..	89 700	1 108 282	50 964	D	38 735	1	1
		1998..	88 710	1 083 372	51 316	D	37 393	1	1
		1997..	90 359	1 024 415	49 311	D	41 048	X	X
3113	Sugar & confectionery product mfg	2001..	483 519	3 445 024	198 258	936 050	285 261	3	4
		2000..	455 083	3 379 955	189 890	982 564	265 193	2	1
		1999..	417 037	3 091 240	178 842	987 632	238 196	1	1
		1998..	400 453	3 099 874	166 084	841 534	234 369	2	1
		1997..	398 138	2 992 101	157 513	1 071 682	240 625	X	X
31131	Sugar mfg	2001..	269 632	1 032 461	59 779	852 606	209 853	3	5
		2000..	259 402	968 794	57 775	890 083	201 627	3	1
		1999..	239 494	887 734	53 287	895 139	186 207	1	1
		1998..	230 792	1 013 559	43 973	741 024	186 819	1	2
		1997..	229 300	933 300	42 232	950 515	187 068	X	X
311311	Sugarcane mills	2001..	39 418	195 500	15 050	360 525	24 367	9	5
		2000..	37 483	191 236	14 310	407 785	23 172	9	5
		1999..	28 697	152 107	10 357	420 333	18 340	4	3
		1998..	21 565	162 952	8 842	273 532	12 724	6	23
		1997..	28 052	136 337	9 270	224 453	18 782	X	X
311312	Cane sugar refining	2001..	62 015	166 898	13 802	D	48 213	1	1
		2000..	65 515	185 938	14 067	164 146	51 448	1	1
		1999..	58 716	179 748	14 269	180 267	44 447	1	1
		1998..	55 928	100 616	6 183	168 896	49 745	1	1
		1997..	56 167	96 009	6 354	356 236	49 813	X	X
311313	Beet sugar mfg	2001..	168 199	670 063	30 927	D	137 272	5	7
		2000..	156 405	591 620	29 398	318 152	127 007	2	2
		1999..	152 080	555 879	28 661	294 539	123 420	2	1
		1998..	153 298	749 991	28 948	298 596	124 350	1	1
		1997..	145 081	700 954	26 608	369 826	118 473	X	X
31132	Chocolate & confectionery mfg from cacao beans	2001..	45 970	589 208	32 194	D	13 777	14	4
		2000..	40 760	536 303	28 456	D	12 304	11	3
		1999..	36 299	469 308	26 202	D	10 097	1	1
		1998..	39 719	511 059	29 836	S	9 882	9	3
		1997..	35 101	469 685	24 897	957	10 204	X	X
311320	Chocolate & confectionery mfg from cacao beans	2001..	45 970	589 208	32 194	D	13 777	14	4
		2000..	40 760	536 303	28 456	D	12 304	11	3
		1999..	36 299	469 308	26 202	D	10 097	1	1
		1998..	39 719	511 059	29 836	S	9 882	9	3
		1997..	35 101	469 685	24 897	957	10 204	X	X
31133	Confectionery mfg from purchased chocolate	2001..	95 448	1 110 406	63 622	D	31 826	4	4
		2000..	87 078	1 139 346	60 675	D	26 403	4	4
		1999..	80 003	1 049 930	58 382	D	21 621	4	5
		1998..	72 295	925 017	52 407	D	19 888	2	2
		1997..	75 678	970 641	52 805	D	22 873	X	X
311330	Confectionery mfg from purchased chocolate	2001..	95 448	1 110 406	63 622	D	31 826	4	4
		2000..	87 078	1 139 346	60 675	D	26 403	4	4
		1999..	80 003	1 049 930	58 382	D	21 621	4	5
		1998..	72 295	925 017	52 407	D	19 888	2	2
		1997..	75 678	970 641	52 805	D	22 873	X	X
31134	Nonchocolate confectionery mfg	2001..	72 469	712 949	42 663	D	29 806	3	5
		2000..	67 842	735 512	42 983	D	24 859	3	5
		1999..	61 242	684 268	40 971	D	20 271	2	5
		1998..	57 647	650 238	39 867	D	17 780	2	2
		1997..	58 059	618 475	37 579	D	20 480	X	X
311340	Nonchocolate confectionery mfg	2001..	72 469	712 949	42 663	D	29 806	3	5
		2000..	67 842	735 512	42 983	D	24 859	3	5
		1999..	61 242	684 268	40 971	D	20 271	2	5
		1998..	57 647	650 238	39 867	D	17 780	2	2
		1997..	58 059	618 475	37 579	D	20 480	X	X
3114	Fruit & vegetable preserving & specialty food mfg	2001..	1 517 960	9 053 319	568 590	295 338	949 370	2	2
		2000..	850 789	8 367 319	425 405	374 202	425 384	2	3
		1999..	768 042	8 031 528	412 033	–25 208	356 009	2	3
		1998..	822 319	9 850 209	485 338	433 301	336 981	1	5
		1997..	778 184	8 256 563	435 682	337 286	342 502	X	X
31141	Frozen food mfg	2001..	429 756	5 370 195	251 703	D	178 053	3	4
		2000..	351 881	4 897 544	224 683	D	127 198	3	5
		1999..	327 693	4 626 222	215 350	D	112 343	3	6
		1998..	426 392	6 716 370	296 081	51 318	130 311	1	3
		1997..	370 187	5 015 418	246 326	49 771	123 861	X	X
311411	Frozen fruit, juice, & vegetable mfg	2001..	280 005	3 318 329	144 647	D	135 358	6	6
		2000..	216 904	2 987 749	122 399	D	94 505	6	7
		1999..	201 074	2 744 674	116 818	D	84 256	6	8
		1998..	299 140	4 893 375	196 695	51 503	102 445	1	4
		1997..	246 000	3 272 621	151 494	49 771	94 506	X	X
311412	Frozen specialty food mfg	2001..	149 751	2 051 865	107 055	–	42 695	2	3
		2000..	134 977	1 909 795	102 284	–	32 693	2	3
		1999..	126 619	1 881 548	98 532	–	28 087	1	2
		1998..	127 253	1 822 995	99 386	S	27 867	1	2
		1997..	124 187	1 742 797	94 832	–	29 355	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column— C	Relative standard error of estimate[1] (percent) for column— E
			A	B	C	D	E	C	E
311	Food mfg—Con.								
3114	Fruit & vegetable preserving & specialty food mfg—Con.								
31142	Fruit & vegetable canning, pickling, & drying	2001	1 088 204	3 683 124	316 888	D	771 316	2	2
		2000	498 909	3 469 775	200 723	D	298 186	3	3
		1999	440 348	3 405 306	196 683	D	243 666	2	3
		1998	395 927	3 133 839	189 257	381 983	206 670	1	7
		1997	407 997	3 241 145	189 356	287 515	218 641	X	X
311421	Fruit & vegetable canning	2001	868 841	2 323 612	246 099	D	622 741	2	2
		2000	317 626	2 155 721	136 076	D	181 551	3	4
		1999	275 470	2 089 208	129 511	7 939	145 958	3	4
		1998	262 383	1 953 737	124 381	D	138 003	1	2
		1997	254 775	1 996 323	122 645	D	132 130	X	X
311422	Specialty canning	2001	92 719	686 956	35 545	D	57 174	2	4
		2000	87 603	668 189	34 510	D	53 092	6	10
		1999	76 380	645 311	33 635	D	42 745	4	8
		1998	69 572	600 236	33 609	D	35 964	3	2
		1997	69 172	630 433	33 946	D	35 226	X	X
311423	Dried & dehydrated food mfg	2001	126 645	672 556	35 243	D	91 401	6	6
		2000	93 680	645 864	30 137	D	63 543	7	6
		1999	88 499	670 788	33 536	D	54 962	4	5
		1998	63 971	579 866	31 267	S	32 704	2	44
		1997	84 050	614 389	32 765	–	51 285	X	X
3115	Dairy product mfg	2001	813 875	7 707 780	456 200	D	357 675	1	1
		2000	673 695	7 442 064	398 709	11 209	274 986	1	2
		1999	597 253	7 280 495	390 323	18 527	206 930	1	2
		1998	599 715	7 371 744	395 880	24 208	203 836	2	2
		1997	608 885	7 155 073	389 855	9 119	219 030	X	X
31151	Dairy product (except frozen) mfg	2001	731 558	6 580 115	388 426	D	343 132	1	1
		2000	598 535	6 335 536	338 911	11 209	259 623	1	2
		1999	518 239	6 149 351	325 202	18 527	193 036	1	2
		1998	516 598	6 175 192	325 814	24 208	190 784	2	2
		1997	527 630	5 977 326	319 952	9 119	207 678	X	X
311511	Fluid milk mfg	2001	272 154	2 933 874	184 751	D	87 403	2	4
		2000	233 508	2 727 215	164 512	9 564	68 996	2	4
		1999	213 879	2 746 489	159 613	17 100	54 266	1	6
		1998	223 689	2 715 239	162 146	D	61 543	1	5
		1997	227 509	2 642 360	158 847	D	68 662	X	X
311512	Creamery butter mfg	2001	11 387	110 068	5 864	–	5 522	2	5
		2000	9 057	104 110	5 132	–	3 925	3	5
		1999	9 381	108 398	5 281	–	4 101	3	4
		1998	9 274	104 215	5 196	D	4 078	2	9
		1997	10 343	100 121	5 378	D	4 965	X	X
311513	Cheese mfg	2001	282 987	2 363 288	130 350	1 090	152 637	3	2
		2000	220 654	2 323 197	109 569	1 646	111 086	3	2
		1999	190 808	2 294 534	108 930	1 428	81 879	2	2
		1998	187 471	2 293 053	106 803	S	80 668	3	2
		1997	185 079	2 164 314	102 645	–	82 434	X	X
311514	Dry, condensed, & evaporated dairy product mfg	2001	165 030	1 172 885	67 461	–	97 569	3	2
		2000	135 315	1 181 014	59 698	–	75 617	3	2
		1999	104 170	999 929	51 379	–	52 791	4	3
		1998	96 163	1 062 685	51 669	–	44 494	8	6
		1997	104 699	1 070 531	53 082	–	51 617	X	X
31152	Ice cream & frozen dessert mfg	2001	82 317	1 127 665	67 774	–	14 543	6	12
		2000	75 161	1 106 528	59 798	–	15 363	7	10
		1999	79 014	1 131 144	65 120	–	13 894	3	8
		1998	83 118	1 196 552	70 066	–	13 052	5	7
		1997	81 255	1 177 747	69 903	–	11 352	X	X
311520	Ice cream & frozen dessert mfg	2001	82 317	1 127 665	67 774	–	14 543	6	12
		2000	75 161	1 106 528	59 798	–	15 363	7	10
		1999	79 014	1 131 144	65 120	–	13 894	3	8
		1998	83 118	1 196 552	70 066	–	13 052	5	7
		1997	81 255	1 177 747	69 903	–	11 352	X	X
3116	Meat product mfg	2001	1 416 540	16 752 141	801 400	5 399	615 140	1	2
		2000	1 275 708	15 168 397	739 449	3 669	536 259	1	2
		1999	1 104 268	14 521 422	700 332	7 963	403 936	1	2
		1998	1 049 336	13 976 729	680 307	4 644	369 029	1	2
		1997	1 137 490	13 978 809	685 656	2 521	451 834	X	X
31161	Animal slaughtering & processing	2001	1 416 540	16 752 141	801 400	5 399	615 140	1	2
		2000	1 275 708	15 168 397	739 449	3 669	536 259	1	2
		1999	1 104 268	14 521 422	700 332	7 963	403 936	1	2
		1998	1 049 336	13 976 729	680 307	4 644	369 029	1	2
		1997	1 137 490	13 978 809	685 656	2 521	451 834	X	X
311611	Animal (except poultry) slaughtering	2001	386 292	4 663 097	209 477	D	176 815	2	2
		2000	349 383	4 450 183	197 915	D	151 468	1	2
		1999	296 590	4 412 931	189 914	D	106 676	1	2
		1998	293 405	4 195 088	185 730	D	107 675	1	1
		1997	338 673	4 745 418	213 113	D	125 560	X	X
311612	Meat processed from carcasses	2001	340 045	D	210 084	–	129 961	2	3
		2000	314 229	D	198 731	–	115 498	2	4
		1999	279 691	D	184 618	–	95 072	3	5
		1998	256 655	D	180 635	D	76 020	2	1
		1997	289 602	D	169 684	D	119 918	X	X
311613	Rendering & meat byproduct processing	2001	179 424	D	51 448	1 638	127 975	5	7
		2000	177 328	D	51 684	867	125 644	3	4
		1999	141 869	D	47 758	609	94 111	3	3
		1998	134 506	D	46 954	623	87 552	1	6
		1997	141 767	D	45 288	180	96 479	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
311	Food mfg—Con.								
3116	Meat product mfg—Con.								
31161	Animal slaughtering & processing—Con.								
311615	Poultry processing	2001..	510 781	7 367 446	330 392	D	180 389	1	3
		2000..	434 767	6 085 832	291 119	D	143 649	1	3
		1999..	386 119	5 857 626	278 042	D	108 077	1	2
		1998..	364 770	5 578 383	266 989	973	97 781	1	2
		1997..	367 448	5 290 650	257 571	794	109 877	X	X
3117	Seafood product preparation & packaging	2001..	148 718	990 635	68 599	80 703	80 120	4	8
		2000..	132 153	997 881	65 030	63 393	67 124	4	6
		1999..	113 715	887 818	60 581	68 952	53 135	4	6
		1998..	109 558	867 054	56 884	122 592	52 674	5	3
		1997..	116 317	924 275	59 023	106 651	57 294	X	X
31171	Seafood product preparation & packaging	2001..	148 718	990 635	68 599	80 703	80 120	4	8
		2000..	132 153	997 881	65 030	63 393	67 124	4	6
		1999..	113 715	887 818	60 581	68 952	53 135	4	6
		1998..	109 558	867 054	56 884	122 592	52 674	5	3
		1997..	116 317	924 275	59 023	106 651	57 294	X	X
311711	Seafood canning	2001..	16 174	88 773	7 630	D	8 544	6	5
		2000..	15 123	82 244	6 764	D	8 359	6	4
		1999..	16 745	99 724	8 192	D	8 554	3	2
		1998..	13 189	76 128	6 451	D	6 738	6	6
		1997..	14 910	86 333	7 138	D	7 772	X	X
311712	Fresh & frozen seafood processing	2001..	132 545	901 862	60 969	D	71 576	5	9
		2000..	117 031	915 636	58 266	D	58 765	4	7
		1999..	96 970	788 094	52 389	D	44 581	4	7
		1998..	96 369	790 926	50 433	D	45 936	6	3
		1997..	101 407	837 942	51 885	D	49 522	X	X
3118	Bakeries & tortilla mfg	2001..	734 495	6 488 716	404 997	7 096	329 498	3	3
		2000..	664 850	6 362 734	383 620	7 204	281 231	3	3
		1999..	588 014	5 806 224	349 291	D	238 723	3	2
		1998..	573 218	5 702 456	340 638	28 518	232 580	1	1
		1997..	575 178	5 695 186	339 105	47 662	236 073	X	X
31181	Bread & bakery product mfg	2001..	507 089	4 262 901	274 767	D	232 321	4	3
		2000..	472 654	4 138 967	260 136	D	212 518	3	3
		1999..	412 015	3 733 787	231 773	D	180 242	4	3
		1998..	394 901	3 683 101	224 792	20 768	170 109	1	1
		1997..	385 049	3 496 660	213 603	43 975	171 446	X	X
311811	Retail bakeries	2001..	43 732	367 548	25 176	–	18 556	12	12
		2000..	40 322	336 066	22 650	–	17 673	12	14
		1999..	42 666	316 546	24 741	–	17 924	17	12
		1998..	47 063	423 156	26 394	–	20 668	3	3
		1997..	28 142	272 995	15 509	–	12 633	X	X
311812	Commercial bakeries	2001..	412 052	3 297 331	212 712	D	199 339	4	3
		2000..	384 368	3 211 810	201 291	D	183 077	4	3
		1999..	329 697	2 899 205	176 639	D	153 058	4	3
		1998..	307 492	2 740 888	166 551	D	140 942	1	1
		1997..	317 012	2 739 232	167 744	D	149 268	X	X
311813	Frozen cakes, pies, & other pastries mfg	2001..	51 305	598 023	36 879	–	14 426	6	4
		2000..	47 964	591 091	36 196	D	11 768	4	3
		1999..	39 652	518 036	30 393	D	9 260	3	3
		1998..	40 346	519 056	31 847	D	8 499	2	5
		1997..	39 895	484 433	30 350	D	9 545	X	X
31182	Cookie, cracker, & pasta mfg	2001..	194 813	2 025 855	115 368	D	79 445	2	6
		2000..	168 836	2 014 365	110 859	D	57 977	6	5
		1999..	153 221	1 874 562	104 307	D	48 914	4	5
		1998..	156 972	1 846 653	103 823	7 750	53 149	1	1
		1997..	167 955	2 023 347	113 223	3 687	54 732	X	X
311821	Cookie & cracker mfg	2001..	110 905	954 731	55 567	D	55 338	3	5
		2000..	92 883	913 151	51 675	D	41 208	3	6
		1999..	85 220	918 530	51 672	D	33 548	2	6
		1998..	92 579	966 074	53 955	7 750	38 624	1	1
		1997..	92 968	953 134	53 611	3 687	39 357	X	X
311822	Flour mixes & dough mfg from purchased flour	2001..	59 197	766 343	43 457	–	15 741	4	25
		2000..	54 857	852 284	44 244	–	10 612	14	18
		1999..	50 540	733 365	40 492	–	10 049	10	13
		1998..	44 668	629 231	35 272	–	9 396	1	2
		1997..	45 620	664 092	36 412	–	9 208	X	X
311823	Dry pasta mfg	2001..	24 711	304 781	16 345	–	8 366	4	4
		2000..	21 096	248 930	14 940	–	6 156	4	5
		1999..	17 461	222 667	12 143	–	5 318	5	5
		1998..	19 725	251 347	14 596	–	5 129	1	1
		1997..	29 367	406 121	23 200	–	6 167	X	X
31183	Tortilla mfg	2001..	32 594	199 961	14 862	–	17 732	5	8
		2000..	23 361	209 402	12 624	–	10 737	6	7
		1999..	22 777	197 875	13 211	–	9 567	4	7
		1998..	21 345	172 703	12 024	–	9 322	1	1
		1997..	22 174	175 179	12 279	–	9 895	X	X
311830	Tortilla mfg	2001..	32 594	199 961	14 862	–	17 732	5	8
		2000..	23 361	209 402	12 624	–	10 737	6	7
		1999..	22 777	197 875	13 211	–	9 567	4	7
		1998..	21 345	172 703	12 024	–	9 322	1	1
		1997..	22 174	175 179	12 279	–	9 895	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
311	Food mfg—Con.								
3119	Other food mfg	2001..	596 039	5 369 103	319 630	D	276 409	3	3
		2000..	532 941	4 956 531	294 059	36 355	238 882	2	2
		1999..	495 799	4 976 021	282 723	2 481	213 076	2	2
		1998..	470 754	4 766 801	274 536	3 395	196 219	1	2
		1997..	450 054	4 309 983	254 312	2 887	195 742	X	X
31191	Snack food mfg	2001..	194 045	1 601 089	82 013	D	112 032	3	5
		2000..	176 105	1 517 787	82 326	D	93 780	2	3
		1999..	178 934	1 672 205	87 674	D	91 259	3	4
		1998..	156 166	1 501 542	76 018	D	80 148	3	3
		1997..	142 343	1 256 468	67 077	D	75 266	X	X
311911	Roasted nuts & peanut butter mfg	2001..	35 517	391 717	24 197	–	11 321	6	11
		2000..	30 529	412 498	22 137	D	8 392	4	6
		1999..	28 424	370 426	21 611	D	6 813	4	5
		1998..	28 533	340 699	20 886	D	7 647	4	5
		1997..	27 528	326 244	19 238	D	8 290	X	X
311919	Other snack food mfg	2001..	158 528	1 209 371	57 816	D	100 712	3	5
		2000..	145 576	1 105 289	60 188	D	85 388	3	3
		1999..	150 510	1 301 779	66 064	–	84 446	4	4
		1998..	127 633	1 160 844	55 132	–	72 501	4	4
		1997..	114 815	930 224	47 839	–	66 976	X	X
31192	Coffee & tea mfg	2001..	55 929	495 782	30 526	–	25 403	2	3
		2000..	51 851	452 420	28 457	–	23 393	2	2
		1999..	49 388	500 555	28 350	–	21 038	2	3
		1998..	46 687	488 796	27 845	–	18 842	1	1
		1997..	51 757	490 602	30 158	–	21 599	X	X
311920	Coffee & tea mfg	2001..	55 929	495 782	30 526	–	25 403	2	3
		2000..	51 851	452 420	28 457	–	23 393	2	2
		1999..	49 388	500 555	28 350	–	21 038	2	3
		1998..	46 687	488 796	27 845	–	18 842	1	1
		1997..	51 757	490 602	30 158	–	21 599	X	X
31193	Flavoring syrup & concentrate mfg	2001..	32 199	296 164	20 563	–	11 636	26	12
		2000..	25 193	242 302	16 735	–	8 458	18	8
		1999..	21 418	218 815	15 438	–	5 981	17	5
		1998..	17 285	158 544	10 965	–	6 321	2	1
		1997..	17 249	160 106	11 182	–	6 067	X	X
311930	Flavoring syrup & concentrate mfg	2001..	32 199	296 164	20 563	–	11 636	26	12
		2000..	25 193	242 302	16 735	–	8 458	18	8
		1999..	21 418	218 815	15 438	–	5 981	17	5
		1998..	17 285	158 544	10 965	–	6 321	2	1
		1997..	17 249	160 106	11 182	–	6 067	X	X
31194	Seasoning & dressing mfg	2001..	81 739	823 731	51 750	D	29 990	4	5
		2000..	79 807	817 896	50 986	D	28 821	4	5
		1999..	73 559	796 361	49 646	D	23 912	2	3
		1998..	70 660	806 081	48 631	D	22 029	1	2
		1997..	68 335	717 373	45 633	D	22 702	X	X
311941	Mayonnaise, dressing, & other prepared sauce mfg	2001..	46 725	462 729	29 804	D	16 921	4	2
		2000..	44 097	457 396	28 316	D	15 780	3	2
		1999..	41 673	467 378	28 722	D	12 950	2	3
		1998..	43 536	500 198	29 277	D	14 259	1	2
		1997..	41 226	424 533	27 369	D	13 857	X	X
311942	Spice & extract mfg	2001..	35 014	361 002	21 946	–	13 068	8	11
		2000..	35 710	360 500	22 669	–	13 041	8	10
		1999..	31 886	328 983	20 924	–	10 962	3	7
		1998..	27 124	305 883	19 354	–	7 770	2	5
		1997..	27 109	292 840	18 264	–	8 845	X	X
31199	All other food mfg	2001..	232 127	2 152 338	134 778	46	97 349	4	5
		2000..	199 985	1 926 127	115 556	46	84 430	4	5
		1999..	172 500	1 788 085	101 615	46	70 885	2	4
		1998..	179 957	1 811 837	111 078	D	68 879	3	2
		1997..	170 370	1 685 434	100 262	D	70 108	X	X
311991	Perishable prepared food mfg	2001..	44 048	429 484	33 294	–	10 754	3	17
		2000..	35 189	414 215	25 956	–	9 233	3	19
		1999..	33 114	408 706	25 357	–	7 757	3	22
		1998..	35 592	383 069	25 342	–	10 249	5	6
		1997..	35 271	389 702	24 236	–	11 035	X	X
311999	All other miscellaneous food mfg	2001..	188 078	1 722 853	101 484	46	86 594	5	5
		2000..	164 796	1 511 912	89 600	46	75 197	4	5
		1999..	139 386	1 379 378	76 257	46	63 129	3	4
		1998..	144 365	1 428 768	85 736	D	58 629	4	2
		1997..	135 099	1 295 732	76 026	D	59 073	X	X
312	Beverage & tobacco product mfg	2001..	854 687	8 585 676	481 434	399 577	373 253	2	2
		2000..	743 200	7 949 322	436 782	D	306 418	2	3
		1999..	652 496	7 731 745	424 803	D	227 693	2	1
		1998..	656 265	7 608 293	422 561	566 486	233 704	1	1
		1997..	677 740	7 649 042	421 484	598 347	256 256	X	X
3121	Beverage mfg	2001..	733 457	7 072 637	410 548	D	322 909	2	3
		2000..	626 061	6 465 379	368 312	D	257 749	2	3
		1999..	532 633	6 023 744	346 268	D	186 365	2	2
		1998..	524 487	5 791 286	338 959	329 370	185 528	1	1
		1997..	540 232	5 690 038	333 561	319 828	206 671	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
312	Beverage & tobacco product mfg—Con.								
3121	Beverage mfg—Con.								
31211	Soft drink & ice mfg	2001..	327 657	3 056 261	200 597	–320	127 060	3	4
		2000..	285 789	3 030 682	187 463	D	98 326	4	6
		1999..	249 107	2 760 463	172 560	D	76 547	3	4
		1998..	241 079	2 544 800	167 659	11 120	73 420	1	2
		1997..	234 142	2 502 569	160 635	–	73 507	X	X
312111	Soft drink mfg	2001..	261 820	2 269 789	148 974	–320	112 846	2	4
		2000..	226 571	2 298 620	140 203	D	86 368	4	6
		1999..	194 559	2 053 173	126 582	D	67 977	2	4
		1998..	196 958	1 957 509	128 433	11 120	68 525	1	3
		1997..	192 023	1 922 130	123 083	–	68 940	X	X
312112	Bottled water mfg	2001..	21 196	196 827	14 669	–	6 527	21	23
		2000..	20 329	229 192	15 988	–	4 340	17	18
		1999..	19 134	198 494	14 958	–	4 176	16	17
		1998..	9 573	91 779	7 554	–	2 018	11	5
		1997..	7 394	72 097	5 698	–	1 696	X	X
312113	Ice mfg	2001..	44 640	589 644	36 954	–	7 687	12	38
		2000..	38 890	502 870	31 272	–	7 618	10	37
		1999..	35 414	508 795	31 020	–	4 395	9	33
		1998..	34 548	495 513	31 671	–	2 877	1	1
		1997..	34 725	508 342	31 854	–	2 871	X	X
31212	Breweries	2001..	288 182	2 977 799	134 803	D	153 379	1	3
		2000..	243 099	2 480 187	118 639	D	124 460	1	3
		1999..	201 727	2 439 111	114 869	D	86 858	1	1
		1998..	208 813	2 504 402	120 752	D	88 061	1	1
		1997..	227 346	2 468 063	120 319	D	107 027	X	X
312120	Breweries	2001..	288 182	2 977 799	134 803	D	153 379	1	3
		2000..	243 099	2 480 187	118 639	D	124 460	1	3
		1999..	201 727	2 439 111	114 869	D	86 858	1	1
		1998..	208 813	2 504 402	120 752	D	88 061	1	1
		1997..	227 346	2 468 063	120 319	D	107 027	X	X
31213	Wineries	2001..	76 225	680 249	54 842	D	21 383	3	4
		2000..	62 246	636 200	44 287	D	17 959	4	4
		1999..	51 069	513 522	39 923	D	11 146	2	3
		1998..	48 235	493 394	38 194	D	10 042	2	3
		1997..	51 374	479 657	40 233	D	11 141	X	X
312130	Wineries	2001..	76 225	680 249	54 842	D	21 383	3	4
		2000..	62 246	636 200	44 287	D	17 959	4	4
		1999..	51 069	513 522	39 923	D	11 146	2	3
		1998..	48 235	493 394	38 194	D	10 042	2	3
		1997..	51 374	479 657	40 233	D	11 141	X	X
31214	Distilleries	2001..	41 394	358 328	20 307	–	21 087	31	26
		2000..	34 926	318 310	17 922	–	17 003	26	26
		1999..	30 730	310 649	18 916	–	11 814	28	8
		1998..	26 360	248 690	12 355	–	14 006	2	3
		1997..	27 370	239 749	12 374	–	14 996	X	X
312140	Distilleries	2001..	41 394	358 328	20 307	–	21 087	31	26
		2000..	34 926	318 310	17 922	–	17 003	26	26
		1999..	30 730	310 649	18 916	–	11 814	28	8
		1998..	26 360	248 690	12 355	–	14 006	2	3
		1997..	27 370	239 749	12 374	–	14 996	X	X
3122	Tobacco mfg	2001..	121 230	1 513 039	70 886	D	50 344	1	2
		2000..	117 139	1 483 943	68 470	D	48 669	1	2
		1999..	119 863	1 708 001	78 535	D	41 328	1	2
		1998..	131 778	1 817 007	83 602	237 116	48 176	1	1
		1997..	137 508	1 959 004	87 923	278 519	49 585	X	X
31221	Tobacco stemming & redrying	2001..	D	157 641	9 935	–	D	1	X
		2000..	D	146 226	9 087	–	D	1	X
		1999..	D	187 372	11 806	–	D	1	X
		1998..	D	224 077	14 247	–	D	1	X
		1997..	D	303 443	19 683	–	D	X	X
312210	Tobacco stemming & redrying	2001..	D	157 641	9 935	–	D	1	X
		2000..	D	146 226	9 087	–	D	1	X
		1999..	D	187 372	11 806	–	D	1	X
		1998..	D	224 077	14 247	–	D	1	X
		1997..	D	303 443	19 683	–	D	X	X
31222	Tobacco product mfg	2001..	D	1 355 398	60 950	D	D	1	X
		2000..	D	1 337 717	59 383	D	D	1	X
		1999..	D	1 520 629	66 729	D	D	1	X
		1998..	D	1 592 930	69 355	237 116	D	1	X
		1997..	D	1 655 561	68 240	278 519	D	X	X
312221	Cigarette mfg	2001..	D	998 162	45 301	D	D	1	X
		2000..	D	1 000 658	44 871	D	D	1	X
		1999..	D	1 192 710	50 613	D	D	1	X
		1998..	D	1 215 789	51 269	D	D	1	X
		1997..	D	1 256 006	49 723	D	D	X	X
312229	Other tobacco product mfg	2001..	D	357 236	15 649	D	D	6	X
		2000..	D	337 059	14 512	D	D	6	X
		1999..	D	327 919	16 116	D	D	5	X
		1998..	D	377 141	18 086	D	D	1	X
		1997..	D	399 555	18 517	D	D	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
313	Textile mills	2001..	1 715 624	24 538 341	1 134 847	48 313	580 777	2	5
		2000..	1 801 443	26 314 114	1 241 889	41 999	559 555	1	5
		1999..	1 846 153	28 701 089	1 308 304	115 924	537 850	1	5
		1998..	1 867 176	28 889 986	1 322 107	204 230	545 069	1	2
		1997..	1 912 646	28 519 930	1 340 814	197 659	571 832	X	X
3131	Fiber, yarn, & thread mills	2001..	393 955	8 216 608	353 104	D	40 851	3	4
		2000..	447 003	8 961 057	403 976	D	43 027	2	3
		1999..	450 511	9 585 837	407 126	D	43 384	2	15
		1998..	431 918	9 214 721	392 557	D	39 361	1	2
		1997..	429 832	8 803 529	390 903	D	38 929	X	X
31311	Fiber, yarn, & thread mills	2001..	393 955	8 216 608	353 104	D	40 851	3	4
		2000..	447 003	8 961 057	403 976	D	43 027	2	3
		1999..	450 511	9 585 837	407 126	D	43 384	2	15
		1998..	431 918	9 214 721	392 557	D	39 361	1	2
		1997..	429 832	8 803 529	390 903	D	38 929	X	X
313111	Yarn spinning mills	2001..	260 201	5 642 139	238 867	–	21 334	3	6
		2000..	301 649	6 312 668	278 872	–	22 777	2	3
		1999..	308 738	6 730 714	287 710	–	21 028	2	4
		1998..	317 778	6 851 632	293 063	D	24 715	1	1
		1997..	317 346	6 615 084	293 858	D	23 488	X	X
313112	Yarn texturing, throwing, & twisting mills	2001..	124 544	2 470 732	107 620	–	16 924	6	6
		2000..	134 951	2 512 376	117 557	–	17 394	3	7
		1999..	132 994	2 740 206	112 837	–	20 157	5	31
		1998..	96 959	2 081 074	85 501	–	11 458	3	5
		1997..	96 875	1 955 924	84 648	–	12 227	X	X
313113	Thread mills	2001..	9 210	103 737	6 617	D	2 592	5	7
		2000..	10 402	136 013	7 547	D	2 855	4	6
		1999..	8 779	114 917	6 580	D	2 199	4	5
		1998..	17 181	282 015	13 993	–	3 188	1	1
		1997..	15 611	232 521	12 397	–	3 214	X	X
3132	Fabric mills	2001..	785 137	12 987 206	562 345	D	222 792	1	4
		2000..	853 382	14 026 827	638 492	D	214 890	1	4
		1999..	866 561	15 517 082	678 339	D	188 222	1	5
		1998..	909 362	15 794 434	689 147	D	220 216	1	2
		1997..	930 744	15 674 880	704 057	D	226 687	X	X
31321	Broadwoven fabric mills	2001..	485 616	8 878 390	367 705	27 929	117 911	2	7
		2000..	536 663	9 933 509	430 108	D	106 555	1	8
		1999..	546 718	11 204 402	457 134	D	89 584	1	10
		1998..	600 511	11 909 215	489 548	D	110 963	1	1
		1997..	632 502	12 166 618	509 087	D	123 415	X	X
313210	Broadwoven fabric mills	2001..	485 616	8 878 390	367 705	27 929	117 911	2	7
		2000..	536 663	9 933 509	430 108	D	106 555	1	8
		1999..	546 718	11 204 402	457 134	D	89 584	1	10
		1998..	600 511	11 909 215	489 548	D	110 963	1	1
		1997..	632 502	12 166 618	509 087	D	123 415	X	X
31322	Narrow fabric mills & schiffli machine embroidery	2001..	33 393	369 228	23 025	D	10 368	3	3
		2000..	33 514	411 408	24 027	D	9 487	2	4
		1999..	33 973	415 122	24 643	D	9 330	2	5
		1998..	35 189	445 353	27 203	D	7 986	3	3
		1997..	33 648	431 950	26 344	D	7 304	X	X
313221	Narrow fabric mills	2001..	31 972	353 183	21 882	D	10 089	3	3
		2000..	32 008	395 256	22 806	D	9 202	2	3
		1999..	32 179	397 504	23 256	D	8 922	2	5
		1998..	32 528	415 024	24 969	D	7 559	3	3
		1997..	30 908	402 641	24 114	D	6 794	X	X
313222	Schiffli machine embroidery	2001..	1 421	16 045	1 142	–	279	22	51
		2000..	1 506	16 152	1 221	–	285	20	50
		1999..	1 794	17 618	1 387	–	407	15	16
		1998..	2 661	30 330	2 235	–	426	6	10
		1997..	2 740	29 309	2 230	–	510	X	X
31323	Nonwoven fabric mills	2001..	158 708	2 759 457	116 695	D	42 012	2	4
		2000..	156 133	2 561 225	116 814	D	39 319	1	3
		1999..	149 412	2 542 250	115 524	D	33 888	1	3
		1998..	116 029	1 998 338	83 871	–	32 159	1	2
		1997..	115 635	1 572 866	82 173	–	33 462	X	X
313230	Nonwoven fabric mills	2001..	158 708	2 759 457	116 695	D	42 012	2	4
		2000..	156 133	2 561 225	116 814	D	39 319	1	3
		1999..	149 412	2 542 250	115 524	D	33 888	1	3
		1998..	116 029	1 998 338	83 871	–	32 159	1	2
		1997..	115 635	1 572 866	82 173	–	33 462	X	X
31324	Knit fabric mills	2001..	107 421	980 131	54 920	–	52 501	5	4
		2000..	127 072	1 120 684	67 543	–	59 529	4	4
		1999..	136 459	1 355 308	81 038	–	55 421	7	4
		1998..	157 633	1 441 528	88 525	S	69 109	5	5
		1997..	148 959	1 503 446	86 453	–	62 506	X	X
313241	Weft knit fabric mills	2001..	53 410	461 186	22 978	–	30 432	12	6
		2000..	69 357	598 125	33 851	–	35 507	8	5
		1999..	78 528	760 588	46 534	–	31 994	12	5
		1998..	92 438	807 506	50 124	S	42 313	8	8
		1997..	83 802	855 660	47 458	–	36 344	X	X
313249	Other knit fabric & lace mills	2001..	54 011	518 945	31 942	–	22 069	3	4
		2000..	57 715	522 559	33 692	–	24 022	3	7
		1999..	57 931	594 719	34 505	–	23 427	3	6
		1998..	65 196	634 022	38 401	S	26 795	2	2
		1997..	65 157	647 786	38 995	–	26 162	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
313	Textile mills—Con.								
3133	Textile & fabric finishing & fabric coating mills	2001..	536 532	3 334 527	219 398	D	317 134	11	9
		2000..	501 059	3 326 231	199 421	D	301 638	4	8
		1999..	529 081	3 598 170	222 838	D	306 243	5	8
		1998..	525 895	3 880 831	240 403	166 194	285 492	3	3
		1997..	552 070	4 041 521	245 854	173 205	306 216	X	X
31331	Textile & fabric finishing mills	2001..	485 767	3 032 176	196 879	D	288 888	12	10
		2000..	455 344	2 997 091	177 537	D	277 807	5	9
		1999..	492 392	3 312 112	203 319	D	289 073	5	9
		1998..	482 911	3 543 691	216 192	166 194	266 719	3	3
		1997..	509 254	3 710 259	222 987	173 205	286 267	X	X
313311	Broadwoven fabric finishing mills	2001..	296 463	1 638 841	97 273	D	199 190	7	14
		2000..	308 031	1 741 980	105 992	D	202 038	7	11
		1999..	318 448	1 935 666	120 295	D	198 153	5	10
		1998..	319 899	2 279 257	141 076	166 194	178 823	4	5
		1997..	352 640	2 313 081	145 756	173 205	206 884	X	X
313312	Textile & fabric finishing mills	2001..	189 304	1 393 335	99 607	–	89 698	24	13
		2000..	147 314	1 255 111	71 545	–	75 769	7	11
		1999..	173 944	1 376 446	83 024	–	90 920	11	17
		1998..	163 012	1 264 434	75 116	–	87 896	3	2
		1997..	156 614	1 397 178	77 231	–	79 383	X	X
31332	Fabric coating mills	2001..	50 765	302 351	22 518	–	28 247	3	4
		2000..	45 714	329 140	21 883	–	23 831	3	3
		1999..	36 689	286 057	19 519	–	17 170	3	4
		1998..	42 984	337 140	24 211	–	18 773	8	6
		1997..	42 816	331 262	22 867	–	19 949	X	X
313320	Fabric coating mills	2001..	50 765	302 351	22 518	–	28 247	3	4
		2000..	45 714	329 140	21 883	–	23 831	3	3
		1999..	36 689	286 057	19 519	–	17 170	3	4
		1998..	42 984	337 140	24 211	–	18 773	8	6
		1997..	42 816	331 262	22 867	–	19 949	X	X
314	Textile product mills	2001..	449 758	5 470 362	254 506	D	195 253	2	2
		2000..	448 365	5 337 588	268 904	D	179 461	2	2
		1999..	391 786	4 948 660	251 988	D	139 798	2	2
		1998..	396 552	4 963 880	245 612	79 751	150 941	1	2
		1997..	387 444	4 761 392	245 129	34 328	142 315	X	X
3141	Textile furnishings mills	2001..	288 694	3 282 694	142 133	–	146 561	2	2
		2000..	272 995	2 930 518	143 843	–	129 153	1	2
		1999..	217 805	2 555 942	124 952	–	92 853	1	1
		1998..	212 583	2 551 497	122 819	S	89 764	1	2
		1997..	217 674	2 443 780	126 511	S	91 163	X	X
31411	Carpet & rug mills	2001..	212 349	2 454 922	96 794	–	115 554	1	2
		2000..	198 711	2 139 813	99 220	–	99 491	1	1
		1999..	148 358	1 765 169	80 282	–	68 076	1	1
		1998..	150 283	1 795 011	79 481	–	70 802	1	1
		1997..	152 502	1 641 343	81 928	89	70 574	X	X
314110	Carpet & rug mills	2001..	212 349	2 454 922	96 794	–	115 554	1	2
		2000..	198 711	2 139 813	99 220	–	99 491	1	1
		1999..	148 358	1 765 169	80 282	–	68 076	1	1
		1998..	150 283	1 795 011	79 481	D	70 802	1	1
		1997..	152 502	1 641 343	81 928	D	70 574	X	X
31412	Curtain & linen mills	2001..	76 345	827 772	45 339	–	31 007	5	7
		2000..	74 284	790 705	44 623	–	29 661	3	6
		1999..	69 446	790 773	44 669	–	24 777	2	3
		1998..	62 299	756 486	43 337	S	18 962	2	9
		1997..	65 172	802 437	44 583	–	20 589	X	X
314121	Curtain & drapery mills	2001..	17 843	177 039	10 792	–	7 051	14	27
		2000..	16 094	138 957	9 543	–	6 551	6	25
		1999..	11 765	130 554	8 667	–	3 098	4	15
		1998..	12 180	125 115	8 262	–	3 918	8	13
		1997..	11 245	116 004	7 758	–	3 487	X	X
314129	Other household textile product mills	2001..	58 502	650 734	34 547	–	23 956	4	4
		2000..	58 191	651 747	35 080	–	23 111	4	3
		1999..	57 681	660 219	36 002	–	21 679	3	3
		1998..	50 120	631 371	35 076	S	15 044	2	11
		1997..	53 927	686 433	36 825	–	17 102	X	X
3149	Other textile product mills	2001..	161 064	2 187 668	112 373	D	48 692	5	7
		2000..	175 370	2 407 070	125 062	D	50 308	4	5
		1999..	173 981	2 392 717	127 036	D	46 945	4	6
		1998..	183 970	2 412 383	122 793	85 348	61 177	1	4
		1997..	169 770	2 317 612	118 618	34 239	51 152	X	X
31491	Textile bag & canvas mills	2001..	21 583	321 482	15 938	–	5 645	16	7
		2000..	20 973	243 406	14 803	–	6 169	13	7
		1999..	19 346	201 119	13 149	–	6 197	4	5
		1998..	20 010	208 420	13 429	–	6 581	2	4
		1997..	20 283	209 682	13 447	–	6 836	X	X
314911	Textile bag mills	2001..	7 554	93 297	5 893	–	1 660	10	12
		2000..	7 259	88 678	5 396	–	1 863	8	12
		1999..	7 392	86 842	5 592	–	1 800	7	9
		1998..	8 094	96 741	6 260	–	1 834	4	6
		1997..	8 116	97 511	6 280	–	1 836	X	X
314912	Canvas & related product mills	2001..	14 030	228 186	10 045	–	3 985	25	9
		2000..	13 713	154 728	9 407	–	4 306	20	8
		1999..	11 954	114 277	7 557	–	4 397	3	6
		1998..	11 916	111 679	7 169	–	4 747	3	5
		1997..	12 167	112 171	7 167	–	5 000	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
314	Textile product mills—Con.								
3149	Other textile product mills—Con.								
31499	All other textile product mills	2001	139 481	1 866 185	96 434	D	43 047	5	8
		2000	154 397	2 163 664	110 258	D	44 139	5	6
		1999	154 636	2 191 598	113 887	D	40 748	4	7
		1998	163 959	2 203 963	109 364	85 348	54 596	1	5
		1997	149 487	2 107 930	105 171	34 239	44 316	X	X
314991	Rope, cordage, & twine mills	2001	10 959	167 992	10 351	–	608	5	A
		2000	11 613	184 555	10 780	–	833	7	A
		1999	10 922	171 018	10 000	–	922	6	A
		1998	11 753	164 319	9 632	S	2 122	4	4
		1997	13 407	191 758	11 115	–	2 292	X	X
314992	Tire cord & tire fabric mills	2001	44 922	835 847	31 770	D	13 152	1	1
		2000	54 756	1 094 720	41 428	D	13 328	1	1
		1999	51 076	1 044 891	41 013	D	10 063	1	1
		1998	44 423	872 089	35 752	627	8 671	2	1
		1997	43 612	821 875	34 193	–	9 419	X	X
314999	All other miscellaneous textile product mills	2001	83 600	862 347	54 314	–	29 286	9	12
		2000	88 028	884 389	58 050	–	29 978	9	8
		1999	92 638	975 690	62 874	–	29 763	7	8
		1998	107 783	1 167 555	63 980	84 718	43 804	2	6
		1997	92 468	1 094 297	59 863	34 239	32 605	X	X
315	Apparel mfg	2001	583 845	6 285 189	410 609	5 929	173 236	7	7
		2000	599 284	6 726 126	422 046	5 843	177 238	4	4
		1999	598 008	6 438 132	423 454	594	174 555	3	4
		1998	654 679	6 713 223	463 288	1 110	191 391	1	1
		1997	688 269	7 056 359	482 740	210	205 529	X	X
3151	Apparel knitting mills	2001	135 938	1 432 240	82 202	–	53 736	4	7
		2000	141 136	1 714 399	90 059	–	51 077	3	7
		1999	136 031	1 729 994	89 165	–	46 866	3	6
		1998	138 149	1 705 827	94 070	134	44 079	2	2
		1997	159 973	1 898 241	104 963	–	55 010	X	X
31511	Hosiery & sock mills	2001	86 567	1 062 845	58 714	–	27 853	4	4
		2000	86 075	1 158 020	60 314	–	25 761	4	4
		1999	80 851	1 130 946	58 338	–	22 513	4	5
		1998	85 451	1 208 500	63 296	134	22 155	3	4
		1997	86 368	1 169 912	63 184	–	23 184	X	X
315111	Sheer hosiery mills	2001	28 367	339 582	19 239	–	9 128	10	3
		2000	27 441	381 468	18 903	–	8 538	10	4
		1999	28 168	388 067	19 700	–	8 468	10	3
		1998	32 258	481 192	24 545	–	7 713	1	1
		1997	34 175	477 325	26 703	–	7 472	X	X
315119	Other hosiery & sock mills	2001	58 200	723 263	39 474	–	18 725	4	6
		2000	58 634	776 552	41 411	–	17 223	4	5
		1999	52 683	742 880	38 638	–	14 045	4	8
		1998	53 193	727 308	38 750	134	14 442	4	6
		1997	52 193	692 587	36 481	–	15 712	X	X
31519	Other apparel knitting mills	2001	49 371	369 395	23 489	–	25 882	8	15
		2000	55 061	556 379	29 744	–	25 317	5	14
		1999	55 180	599 048	30 828	–	24 353	5	11
		1998	52 699	497 326	30 774	–	21 924	4	2
		1997	73 605	728 329	41 779	–	31 826	X	X
315191	Outerwear knitting mills	2001	39 920	273 445	18 782	–	21 138	9	18
		2000	46 098	451 818	25 033	–	21 065	6	17
		1999	45 344	469 349	24 876	–	20 468	7	13
		1998	44 721	388 660	25 711	–	19 009	3	2
		1997	65 494	633 102	36 082	–	29 412	X	X
315192	Underwear & nightwear knitting mills	2001	9 451	95 950	4 706	–	4 744	4	1
		2000	8 964	104 562	4 712	–	4 252	4	1
		1999	9 836	129 699	5 951	–	3 885	3	1
		1998	7 978	108 666	5 063	–	2 915	20	7
		1997	8 111	95 227	5 697	–	2 414	X	X
3152	Cut & sew apparel mfg	2001	412 145	4 500 877	304 090	5 929	108 055	9	11
		2000	421 718	4 629 720	306 310	5 843	115 408	5	6
		1999	425 997	4 330 504	307 822	594	118 176	4	5
		1998	479 040	4 623 092	342 183	D	136 857	2	1
		1997	492 393	4 801 797	352 440	D	139 953	X	X
31521	Cut & sew apparel contractors	2001	121 467	1 276 157	85 446	536	36 021	28	27
		2000	111 338	1 254 234	78 355	555	32 983	14	15
		1999	134 260	1 348 858	94 297	594	39 963	9	11
		1998	212 137	1 837 684	145 981	S	66 156	4	2
		1997	225 238	2 008 442	162 141	–	63 097	X	X
315211	Men's & boys' cut & sew apparel contractors	2001	30 052	331 594	18 942	536	11 110	12	11
		2000	31 585	355 912	20 468	555	11 117	10	15
		1999	33 220	393 638	21 789	594	11 431	9	12
		1998	40 255	429 924	24 747	–	15 508	7	2
		1997	30 067	346 075	22 425	–	7 642	X	X
315212	Women's, girls', & infants' cut & sew apparel contractors	2001	91 415	944 564	66 503	–	24 911	36	39
		2000	79 753	898 322	57 887	–	21 866	18	22
		1999	101 041	955 220	72 508	–	28 533	12	15
		1998	171 882	1 407 760	121 234	S	50 648	4	3
		1997	195 171	1 662 367	139 716	–	55 455	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
315	Apparel mfg—Con.								
3152	Cut & sew apparel mfg—Con.								
31522	Men's & boys' cut & sew apparel mfg	2001	153 085	1 786 187	114 468	5 393	38 616	8	9
		2000	151 236	1 662 035	107 022	5 288	44 214	6	5
		1999	145 192	1 589 030	105 014	–	40 178	4	5
		1998	123 859	1 439 591	91 884	D	31 975	1	1
		1997	129 392	1 479 108	90 549	D	38 843	X	X
315221	Men's & boys' cut & sew underwear & nightwear mfg	2001	6 473	51 476	2 838	–	3 634	11	10
		2000	8 370	101 370	4 703	–	3 666	6	7
		1999	6 931	76 702	3 480	–	3 451	7	7
		1998	4 901	50 798	2 937	–	1 964	1	1
		1997	11 035	105 470	5 486	–	5 549	X	X
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	2001	12 422	103 777	8 572	5 393	3 849	11	7
		2000	14 456	136 958	10 716	5 288	3 739	15	7
		1999	14 574	144 727	10 587	–	3 987	14	5
		1998	14 868	144 707	10 826	–	4 042	1	1
		1997	16 085	149 767	11 509	–	4 576	X	X
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	2001	27 947	370 234	21 600	–	6 347	10	8
		2000	36 537	410 110	24 506	–	12 031	7	5
		1999	38 428	474 995	28 073	–	10 355	7	5
		1998	30 771	377 390	24 100	D	6 670	2	3
		1997	37 121	451 137	28 176	–	8 945	X	X
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	2001	80 093	943 082	61 336	–	18 757	14	16
		2000	65 560	698 825	47 032	–	18 529	12	10
		1999	60 927	611 575	44 131	–	16 796	6	6
		1998	45 397	549 736	33 056	–	12 341	1	2
		1997	37 907	427 334	25 008	–	12 899	X	X
315225	Men's & boys' cut & sew work clothing mfg	2001	15 109	198 147	12 158	–	2 951	5	45
		2000	15 051	194 899	12 124	–	2 927	3	45
		1999	14 193	177 517	11 707	–	2 486	2	53
		1998	16 194	183 889	12 202	–	3 992	2	3
		1997	14 987	205 512	11 154	–	3 833	X	X
315228	Men's & boys' cut & sew other outerwear mfg	2001	11 041	119 471	7 964	–	3 078	10	15
		2000	11 262	119 873	7 941	–	3 321	9	11
		1999	10 140	103 513	7 036	–	3 104	8	9
		1998	11 728	133 069	8 762	–	2 965	2	4
		1997	12 257	139 888	9 216	–	3 041	X	X
31523	Women's & girls' cut & sew apparel mfg	2001	123 658	1 281 866	92 839	–	30 818	14	18
		2000	144 652	1 527 171	109 686	–	34 966	7	10
		1999	131 500	1 198 082	96 585	–	34 915	7	10
		1998	130 455	1 195 411	94 183	–	36 272	3	3
		1997	124 238	1 138 306	88 496	–	35 742	X	X
315231	Women's & girls' cut/sew lingerie & nightwear mfg	2001	13 148	177 969	11 353	–	1 795	10	30
		2000	13 675	185 546	11 969	–	1 706	8	23
		1999	15 316	199 302	13 090	–	2 226	11	12
		1998	14 895	206 947	12 386	–	2 509	5	4
		1997	16 709	242 349	14 310	–	2 399	X	X
315232	Women's & girls' cut & sew blouse & shirt mfg	2001	12 470	140 346	10 084	–	2 385	19	36
		2000	21 173	211 660	15 552	–	5 621	15	17
		1999	31 660	233 831	20 883	–	10 777	18	25
		1998	21 892	180 235	15 382	–	6 510	6	5
		1997	17 526	141 706	12 112	–	5 414	X	X
315233	Women's & girls' cut & sew dress mfg	2001	26 059	275 583	20 923	–	5 136	36	22
		2000	27 174	269 547	21 095	–	6 079	17	9
		1999	21 207	168 334	15 603	–	5 604	12	9
		1998	21 351	181 106	16 540	–	4 811	6	11
		1997	23 080	168 000	15 529	–	7 551	X	X
315234	Women's & girls' cut & sew suit, coat, skirt mfg	2001	6 130	52 687	3 500	–	2 629	57	35
		2000	8 695	80 365	5 407	–	3 288	37	27
		1999	10 821	87 485	7 012	–	3 809	25	20
		1998	13 110	97 467	8 434	–	4 677	1	3
		1997	13 877	108 312	9 122	–	4 755	X	X
315239	Women's & girls' cut & sew other outerwear mfg	2001	65 851	635 280	46 979	–	18 872	21	27
		2000	73 934	780 053	55 663	–	18 272	11	17
		1999	52 497	509 129	39 998	–	12 499	11	17
		1998	59 206	529 656	41 441	D	17 765	4	5
		1997	53 046	477 939	37 423	–	15 623	X	X
31529	Other cut & sew apparel mfg	2001	13 936	156 667	11 337	–	2 599	4	7
		2000	14 493	186 280	11 247	–	3 246	3	9
		1999	15 044	194 534	11 926	–	3 119	7	17
		1998	12 589	150 407	10 135	D	2 454	10	5
		1997	13 525	175 941	11 254	D	2 271	X	X
315291	Infants' cut & sew apparel mfg	2001	4 212	51 592	3 551	–	660	5	13
		2000	4 647	80 225	3 583	–	1 064	4	24
		1999	6 409	100 112	5 115	–	1 294	15	38
		1998	4 973	74 300	4 397	D	576	1	1
		1997	4 773	77 441	4 223	D	550	X	X
315292	Fur & leather apparel mfg	2001	1 948	20 092	1 664	–	284	13	28
		2000	2 109	22 158	1 761	–	348	13	24
		1999	1 527	15 593	1 324	–	203	15	22
		1998	1 302	11 430	1 113	–	190	18	13
		1997	1 494	13 292	1 314	–	180	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
315	Apparel mfg—Con.								
3152	Cut & sew apparel mfg—Con.								
31529	Other cut & sew apparel mfg—Con.								
315299	All other cut & sew apparel mfg	2001..	7 775	84 982	6 121	–	1 654	5	8
		2000..	7 736	83 897	5 903	–	1 833	4	6
		1999..	7 108	78 829	5 486	–	1 622	3	11
		1998..	6 313	64 677	4 625	–	1 688	23	7
		1997..	7 258	85 208	5 717	–	1 541	X	X
3159	Apparel accessories & other apparel mfg	2001..	35 762	352 072	24 317	–	11 445	4	7
		2000..	36 430	382 008	25 678	–	10 752	3	6
		1999..	35 980	377 634	26 467	–	9 513	3	3
		1998..	37 490	384 305	27 035	–	10 455	3	4
		1997..	35 903	356 321	25 337	–	10 566	X	X
31599	Apparel accessories & other apparel mfg	2001..	35 762	352 072	24 317	–	11 445	4	7
		2000..	36 430	382 008	25 678	–	10 752	3	6
		1999..	35 980	377 634	26 467	–	9 513	3	3
		1998..	37 490	384 305	27 035	–	10 455	3	4
		1997..	35 903	356 321	25 337	–	10 566	X	X
315991	Hat, cap, & millinery mfg	2001..	10 731	100 002	6 960	–	3 771	9	20
		2000..	10 074	103 783	6 921	–	3 153	6	19
		1999..	9 849	100 445	6 964	–	2 886	6	7
		1998..	10 159	105 412	7 254	–	2 905	2	2
		1997..	9 776	100 493	6 976	–	2 800	X	X
315992	Glove & mitten mfg	2001..	3 242	39 415	2 392	–	850	9	17
		2000..	3 117	38 199	2 329	–	787	9	19
		1999..	3 454	41 354	2 626	–	827	9	19
		1998..	4 695	53 819	3 227	–	1 468	2	1
		1997..	4 527	49 149	3 049	–	1 478	X	X
315993	Men's & boys' neckwear mfg	2001..	1 920	18 380	1 378	–	542	10	4
		2000..	1 994	18 670	1 404	–	590	10	12
		1999..	2 231	19 677	1 616	–	615	11	6
		1998..	2 732	22 232	1 814	–	918	2	8
		1997..	2 907	28 734	2 099	–	808	X	X
315999	Other apparel accessories & other apparel mfg	2001..	19 870	194 275	13 587	–	6 283	4	5
		2000..	21 245	221 356	15 023	–	6 222	4	5
		1999..	20 446	216 157	15 261	–	5 185	3	4
		1998..	19 904	202 841	14 740	–	5 164	5	7
		1997..	18 693	177 945	13 213	–	5 480	X	X
316	Leather & allied product mfg	2001..	88 332	822 880	55 534	D	32 798	6	7
		2000..	92 268	900 794	60 379	D	31 889	4	4
		1999..	81 209	841 834	55 796	D	25 414	2	4
		1998..	86 326	877 643	58 622	943	27 704	2	2
		1997..	93 127	938 329	62 032	1 419	31 095	X	X
3161	Leather & hide tanning & finishing	2001..	44 824	366 609	22 742	D	22 082	14	10
		2000..	46 548	396 340	24 931	D	21 618	9	5
		1999..	36 933	340 038	20 561	D	16 372	4	5
		1998..	37 832	346 906	21 280	D	16 552	2	3
		1997..	42 378	377 208	22 757	D	19 621	X	X
31611	Leather & hide tanning & finishing	2001..	44 824	366 609	22 742	D	22 082	14	10
		2000..	46 548	396 340	24 931	D	21 618	9	5
		1999..	36 933	340 038	20 561	D	16 372	4	5
		1998..	37 832	346 906	21 280	D	16 552	2	3
		1997..	42 378	377 208	22 757	D	19 621	X	X
316110	Leather & hide tanning & finishing	2001..	44 824	366 609	22 742	D	22 082	14	10
		2000..	46 548	396 340	24 931	D	21 618	9	5
		1999..	36 933	340 038	20 561	D	16 372	4	5
		1998..	37 832	346 906	21 280	D	16 552	2	3
		1997..	42 378	377 208	22 757	D	19 621	X	X
3162	Footwear mfg	2001..	26 185	285 713	21 095	–	5 090	4	7
		2000..	27 286	313 496	22 287	–	4 999	4	7
		1999..	26 492	316 093	22 529	–	3 962	3	5
		1998..	26 593	296 898	21 691	–	4 903	4	7
		1997..	30 020	341 522	24 394	D	5 626	X	X
31621	Footwear mfg	2001..	26 185	285 713	21 095	–	5 090	4	7
		2000..	27 286	313 496	22 287	–	4 999	4	7
		1999..	26 492	316 093	22 529	–	3 962	3	5
		1998..	26 593	296 898	21 691	–	4 903	4	7
		1997..	30 020	341 522	24 394	D	5 626	X	X
316211	Rubber & plastics footwear mfg	2001..	D	91 041	7 287	–	D	7	X
		2000..	D	98 244	7 302	–	D	6	X
		1999..	D	92 591	7 006	–	D	4	X
		1998..	D	92 079	6 808	–	D	2	X
		1997..	D	103 079	7 460	–	D	X	X
316212	House slipper mfg	2001..	D	20 585	1 388	–	D	1	X
		2000..	D	24 394	1 636	–	D	1	X
		1999..	D	23 246	1 602	–	D	1	X
		1998..	D	24 157	1 689	D	D	4	X
		1997..	D	23 947	1 806	D	D	X	X
316213	Men's footwear (except athletic) mfg	2001..	11 594	134 421	9 847	–	1 746	7	19
		2000..	11 492	138 703	9 863	–	1 629	6	20
		1999..	10 989	148 062	10 079	–	911	6	14
		1998..	10 078	129 847	9 157	–	921	4	16
		1997..	11 753	149 553	10 199	–	1 554	X	X
316214	Women's footwear (except athletic) mfg	2001..	2 292	29 962	1 809	–	483	13	14
		2000..	3 269	39 952	2 484	–	785	9	18
		1999..	3 153	33 079	2 378	–	775	9	16
		1998..	2 838	25 734	2 207	–	631	38	5
		1997..	4 118	43 840	3 302	–	816	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
316	Leather & allied product mfg—Con.								
3162	Footwear mfg—Con.								
31621	Footwear mfg—Con.								
316219	Other footwear mfg	2001	1 053	9 705	763	–	290	12	33
		2000	1 304	12 203	1 001	–	303	10	26
		1999	1 677	19 116	1 465	–	212	7	41
		1998	2 436	25 081	1 829	–	606	8	46
		1997	2 000	21 103	1 627	–	373	X	X
3169	Other leather & allied product mfg	2001	17 324	170 558	11 698	–	5 625	4	12
		2000	18 434	190 958	13 161	–	5 273	4	12
		1999	17 785	185 703	12 705	–	5 080	3	11
		1998	21 900	233 839	15 651	D	6 249	2	4
		1997	20 729	219 599	14 881	–	5 848	X	X
31699	Other leather & allied product mfg	2001	17 324	170 558	11 698	–	5 625	4	12
		2000	18 434	190 958	13 161	–	5 273	4	12
		1999	17 785	185 703	12 705	–	5 080	3	11
		1998	21 900	233 839	15 651	D	6 249	2	4
		1997	20 729	219 599	14 881	–	5 848	X	X
316991	Luggage mfg	2001	5 380	60 815	4 364	–	1 015	7	21
		2000	5 967	69 571	4 811	–	1 155	5	16
		1999	6 199	74 946	4 899	–	1 300	4	11
		1998	6 933	85 520	5 498	–	1 436	2	1
		1997	7 158	85 107	5 615	–	1 543	X	X
316992	Women's handbag & purse mfg	2001	1 528	11 432	908	–	620	23	14
		2000	1 795	14 967	1 217	–	579	2	10
		1999	1 452	10 791	967	–	486	3	10
		1998	1 749	13 385	1 083	–	666	1	7
		1997	1 763	14 422	1 144	–	619	X	X
316993	Personal leather good (except women's handbag & purse) mfg	2001	2 608	25 014	1 797	–	811	5	10
		2000	2 389	24 900	1 895	–	494	4	14
		1999	2 014	18 878	1 540	–	473	5	11
		1998	2 486	24 099	1 831	D	655	3	3
		1997	2 656	25 216	1 950	–	706	X	X
316999	All other leather good mfg	2001	7 808	73 297	4 628	–	3 180	8	20
		2000	8 283	81 521	5 238	–	3 045	8	19
		1999	8 120	81 088	5 299	–	2 821	5	19
		1998	10 732	110 836	7 239	–	3 492	5	7
		1997	9 152	94 854	6 172	–	2 980	X	X
321	Wood product mfg	2001	1 729 205	21 878 690	1 166 569	526 347	562 636	1	2
		2000	1 703 875	23 246 871	1 160 019	531 034	543 856	1	1
		1999	1 603 036	23 265 887	1 144 811	585 461	458 225	1	1
		1998	1 530 422	22 280 704	1 112 116	621 889	418 306	1	1
		1997	1 512 313	21 861 363	1 095 563	578 072	416 750	X	X
3211	Sawmills & wood preservation	2001	564 608	6 863 160	387 672	395 648	176 937	2	4
		2000	564 904	7 285 493	382 591	392 533	182 313	2	3
		1999	555 266	7 552 173	391 542	434 544	163 724	2	3
		1998	528 623	7 214 562	382 162	505 896	146 461	1	2
		1997	522 092	7 129 981	373 861	446 243	148 231	X	X
32111	Sawmills & wood preservation	2001	564 608	6 863 160	387 672	395 648	176 937	2	4
		2000	564 904	7 285 493	382 591	392 533	182 313	2	3
		1999	555 266	7 552 173	391 542	434 544	163 724	2	3
		1998	528 623	7 214 562	382 162	505 896	146 461	1	2
		1997	522 092	7 129 981	373 861	446 243	148 231	X	X
321113	Sawmills	2001	525 966	6 565 505	368 089	395 648	157 877	2	4
		2000	525 385	6 953 759	362 946	392 533	162 439	2	4
		1999	516 324	7 220 740	371 483	434 544	144 840	2	3
		1998	490 541	6 876 109	363 071	505 896	127 470	1	3
		1997	483 126	6 797 781	354 909	446 243	128 217	X	X
321114	Wood preservation	2001	38 642	297 654	19 583	–	19 060	3	10
		2000	39 519	331 734	19 645	–	19 874	3	7
		1999	38 942	331 433	20 059	–	18 884	3	9
		1998	38 082	338 453	19 090	–	18 992	2	4
		1997	38 966	332 200	18 952	–	20 014	X	X
3212	Veneer, plywood, & engineered wood product mfg	2001	720 919	9 474 432	444 752	78 155	276 167	1	2
		2000	698 205	10 160 687	444 197	77 941	254 008	1	2
		1999	629 211	10 116 004	432 100	84 747	197 111	1	1
		1998	598 755	9 641 286	418 543	94 765	180 212	1	1
		1997	601 981	9 538 056	424 575	112 696	177 406	X	X
32121	Veneer, plywood, & engineered wood product mfg	2001	720 919	9 474 432	444 752	78 155	276 167	1	2
		2000	698 205	10 160 687	444 197	77 941	254 008	1	2
		1999	629 211	10 116 004	432 100	84 747	197 111	1	1
		1998	598 755	9 641 286	418 543	94 765	180 212	1	1
		1997	601 981	9 538 056	424 575	112 696	177 406	X	X
321211	Hardwood veneer & plywood mfg	2001	64 191	769 024	41 705	D	22 487	4	8
		2000	60 629	765 760	41 335	D	19 294	3	7
		1999	54 108	716 954	38 199	D	15 909	2	13
		1998	52 999	735 906	38 858	D	14 141	2	3
		1997	51 302	705 660	38 017	D	13 285	X	X
321212	Softwood veneer & plywood mfg	2001	167 405	2 466 767	118 093	D	49 312	2	6
		2000	172 842	2 715 491	119 722	55 311	53 120	2	3
		1999	162 528	2 716 977	116 805	D	45 722	1	3
		1998	153 330	2 693 745	112 385	D	40 945	1	3
		1997	158 317	2 732 939	116 459	D	41 858	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column— C	Relative standard error of estimate[1] (percent) for column— E
			A	B	C	D	E	C	E
321	Wood product mfg—Con.								
3212	Veneer, plywood, & engineered wood product mfg—Con.								
32121	Veneer, plywood, & engineered wood product mfg—Con.								
321213	Engineered wood member (except truss) mfg	2001	29 301	463 283	21 143	–	8 158	7	8
		2000	25 112	483 525	19 046	–	6 066	4	3
		1999	26 331	478 141	19 725	–	6 606	4	6
		1998	22 193	411 121	17 964	–	4 228	1	6
		1997	22 279	390 998	18 052	–	4 227	X	X
321214	Truss mfg	2001	23 645	248 318	16 187	–	7 458	4	10
		2000	21 406	246 069	14 735	–	6 671	4	10
		1999	20 965	230 849	14 309	–	6 656	3	10
		1998	22 338	232 837	13 885	–	8 454	4	11
		1997	19 208	200 421	12 164	–	7 044	X	X
321219	Reconstituted wood product mfg	2001	436 376	5 527 040	247 623	D	188 753	2	3
		2000	418 217	5 949 843	249 360	D	168 857	1	2
		1999	365 278	5 973 083	243 061	D	122 217	1	1
		1998	347 895	5 567 677	235 451	D	112 444	1	1
		1997	350 875	5 508 038	239 883	D	110 992	X	X
3219	Other wood product mfg	2001	443 678	5 541 098	334 146	52 545	109 532	2	3
		2000	440 766	5 800 691	333 231	60 560	107 535	2	3
		1999	418 560	5 597 709	321 169	66 170	97 391	1	3
		1998	403 045	5 424 857	311 411	21 228	91 633	1	2
		1997	388 240	5 193 326	297 127	19 133	91 113	X	X
32191	Millwork	2001	252 124	3 366 938	195 625	46 129	56 499	2	5
		2000	245 693	3 498 659	191 667	52 501	54 026	2	5
		1999	228 969	3 313 911	182 918	58 480	46 051	2	4
		1998	220 645	3 285 012	179 223	D	41 422	1	3
		1997	213 059	3 145 235	170 536	D	42 523	X	X
321911	Wood window & door mfg	2001	91 662	1 245 901	68 689	1 570	22 973	4	7
		2000	84 485	1 253 019	64 788	D	19 697	4	9
		1999	78 453	1 193 578	62 051	D	16 402	3	10
		1998	75 733	1 133 085	60 668	–	15 066	2	2
		1997	72 130	1 065 906	56 787	–	15 343	X	X
321912	Cut stock, resawing lumber, & planing	2001	90 650	1 169 322	69 799	D	20 851	5	9
		2000	92 710	1 268 638	71 286	D	21 423	5	7
		1999	87 989	1 186 794	68 850	D	19 139	4	5
		1998	88 846	1 237 922	70 108	D	18 739	2	6
		1997	85 927	1 183 669	66 593	D	19 334	X	X
321918	Other millwork (including flooring)	2001	69 813	951 715	57 138	D	12 675	3	7
		2000	68 498	977 002	55 593	D	12 906	3	7
		1999	62 526	933 540	52 017	D	10 510	3	7
		1998	56 065	914 005	48 448	D	7 617	2	6
		1997	55 002	895 660	47 156	D	7 846	X	X
32192	Wood container & pallet mfg	2001	70 183	776 617	50 340	1 246	19 843	4	7
		2000	73 656	847 937	51 593	1 306	22 063	3	7
		1999	69 683	807 943	49 189	1 373	20 495	3	7
		1998	69 439	792 101	48 930	S	20 509	1	3
		1997	66 246	766 310	47 160	S	19 086	X	X
321920	Wood container & pallet mfg	2001	70 183	776 617	50 340	1 246	19 843	4	7
		2000	73 656	847 937	51 593	1 306	22 063	3	7
		1999	69 683	807 943	49 189	1 373	20 495	3	7
		1998	69 439	792 101	48 930	S	20 509	1	3
		1997	66 246	766 310	47 160	S	19 086	X	X
32199	All other wood product mfg	2001	121 370	1 397 542	88 180	5 170	33 190	2	4
		2000	121 416	1 454 095	89 971	6 753	31 445	2	3
		1999	119 908	1 475 855	89 062	6 317	30 845	2	3
		1998	112 960	1 347 744	83 258	D	29 703	1	4
		1997	108 935	1 281 781	79 431	D	29 504	X	X
321991	Manufactured home (mobile home) mfg	2001	30 253	318 655	22 975	–	7 278	3	6
		2000	31 015	364 274	24 599	–	6 416	2	6
		1999	33 242	389 189	25 941	–	7 301	2	6
		1998	32 419	390 263	25 203	–	7 216	1	2
		1997	30 559	354 271	23 178	–	7 381	X	X
321992	Prefabricated wood building mfg	2001	17 406	171 217	11 163	–	6 243	5	7
		2000	17 878	186 210	12 138	–	5 740	8	7
		1999	16 209	181 217	10 908	–	5 301	8	7
		1998	15 774	159 360	9 792	–	5 983	5	13
		1997	14 044	147 142	9 041	–	5 003	X	X
321999	All other miscellaneous wood product mfg	2001	73 712	907 670	54 042	5 170	19 670	3	6
		2000	72 523	903 610	53 234	6 753	19 289	3	5
		1999	70 457	905 449	52 213	6 317	18 243	3	3
		1998	64 767	798 121	48 263	D	16 504	1	4
		1997	64 332	780 368	47 212	D	17 120	X	X
322	Paper mfg	2001	7 314 063	72 434 897	3 181 003	37 458 586	4 133 060	1	1
		2000	6 930 983	73 834 800	3 181 254	41 329 718	3 749 730	1	1
		1999	5 981 792	70 905 868	2 927 303	44 663 651	3 054 489	1	1
		1998	5 929 870	72 605 312	2 910 744	46 347 551	3 019 126	1	1
		1997	6 274 284	70 052 067	2 910 025	44 958 910	3 364 259	X	X
3221	Pulp, paper, & paperboard mills	2001	6 102 049	60 064 453	2 418 476	37 450 271	3 683 574	1	1
		2000	5 818 738	61 368 073	2 445 239	41 319 251	3 373 500	1	1
		1999	4 972 496	58 854 572	2 223 858	44 650 488	2 748 638	1	1
		1998	4 926 725	60 795 192	2 209 596	46 307 130	2 717 129	1	1
		1997	5 267 643	58 654 352	2 230 784	44 959 981	3 036 859	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
322	Paper mfg—Con.								
3221	Pulp, paper, & paperboard mills—Con.								
32211	Pulp mills	2001..	247 724	1 692 268	81 083	2 622 438	166 641	11	2
		2000..	256 450	2 030 193	87 669	2 520 322	168 782	8	2
		1999..	202 302	1 884 604	74 948	2 397 790	127 354	3	1
		1998..	199 978	1 866 698	75 101	2 162 434	124 877	1	2
		1997..	217 771	1 707 732	72 262	2 435 300	145 509	X	X
322110	Pulp mills	2001..	247 724	1 692 268	81 083	2 622 438	166 641	11	2
		2000..	256 450	2 030 193	87 669	2 520 322	168 782	8	2
		1999..	202 302	1 884 604	74 948	2 397 790	127 354	3	1
		1998..	199 978	1 866 698	75 101	2 162 434	124 877	1	2
		1997..	217 771	1 707 732	72 262	2 435 300	145 509	X	X
32212	Paper mills	2001..	3 467 096	36 721 665	1 441 777	21 139 076	2 025 320	1	1
		2000..	3 366 879	38 170 904	1 505 392	24 955 972	1 861 487	1	1
		1999..	2 967 722	37 749 701	1 422 198	26 421 800	1 545 524	1	1
		1998..	2 951 478	40 385 388	1 434 320	27 883 337	1 517 158	1	1
		1997..	3 213 063	38 653 171	1 473 724	25 774 198	1 739 339	X	X
322121	Paper (except newsprint) mills	2001..	2 895 113	25 915 995	1 098 284	18 065 689	1 796 830	1	1
		2000..	2 776 842	26 795 659	1 126 499	21 158 772	1 650 344	1	1
		1999..	2 443 754	27 026 161	1 075 972	22 429 842	1 367 783	1	1
		1998..	2 377 381	27 800 000	1 042 598	23 287 000	1 334 783	2	1
		1997..	2 606 287	26 641 667	1 086 483	21 586 383	1 519 804	X	X
322122	Newsprint mills	2001..	571 983	10 805 671	343 493	3 073 387	228 490	2	1
		2000..	590 037	11 375 244	378 893	3 797 200	211 144	1	1
		1999..	523 968	10 723 540	346 227	3 991 958	177 741	1	1
		1998..	574 097	12 585 388	391 722	4 596 337	182 375	3	1
		1997..	606 776	12 011 504	387 241	4 187 815	219 535	X	X
32213	Paperboard mills	2001..	2 387 229	21 650 520	895 616	13 688 757	1 491 613	1	1
		2000..	2 195 409	21 166 976	852 178	13 842 958	1 343 231	1	1
		1999..	1 802 472	19 220 266	726 712	15 830 898	1 075 761	1	1
		1998..	1 775 269	18 543 107	700 175	16 261 359	1 075 094	1	1
		1997..	1 836 809	18 293 449	684 798	16 750 483	1 152 011	X	X
322130	Paperboard mills	2001..	2 387 229	21 650 520	895 616	13 688 757	1 491 613	1	1
		2000..	2 195 409	21 166 976	852 178	13 842 958	1 343 231	1	1
		1999..	1 802 472	19 220 266	726 712	15 830 898	1 075 761	1	1
		1998..	1 775 269	18 543 107	700 175	16 261 359	1 075 094	1	1
		1997..	1 836 809	18 293 449	684 798	16 750 483	1 152 011	X	X
3222	Converted paper product mfg	2001..	1 212 014	12 370 444	762 527	8 315	449 486	1	2
		2000..	1 112 245	12 466 727	736 015	10 467	376 230	1	2
		1999..	1 009 296	12 051 296	703 445	13 163	305 851	1	2
		1998..	1 003 145	11 810 119	701 148	S	301 997	1	2
		1997..	1 006 641	11 397 715	679 241	S	327 400	X	X
32221	Paperboard container mfg	2001..	677 382	6 558 051	415 930	D	261 452	1	2
		2000..	609 833	6 422 324	394 969	8 902	214 864	1	2
		1999..	547 813	6 181 290	375 583	9 629	172 230	1	2
		1998..	548 517	6 166 221	382 798	D	165 719	1	3
		1997..	541 941	5 824 745	358 855	D	183 086	X	X
322211	Corrugated & solid fiber box mfg	2001..	475 266	4 012 780	262 910	3 592	212 356	2	2
		2000..	420 750	3 867 224	243 855	D	176 894	1	2
		1999..	368 178	3 750 941	231 407	D	136 771	1	3
		1998..	361 312	3 627 627	229 481	D	131 831	2	3
		1997..	357 954	3 432 630	215 139	D	142 815	X	X
322212	Folding paperboard box mfg	2001..	118 264	1 382 100	90 329	–	27 935	2	6
		2000..	108 666	1 394 046	88 194	–	20 472	2	7
		1999..	100 281	1 314 894	81 794	–	18 487	2	7
		1998..	111 654	1 449 522	89 417	–	22 238	1	2
		1997..	109 340	1 359 925	85 707	–	23 633	X	X
322213	Setup paperboard box mfg	2001..	5 721	47 755	3 818	–	1 903	8	9
		2000..	6 153	49 737	4 098	–	2 055	8	9
		1999..	S	S	S	–	S	6	6
		1998..	S	S	S	S	S	X	X
		1997..	7 604	73 019	5 013	–	2 591	X	X
322214	Fiber can, tube, drum, & similar products mfg	2001..	25 209	262 387	17 063	D	8 146	5	7
		2000..	25 449	274 707	18 227	D	7 222	4	4
		1999..	25 434	280 787	18 510	D	6 924	3	5
		1998..	23 250	273 398	17 288	D	5 963	2	3
		1997..	23 651	267 511	17 208	D	6 443	X	X
322215	Nonfolding sanitary food container mfg	2001..	52 921	853 030	41 810	–	11 111	1	3
		2000..	48 815	836 610	40 594	–	8 221	1	5
		1999..	47 454	776 806	39 464	–	7 990	1	5
		1998..	43 715	678 266	36 368	–	7 347	1	2
		1997..	43 392	691 660	35 788	–	7 604	X	X
32222	Paper bag & coated & treated paper mfg	2001..	285 347	2 646 672	158 175	D	127 172	3	2
		2000..	268 665	2 849 192	158 764	D	109 901	1	2
		1999..	240 114	2 742 350	154 663	D	85 451	1	2
		1998..	244 738	2 812 063	155 902	D	88 837	1	2
		1997..	259 282	2 827 607	158 498	D	100 784	X	X
322221	Coated & laminated packaging paper & plastics film mfg	2001..	26 331	261 936	16 362	–	9 968	7	7
		2000..	25 382	274 056	16 447	–	8 935	8	8
		1999..	22 414	276 355	15 769	–	6 645	8	4
		1998..	21 545	257 742	14 933	–	6 612	7	25
		1997..	22 751	270 926	15 844	–	6 907	X	X
322222	Coated & laminated paper mfg	2001..	187 592	1 641 543	96 606	D	90 986	4	2
		2000..	176 077	1 772 466	97 583	1 807	78 494	1	2
		1999..	156 125	1 659 148	94 024	3 753	62 100	1	2
		1998..	154 017	1 646 240	91 144	D	62 873	1	1
		1997..	166 078	1 662 798	92 811	D	73 267	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
322	Paper mfg—Con.								
3222	Converted paper product mfg—Con.								
32222	Paper bag & coated & treated paper mfg—Con.								
322223	Plastics, foil, & coated paper bag mfg	2001	5 045	44 579	3 206	–	1 839	8	3
		2000	4 703	43 129	3 145	–	1 557	8	4
		1999	4 579	47 360	3 308	–	1 272	8	4
		1998	5 535	57 966	4 213	–	1 321	2	7
		1997	5 603	61 068	4 299	–	1 304	X	X
322224	Uncoated paper & multiwall bag mfg	2001	28 892	345 881	20 508	D	8 384	5	8
		2000	28 462	363 236	20 430	D	8 032	4	7
		1999	27 413	384 573	20 822	D	6 592	4	7
		1998	28 058	406 447	21 821	–	6 237	1	2
		1997	28 289	408 930	21 913	–	6 376	X	X
322225	Laminated aluminum foil mfg for flexible packaging uses	2001	27 418	243 887	15 309	–	12 108	2	3
		2000	23 095	248 130	13 978	–	9 117	3	3
		1999	21 072	253 063	14 266	–	6 805	1	5
		1998	23 874	290 876	15 247	–	8 627	3	1
		1997	25 260	271 216	14 937	–	10 323	X	X
322226	Surface-coated paperboard mfg	2001	10 069	108 846	6 183	–	3 886	7	7
		2000	10 945	148 176	7 180	–	3 766	6	19
		1999	8 511	121 851	6 474	–	2 037	6	23
		1998	11 709	152 792	8 543	–	3 166	1	6
		1997	11 301	152 669	8 694	–	2 607	X	X
32223	Stationery product mfg	2001	83 175	1 099 623	72 383	48	10 792	2	6
		2000	79 248	1 068 961	68 490	841	10 758	2	9
		1999	77 198	1 018 553	66 161	923	11 036	2	9
		1998	72 148	906 240	56 952	S	15 195	7	18
		1997	73 534	967 051	64 149	–	9 385	X	X
322231	Die-cut paper & paperboard office supplies mfg	2001	14 857	197 856	13 016	48	1 841	10	25
		2000	13 945	179 796	12 084	53	1 861	8	24
		1999	13 268	171 769	11 250	48	2 018	8	14
		1998	13 392	176 217	11 064	S	2 328	1	6
		1997	12 314	150 036	9 983	–	2 331	X	X
322232	Envelope mfg	2001	56 836	760 663	50 407	–	6 429	2	6
		2000	53 931	741 807	47 261	788	6 671	2	13
		1999	51 561	693 536	44 838	875	6 723	2	13
		1998	47 439	582 393	36 711	–	10 728	11	25
		1997	49 455	668 850	44 839	–	4 616	X	X
322233	Stationery, tablet, & related product mfg	2001	11 482	141 104	8 960	–	2 522	2	8
		2000	11 372	147 358	9 146	–	2 227	2	9
		1999	12 369	153 248	10 074	–	2 295	1	8
		1998	11 317	147 630	9 178	–	2 139	3	4
		1997	11 765	148 165	9 327	–	2 438	X	X
32229	Other converted paper product mfg	2001	166 110	2 066 098	116 040	68	50 070	5	9
		2000	154 499	2 126 250	113 793	D	40 706	4	6
		1999	144 170	2 109 103	107 037	D	37 133	4	9
		1998	137 742	1 925 595	105 496	S	32 246	1	3
		1997	131 884	1 778 312	97 739	S	34 145	X	X
322291	Sanitary paper product mfg	2001	54 867	955 865	47 947	–	6 920	5	9
		2000	54 350	967 172	47 750	D	6 600	5	3
		1999	55 119	1 036 959	48 682	D	6 438	5	3
		1998	59 361	1 102 286	54 019	S	5 342	1	18
		1997	63 938	1 055 559	52 502	S	11 436	X	X
322299	All other converted paper product mfg	2001	111 244	1 110 233	68 093	68	43 150	7	11
		2000	100 149	1 159 077	66 042	51	34 106	6	7
		1999	89 051	1 072 144	58 355	41	30 696	7	10
		1998	78 381	823 309	51 477	S	26 903	3	2
		1997	67 946	722 753	45 237	S	22 709	X	X
323	Printing & related support activities	2001	1 288 089	15 261 293	961 122	D	326 967	1	3
		2000	1 234 958	15 511 755	936 152	D	298 807	1	3
		1999	1 176 853	14 756 991	904 884	D	271 970	1	3
		1998	1 161 255	14 748 853	898 565	S	262 690	1	2
		1997	1 132 381	14 287 756	862 966	S	269 415	X	X
3231	Printing & related support activities	2001	1 288 089	15 261 293	961 122	D	326 967	1	3
		2000	1 234 958	15 511 755	936 152	D	298 807	1	3
		1999	1 176 853	14 756 991	904 884	D	271 970	1	3
		1998	1 161 255	14 748 853	898 565	S	262 690	1	2
		1997	1 132 381	14 287 756	862 966	S	269 415	X	X
32311	Printing	2001	1 219 709	14 466 289	905 002	D	314 708	1	3
		2000	1 160 928	14 641 796	877 215	D	283 713	1	3
		1999	1 101 913	13 877 784	844 743	D	257 170	1	3
		1998	1 084 170	13 753 733	835 866	S	248 304	1	2
		1997	1 058 338	13 346 932	804 256	S	254 082	X	X
323110	Commercial lithographic printing	2001	741 314	8 888 130	559 655	D	181 659	2	3
		2000	688 931	8 746 545	531 432	D	157 499	2	3
		1999	652 164	8 169 834	505 193	D	146 970	2	4
		1998	629 425	8 009 560	490 837	S	138 588	1	4
		1997	618 710	7 748 130	475 271	S	143 439	X	X
323111	Commercial gravure printing	2001	93 819	1 116 497	53 821	–	39 997	2	2
		2000	97 285	1 295 776	60 557	–	36 728	2	2
		1999	90 227	1 315 335	60 544	–	29 684	2	2
		1998	94 262	1 323 599	64 335	–	29 927	1	3
		1997	87 613	1 255 661	59 924	–	27 689	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
323	Printing & related support activities—Con.								
3231	Printing & related support activities—Con.								
32311	Printing—Con.								
323112	Commercial flexographic printing	2001	55 679	677 776	42 335	–	13 344	3	9
		2000	49 557	632 897	38 415	–	11 141	3	9
		1999	46 717	617 049	37 418	–	9 299	2	10
		1998	46 237	578 072	35 804	–	10 433	2	6
		1997	43 325	539 953	33 884	–	9 441	X	X
323113	Commercial screen printing	2001	77 910	750 978	50 871	D	27 040	5	12
		2000	83 098	821 730	54 417	D	28 681	4	9
		1999	70 766	744 331	50 387	D	20 379	4	7
		1998	72 891	790 474	52 601	–	20 290	7	9
		1997	75 736	771 158	51 818	–	23 918	X	X
323114	Quick printing	2001	30 287	383 872	26 568	–	3 718	7	A
		2000	30 581	422 114	26 626	–	3 955	6	A
		1999	34 866	408 228	28 332	–	6 535	4	40
		1998	42 879	483 963	33 417	–	9 462	13	6
		1997	36 746	414 150	27 402	–	9 344	X	X
323115	Digital printing	2001	5 102	62 594	4 115	–	987	13	12
		2000	5 487	73 070	4 351	–	1 136	11	12
		1999	4 186	49 034	3 394	–	793	7	9
		1998	4 048	42 541	2 924	–	1 124	1	13
		1997	3 442	38 469	2 590	–	852	X	X
323116	Manifold business form printing	2001	76 665	884 593	62 170	–	14 495	3	8
		2000	72 192	912 298	57 799	–	14 393	3	8
		1999	76 721	932 409	60 790	–	15 931	3	8
		1998	71 123	917 688	58 313	–	12 810	4	2
		1997	72 526	992 741	59 010	–	13 516	X	X
323117	Book printing	2001	84 897	1 095 405	62 964	–	21 933	3	4
		2000	81 519	1 129 594	62 856	–	18 663	3	4
		1999	77 054	1 089 229	60 391	–	16 664	2	5
		1998	71 779	1 029 758	57 303	–	14 475	2	5
		1997	70 825	1 028 126	55 509	–	15 316	X	X
323118	Blankbook, looseleaf binder, & device mfg	2001	14 406	182 457	12 022	–	2 384	5	9
		2000	14 520	195 593	12 440	–	2 080	4	9
		1999	14 735	181 445	12 644	–	2 092	3	9
		1998	17 146	210 094	14 363	–	2 784	4	4
		1997	17 163	210 638	14 388	–	2 775	X	X
323119	Other commercial printing	2001	39 631	423 988	30 480	–	9 150	8	13
		2000	37 759	412 179	28 322	–	9 437	8	15
		1999	34 476	370 890	25 652	–	8 824	8	15
		1998	34 382	367 985	25 969	–	8 413	6	8
		1997	32 252	347 906	24 460	–	7 792	X	X
32312	Support activities for printing	2001	68 380	795 004	56 121	–	12 259	4	8
		2000	74 030	869 959	58 937	–	15 094	4	6
		1999	74 940	879 207	60 140	–	14 800	4	6
		1998	77 085	995 119	62 699	–	14 386	3	4
		1997	74 043	940 824	58 710	–	15 333	X	X
323121	Tradebinding & related work	2001	26 809	302 742	22 039	–	4 770	6	13
		2000	30 166	343 508	24 085	–	6 081	6	10
		1999	29 056	322 971	23 230	–	5 827	5	12
		1998	29 361	436 882	23 277	–	6 084	5	3
		1997	26 806	392 985	20 414	–	6 392	X	X
323122	Prepress services	2001	41 571	492 262	34 081	–	7 489	6	10
		2000	43 864	526 451	34 852	–	9 013	5	8
		1999	45 884	556 237	36 911	–	8 973	6	7
		1998	47 724	558 237	39 422	–	8 301	3	6
		1997	47 237	547 839	38 296	–	8 941	X	X
324	Petroleum & coal products mfg	2001	7 700 311	41 507 221	1 935 743	13 245 859	5 764 568	1	1
		2000	7 162 962	39 375 128	1 867 878	13 583 470	5 295 084	1	1
		1999	4 875 703	33 321 870	1 449 987	16 207 130	3 425 715	1	1
		1998	4 378 239	33 810 947	1 465 773	13 969 030	2 912 467	1	1
		1997	4 710 953	39 986 851	1 909 641	9 087 663	2 801 312	X	X
3241	Petroleum & coal products mfg	2001	7 700 311	41 507 221	1 935 743	13 245 859	5 764 568	1	1
		2000	7 162 962	39 375 128	1 867 878	13 583 470	5 295 084	1	1
		1999	4 875 703	33 321 870	1 449 987	16 207 130	3 425 715	1	1
		1998	4 378 239	33 810 947	1 465 773	13 969 030	2 912 467	1	1
		1997	4 710 953	39 986 851	1 909 641	9 087 663	2 801 312	X	X
32411	Petroleum refineries	2001	7 095 356	38 436 769	1 736 049	13 194 884	5 359 306	1	1
		2000	6 564 400	36 087 866	1 661 190	D	4 903 210	1	1
		1999	4 388 893	30 438 306	1 270 892	16 165 988	3 118 001	1	1
		1998	3 873 669	30 816 592	1 281 883	13 837 013	2 591 785	1	1
		1997	4 181 276	37 019 576	1 725 681	8 940 712	2 455 595	X	X
324110	Petroleum refineries	2001	7 095 356	38 436 769	1 736 049	13 194 884	5 359 306	1	1
		2000	6 564 400	36 087 866	1 661 190	D	4 903 210	1	1
		1999	4 388 893	30 438 306	1 270 892	16 165 988	3 118 001	1	1
		1998	3 873 669	30 816 592	1 281 883	13 837 013	2 591 785	1	1
		1997	4 181 276	37 019 576	1 725 681	8 940 712	2 455 595	X	X
32412	Asphalt paving, roofing, & saturated materials mfg	2001	498 141	2 332 879	159 045	–	339 096	3	3
		2000	491 705	2 457 173	162 202	–	329 504	3	4
		1999	401 383	2 143 393	140 316	D	261 067	3	2
		1998	406 866	2 207 460	142 840	D	264 026	3	2
		1997	404 470	2 176 191	139 924	D	264 546	X	X
324121	Asphalt paving mixture & block mfg	2001	392 842	1 454 207	108 567	–	284 275	5	3
		2000	386 042	1 538 693	111 770	–	274 272	5	4
		1999	314 609	1 371 880	98 577	D	216 032	4	3
		1998	309 960	1 366 070	97 300	D	212 660	4	3
		1997	307 656	1 352 839	95 695	D	211 961	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
324	Petroleum & coal products mfg—Con.								
3241	Petroleum & coal products mfg—Con.								
32412	Asphalt paving, roofing, & saturated materials mfg—Con.								
324122	Asphalt shingle & coating materials mfg	2001	105 299	878 672	50 478	–	54 821	2	3
		2000	105 663	918 480	50 432	–	55 232	2	2
		1999	86 774	771 513	41 738	–	45 035	2	3
		1998	96 906	841 391	45 539	D	51 367	1	2
		1997	96 814	823 352	44 229	D	52 585	X	X
32419	Other petroleum & coal products mfg	2001	106 814	737 573	40 648	50 975	66 166	3	6
		2000	106 857	830 089	44 486	D	62 370	3	3
		1999	85 427	740 171	38 780	D	46 647	2	3
		1998	97 705	786 894	41 050	D	56 655	2	1
		1997	125 207	791 084	44 036	D	81 171	X	X
324191	Petroleum lubricating oil & grease mfg	2001	56 729	385 088	23 815	D	32 913	4	6
		2000	58 742	461 380	26 897	D	31 844	3	4
		1999	50 819	420 493	24 671	D	26 148	2	3
		1998	58 644	448 533	25 059	–	33 584	2	2
		1997	56 163	388 499	25 536	–	30 627	X	X
324199	All other petroleum & coal products mfg	2001	50 085	352 485	16 833	D	33 253	3	10
		2000	48 115	368 709	17 589	45 439	30 526	5	5
		1999	34 608	319 678	14 109	48 854	20 499	3	5
		1998	39 061	338 361	15 990	D	23 070	5	1
		1997	69 044	402 585	18 500	D	50 544	X	X
325	Chemical mfg	2001	16 321 777	151 817 252	6 419 120	34 783 649	9 902 657	1	1
		2000	15 283 814	162 902 228	6 462 796	34 765 395	8 821 018	1	1
		1999	12 390 997	158 893 177	6 005 148	38 152 270	6 385 849	1	1
		1998	11 483 556	152 539 603	5 888 317	32 657 444	5 595 239	1	1
		1997	11 719 648	157 082 253	5 877 499	27 051 632	5 842 149	X	X
3251	Basic chemical mfg	2001	9 217 024	91 180 499	3 426 786	21 353 987	5 790 238	2	2
		2000	8 594 969	102 089 383	3 564 216	20 535 312	5 030 754	2	2
		1999	6 826 152	97 229 106	3 230 911	23 771 455	3 595 242	1	2
		1998	6 502 315	94 641 574	3 266 398	18 746 540	3 235 918	1	1
		1997	6 759 780	101 717 750	3 299 597	15 925 121	3 460 183	X	X
32511	Petrochemical mfg	2001	1 948 750	4 896 923	208 377	5 176 968	1 740 374	1	1
		2000	1 762 697	5 000 372	205 752	5 093 323	1 556 945	1	1
		1999	1 239 278	5 427 354	195 579	6 188 508	1 043 699	1	1
		1998	1 017 634	4 802 229	186 870	1 259 816	830 764	1	1
		1997	987 936	3 887 828	161 955	1 745 783	825 981	X	X
325110	Petrochemical mfg	2001	1 948 750	4 896 923	208 377	5 176 968	1 740 374	1	1
		2000	1 762 697	5 000 372	205 752	5 093 323	1 556 945	1	1
		1999	1 239 278	5 427 354	195 579	6 188 508	1 043 699	1	1
		1998	1 017 634	4 802 229	186 870	1 259 816	830 764	1	1
		1997	987 936	3 887 828	161 955	1 745 783	825 981	X	X
32512	Industrial gas mfg	2001	1 034 873	21 560 287	795 667	D	239 206	8	8
		2000	1 006 382	22 538 587	775 520	D	230 863	7	8
		1999	952 373	19 472 523	694 983	D	257 390	2	6
		1998	946 963	20 047 040	746 674	–	200 289	1	1
		1997	884 803	18 799 015	704 038	–	180 765	X	X
325120	Industrial gas mfg	2001	1 034 873	21 560 287	795 667	D	239 206	8	8
		2000	1 006 382	22 538 587	775 520	D	230 863	7	8
		1999	952 373	19 472 523	694 983	D	257 390	2	6
		1998	946 963	20 047 040	746 674	–	200 289	1	1
		1997	884 803	18 799 015	704 038	–	180 765	X	X
32513	Dye & pigment mfg	2001	369 240	3 327 071	141 222	D	228 018	3	11
		2000	323 203	3 533 495	147 993	D	175 210	2	3
		1999	263 475	3 012 805	133 093	D	130 382	2	2
		1998	255 382	3 025 346	131 245	–	124 137	1	1
		1997	260 589	3 332 625	132 048	–	128 541	X	X
325131	Inorganic dye & pigment mfg	2001	273 628	2 565 402	98 602	–	175 026	4	15
		2000	232 919	2 700 513	103 687	–	129 232	3	4
		1999	190 564	2 327 748	94 333	–	96 231	1	2
		1998	188 552	2 389 665	95 258	–	93 294	1	1
		1997	189 187	2 497 102	93 756	–	95 431	X	X
325132	Synthetic organic dye & pigment mfg	2001	95 612	761 669	42 620	D	52 993	6	2
		2000	90 283	832 982	44 305	D	45 978	4	2
		1999	72 911	685 056	38 760	D	34 151	5	3
		1998	66 829	635 681	35 987	–	30 843	1	1
		1997	71 402	835 523	38 292	–	33 110	X	X
32518	Other basic inorganic chemical mfg	2001	1 758 679	34 742 960	1 144 697	3 035 555	613 982	2	2
		2000	1 861 269	43 816 699	1 336 503	2 853 212	524 766	2	3
		1999	1 652 828	44 494 500	1 258 477	D	394 352	2	3
		1998	1 692 709	41 930 312	1 232 407	3 993 897	460 302	1	3
		1997	1 735 463	49 422 372	1 306 092	3 304 377	429 371	X	X
325181	Alkalies & chlorine mfg	2001	624 088	11 467 021	399 786	D	224 302	1	1
		2000	654 702	14 076 476	460 041	D	194 661	1	1
		1999	519 123	12 243 728	373 339	D	145 784	1	1
		1998	495 842	10 606 303	365 011	D	130 831	1	1
		1997	527 228	12 638 258	382 104	D	145 124	X	X
325182	Carbon black mfg	2001	D	749 462	37 774	D	D	3	X
		2000	D	768 839	34 671	D	D	2	X
		1999	D	744 183	30 226	D	D	2	X
		1998	D	719 348	32 982	D	D	5	X
		1997	D	653 103	30 755	D	D	X	X
325188	All other basic inorganic chemical mfg	2001	D	22 526 477	707 136	D	D	4	X
		2000	D	28 971 384	841 791	40 500	D	3	X
		1999	D	31 506 590	854 911	161 129	D	2	X
		1998	D	30 604 661	834 413	913 765	D	1	X
		1997	D	36 131 011	893 233	52 199	D	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
325	Chemical mfg—Con.								
3251	Basic chemical mfg—Con.								
32519	Other basic organic chemical mfg	2001..	4 105 482	26 653 259	1 136 824	13 151 228	2 968 658	3	3
		2000..	3 641 419	27 200 231	1 098 448	12 609 763	2 542 971	4	3
		1999..	2 718 198	24 821 924	948 779	14 231 021	1 769 420	3	4
		1998..	2 589 629	24 836 646	969 202	13 492 827	1 620 427	1	1
		1997..	2 890 989	26 275 910	995 464	10 874 961	1 895 525	X	X
325191	Gum & wood chemical mfg	2001..	34 854	249 308	11 883	–	22 970	1	1
		2000..	33 636	254 945	11 271	–	22 365	1	1
		1999..	27 185	229 271	9 808	–	17 377	2	1
		1998..	26 638	232 775	9 770	–	16 867	2	1
		1997..	26 731	220 431	9 462	–	17 269	X	X
325192	Cyclic crude & intermediate mfg	2001..	461 976	3 923 146	143 786	D	318 190	4	1
		2000..	434 994	4 250 061	149 152	180 459	285 843	2	1
		1999..	304 089	3 433 063	131 924	261 959	172 164	1	1
		1998..	258 819	3 303 265	116 319	287 764	142 500	1	1
		1997..	300 375	3 243 433	129 212	319 652	171 163	X	X
325193	Ethyl alcohol mfg	2001..	237 898	818 403	30 667	D	207 232	8	4
		2000..	146 519	823 632	27 751	396 708	118 768	10	6
		1999..	128 235	660 499	26 005	426 402	102 229	12	11
		1998..	82 230	372 112	15 951	514 526	66 280	12	20
		1997..	103 856	431 975	20 194	498 762	83 662	X	X
325199	All other basic organic chemical mfg	2001..	3 370 753	21 662 403	950 487	12 645 179	2 420 266	4	3
		2000..	3 026 269	21 871 592	910 275	12 032 596	2 115 995	4	4
		1999..	2 258 690	20 499 091	781 041	13 542 660	1 477 649	4	4
		1998..	2 221 942	20 928 494	827 162	12 690 537	1 394 780	1	1
		1997..	2 460 027	22 380 071	836 596	10 056 547	1 623 431	X	X
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	2001..	3 175 431	31 430 857	1 346 997	9 965 657	1 828 434	1	1
		2000..	3 014 523	31 548 511	1 308 218	10 248 489	1 706 305	1	1
		1999..	2 384 357	31 872 260	1 185 153	10 144 608	1 199 204	1	1
		1998..	2 222 810	27 992 926	1 071 100	9 528 667	1 151 711	1	1
		1997..	2 239 212	27 128 506	1 069 720	7 230 261	1 169 492	X	X
32521	Resin & synthetic rubber mfg	2001..	2 749 504	26 240 204	1 148 666	8 913 532	1 600 838	1	1
		2000..	2 570 294	26 348 879	1 091 802	9 088 661	1 478 492	2	1
		1999..	1 938 498	25 274 057	944 162	8 940 894	994 335	1	2
		1998..	1 728 119	20 682 578	808 968	8 249 648	919 151	1	1
		1997..	1 744 365	19 927 155	798 858	5 699 008	945 507	X	X
325211	Plastics material & resin mfg	2001..	2 431 711	24 662 137	1 056 969	D	1 374 742	1	1
		2000..	2 296 065	24 583 834	999 704	D	1 296 361	2	1
		1999..	1 746 407	23 569 135	868 032	8 750 412	878 375	1	2
		1998..	1 535 051	18 869 245	731 387	8 117 368	803 664	1	1
		1997..	1 523 072	18 018 300	713 974	5 538 492	809 098	X	X
325212	Synthetic rubber mfg	2001..	317 793	1 578 067	91 697	D	226 096	2	2
		2000..	274 229	1 765 045	92 097	D	182 131	1	1
		1999..	192 091	1 704 922	76 130	190 482	115 961	1	1
		1998..	193 068	1 813 333	77 581	132 280	115 487	1	1
		1997..	221 293	1 908 855	84 884	160 516	136 409	X	X
32522	Artificial & synthetic fibers & filaments mfg	2001..	425 926	5 190 653	198 331	1 052 125	227 596	2	1
		2000..	444 230	5 199 632	216 416	1 159 828	227 813	1	1
		1999..	445 859	6 598 203	240 990	1 203 714	204 869	1	1
		1998..	494 691	7 310 348	262 132	D	232 559	1	1
		1997..	494 847	7 201 351	270 862	D	223 985	X	X
325221	Cellulosic organic fiber mfg	2001..	D	162 688	6 504	D	D	1	X
		2000..	D	231 943	8 153	D	D	1	X
		1999..	D	318 882	9 624	D	D	1	X
		1998..	D	380 128	13 260	D	D	1	X
		1997..	D	411 544	13 713	D	D	X	X
325222	Noncellulosic organic fiber mfg	2001..	D	5 027 965	191 827	D	D	2	X
		2000..	D	4 967 689	208 263	D	D	1	X
		1999..	D	6 279 321	231 367	D	D	1	X
		1998..	D	6 930 220	248 872	D	D	1	X
		1997..	D	6 789 807	257 149	D	D	X	X
3253	Pesticide, fertilizer, & other agricultural chemical mfg	2001..	1 051 128	7 700 766	332 350	1 931 690	718 777	3	6
		2000..	945 443	7 719 571	323 109	2 376 858	622 334	4	7
		1999..	804 384	7 789 830	322 396	2 524 740	481 989	3	5
		1998..	824 454	7 953 359	311 503	2 358 863	512 951	5	2
		1997..	810 488	7 647 953	324 980	2 200 482	485 508	X	X
32531	Fertilizer mfg	2001..	855 701	6 097 991	246 468	D	609 233	4	7
		2000..	806 213	6 213 602	250 405	D	555 808	4	8
		1999..	660 895	6 150 594	247 685	D	413 210	4	6
		1998..	671 668	6 356 479	236 164	2 327 388	435 504	7	2
		1997..	673 391	6 086 877	254 451	2 164 618	418 940	X	X
325311	Nitrogenous fertilizer mfg	2001..	609 274	3 231 236	135 777	D	473 497	7	9
		2000..	577 859	3 534 160	140 846	418 205	437 012	7	10
		1999..	492 446	3 183 245	132 989	479 147	359 457	6	7
		1998..	509 353	3 712 095	124 600	477 455	384 752	13	2
		1997..	500 292	3 330 733	131 992	442 801	368 300	X	X
325312	Phosphatic fertilizer mfg	2001..	211 832	2 570 024	93 195	1 499 118	118 638	4	2
		2000..	199 200	2 372 573	91 874	1 848 874	107 326	3	2
		1999..	141 028	2 673 788	98 305	1 887 887	42 723	2	4
		1998..	131 895	2 339 842	93 955	1 849 933	37 940	1	3
		1997..	142 801	2 461 646	105 308	1 721 817	37 493	X	X
325314	Fertilizer (mixing only) mfg	2001..	34 594	296 731	17 495	–	17 098	11	24
		2000..	29 155	306 868	17 685	D	11 470	11	13
		1999..	27 421	293 561	16 391	D	11 030	7	12
		1998..	30 420	304 542	17 608	–	12 812	4	4
		1997..	30 298	294 498	17 151	–	13 147	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column— C	Relative standard error of estimate[1] (percent) for column— E
			A	B	C	D	E	C	E
325	Chemical mfg—Con.								
3253	Pesticide, fertilizer, & other agricultural chemical mfg—Con.								
32532	Pesticide & other agricultural chemical mfg	2001	195 427	1 602 775	85 883	D	109 544	6	6
		2000	139 229	1 505 969	72 703	–	66 526	9	8
		1999	143 489	1 639 235	74 710	D	68 779	8	5
		1998	152 786	1 596 880	75 340	31 475	77 446	1	1
		1997	137 097	1 561 076	70 529	35 864	66 568	X	X
325320	Pesticide & other agricultural chemical mfg	2001	195 427	1 602 775	85 883	D	109 544	6	6
		2000	139 229	1 505 969	72 703	–	66 526	9	8
		1999	143 489	1 639 235	74 710	D	68 779	8	5
		1998	152 786	1 596 880	75 340	31 475	77 446	1	1
		1997	137 097	1 561 076	70 529	35 864	66 568	X	X
3254	Pharmaceutical & medicine mfg	2001	1 002 924	9 828 235	599 685	687 816	403 238	3	3
		2000	886 782	9 448 719	561 509	D	325 273	3	2
		1999	858 655	9 736 042	581 781	637 723	276 873	12	1
		1998	791 009	9 428 569	525 273	629 990	265 736	1	1
		1997	766 373	8 623 291	489 119	645 584	277 254	X	X
32541	Pharmaceutical & medicine mfg	2001	1 002 924	9 828 235	599 685	687 816	403 238	3	3
		2000	886 782	9 448 719	561 509	D	325 273	3	2
		1999	858 655	9 736 042	581 781	637 723	276 873	12	1
		1998	791 009	9 428 569	525 273	629 990	265 736	1	1
		1997	766 373	8 623 291	489 119	645 584	277 254	X	X
325411	Medicinal & botanical mfg	2001	187 503	1 380 230	78 752	D	108 751	4	4
		2000	168 483	1 642 483	87 963	D	80 520	3	3
		1999	169 820	1 796 015	92 017	D	77 802	3	1
		1998	217 227	2 526 378	132 369	D	84 858	1	1
		1997	189 401	2 109 080	107 240	D	82 161	X	X
325412	Pharmaceutical preparation mfg	2001	622 919	6 274 353	385 240	D	237 679	5	4
		2000	538 817	5 626 357	341 509	500 081	197 308	5	3
		1999	521 597	6 006 003	367 104	518 380	154 494	19	1
		1998	409 494	4 667 480	273 981	402 169	135 513	1	1
		1997	421 182	4 424 965	272 999	414 691	148 183	X	X
325413	In-vitro diagnostic substance mfg	2001	85 020	1 015 787	62 201	D	22 818	2	3
		2000	82 651	1 041 563	63 625	D	19 026	2	8
		1999	78 495	1 036 689	62 586	D	15 908	1	4
		1998	77 255	1 032 534	60 577	–	16 678	4	2
		1997	71 739	967 666	56 169	–	15 570	X	X
325414	Biological product (except diagnostic) mfg	2001	107 482	1 157 864	73 492	D	33 990	6	3
		2000	96 831	1 138 316	68 412	–	28 419	7	3
		1999	88 743	897 335	60 073	D	28 669	5	4
		1998	87 034	1 202 177	58 346	D	28 688	1	1
		1997	84 051	1 121 580	52 711	D	31 340	X	X
3255	Paint, coating, & adhesive mfg	2001	224 559	2 023 747	135 381	D	89 178	9	4
		2000	217 302	2 193 721	140 951	D	76 352	8	3
		1999	202 902	2 095 943	135 980	D	66 922	8	3
		1998	225 036	2 444 578	159 671	D	65 365	1	3
		1997	217 410	2 325 409	149 628	D	67 782	X	X
32551	Paint & coating mfg	2001	139 089	1 348 060	89 976	3 425	49 113	2	5
		2000	134 003	1 419 037	92 108	3 404	41 894	2	4
		1999	125 674	1 387 016	89 027	3 297	36 647	2	4
		1998	132 279	1 468 757	93 753	D	38 526	2	4
		1997	129 032	1 412 617	88 986	D	40 046	X	X
325510	Paint & coating mfg	2001	139 089	1 348 060	89 976	3 425	49 113	2	5
		2000	134 003	1 419 037	92 108	3 404	41 894	2	4
		1999	125 674	1 387 016	89 027	3 297	36 647	2	4
		1998	132 279	1 468 757	93 753	–	38 526	2	4
		1997	129 032	1 412 617	88 986	S	40 046	X	X
32552	Adhesive mfg	2001	85 470	675 687	45 405	D	40 065	27	5
		2000	83 299	774 684	48 842	D	34 457	23	5
		1999	77 228	708 927	46 953	D	30 275	23	4
		1998	92 757	975 821	65 918	–	26 839	2	3
		1997	88 378	912 792	60 642	S	27 736	X	X
325520	Adhesive mfg	2001	85 470	675 687	45 405	D	40 065	27	5
		2000	83 299	774 684	48 842	D	34 457	23	5
		1999	77 228	708 927	46 953	D	30 275	23	4
		1998	92 757	975 821	65 918	–	26 839	2	3
		1997	88 378	912 792	60 642	S	27 736	X	X
3256	Soap, cleaning compound, & toilet preparation mfg	2001	546 410	3 997 477	249 991	D	296 419	2	3
		2000	420 006	3 812 487	219 665	D	200 341	2	2
		1999	351 558	3 898 138	214 764	D	136 794	1	3
		1998	368 207	3 968 840	222 109	D	146 099	1	1
		1997	378 364	3 779 985	216 905	D	161 459	X	X
32561	Soap & cleaning compound mfg	2001	432 930	2 810 538	168 818	D	264 111	2	4
		2000	320 602	2 684 274	147 308	D	173 294	2	1
		1999	260 689	2 803 623	144 600	D	116 089	1	2
		1998	266 669	2 774 748	144 618	D	122 051	1	1
		1997	284 270	2 739 048	144 110	D	140 160	X	X
325611	Soap & other detergent mfg	2001	105 784	1 072 314	54 532	D	51 252	2	2
		2000	97 663	1 063 604	55 223	D	42 440	1	2
		1999	87 453	1 068 186	53 658	D	33 795	1	2
		1998	102 397	1 113 165	60 179	D	42 218	2	2
		1997	100 264	1 092 970	57 445	D	42 819	X	X
325612	Polish & other sanitation good mfg	2001	52 599	520 632	33 020	–	19 579	6	15
		2000	44 025	517 123	30 856	–	13 168	6	8
		1999	40 178	477 096	28 175	–	12 002	4	9
		1998	39 893	425 211	27 302	–	12 591	3	4
		1997	41 772	458 663	28 361	–	13 411	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
325	Chemical mfg—Con.								
3256	Soap, cleaning compound, & toilet preparation mfg—Con.								
32561	Soap & cleaning compound mfg—Con.								
325613	Surface active agent mfg	2001	274 547	1 217 591	81 266	D	193 281	2	5
		2000	178 915	1 103 547	61 229	D	117 686	1	1
		1999	133 059	1 258 341	62 767	D	70 292	1	2
		1998	124 379	1 236 372	57 137	–	67 242	1	1
		1997	142 234	1 187 415	58 304	–	83 930	X	X
32562	Toilet preparation mfg	2001	113 480	1 186 940	81 173	D	32 308	4	12
		2000	99 404	1 128 213	72 357	D	27 047	4	13
		1999	90 868	1 094 514	70 164	–	20 705	4	18
		1998	101 538	1 194 092	77 491	–	24 048	2	4
		1997	94 094	1 040 937	72 795	–	21 299	X	X
325620	Toilet preparation mfg	2001	113 480	1 186 940	81 173	D	32 308	4	12
		2000	99 404	1 128 213	72 357	D	27 047	4	13
		1999	90 868	1 094 514	70 164	–	20 705	4	18
		1998	101 538	1 194 092	77 491	–	24 048	2	4
		1997	94 094	1 040 937	72 795	–	21 299	X	X
3259	Other chemical product mfg	2001	1 104 303	5 655 670	327 930	845 945	776 373	2	1
		2000	1 204 789	6 089 835	345 129	1 020 667	859 659	2	1
		1999	962 990	6 271 858	334 164	1 109 739	628 825	3	3
		1998	549 725	6 109 756	332 264	1 044 864	217 461	1	1
		1997	548 021	5 859 359	327 550	1 017 915	220 471	X	X
32591	Printing ink mfg	2001	31 242	321 192	22 403	–	8 839	5	4
		2000	27 662	307 482	22 231	–	5 431	3	6
		1999	27 168	332 340	22 100	D	5 069	3	7
		1998	28 765	338 487	23 648	–	5 116	7	7
		1997	27 635	325 438	22 057	–	5 578	X	X
325910	Printing ink mfg	2001	31 242	321 192	22 403	–	8 839	5	4
		2000	27 662	307 482	22 231	–	5 431	3	6
		1999	27 168	332 340	22 100	D	5 069	3	7
		1998	28 765	338 487	23 648	–	5 116	7	7
		1997	27 635	325 438	22 057	–	5 578	X	X
32592	Explosives mfg	2001	21 501	208 014	10 997	D	10 504	4	3
		2000	33 693	291 053	17 273	D	16 420	2	3
		1999	33 794	296 458	14 441	D	19 353	3	19
		1998	27 576	255 612	13 214	45 606	14 363	1	1
		1997	28 719	267 481	13 332	41 940	15 387	X	X
325920	Explosives mfg	2001	21 501	208 014	10 997	D	10 504	4	3
		2000	33 693	291 053	17 273	D	16 420	2	3
		1999	33 794	296 458	14 441	D	19 353	3	19
		1998	27 576	255 612	13 214	45 606	14 363	1	1
		1997	28 719	267 481	13 332	41 940	15 387	X	X
32599	All other chemical product & preparation mfg	2001	1 051 560	5 126 465	294 530	D	757 030	2	1
		2000	1 143 434	5 491 300	305 625	D	837 808	2	1
		1999	902 027	5 643 060	297 624	D	604 403	3	3
		1998	493 384	5 515 657	295 402	999 258	197 982	1	1
		1997	491 667	5 266 440	292 161	975 975	199 506	X	X
325991	Custom compounding of purchased resin	2001	148 124	1 940 710	115 406	–	32 717	3	8
		2000	139 327	1 905 741	111 245	–	28 081	2	9
		1999	131 875	1 841 128	106 330	703	25 545	2	10
		1998	141 638	1 915 678	113 991	–	27 648	2	2
		1997	142 366	1 825 567	111 358	–	31 008	X	X
325992	Photographic film, paper, plate, & chemical mfg	2001	626 427	1 081 175	59 373	D	567 054	1	1
		2000	738 765	1 289 110	70 319	D	668 446	2	1
		1999	523 630	1 509 497	71 361	D	452 269	1	1
		1998	135 487	1 505 013	75 240	924 179	60 247	1	1
		1997	140 055	1 527 921	78 504	938 066	61 551	X	X
325998	All other miscellaneous chemical product & preparation mfg	2001	277 008	2 104 580	119 750	123 848	157 258	4	6
		2000	265 342	2 296 449	124 061	166 241	141 281	4	8
		1999	246 522	2 292 435	119 933	167 090	126 589	7	13
		1998	216 259	2 094 966	106 172	75 079	110 087	1	1
		1997	209 246	1 912 952	102 299	37 909	106 947	X	X
326	Plastics & rubber products mfg	2001	4 001 116	55 179 521	3 070 115	476 373	931 001	1	2
		2000	3 763 507	54 711 416	2 939 362	471 569	824 145	1	2
		1999	3 451 781	53 015 700	2 829 796	452 550	621 985	1	1
		1998	3 331 030	50 129 965	2 751 408	60 409	579 622	1	1
		1997	3 332 007	49 876 149	2 715 691	54 511	616 316	X	X
3261	Plastics product mfg	2001	3 245 842	45 341 004	2 592 175	467 193	653 667	1	3
		2000	3 027 190	44 511 135	2 453 604	D	573 585	1	2
		1999	2 795 304	42 967 324	2 357 062	D	438 243	1	2
		1998	2 689 959	40 498 050	2 291 485	D	398 473	1	1
		1997	2 686 644	40 219 963	2 262 378	D	424 266	X	X
32611	Unsupported plastics film, sheet, & bag mfg	2001	672 983	9 418 540	510 692	D	162 290	1	4
		2000	630 398	9 154 131	476 931	D	153 468	1	4
		1999	573 564	9 056 216	453 361	D	120 203	1	4
		1998	550 112	8 705 749	452 925	D	97 187	1	2
		1997	548 564	9 011 337	449 690	D	98 874	X	X
326111	Unsupported plastics bag mfg	2001	182 603	2 489 753	137 992	D	44 611	2	2
		2000	172 321	2 369 376	126 321	D	45 999	1	2
		1999	166 994	2 448 251	129 015	D	37 980	1	2
		1998	156 431	2 433 539	137 401	D	19 030	2	1
		1997	151 111	2 628 541	134 217	D	16 894	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
326	Plastics & rubber products mfg—Con.								
3261	Plastics product mfg—Con.								
32611	Unsupported plastics film, sheet, & bag mfg—Con.								
326112	Unsupported plastics packaging film & sheet mfg	2001	86 074	1 208 751	60 604	–515	25 471	4	3
		2000	78 803	1 221 035	57 616	–377	21 187	3	3
		1999	72 056	1 201 534	53 900	–371	18 156	3	5
		1998	61 032	1 041 750	47 543	–	13 489	2	6
		1997	61 025	946 778	45 376	–	15 649	X	X
326113	Unsupported plastics film & sheet (except packaging) mfg	2001	404 306	5 720 035	312 096	D	92 209	2	7
		2000	379 274	5 563 719	292 994	D	86 281	2	8
		1999	334 514	5 406 431	270 446	D	64 068	2	7
		1998	332 648	5 230 460	267 980	D	64 668	1	3
		1997	336 428	5 436 018	270 097	D	66 331	X	X
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	2001	227 496	3 377 248	195 641	–	31 855	2	7
		2000	217 714	3 582 322	191 781	–	25 933	2	6
		1999	202 960	3 402 682	181 657	–	21 303	2	7
		1998	198 894	3 215 612	177 612	–	21 282	2	4
		1997	220 858	3 554 368	198 030	–	22 828	X	X
326121	Unsupported plastics profile shape mfg	2001	100 054	1 249 937	78 075	–	21 979	3	6
		2000	96 436	1 411 925	79 164	–	17 272	3	5
		1999	89 407	1 282 542	74 553	–	14 854	5	9
		1998	90 974	1 296 605	76 083	–	14 891	2	5
		1997	102 322	1 468 214	86 355	–	15 967	X	X
326122	Plastics pipe & pipe fitting mfg	2001	127 441	2 127 311	117 566	–	9 875	3	19
		2000	121 278	2 170 396	112 618	–	8 660	3	16
		1999	113 553	2 120 140	107 104	–	6 449	2	14
		1998	107 920	1 919 007	101 529	–	6 392	3	5
		1997	118 536	2 086 154	111 675	–	6 861	X	X
32613	Laminated plastics plate, sheet, & shape mfg	2001	73 416	500 250	31 771	–	41 645	4	3
		2000	57 315	527 963	32 160	–	25 156	3	3
		1999	48 071	523 647	29 232	–	18 838	4	6
		1998	49 664	559 315	31 245	–	18 419	1	3
		1997	55 255	605 840	33 767	–	21 488	X	X
326130	Laminated plastics plate, sheet, & shape mfg	2001	73 416	500 250	31 771	–	41 645	4	3
		2000	57 315	527 963	32 160	–	25 156	3	3
		1999	48 071	523 647	29 232	–	18 838	4	6
		1998	49 664	559 315	31 245	–	18 419	1	3
		1997	55 255	605 840	33 767	–	21 488	X	X
32614	Polystyrene foam product mfg	2001	212 302	2 018 608	115 270	–	97 032	6	11
		2000	166 298	1 929 967	98 695	–	67 603	5	9
		1999	149 276	1 965 833	99 294	–	49 982	5	5
		1998	129 969	1 703 190	88 083	D	41 886	1	4
		1997	131 592	1 493 608	81 033	D	50 559	X	X
326140	Polystyrene foam product mfg	2001	212 302	2 018 608	115 270	–	97 032	6	11
		2000	166 298	1 929 967	98 695	–	67 603	5	9
		1999	149 276	1 965 833	99 294	–	49 982	5	5
		1998	129 969	1 703 190	88 083	D	41 886	1	4
		1997	131 592	1 493 608	81 033	D	50 559	X	X
32615	Urethane & other foam product (except polystyrene) mfg	2001	97 618	920 797	57 024	–	40 594	21	6
		2000	88 961	935 842	54 073	–	34 888	22	7
		1999	70 802	824 610	47 824	–	22 979	28	4
		1998	84 273	1 024 978	63 759	–	20 515	3	3
		1997	84 818	996 172	63 451	–	21 367	X	X
326150	Urethane & other foam product (except polystyrene) mfg	2001	97 618	920 797	57 024	–	40 594	21	6
		2000	88 961	935 842	54 073	–	34 888	22	7
		1999	70 802	824 610	47 824	–	22 979	28	4
		1998	84 273	1 024 978	63 759	–	20 515	3	3
		1997	84 818	996 172	63 451	–	21 367	X	X
32616	Plastics bottle mfg	2001	319 017	5 383 304	302 349	D	16 668	2	5
		2000	280 661	5 126 978	269 416	–	11 245	2	13
		1999	262 376	4 881 314	251 761	–	10 615	2	14
		1998	266 957	4 592 966	256 685	–	10 272	4	5
		1997	239 197	4 178 581	229 458	S	9 739	X	X
326160	Plastics bottle mfg	2001	319 017	5 383 304	302 349	D	16 668	2	5
		2000	280 661	5 126 978	269 416	–	11 245	2	13
		1999	262 376	4 881 314	251 761	–	10 615	2	14
		1998	266 957	4 592 966	256 685	–	10 272	4	5
		1997	239 197	4 178 581	229 458	S	9 739	X	X
32619	Other plastics product mfg	2001	1 643 011	23 722 257	1 379 428	19 042	263 583	2	5
		2000	1 585 842	23 253 932	1 330 548	26 034	255 294	1	4
		1999	1 488 256	22 313 022	1 293 933	29 797	194 323	1	3
		1998	1 410 090	20 696 241	1 221 178	34 082	188 912	1	2
		1997	1 406 360	20 380 057	1 206 949	28 195	199 411	X	X
326191	Plastics plumbing fixture mfg	2001	30 355	321 975	22 769	–	7 586	6	7
		2000	28 178	330 930	21 444	–	6 734	5	8
		1999	26 724	310 329	20 238	–	6 485	5	8
		1998	24 082	281 831	17 924	–	6 158	3	6
		1997	23 412	273 032	17 418	–	5 994	X	X
326192	Resilient floor covering mfg	2001	42 482	413 679	28 476	–	14 005	2	2
		2000	39 264	424 558	27 258	–	12 006	2	2
		1999	38 361	436 463	29 165	–	9 196	1	1
		1998	41 282	462 377	30 666	–	10 616	1	1
		1997	40 106	435 896	29 393	–	10 713	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
326	Plastics & rubber products mfg—Con.								
3261	Plastics product mfg—Con.								
32619	Other plastics product mfg—Con.								
326199	All other plastics product mfg	2001..	1 570 174	22 986 603	1 328 183	19 042	241 991	2	6
		2000..	1 518 401	22 498 445	1 281 846	26 034	236 555	1	4
		1999..	1 423 172	21 566 230	1 244 530	29 797	178 642	1	3
		1998..	1 344 726	19 952 033	1 172 588	34 082	172 138	1	2
		1997..	1 342 842	19 671 129	1 160 138	28 195	182 704	X	X
3262	Rubber product mfg	2001..	755 273	9 838 517	477 939	9 179	277 334	2	2
		2000..	736 317	10 200 282	485 757	D	250 560	1	2
		1999..	656 477	10 048 376	472 734	D	183 743	1	2
		1998..	641 071	9 631 915	459 923	D	181 148	1	2
		1997..	645 363	9 656 186	453 313	D	192 050	X	X
32621	Tire mfg	2001..	354 136	5 216 279	215 145	–	138 991	3	3
		2000..	338 250	5 340 487	213 079	–	125 171	2	3
		1999..	278 330	5 035 321	195 833	–	82 497	1	1
		1998..	281 338	4 906 425	197 192	–	84 146	1	2
		1997..	283 363	4 855 537	193 734	S	89 629	X	X
326211	Tire mfg (except retreading)	2001..	335 858	4 984 743	201 442	–	134 416	3	3
		2000..	320 994	5 117 758	200 634	–	120 361	2	3
		1999..	263 894	4 838 169	184 779	–	79 116	1	1
		1998..	267 886	4 736 550	187 268	–	80 618	1	2
		1997..	269 804	4 707 931	183 753	S	86 051	X	X
326212	Tire retreading	2001..	18 278	231 536	13 703	–	4 575	5	12
		2000..	17 255	222 729	12 445	–	4 811	4	9
		1999..	14 436	197 151	11 054	–	3 382	4	12
		1998..	13 452	169 875	9 924	–	3 528	6	15
		1997..	13 559	147 606	9 981	–	3 578	X	X
32622	Rubber & plastics hoses & belting mfg	2001..	77 165	938 880	50 741	–	26 424	3	3
		2000..	74 654	962 813	51 032	–	23 622	3	3
		1999..	70 596	995 821	51 305	–	19 290	2	3
		1998..	64 381	885 435	45 264	–	19 117	1	5
		1997..	69 087	880 486	46 671	–	22 416	X	X
326220	Rubber & plastics hoses & belting mfg	2001..	77 165	938 880	50 741	–	26 424	3	3
		2000..	74 654	962 813	51 032	–	23 622	3	3
		1999..	70 596	995 821	51 305	–	19 290	2	3
		1998..	64 381	885 435	45 264	–	19 117	1	5
		1997..	69 087	880 486	46 671	–	22 416	X	X
32629	Other rubber product mfg	2001..	323 972	3 683 358	212 054	9 179	111 919	2	5
		2000..	323 414	3 896 981	221 647	D	101 767	2	5
		1999..	307 551	4 017 234	225 596	D	81 955	2	3
		1998..	295 352	3 840 055	217 467	D	77 885	1	3
		1997..	292 913	3 920 163	212 908	D	80 005	X	X
326291	Rubber product mfg for mechanical use	2001..	157 808	1 870 383	106 423	D	51 385	3	6
		2000..	152 484	1 904 980	107 842	D	44 642	2	5
		1999..	143 233	1 916 112	107 293	D	35 940	2	4
		1998..	139 519	1 943 288	107 182	D	32 337	1	2
		1997..	133 518	1 852 934	100 766	D	32 752	X	X
326299	All other rubber product mfg	2001..	166 164	1 812 975	105 630	D	60 534	3	7
		2000..	170 930	1 992 002	113 805	–	57 125	3	7
		1999..	164 318	2 101 123	118 303	–	46 016	4	5
		1998..	155 833	1 896 767	110 284	D	45 549	1	6
		1997..	159 395	2 067 229	112 142	D	47 253	X	X
327	Nonmetallic mineral product mfg	2001..	4 981 351	41 125 437	2 028 728	352 279	2 952 623	1	1
		2000..	4 655 463	41 122 320	1 934 764	533 758	2 720 699	1	1
		1999..	4 110 290	40 196 389	1 855 788	228 323	2 254 502	1	1
		1998..	4 084 125	38 556 250	1 858 163	286 462	2 225 962	1	1
		1997..	4 040 080	37 627 285	1 813 727	218 575	2 226 353	X	X
3271	Clay product & refractory mfg	2001..	554 624	3 223 080	178 008	D	376 616	2	3
		2000..	531 975	3 416 394	182 048	D	349 927	2	3
		1999..	437 125	3 198 081	175 154	D	261 971	2	2
		1998..	409 754	2 976 153	173 076	D	236 678	2	3
		1997..	429 064	3 038 381	174 669	D	254 395	X	X
32711	Pottery, ceramics, & plumbing fixture mfg	2001..	144 126	1 057 394	59 929	D	84 197	4	5
		2000..	136 585	1 091 620	60 574	D	76 010	4	5
		1999..	124 702	1 118 491	61 765	D	62 937	2	3
		1998..	129 481	1 064 757	64 979	D	64 502	2	1
		1997..	126 824	1 063 259	62 301	D	64 523	X	X
327111	Vitreous china plumbing fixture & bathroom accessories mfg	2001..	46 399	295 329	13 931	–	32 468	7	5
		2000..	43 018	303 247	14 393	–	28 625	7	5
		1999..	39 491	325 341	15 235	–	24 255	6	5
		1998..	39 582	302 476	15 814	D	23 768	1	1
		1997..	39 446	298 504	14 874	D	24 572	X	X
327112	Vitreous china, fine earthenware, & other pottery product mfg	2001..	53 132	334 556	21 270	D	31 863	9	12
		2000..	48 679	337 246	20 934	D	27 745	8	13
		1999..	45 205	356 067	21 606	D	23 599	2	4
		1998..	46 195	340 971	21 565	D	24 630	1	1
		1997..	44 761	352 636	21 017	D	23 744	X	X
327113	Porcelain electrical supply mfg	2001..	44 595	427 509	24 729	D	19 867	4	7
		2000..	44 888	451 127	25 247	D	19 641	4	6
		1999..	40 007	437 084	24 924	D	15 083	3	5
		1998..	43 704	421 310	27 600	–	16 104	4	3
		1997..	42 617	412 119	26 410	–	16 207	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
327	Nonmetallic mineral product mfg—Con.								
3271	Clay product & refractory mfg—Con.								
32712	Clay building material & refractories mfg	2001..	410 497	2 165 686	118 078	D	292 419	3	3
		2000..	395 391	2 324 775	121 474	D	273 917	3	3
		1999..	312 423	2 079 591	113 390	D	199 033	3	2
		1998..	280 273	1 911 396	108 097	D	172 176	3	4
		1997..	302 240	1 975 122	112 368	D	189 872	X	X
327121	Brick & structural clay tile mfg	2001..	235 291	947 495	50 582	–	184 709	3	4
		2000..	226 009	1 005 512	52 806	D	173 204	3	4
		1999..	171 611	916 841	50 371	D	121 240	3	3
		1998..	149 768	883 761	47 209	D	102 559	7	6
		1997..	168 249	912 490	51 245	D	117 004	X	X
327122	Ceramic wall & floor tile mfg	2001..	67 187	411 650	22 657	–	44 530	8	8
		2000..	58 592	422 565	21 060	–	37 532	8	8
		1999..	46 676	381 270	18 535	–	28 142	7	7
		1998..	37 659	282 140	15 476	–	22 183	2	6
		1997..	40 945	290 861	15 948	–	24 997	X	X
327123	Other structural clay product mfg	2001..	16 254	62 991	3 882	–	12 371	8	3
		2000..	13 562	53 666	3 820	–	9 742	4	3
		1999..	11 124	47 813	3 318	–	7 806	4	3
		1998..	9 706	50 206	3 550	–	6 156	1	1
		1997..	8 884	45 614	3 240	–	5 644	X	X
327124	Clay refractory mfg	2001..	35 952	168 494	12 018	–	23 934	18	10
		2000..	37 281	193 946	12 791	–	24 489	10	9
		1999..	30 341	180 271	10 824	–	19 517	6	8
		1998..	31 607	193 598	12 234	–	19 373	3	5
		1997..	30 954	196 997	12 174	–	18 780	X	X
327125	Nonclay refractory mfg	2001..	55 814	575 055	28 939	D	26 874	7	5
		2000..	59 947	649 085	30 997	D	28 950	8	11
		1999..	52 671	553 394	30 342	D	22 328	7	5
		1998..	51 532	501 692	29 628	–	21 904	5	1
		1997..	53 208	529 160	29 761	–	23 447	X	X
3272	Glass & glass product mfg	2001..	1 423 564	12 460 441	574 680	–	848 883	1	1
		2000..	1 296 717	12 391 092	552 100	–	744 617	1	1
		1999..	1 084 898	12 493 348	535 231	–	549 667	1	1
		1998..	1 092 646	12 106 025	533 763	S	558 882	1	1
		1997..	1 105 346	11 751 195	529 753	–	575 593	X	X
32721	Glass & glass product mfg	2001..	1 423 564	12 460 441	574 680	–	848 883	1	1
		2000..	1 296 717	12 391 092	552 100	–	744 617	1	1
		1999..	1 084 898	12 493 348	535 231	–	549 667	1	1
		1998..	1 092 646	12 106 025	533 763	S	558 882	1	1
		1997..	1 105 346	11 751 195	529 753	–	575 593	X	X
327211	Flat glass mfg	2001..	304 733	1 666 884	79 305	–	225 428	1	1
		2000..	288 249	1 808 011	74 975	–	213 274	1	2
		1999..	217 343	1 668 879	71 868	–	145 474	1	1
		1998..	216 703	1 603 211	73 640	–	143 063	1	1
		1997..	220 466	1 602 433	72 857	–	147 609	X	X
327212	Other pressed & blown glass & glassware mfg	2001..	388 300	3 864 880	164 232	–	224 068	1	1
		2000..	357 883	3 624 248	166 551	–	191 332	1	1
		1999..	328 213	3 949 127	163 997	–	164 215	1	1
		1998..	345 229	3 964 685	166 360	S	178 869	1	1
		1997..	345 475	3 842 879	165 797	–	179 678	X	X
327213	Glass container mfg	2001..	516 919	3 906 619	174 639	–	342 280	2	3
		2000..	442 742	3 926 637	158 944	–	283 798	2	2
		1999..	352 322	3 931 883	155 355	–	196 967	1	1
		1998..	350 222	3 843 161	158 381	–	191 841	1	1
		1997..	361 082	3 709 154	157 489	–	203 593	X	X
327215	Glass product mfg made of purchased glass	2001..	213 612	3 022 058	156 505	–	57 107	2	13
		2000..	207 843	3 032 196	151 630	–	56 213	2	8
		1999..	187 021	2 943 458	144 011	–	43 011	1	4
		1998..	180 491	2 694 968	135 382	–	45 109	2	2
		1997..	178 323	2 596 729	133 610	–	44 713	X	X
3273	Cement & concrete product mfg	2001..	1 601 832	15 255 393	773 614	D	828 217	1	1
		2000..	1 508 844	15 146 617	710 508	474 512	798 337	1	1
		1999..	1 433 774	14 470 588	672 785	181 945	760 988	1	3
		1998..	1 414 421	13 640 803	671 492	D	742 929	1	1
		1997..	1 385 952	13 503 865	656 238	D	729 714	X	X
32731	Cement mfg	2001..	1 079 883	11 941 888	547 684	D	532 199	2	1
		2000..	999 748	11 708 629	492 033	D	507 715	1	1
		1999..	943 593	11 220 892	464 878	D	478 715	1	1
		1998..	964 720	10 664 747	475 844	D	488 876	1	1
		1997..	967 367	10 794 303	482 384	D	484 983	X	X
327310	Cement mfg	2001..	1 079 883	11 941 888	547 684	D	532 199	2	1
		2000..	999 748	11 708 629	492 033	D	507 715	1	1
		1999..	943 593	11 220 892	464 878	D	478 715	1	1
		1998..	964 720	10 664 747	475 844	D	488 876	1	1
		1997..	967 367	10 794 303	482 384	D	484 983	X	X
32732	Ready-mix concrete mfg	2001..	307 539	1 667 836	112 590	13 168	194 948	3	5
		2000..	314 791	1 851 001	115 452	D	199 339	5	4
		1999..	311 507	1 714 420	108 700	D	202 807	2	11
		1998..	268 634	1 480 625	98 559	7 980	170 075	2	2
		1997..	255 211	1 386 200	88 984	8 032	166 227	X	X
327320	Ready-mix concrete mfg	2001..	307 539	1 667 836	112 590	13 168	194 948	3	5
		2000..	314 791	1 851 001	115 452	D	199 339	5	4
		1999..	311 507	1 714 420	108 700	D	202 807	2	11
		1998..	268 634	1 480 625	98 559	7 980	170 075	2	2
		1997..	255 211	1 386 200	88 984	8 032	166 227	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
327	Nonmetallic mineral product mfg—Con.								
3273	Cement & concrete product mfg—Con.								
32733	Concrete pipe, brick, & block mfg	2001	102 357	851 445	57 530	10	44 827	5	7
		2000	98 017	858 743	56 069	10	41 948	5	8
		1999	93 638	857 027	54 932	D	38 706	6	8
		1998	94 464	798 283	51 507	D	42 957	4	5
		1997	84 811	690 883	44 286	D	40 525	X	X
327331	Concrete block & brick mfg	2001	68 925	576 908	38 060	10	30 866	7	10
		2000	64 216	564 389	36 583	10	27 633	8	11
		1999	61 691	547 585	35 519	D	26 173	8	11
		1998	59 286	489 996	32 050	D	27 236	4	5
		1997	53 891	425 213	27 538	D	26 353	X	X
327332	Concrete pipe mfg	2001	33 432	274 536	19 470	–	13 961	5	7
		2000	33 801	294 354	19 486	–	14 314	6	7
		1999	31 947	309 442	19 414	–	12 533	6	12
		1998	35 178	308 287	19 457	–	15 721	8	11
		1997	30 920	265 670	16 748	–	14 172	X	X
32739	Other concrete product mfg	2001	112 053	794 225	55 810	–	56 243	3	4
		2000	96 289	728 244	46 954	–	49 335	4	3
		1999	85 035	678 249	44 275	–	40 760	2	3
		1998	86 603	697 148	45 581	–	41 022	2	3
		1997	78 563	632 479	40 584	–	37 979	X	X
327390	Other concrete product mfg	2001	112 053	794 225	55 810	–	56 243	3	4
		2000	96 289	728 244	46 954	–	49 335	4	3
		1999	85 035	678 249	44 275	–	40 760	2	3
		1998	86 603	697 148	45 581	–	41 022	2	3
		1997	78 563	632 479	40 584	–	37 979	X	X
3274	Lime & gypsum product mfg	2001	682 750	3 124 051	157 021	D	525 728	3	3
		2000	623 387	3 026 061	151 527	D	471 861	2	2
		1999	562 474	3 127 541	155 207	D	407 267	1	2
		1998	570 920	3 123 390	151 678	D	419 242	3	3
		1997	520 432	2 676 136	139 601	D	380 831	X	X
32741	Lime mfg	2001	240 212	1 372 640	61 792	–	178 420	3	4
		2000	246 777	1 278 238	59 065	–	187 713	3	4
		1999	246 424	1 320 932	61 513	–	184 911	2	3
		1998	272 015	1 423 943	65 150	–	206 865	4	4
		1997	238 928	1 130 382	57 383	–	181 545	X	X
327410	Lime mfg	2001	240 212	1 372 640	61 792	–	178 420	3	4
		2000	246 777	1 278 238	59 065	–	187 713	3	4
		1999	246 424	1 320 932	61 513	–	184 911	2	3
		1998	272 015	1 423 943	65 150	–	206 865	4	4
		1997	238 928	1 130 382	57 383	–	181 545	X	X
32742	Gypsum product mfg	2001	442 538	1 751 411	95 229	D	347 309	4	4
		2000	376 610	1 747 823	92 462	D	284 148	2	3
		1999	316 050	1 806 609	93 694	D	222 355	2	1
		1998	298 905	1 699 447	86 528	D	212 377	4	6
		1997	281 504	1 545 754	82 218	D	199 286	X	X
327420	Gypsum product mfg	2001	442 538	1 751 411	95 229	D	347 309	4	4
		2000	376 610	1 747 823	92 462	D	284 148	2	3
		1999	316 050	1 806 609	93 694	D	222 355	2	1
		1998	298 905	1 699 447	86 528	D	212 377	4	6
		1997	281 504	1 545 754	82 218	D	199 286	X	X
3279	Other nonmetallic mineral product mfg	2001	718 583	7 062 472	345 404	19 954	373 178	2	4
		2000	694 538	7 142 157	338 581	30 263	355 958	2	3
		1999	592 019	6 906 831	317 411	25 954	274 609	3	3
		1998	596 385	6 709 878	328 155	D	268 230	3	2
		1997	599 286	6 657 708	313 466	D	285 820	X	X
32791	Abrasive product mfg	2001	71 347	745 536	45 323	10 262	26 024	3	4
		2000	78 571	964 575	51 084	21 459	27 487	10	5
		1999	75 339	950 624	48 984	14 201	26 354	10	5
		1998	60 816	765 977	40 664	D	20 152	23	3
		1997	72 405	939 239	49 278	D	23 127	X	X
327910	Abrasive product mfg	2001	71 347	745 536	45 323	10 262	26 024	3	4
		2000	78 571	964 575	51 084	21 459	27 487	10	5
		1999	75 339	950 624	48 984	14 201	26 354	10	5
		1998	60 816	765 977	40 664	D	20 152	23	3
		1997	72 405	939 239	49 278	D	23 127	X	X
32799	All other nonmetallic mineral product mfg	2001	647 235	6 316 936	300 081	9 692	347 154	3	4
		2000	615 967	6 177 581	287 497	8 803	328 470	2	3
		1999	516 680	5 956 207	268 426	11 753	248 254	2	4
		1998	535 569	5 943 901	287 491	–	248 079	2	2
		1997	526 881	5 718 469	264 188	–	262 693	X	X
327991	Cut stone & stone product mfg	2001	35 422	321 025	20 605	–	14 818	6	10
		2000	31 487	295 505	18 596	–	12 891	7	9
		1999	29 749	284 675	18 087	–	11 662	8	9
		1998	36 506	280 702	20 520	–	15 986	7	12
		1997	32 670	268 488	17 299	–	15 371	X	X
327992	Ground or treated mineral & earth mfg	2001	185 477	1 386 592	74 004	–	111 473	5	5
		2000	165 375	1 395 886	70 476	–	94 899	3	6
		1999	144 625	1 377 097	67 225	–	77 401	3	7
		1998	138 304	1 275 859	67 424	–	70 880	1	2
		1997	142 716	1 385 385	64 573	–	78 143	X	X
327993	Mineral wool mfg	2001	382 420	4 303 048	185 407	9 692	197 014	2	7
		2000	377 259	4 161 804	177 968	8 803	199 291	2	4
		1999	304 566	3 954 253	162 940	9 686	141 626	1	5
		1998	308 527	3 932 913	168 159	–	140 368	2	2
		1997	303 793	3 687 581	156 709	–	147 084	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column— C	Relative standard error of estimate[1] (percent) for column— E
			A	B	C	D	E	C	E
327	Nonmetallic mineral product mfg—Con.								
3279	Other nonmetallic mineral product mfg—Con.								
32799	All other nonmetallic mineral product mfg—Con.								
327999	All other miscellaneous nonmetallic mineral product mfg	2001..	43 915	306 271	20 066	–	23 850	28	11
		2000..	41 846	324 387	20 457	–	21 390	27	12
		1999..	37 741	340 183	20 175	2 067	17 566	28	12
		1998..	52 232	454 427	31 388	–	20 844	12	17
		1997..	47 702	377 015	25 607	–	22 095	X	X
331	Primary metal mfg	2001..	8 708 280	124 505 608	4 600 001	2 907 350	4 108 279	1	1
		2000..	8 730 035	137 000 608	5 059 608	4 669 889	3 670 427	1	1
		1999..	7 827 567	133 872 857	4 850 719	5 549 911	2 976 848	1	1
		1998..	7 979 888	130 159 929	4 808 727	14 070 736	3 171 162	1	1
		1997..	8 041 222	132 605 129	4 764 636	6 063 131	3 276 586	X	X
3311	Iron & steel mills & ferroalloy mfg	2001..	4 187 790	49 339 668	1 842 656	2 883 233	2 345 134	1	1
		2000..	4 004 017	50 429 770	1 944 283	3 054 204	2 059 734	1	1
		1999..	3 462 700	49 603 333	1 833 986	3 508 997	1 628 714	1	1
		1998..	3 601 683	46 126 366	1 793 454	D	1 808 230	1	1
		1997..	3 621 702	47 655 450	1 786 896	D	1 834 806	X	X
33111	Iron & steel mills & ferroalloy mfg	2001..	4 187 790	49 339 668	1 842 656	2 883 233	2 345 134	1	1
		2000..	4 004 017	50 429 770	1 944 283	3 054 204	2 059 734	1	1
		1999..	3 462 700	49 603 333	1 833 986	3 508 997	1 628 714	1	1
		1998..	3 601 683	46 126 366	1 793 454	D	1 808 230	1	1
		1997..	3 621 702	47 655 450	1 786 896	D	1 834 806	X	X
331111	Iron & steel mills	2001..	4 103 131	47 232 590	1 790 755	D	2 312 375	1	1
		2000..	3 921 637	47 841 686	1 882 039	D	2 039 598	1	1
		1999..	3 374 790	46 794 995	1 764 594	D	1 610 196	1	1
		1998..	3 461 524	43 183 083	1 687 137	4 537 760	1 774 388	1	1
		1997..	3 476 368	44 690 515	1 678 695	3 656 108	1 797 673	X	X
331112	Electrometallurgical ferroalloy product mfg	2001..	84 659	2 107 078	51 901	D	32 759	3	5
		2000..	82 380	2 588 083	62 244	D	20 136	3	8
		1999..	87 910	2 808 338	69 392	D	18 518	3	4
		1998..	140 159	2 943 283	106 317	D	33 842	1	1
		1997..	145 334	2 964 935	108 201	D	37 133	X	X
3312	Steel product mfg from purchased steel	2001..	450 274	4 843 067	264 086	–	186 188	1	2
		2000..	424 249	4 722 597	261 101	–	163 148	1	1
		1999..	366 256	4 511 847	246 395	–	119 861	1	1
		1998..	390 637	4 750 728	268 613	–	122 024	1	1
		1997..	387 167	4 633 956	264 351	–	122 816	X	X
33121	Iron & steel pipes & tubes mfg from purchased steel	2001..	169 101	1 718 149	99 308	–	69 793	3	4
		2000..	163 650	1 725 246	101 946	–	61 704	3	3
		1999..	136 335	1 548 485	92 572	–	43 763	2	3
		1998..	132 654	1 431 931	93 285	–	39 369	1	1
		1997..	135 593	1 420 828	93 582	–	42 011	X	X
331210	Iron & steel pipes & tubes mfg from purchased steel	2001..	169 101	1 718 149	99 308	–	69 793	3	4
		2000..	163 650	1 725 246	101 946	–	61 704	3	3
		1999..	136 335	1 548 485	92 572	–	43 763	2	3
		1998..	132 654	1 431 931	93 285	–	39 369	1	1
		1997..	135 593	1 420 828	93 582	–	42 011	X	X
33122	Rolling & drawing of purchased steel	2001..	281 172	3 124 918	164 777	–	116 395	1	2
		2000..	260 599	2 997 351	159 155	–	101 444	1	2
		1999..	229 921	2 963 362	153 823	–	76 098	1	1
		1998..	257 983	3 318 797	175 328	–	82 655	1	2
		1997..	251 574	3 213 128	170 769	–	80 805	X	X
331221	Cold-rolled steel shape mfg	2001..	131 052	1 260 472	63 846	–	67 206	2	3
		2000..	128 939	1 333 658	68 994	–	59 945	1	2
		1999..	108 162	1 265 721	65 638	–	42 524	1	2
		1998..	133 447	1 687 310	87 184	–	46 263	1	1
		1997..	131 620	1 623 374	84 453	–	47 167	X	X
331222	Steel wire drawing	2001..	150 121	1 864 447	100 931	–	49 189	2	3
		2000..	131 660	1 663 693	90 161	–	41 499	1	2
		1999..	121 758	1 697 641	88 184	–	33 574	1	2
		1998..	124 536	1 631 486	88 145	–	36 391	2	4
		1997..	119 954	1 589 754	86 316	–	33 638	X	X
3313	Alumina & aluminum production & processing	2001..	1 943 673	43 467 767	1 255 374	–1 351 920	688 299	1	1
		2000..	2 218 855	53 556 928	1 573 771	8 401	645 084	1	1
		1999..	2 075 642	52 606 523	1 530 595	D	545 047	1	1
		1998..	2 010 385	51 260 743	1 477 790	D	532 594	1	1
		1997..	2 026 932	52 176 666	1 435 322	D	591 610	X	X
33131	Alumina & aluminum production & processing	2001..	1 943 673	43 467 767	1 255 374	–1 351 920	688 299	1	1
		2000..	2 218 855	53 556 928	1 573 771	8 401	645 084	1	1
		1999..	2 075 642	52 606 523	1 530 595	D	545 047	1	1
		1998..	2 010 385	51 260 743	1 477 790	D	532 594	1	1
		1997..	2 026 932	52 176 666	1 435 322	D	591 610	X	X
331311	Alumina refining	2001..	165 254	427 886	17 006	D	148 248	1	1
		2000..	172 851	380 449	16 687	D	156 164	1	1
		1999..	148 470	363 735	15 034	D	133 436	1	1
		1998..	165 854	372 492	14 772	701 106	151 082	1	1
		1997..	172 584	373 330	16 057	658 309	156 527	X	X
331312	Primary aluminum production	2001..	1 024 483	34 853 588	913 144	D	111 339	1	1
		2000..	1 320 593	44 468 455	1 205 268	D	115 325	1	1
		1999..	1 270 651	44 042 507	1 161 625	D	109 026	1	1
		1998..	1 211 564	42 882 931	1 130 650	D	80 914	1	1
		1997..	1 184 024	43 426 337	1 070 993	D	113 031	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
331	Primary metal mfg—Con.								
3313	Alumina & aluminum production & processing—Con.								
33131	Alumina & aluminum production & processing—Con.								
331314	Secondary smelting & alloying of aluminum	2001	137 641	891 967	50 443	–	87 198	2	6
		2000	123 049	850 256	48 330	–	74 719	2	4
		1999	111 020	845 144	49 155	–	61 864	2	4
		1998	95 516	643 425	35 289	–	60 227	1	3
		1997	87 800	638 268	33 996	–	53 804	X	X
331315	Aluminum sheet, plate, & foil mfg	2001	388 714	5 435 080	171 464	–	217 250	3	3
		2000	374 618	5 219 435	186 369	–	188 249	3	4
		1999	336 119	4 761 952	179 075	–	157 044	3	4
		1998	336 978	4 814 262	173 475	–	163 503	1	1
		1997	375 254	5 170 559	190 660	–	184 594	X	X
331316	Aluminum extruded product mfg	2001	200 190	1 596 241	89 799	–	110 391	2	2
		2000	186 635	1 765 133	87 500	–	99 135	2	3
		1999	164 216	1 745 826	89 388	–	74 828	3	2
		1998	151 274	1 638 955	85 261	–	66 013	1	1
		1997	154 210	1 592 105	82 329	87 150	71 881	X	X
331319	Other aluminum rolling & drawing	2001	27 390	263 005	13 517	–	13 873	7	3
		2000	41 109	873 200	29 616	–	11 493	2	2
		1999	45 166	847 359	36 318	–	8 848	1	3
		1998	49 198	908 678	38 344	–	10 854	1	1
		1997	53 060	976 067	41 287	–	11 773	X	X
3314	Nonferrous metal (except aluminum) production & processing	2001	805 087	10 906 169	450 394	1 373 506	354 693	2	1
		2000	818 564	11 771 276	480 351	1 603 817	338 213	2	1
		1999	756 168	11 244 037	465 295	1 845 877	290 873	1	2
		1998	775 596	11 948 312	482 585	1 236 571	293 011	1	1
		1997	814 155	12 464 901	505 905	1 272 485	308 250	X	X
33141	Nonferrous metal (except aluminum) smelting & refining	2001	322 356	5 345 615	174 510	D	147 846	4	2
		2000	361 138	6 117 871	199 183	1 603 817	161 955	4	1
		1999	323 131	5 633 043	196 145	1 848 060	126 986	2	1
		1998	318 844	6 110 811	194 579	1 228 069	124 264	2	1
		1997	343 140	6 525 056	212 329	1 265 609	130 811	X	X
331411	Primary smelting & refining of copper	2001	130 908	1 466 789	54 468	D	76 440	1	1
		2000	152 483	1 693 704	63 992	D	88 492	1	1
		1999	114 609	1 051 880	49 184	434 043	65 426	1	1
		1998	117 932	1 889 781	56 141	436 307	61 791	1	1
		1997	129 160	2 092 878	63 553	480 706	65 607	X	X
331419	Other nonferrous metal primary smelting & refining	2001	191 448	3 878 826	120 043	D	71 406	6	3
		2000	208 655	4 424 167	135 191	D	73 463	5	2
		1999	208 522	4 581 164	146 962	1 414 017	61 560	3	2
		1998	200 912	4 221 030	138 438	791 762	62 474	3	1
		1997	213 980	4 432 178	148 776	784 903	65 204	X	X
33142	Copper rolling, drawing, extruding, & alloying	2001	214 571	2 537 171	130 978	D	83 592	3	4
		2000	201 199	2 616 567	128 099	–	73 101	1	3
		1999	188 582	2 609 878	123 989	D	64 593	1	7
		1998	196 895	2 604 515	130 592	D	66 302	1	1
		1997	201 065	2 648 668	132 253	D	68 812	X	X
331421	Copper rolling, drawing, & extruding	2001	176 823	2 086 662	104 650	–	72 173	3	4
		2000	165 473	2 229 619	103 189	–	62 284	1	4
		1999	156 596	2 264 972	102 347	–	54 250	1	8
		1998	163 117	2 252 116	108 782	D	54 335	1	1
		1997	168 283	2 296 362	110 147	D	58 136	X	X
331422	Copper wire (except mechanical) drawing	2001	17 540	267 976	15 639	D	1 900	15	2
		2000	14 970	220 390	13 437	–	1 533	6	2
		1999	10 870	153 597	9 672	D	1 198	5	7
		1998	12 010	161 474	9 996	S	2 013	1	13
		1997	12 077	160 468	10 216	–	1 861	X	X
331423	Secondary smelting, refining, & alloying of copper	2001	20 208	182 533	10 689	–	9 519	4	1
		2000	20 756	166 557	11 473	–	9 283	3	2
		1999	21 116	191 308	11 970	–	9 145	2	2
		1998	21 768	190 925	11 814	–	9 954	1	5
		1997	20 705	191 838	11 890	–	8 815	X	X
33149	Other nonferrous metal rolling, drawing, extruding, & alloying	2001	268 160	3 023 383	144 905	–	123 255	2	2
		2000	256 227	3 036 838	153 070	–	103 157	6	2
		1999	244 455	3 001 117	145 161	D	99 294	3	3
		1998	259 858	3 232 986	157 414	D	102 444	2	1
		1997	269 950	3 291 177	161 323	D	108 627	X	X
331491	Other nonferrous metal rolling, drawing, & extruding	2001	170 280	2 142 510	95 701	–	74 579	2	1
		2000	157 222	2 051 105	98 939	–	58 283	2	2
		1999	160 060	2 122 627	97 446	–	62 614	1	1
		1998	170 927	2 232 498	105 140	D	65 787	3	2
		1997	182 274	2 296 726	109 162	D	73 112	X	X
331492	Other nonferrous metal secondary smelting, refining, & alloying	2001	97 880	880 873	49 204	–	48 676	4	4
		2000	99 006	985 733	54 131	–	44 874	16	3
		1999	84 395	878 490	47 715	D	36 680	9	7
		1998	88 931	1 000 488	52 274	–	36 657	1	1
		1997	87 676	994 451	52 161	–	35 515	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
331	Primary metal mfg—Con.								
3315	Foundries	2001	1 321 458	15 948 937	787 492	2 531	533 966	2	4
		2000	1 264 350	16 520 036	800 101	3 467	464 249	1	4
		1999	1 166 801	15 907 117	774 448	D	392 353	1	4
		1998	1 201 587	16 073 782	786 284	3 121	415 303	1	2
		1997	1 191 266	15 674 156	772 162	23 041	419 104	X	X
33151	Ferrous metal foundries	2001	908 390	11 733 130	565 619	–1 879	342 771	2	5
		2000	897 437	12 370 249	579 851	–1 312	317 586	2	5
		1999	825 770	11 931 995	562 830	D	262 940	2	5
		1998	838 011	12 002 226	565 037	25	272 974	1	1
		1997	841 661	11 698 821	559 453	21 231	282 208	X	X
331511	Iron foundries	2001	693 833	8 895 282	418 483	–	275 350	3	6
		2000	674 505	9 397 747	422 690	–	251 815	2	6
		1999	604 298	8 950 477	404 379	–	199 919	2	6
		1998	631 257	9 060 820	416 080	D	215 178	1	2
		1997	640 941	8 863 165	417 455	D	223 486	X	X
331512	Steel investment foundries	2001	81 775	1 009 444	56 967	D	24 809	1	3
		2000	79 038	974 932	56 376	–	22 662	1	5
		1999	73 601	952 730	52 316	–	21 285	1	6
		1998	71 376	880 524	50 356	D	21 020	5	5
		1997	70 669	866 668	50 513	D	20 156	X	X
331513	Steel foundries (except investment)	2001	132 782	1 828 403	90 170	D	42 613	3	6
		2000	143 894	1 997 570	100 785	–1 312	43 110	2	5
		1999	147 872	2 028 787	106 135	D	41 736	2	5
		1998	135 378	2 060 881	98 601	–	36 777	1	1
		1997	130 051	1 968 988	91 485	–	38 566	X	X
33152	Nonferrous metal foundries	2001	413 067	4 215 807	221 873	4 410	191 194	3	5
		2000	366 913	4 149 787	220 250	4 780	146 663	2	8
		1999	341 031	3 975 122	211 618	4 687	129 413	2	5
		1998	363 576	4 071 556	221 247	3 096	142 329	3	6
		1997	349 605	3 975 335	212 709	1 810	136 896	X	X
331521	Aluminum die-casting foundries	2001	160 533	1 524 400	76 112	–	84 421	5	8
		2000	129 645	1 443 039	73 054	–	56 591	4	20
		1999	116 189	1 369 407	68 776	–	47 413	3	12
		1998	133 661	1 427 377	77 373	D	56 288	3	11
		1997	128 855	1 406 679	73 692	D	55 163	X	X
331522	Nonferrous (except aluminum) die-casting foundries	2001	49 963	570 669	32 675	–	17 288	7	21
		2000	48 786	566 796	32 915	–	15 871	5	14
		1999	47 898	536 074	32 835	–	15 063	3	8
		1998	56 941	580 415	37 166	–	19 775	3	7
		1997	47 846	497 596	31 564	–	16 282	X	X
331524	Aluminum foundries (except die-casting)	2001	151 305	1 585 638	77 750	4 410	73 555	5	5
		2000	135 012	1 564 021	77 841	4 780	57 171	3	6
		1999	129 389	1 511 977	76 038	4 687	53 351	3	6
		1998	126 912	1 469 585	73 198	D	53 713	2	4
		1997	119 976	1 427 739	70 260	D	49 716	X	X
331525	Copper foundries (except die-casting)	2001	35 431	349 646	23 595	–	11 836	5	16
		2000	35 257	357 613	23 882	–	11 375	6	13
		1999	30 652	353 556	21 849	–	8 803	5	8
		1998	32 097	373 410	23 310	–	8 788	6	19
		1997	28 831	359 788	21 520	–	7 311	X	X
331528	Other nonferrous foundries (except die-casting)	2001	15 835	185 454	11 741	–	4 095	22	47
		2000	18 213	218 319	12 559	–	5 654	13	16
		1999	16 903	204 108	12 120	–	4 783	13	16
		1998	13 964	220 768	10 201	–	3 764	48	97
		1997	24 097	283 533	15 673	–	8 424	X	X
332	Fabricated metal product mfg	2001	4 448 204	45 972 781	2 826 399	92 752	1 621 806	1	2
		2000	4 295 731	46 834 768	2 797 012	104 675	1 498 719	1	3
		1999	3 927 852	45 185 473	2 664 214	113 846	1 263 638	1	3
		1998	3 748 273	42 705 683	2 572 296	192 735	1 175 977	1	1
		1997	3 692 166	41 510 070	2 504 217	80 093	1 187 949	X	X
3321	Forging & stamping	2001	650 040	6 356 513	379 990	1 853	270 049	3	3
		2000	617 439	6 549 498	382 026	1 557	235 413	2	3
		1999	533 813	6 305 900	349 313	–	184 500	2	3
		1998	475 745	5 232 634	305 501	10 984	170 245	1	7
		1997	484 451	5 134 311	302 410	–	182 041	X	X
33211	Forging & stamping	2001	650 040	6 356 513	379 990	1 853	270 049	3	3
		2000	617 439	6 549 498	382 026	1 557	235 413	2	3
		1999	533 813	6 305 900	349 313	–	184 500	2	3
		1998	475 745	5 232 634	305 501	10 984	170 245	1	7
		1997	484 451	5 134 311	302 410	–	182 041	X	X
332111	Iron & steel forging	2001	234 824	1 749 184	118 424	D	116 400	3	4
		2000	221 225	1 782 733	118 018	–	103 207	2	4
		1999	174 310	1 795 872	101 920	–	72 390	2	4
		1998	183 954	1 751 722	102 937	–	81 017	1	3
		1997	172 971	1 640 727	95 388	–	77 583	X	X
332112	Nonferrous forging	2001	80 496	587 180	36 242	–	44 254	2	3
		2000	64 636	551 138	32 980	–	31 656	2	4
		1999	56 585	520 497	30 579	–	26 005	1	3
		1998	53 515	465 253	26 642	S	26 873	1	1
		1997	51 580	450 636	26 791	–	24 789	X	X
332114	Custom roll forming	2001	75 761	1 294 166	52 712	–	23 048	3	7
		2000	70 355	1 335 792	50 515	–	19 840	3	11
		1999	61 374	1 234 102	47 496	–	13 878	1	5
		1998	45 733	730 397	33 521	22	12 212	2	4
		1997	43 620	679 864	31 016	–	12 604	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
332	Fabricated metal product mfg—Con.								
3321	Forging & stamping—Con.								
33211	Forging & stamping—Con.								
332115	Crown & closure mfg	2001..	18 419	170 833	9 272	–	9 147	4	4
		2000..	18 142	186 242	10 342	–	7 800	3	2
		1999..	17 140	194 812	10 478	–	6 661	1	1
		1998..	18 880	208 727	10 990	–	7 890	3	4
		1997..	20 613	209 134	11 512	–	9 101	X	X
332116	Metal stamping	2001..	191 914	1 918 235	129 998	–	61 916	5	5
		2000..	195 261	2 092 494	137 884	–	57 377	3	4
		1999..	182 969	1 881 423	128 676	–	54 293	3	7
		1998..	141 783	1 663 661	108 715	S	33 069	3	35
		1997..	163 713	1 749 789	115 396	–	48 317	X	X
332117	Powder metallurgy part mfg	2001..	48 626	636 915	33 342	D	15 284	22	28
		2000..	47 820	601 098	32 287	1 557	15 533	22	24
		1999..	41 437	679 194	30 164	–	11 272	18	26
		1998..	31 880	412 873	22 696	–	9 184	2	4
		1997..	31 954	404 161	22 307	–	9 647	X	X
3322	Cutlery & handtool mfg	2001..	158 745	1 683 113	106 005	D	52 740	2	2
		2000..	148 173	1 741 638	103 768	D	44 405	2	3
		1999..	138 823	1 705 480	103 016	D	35 806	2	5
		1998..	140 150	1 659 300	104 124	69 792	36 026	1	1
		1997..	145 951	1 703 508	106 629	57 534	39 322	X	X
33221	Cutlery & handtool mfg	2001..	158 745	1 683 113	106 005	D	52 740	2	2
		2000..	148 173	1 741 638	103 768	D	44 405	2	3
		1999..	138 823	1 705 480	103 016	D	35 806	2	5
		1998..	140 150	1 659 300	104 124	69 792	36 026	1	1
		1997..	145 951	1 703 508	106 629	57 534	39 322	X	X
332211	Cutlery & flatware (except precious) mfg	2001..	26 636	227 481	17 553	D	9 084	3	2
		2000..	22 625	222 408	15 303	D	7 322	4	2
		1999..	20 905	212 435	15 364	D	5 540	4	3
		1998..	21 354	205 532	15 092	D	6 262	3	2
		1997..	22 420	210 740	15 673	D	6 747	X	X
332212	Hand & edge tool mfg	2001..	91 100	979 708	62 023	1 347	29 077	3	3
		2000..	86 766	1 023 889	61 076	D	25 690	2	3
		1999..	84 196	1 032 853	61 388	D	22 808	2	3
		1998..	82 039	1 016 042	61 332	D	20 707	2	2
		1997..	85 210	1 045 188	62 763	D	22 447	X	X
332213	Saw blade & handsaw mfg	2001..	21 760	273 538	16 862	–	4 898	3	20
		2000..	21 562	294 617	16 759	–	4 802	3	22
		1999..	17 802	272 796	15 711	–	2 092	3	5
		1998..	18 566	241 274	16 453	–	2 113	1	5
		1997..	18 686	248 923	16 473	–	2 213	X	X
332214	Kitchen utensil, pot, & pan mfg	2001..	19 248	202 386	9 568	–	9 681	2	1
		2000..	17 220	200 725	10 630	–	6 590	1	5
		1999..	15 920	187 396	10 553	–	5 367	2	26
		1998..	18 191	196 451	11 247	–	6 944	2	1
		1997..	19 635	198 657	11 720	–	7 915	X	X
3323	Architectural & structural metals mfg	2001..	675 293	6 476 539	416 847	2 934	258 446	5	12
		2000..	667 166	6 730 344	413 818	2 703	253 348	5	12
		1999..	605 645	6 335 065	378 994	2 679	226 651	3	11
		1998..	527 369	5 578 070	348 973	S	178 396	1	2
		1997..	497 110	5 259 347	331 157	–	165 953	X	X
33231	Plate work & fabricated structural product mfg	2001..	259 900	2 464 388	159 833	668	100 067	4	19
		2000..	247 665	2 551 038	157 200	622	90 465	3	19
		1999..	235 612	2 377 622	150 277	600	85 335	3	18
		1998..	220 988	2 231 590	138 584	S	82 403	1	3
		1997..	207 998	2 171 274	135 865	–	72 133	X	X
332311	Prefabricated metal building & component mfg	2001..	33 865	339 684	22 258	–	11 607	5	6
		2000..	32 637	342 781	22 203	–	10 435	5	5
		1999..	32 077	349 341	21 114	–	10 963	3	10
		1998..	29 777	324 486	18 110	–	11 667	6	4
		1997..	29 658	310 769	18 635	–	11 023	X	X
332312	Fabricated structural metal mfg	2001..	187 900	1 741 005	111 351	668	76 549	6	23
		2000..	178 069	1 827 529	108 992	622	69 077	5	23
		1999..	168 094	1 660 596	104 170	600	63 924	4	22
		1998..	150 158	1 535 100	96 544	S	53 614	1	5
		1997..	136 248	1 502 857	94 017	–	42 231	X	X
332313	Plate work mfg	2001..	38 134	383 700	26 224	–	11 910	6	52
		2000..	36 959	380 727	26 005	–	10 954	6	56
		1999..	35 441	367 685	24 993	–	10 448	6	59
		1998..	41 052	372 004	23 930	–	17 122	2	3
		1997..	42 092	357 648	23 213	–	18 879	X	X
33232	Ornamental & architectural metal products mfg	2001..	415 394	4 012 150	257 014	2 266	158 380	7	15
		2000..	419 501	4 179 306	256 618	2 081	162 883	8	16
		1999..	370 033	3 957 443	228 717	2 079	141 316	5	14
		1998..	306 381	3 346 480	210 389	S	95 993	1	2
		1997..	289 112	3 088 073	195 292	–	93 820	X	X
332321	Metal window & door mfg	2001..	96 198	1 050 001	66 665	–	29 533	3	4
		2000..	93 378	1 079 720	65 856	–	27 522	3	4
		1999..	89 348	1 039 291	63 113	–	26 235	3	7
		1998..	89 457	1 010 027	61 877	–	27 580	1	6
		1997..	79 997	922 639	55 873	–	24 124	X	X
332322	Sheet metal work mfg	2001..	256 937	2 448 872	155 358	2 266	101 580	11	24
		2000..	265 828	2 555 232	155 450	2 081	110 378	12	24
		1999..	222 353	2 404 565	132 668	2 079	89 686	8	22
		1998..	171 913	1 864 879	118 440	S	53 473	3	2
		1997..	165 765	1 727 419	111 058	–	54 707	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
332	Fabricated metal product mfg—Con.								
3323	Architectural & structural metals mfg—Con.								
33232	Ornamental & architectural metal products mfg—Con.								
332323	Ornamental & architectural metal work mfg	2001	62 258	513 278	34 991	–	27 267	4	5
		2000	60 296	544 354	35 312	–	24 983	7	7
		1999	58 331	513 587	32 936	–	25 395	6	7
		1998	45 011	471 573	30 072	–	14 940	2	2
		1997	43 350	438 015	28 361	–	14 989	X	X
3324	Boiler, tank, & shipping container mfg	2001	397 178	4 394 486	255 551	3 465	141 628	1	2
		2000	367 077	4 548 522	250 613	–	116 464	2	3
		1999	351 235	4 582 155	253 334	–	97 902	2	4
		1998	343 333	4 437 850	246 446	S	96 887	1	2
		1997	351 646	4 487 215	247 769	–	103 877	X	X
33241	Power boiler & heat exchanger mfg	2001	48 916	511 254	32 735	–	16 181	4	10
		2000	43 141	490 548	29 175	–	13 967	4	8
		1999	40 665	444 831	27 514	–	13 151	3	7
		1998	44 579	496 114	30 840	–	13 738	2	10
		1997	42 660	468 184	29 129	–	13 531	X	X
332410	Power boiler & heat exchanger mfg	2001	48 916	511 254	32 735	–	16 181	4	10
		2000	43 141	490 548	29 175	–	13 967	4	8
		1999	40 665	444 831	27 514	–	13 151	3	7
		1998	44 579	496 114	30 840	–	13 738	2	10
		1997	42 660	468 184	29 129	–	13 531	X	X
33242	Metal tank (heavy gauge) mfg	2001	71 316	635 955	42 347	3 465	28 969	5	6
		2000	73 698	756 308	46 643	–	27 054	8	10
		1999	69 999	773 568	47 408	–	22 591	10	15
		1998	63 374	693 258	42 768	–	20 607	3	4
		1997	62 830	661 408	40 644	–	22 186	X	X
332420	Metal tank (heavy gauge) mfg	2001	71 316	635 955	42 347	3 465	28 969	5	6
		2000	73 698	756 308	46 643	–	27 054	8	10
		1999	69 999	773 568	47 408	–	22 591	10	15
		1998	63 374	693 258	42 768	–	20 607	3	4
		1997	62 830	661 408	40 644	–	22 186	X	X
33243	Metal can, box, & other metal container (light gauge) mfg	2001	276 946	3 247 277	180 469	–	96 477	1	2
		2000	250 237	3 301 667	174 795	–	75 443	1	2
		1999	240 571	3 363 756	178 412	–	62 159	1	2
		1998	235 380	3 248 478	172 838	S	62 542	1	1
		1997	246 156	3 357 623	177 996	–	68 160	X	X
332431	Metal can mfg	2001	238 420	2 938 598	159 399	–	79 021	1	3
		2000	212 750	2 988 797	153 339	–	59 411	1	2
		1999	201 784	3 034 385	154 989	–	46 795	1	1
		1998	198 165	2 912 309	150 137	–	48 027	1	1
		1997	210 502	3 045 766	156 883	–	53 619	X	X
332439	Other metal container mfg	2001	38 526	308 680	21 070	–	17 456	5	7
		2000	37 488	312 870	21 456	–	16 032	4	6
		1999	38 787	329 371	23 423	–	15 365	3	6
		1998	37 216	336 168	22 701	S	14 515	3	1
		1997	35 654	311 857	21 113	–	14 541	X	X
3325	Hardware mfg	2001	107 017	1 197 087	74 788	D	32 229	2	14
		2000	103 014	1 250 950	75 309	D	27 705	2	16
		1999	96 775	1 210 401	73 379	D	23 396	2	19
		1998	107 500	1 242 803	77 517	D	29 983	1	2
		1997	112 551	1 275 709	79 253	D	33 298	X	X
33251	Hardware mfg	2001	107 017	1 197 087	74 788	D	32 229	2	14
		2000	103 014	1 250 950	75 309	D	27 705	2	16
		1999	96 775	1 210 401	73 379	D	23 396	2	19
		1998	107 500	1 242 803	77 517	D	29 983	1	2
		1997	112 551	1 275 709	79 253	D	33 298	X	X
332510	Hardware mfg	2001	107 017	1 197 087	74 788	D	32 229	2	14
		2000	103 014	1 250 950	75 309	D	27 705	2	16
		1999	96 775	1 210 401	73 379	D	23 396	2	19
		1998	107 500	1 242 803	77 517	D	29 983	1	2
		1997	112 551	1 275 709	79 253	D	33 298	X	X
3326	Spring & wire product mfg	2001	153 120	1 426 664	96 762	D	56 358	5	11
		2000	148 237	1 543 561	101 724	D	46 513	5	7
		1999	138 340	1 568 562	94 783	–	43 557	3	12
		1998	143 279	1 648 660	97 400	D	45 879	2	5
		1997	128 993	1 455 097	87 836	D	41 157	X	X
33261	Spring & wire product mfg	2001	153 120	1 426 664	96 762	D	56 358	5	11
		2000	148 237	1 543 561	101 724	D	46 513	5	7
		1999	138 340	1 568 562	94 783	–	43 557	3	12
		1998	143 279	1 648 660	97 400	D	45 879	2	5
		1997	128 993	1 455 097	87 836	D	41 157	X	X
332611	Spring (heavy gauge) mfg	2001	21 054	198 858	12 334	–	8 720	7	8
		2000	20 807	182 630	12 793	–	8 014	11	8
		1999	19 825	179 640	11 665	–	8 160	3	3
		1998	24 602	237 497	14 840	–	9 762	1	1
		1997	19 630	177 916	11 266	–	8 364	X	X
332612	Spring (light gauge) mfg	2001	36 245	389 206	24 675	–	11 570	5	10
		2000	35 242	390 524	23 637	–	11 604	5	14
		1999	33 372	409 824	23 499	–	9 874	4	15
		1998	36 836	427 980	24 801	–	12 035	4	13
		1997	31 349	354 303	21 458	–	9 891	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
332	Fabricated metal product mfg—Con.								
3326	Spring & wire product mfg—Con.								
33261	Spring & wire product mfg—Con.								
332618	Other fabricated wire product mfg	2001	95 821	838 600	59 753	D	36 068	8	17
		2000	92 188	970 407	65 293	D	26 895	8	11
		1999	85 142	979 098	59 619	–	25 523	4	19
		1998	81 841	983 183	57 759	D	24 082	2	6
		1997	78 014	922 878	55 112	D	22 902	X	X
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2001	699 013	7 504 063	523 278	D	175 735	3	4
		2000	662 752	7 205 767	484 919	14 360	177 834	2	4
		1999	625 157	6 677 876	458 521	D	166 635	2	5
		1998	573 761	6 612 560	440 828	13 406	132 933	3	4
		1997	573 240	6 410 732	431 739	10 038	141 501	X	X
33271	Machine shops	2001	441 500	4 947 203	337 126	1 808	104 374	5	6
		2000	411 080	4 481 175	299 183	D	111 897	3	6
		1999	382 160	4 041 941	277 121	2 329	105 039	3	7
		1998	330 708	3 909 614	254 460	11 950	76 249	6	7
		1997	334 795	3 796 246	251 532	4 091	83 263	X	X
332710	Machine shops	2001	441 500	4 947 203	337 126	1 808	104 374	5	6
		2000	411 080	4 481 175	299 183	D	111 897	3	6
		1999	382 160	4 041 941	277 121	2 329	105 039	3	7
		1998	330 708	3 909 614	254 460	11 950	76 249	6	7
		1997	334 795	3 796 246	251 532	4 091	83 263	X	X
33272	Turned product & screw, nut, & bolt mfg	2001	257 513	2 556 860	186 152	D	71 361	3	6
		2000	251 673	2 724 592	185 736	D	65 937	3	3
		1999	242 996	2 635 934	181 400	D	61 596	3	3
		1998	243 053	2 702 947	186 369	1 456	56 684	2	3
		1997	238 445	2 614 486	180 207	5 947	58 238	X	X
332721	Precision turned product mfg	2001	120 661	1 304 694	93 971	D	26 690	3	15
		2000	118 755	1 349 702	92 541	89	26 214	2	8
		1999	113 938	1 300 148	89 419	87	24 519	2	7
		1998	113 571	1 346 534	91 860	S	21 711	2	5
		1997	106 424	1 268 102	86 556	–	19 868	X	X
332722	Bolt, nut, screw, rivet, & washer mfg	2001	136 852	1 252 167	92 181	D	44 671	6	3
		2000	132 917	1 374 889	93 195	D	39 722	6	3
		1999	129 058	1 335 786	91 981	D	37 078	5	3
		1998	129 482	1 356 413	94 509	1 551	34 973	2	3
		1997	132 021	1 346 384	93 651	5 947	38 370	X	X
3328	Coating, engraving, heat treating, & allied activities	2001	859 662	7 409 586	446 633	22 218	413 029	3	5
		2000	852 987	7 843 403	460 801	30 411	392 186	4	6
		1999	755 039	7 380 557	439 525	36 175	315 514	3	5
		1998	731 233	6 959 105	426 354	38 201	304 879	1	3
		1997	707 238	6 708 662	412 774	4 124	294 464	X	X
33281	Coating, engraving, heat treating, & allied activities	2001	859 662	7 409 586	446 633	22 218	413 029	3	5
		2000	852 987	7 843 403	460 801	30 411	392 186	4	6
		1999	755 039	7 380 557	439 525	36 175	315 514	3	5
		1998	731 233	6 959 105	426 354	38 201	304 879	1	3
		1997	707 238	6 708 662	412 774	4 124	294 464	X	X
332811	Metal heat treating	2001	240 423	2 121 218	122 899	4 637	117 524	6	10
		2000	252 477	2 198 015	129 542	4 168	122 935	10	9
		1999	211 516	1 949 487	120 227	–	91 288	7	6
		1998	215 295	1 832 746	113 316	24 850	101 979	4	7
		1997	201 916	1 778 193	110 889	2 716	91 027	X	X
332812	Metal coating/engraving (exc jewelry/ silverware)/allied services	2001	336 501	2 623 782	148 013	666	188 488	7	8
		2000	327 542	2 903 603	155 605	629	171 937	9	11
		1999	287 795	2 780 077	149 721	9 472	138 073	7	11
		1998	258 009	2 429 292	140 861	470	117 148	2	3
		1997	243 044	2 265 023	130 222	1 243	112 822	X	X
332813	Electroplating, plating, polishing, anodizing, & coloring	2001	282 737	2 664 586	175 721	16 916	107 016	3	3
		2000	272 968	2 741 784	175 655	25 615	97 314	2	3
		1999	255 729	2 650 993	169 576	26 703	86 152	2	3
		1998	257 929	2 697 067	172 177	12 881	85 752	2	3
		1997	262 278	2 665 446	171 663	165	90 615	X	X
3329	Other fabricated metal product mfg	2001	748 137	9 524 729	526 545	D	221 592	1	2
		2000	728 886	9 421 085	524 035	D	204 851	1	2
		1999	683 026	9 419 478	513 349	–1 205	169 676	1	1
		1998	705 901	9 334 702	525 152	53 204	180 749	1	1
		1997	690 986	9 075 489	504 650	2 594	186 336	X	X
33291	Metal valve mfg	2001	231 631	3 050 146	181 737	–	49 894	1	2
		2000	225 473	3 136 878	178 473	–	47 000	1	3
		1999	215 079	3 133 906	176 924	D	38 154	1	3
		1998	229 611	3 229 133	186 231	D	43 380	1	3
		1997	221 577	3 065 386	177 082	D	44 495	X	X
332911	Industrial valve mfg	2001	104 134	1 392 680	84 089	–	20 045	2	4
		2000	102 300	1 492 091	83 263	–	19 037	2	4
		1999	100 595	1 431 526	84 213	–	16 382	2	4
		1998	101 924	1 412 856	85 446	D	16 478	2	2
		1997	94 270	1 316 203	77 238	D	17 032	X	X
332912	Fluid power valve & hose fitting mfg	2001	50 323	703 142	43 605	–	6 718	2	5
		2000	49 036	729 426	42 942	–	6 094	2	8
		1999	48 594	747 840	42 432	–	6 162	2	8
		1998	50 890	840 596	44 868	–	6 022	1	6
		1997	52 117	795 687	44 862	–	7 255	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
332	Fabricated metal product mfg—Con.								
3329	Other fabricated metal product mfg—Con.								
33291	Metal valve mfg—Con.								
332913	Plumbing fixture fitting & trim mfg	2001	27 612	282 793	18 232	–	9 380	4	7
		2000	29 219	284 412	19 075	–	10 144	3	5
		1999	24 369	336 803	18 292	D	6 078	4	7
		1998	27 450	308 168	18 888	D	8 562	3	10
		1997	26 906	291 081	18 895	D	8 011	X	X
332919	Other metal valve & pipe fitting mfg	2001	49 562	671 531	35 811	–	13 751	3	4
		2000	44 918	630 949	33 193	–	11 725	3	4
		1999	41 520	617 737	31 988	–	9 532	2	4
		1998	49 347	667 514	37 029	S	12 318	4	6
		1997	48 284	662 415	36 087	–	12 197	X	X
33299	All other fabricated metal product mfg	2001	516 506	6 474 583	344 807	D	171 698	1	2
		2000	503 413	6 284 207	345 561	D	157 852	1	2
		1999	467 947	6 285 572	336 425	D	131 522	1	2
		1998	476 290	6 105 569	338 921	D	137 369	1	1
		1997	469 409	6 010 103	327 568	D	141 841	X	X
332991	Ball & roller bearing mfg	2001	131 162	1 844 713	92 181	–	38 981	2	1
		2000	130 837	1 878 220	94 950	–	35 887	2	1
		1999	125 923	1 973 058	96 337	–	29 587	1	1
		1998	130 879	1 912 171	94 944	–	35 935	1	1
		1997	130 391	1 856 456	91 464	–	38 927	X	X
332992	Small arms ammunition mfg	2001	19 466	237 583	10 680	–	8 785	2	1
		2000	14 258	197 796	8 172	–	6 085	2	1
		1999	15 832	239 255	10 294	–	5 538	2	1
		1998	14 393	219 986	9 330	S	5 063	1	1
		1997	17 089	230 706	10 014	–	7 075	X	X
332993	Ammunition (except small arms) mfg	2001	24 261	225 978	13 032	D	11 229	6	11
		2000	23 120	222 235	14 167	D	8 953	6	10
		1999	20 673	224 492	12 836	D	7 837	5	9
		1998	20 625	240 687	14 590	S	6 035	1	1
		1997	20 994	234 065	14 195	–	6 799	X	X
332994	Small arms mfg	2001	18 886	167 344	14 633	–	4 253	4	5
		2000	20 037	187 625	16 109	–	3 927	3	4
		1999	18 118	186 935	14 298	–	3 820	2	2
		1998	19 696	194 463	15 376	–	4 320	1	1
		1997	18 917	201 297	15 092	–	3 825	X	X
332995	Other ordnance & accessories mfg	2001	11 121	153 064	7 955	–	3 166	2	5
		2000	11 719	171 723	8 395	–	3 323	2	4
		1999	13 295	219 608	9 550	–	3 745	2	3
		1998	16 889	250 099	12 538	–	4 350	1	1
		1997	16 966	233 615	11 542	–	5 424	X	X
332996	Fabricated pipe & pipe fitting mfg	2001	65 365	626 250	43 055	–	22 310	3	5
		2000	58 534	645 018	39 475	–	19 058	3	5
		1999	52 213	587 026	35 796	–	16 416	3	5
		1998	55 861	595 676	35 995	S	19 866	2	8
		1997	53 362	586 445	36 556	–	16 806	X	X
332997	Industrial pattern mfg	2001	9 998	109 650	7 288	–	2 710	5	7
		2000	10 119	111 787	7 346	–	2 773	3	6
		1999	9 645	105 993	6 958	–	2 687	3	6
		1998	9 287	98 407	6 376	S	2 912	5	8
		1997	9 817	103 762	6 516	–	3 301	X	X
332998	Enameled iron & metal sanitary ware mfg	2001	41 247	677 965	25 296	–	15 950	2	2
		2000	40 406	516 118	25 236	–	15 170	1	2
		1999	35 377	516 755	24 274	–	11 104	2	2
		1998	37 087	488 467	24 655	–	12 432	1	1
		1997	35 704	466 559	23 414	–	12 290	X	X
332999	All other miscellaneous fabricated metal product mfg	2001	195 002	2 432 036	130 687	–	64 315	3	4
		2000	194 384	2 353 684	131 710	–	62 674	2	4
		1999	176 871	2 232 452	126 081	–	50 790	2	3
		1998	171 574	2 105 613	125 117	D	46 457	3	1
		1997	166 169	2 097 198	118 775	D	47 394	X	X
333	Machinery mfg	2001	2 262 150	27 153 459	1 595 161	251 847	666 990	1	1
		2000	2 224 099	27 745 274	1 622 041	175 992	602 058	1	1
		1999	2 056 292	26 610 765	1 543 092	77 657	513 200	1	1
		1998	2 057 735	27 190 416	1 567 795	4 217	489 940	1	1
		1997	2 065 009	26 947 941	1 553 817	22 787	511 192	X	X
3331	Agriculture, construction, & mining machinery mfg	2001	399 095	4 866 612	248 003	D	151 092	2	3
		2000	352 875	4 609 390	232 431	D	120 443	2	3
		1999	313 024	4 314 419	219 329	D	93 695	2	2
		1998	355 023	4 986 156	243 212	15 943	111 811	1	2
		1997	349 641	4 986 795	238 856	11 864	110 785	X	X
33311	Agricultural implement mfg	2001	157 026	1 764 565	88 819	D	68 207	3	5
		2000	144 198	1 779 204	89 777	D	54 421	3	5
		1999	118 452	1 509 716	77 086	D	41 367	2	4
		1998	142 989	2 001 771	93 824	S	49 165	1	2
		1997	142 066	1 989 948	90 270	11 864	51 796	X	X
333111	Farm machinery & equipment mfg	2001	119 248	1 255 222	62 935	D	56 314	4	6
		2000	107 392	1 279 384	63 153	D	44 239	4	6
		1999	87 932	1 082 154	55 102	D	32 830	2	4
		1998	105 246	1 483 721	67 334	S	37 912	1	2
		1997	107 744	1 487 749	66 786	11 864	40 958	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
333	Machinery mfg—Con.								
3331	Agriculture, construction, & mining machinery mfg—Con.								
33311	Agricultural implement mfg—Con.								
333112	Lawn & garden tractor & home lawn & garden equipment mfg	2001	37 777	509 343	25 884	–	11 893	2	3
		2000	36 806	499 821	26 624	–	10 182	2	4
		1999	30 520	427 563	21 984	–	8 536	1	2
		1998	37 743	518 051	26 490	–	11 253	2	4
		1997	34 322	502 199	23 484	–	10 838	X	X
33312	Construction machinery mfg	2001	153 732	2 028 434	93 253	D	60 478	3	3
		2000	138 014	1 893 067	90 157	D	47 856	3	2
		1999	118 411	1 721 717	82 105	D	36 307	3	3
		1998	135 411	1 881 320	89 297	25 959	46 114	2	5
		1997	137 627	1 989 137	93 953	–	43 674	X	X
333120	Construction machinery mfg	2001	153 732	2 028 434	93 253	D	60 478	3	3
		2000	138 014	1 893 067	90 157	D	47 856	3	2
		1999	118 411	1 721 717	82 105	D	36 307	3	3
		1998	135 411	1 881 320	89 297	25 959	46 114	2	5
		1997	137 627	1 989 137	93 953	–	43 674	X	X
33313	Mining & oil & gas field machinery mfg	2001	88 338	1 073 612	65 931	–	22 407	5	5
		2000	70 663	937 119	52 497	–	18 166	4	6
		1999	76 160	1 082 986	60 138	–	16 022	7	9
		1998	76 624	1 103 065	60 091	–	16 532	2	1
		1997	69 948	1 007 710	54 633	–	15 315	X	X
333131	Mining machinery & equipment mfg	2001	20 865	245 643	13 936	–	6 929	6	8
		2000	19 400	235 176	13 331	–	6 070	5	6
		1999	19 895	239 893	14 179	–	5 717	3	5
		1998	26 263	334 585	18 506	–	7 757	5	2
		1997	23 134	277 833	16 217	–	6 917	X	X
333132	Oil & gas field machinery & equipment mfg	2001	67 473	827 969	51 994	–	15 478	6	6
		2000	51 262	701 943	39 166	–	12 097	6	8
		1999	56 265	843 093	45 959	–	10 305	9	14
		1998	50 361	768 480	41 585	–	8 775	1	1
		1997	46 814	729 877	38 416	–	8 398	X	X
3332	Industrial machinery mfg	2001	259 600	3 071 215	207 277	D	52 323	2	6
		2000	273 355	3 262 708	218 644	958	54 710	3	6
		1999	248 877	2 892 316	201 076	143	47 801	2	6
		1998	242 732	2 865 081	191 221	S	51 510	1	4
		1997	257 618	2 989 608	199 294	S	58 324	X	X
33321	Sawmill & woodworking machinery mfg	2001	9 379	108 290	6 693	–	2 686	5	7
		2000	10 951	136 830	7 961	–	2 989	3	8
		1999	10 516	135 250	7 357	–	3 159	3	7
		1998	9 107	129 382	7 301	–	1 806	4	22
		1997	10 052	135 103	7 224	–	2 828	X	X
333210	Sawmill & woodworking machinery mfg	2001	9 379	108 290	6 693	–	2 686	5	7
		2000	10 951	136 830	7 961	–	2 989	3	8
		1999	10 516	135 250	7 357	–	3 159	3	7
		1998	9 107	129 382	7 301	–	1 806	4	22
		1997	10 052	135 103	7 224	–	2 828	X	X
33322	Plastics & rubber industry machinery mfg	2001	23 429	293 707	21 002	–	2 427	15	A
		2000	22 834	287 172	19 376	–	3 458	13	76
		1999	22 250	268 620	19 034	–	3 216	6	81
		1998	23 464	249 132	16 252	–	7 212	5	4
		1997	23 257	238 486	15 703	–	7 554	X	X
333220	Plastics & rubber industry machinery mfg	2001	23 429	293 707	21 002	–	2 427	15	A
		2000	22 834	287 172	19 376	–	3 458	13	76
		1999	22 250	268 620	19 034	–	3 216	6	81
		1998	23 464	249 132	16 252	–	7 212	5	4
		1997	23 257	238 486	15 703	–	7 554	X	X
33329	Other industrial machinery mfg	2001	226 791	2 669 218	179 582	D	47 209	2	4
		2000	239 570	2 838 706	191 306	958	48 263	3	4
		1999	216 111	2 488 447	174 685	143	41 426	3	4
		1998	210 161	2 486 567	167 669	S	42 493	1	5
		1997	224 309	2 616 019	176 367	S	47 942	X	X
333291	Paper industry machinery mfg	2001	20 548	231 193	14 986	–	5 562	7	9
		2000	21 781	262 113	16 317	–	5 463	5	5
		1999	22 688	255 104	17 004	–	5 684	3	4
		1998	21 796	247 199	16 217	–	5 579	3	6
		1997	21 566	239 645	16 146	–	5 420	X	X
333292	Textile machinery mfg	2001	13 242	164 541	10 244	–	2 998	6	22
		2000	15 141	194 209	11 825	–	3 316	5	22
		1999	13 638	171 632	10 774	–	2 864	5	20
		1998	15 707	211 431	12 470	–	3 237	5	20
		1997	16 679	223 083	13 080	–	3 599	X	X
333293	Printing machinery & equipment mfg	2001	28 495	324 437	21 667	–	6 828	3	7
		2000	28 825	337 380	22 078	–	6 748	3	9
		1999	25 742	310 529	20 511	–	5 231	3	10
		1998	26 983	356 426	21 739	–	5 244	4	3
		1997	30 142	389 186	23 972	S	6 170	X	X
333294	Food product machinery mfg	2001	17 321	192 225	12 951	–	4 370	9	10
		2000	17 795	211 329	13 268	–	4 527	7	10
		1999	17 630	207 176	13 020	–	4 610	7	9
		1998	18 323	227 016	13 618	–	4 705	3	9
		1997	18 087	219 896	13 292	–	4 795	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
333	Machinery mfg—Con.								
3332	Industrial machinery mfg—Con.								
33329	Other industrial machinery mfg—Con.								
333295	Semiconductor machinery mfg	2001	75 132	957 397	65 104	D	10 028	3	11
		2000	78 143	966 828	67 851	D	10 292	2	7
		1999	62 756	718 296	55 302	D	7 454	1	7
		1998	64 285	721 766	54 065	D	10 220	3	12
		1997	73 584	794 118	62 092	D	11 492	X	X
333298	All other industrial machinery mfg	2001	72 053	799 424	54 630	–334	17 423	6	6
		2000	77 884	866 847	59 967	D	17 917	10	7
		1999	73 658	825 709	58 074	D	15 584	8	7
		1998	63 068	722 729	49 561	D	13 507	2	10
		1997	64 251	750 091	47 785	D	16 466	X	X
3333	Commercial & service industry machinery mfg	2001	182 688	1 706 022	115 331	20	67 356	4	6
		2000	178 679	1 746 504	116 515	20	62 165	3	3
		1999	181 090	1 927 304	122 830	80	58 259	2	2
		1998	170 445	2 110 070	134 748	S	35 697	1	1
		1997	174 230	2 097 340	136 952	S	37 278	X	X
33331	Commercial & service industry machinery mfg	2001	182 688	1 706 022	115 331	20	67 356	4	6
		2000	178 679	1 746 504	116 515	20	62 165	3	3
		1999	181 090	1 927 304	122 830	80	58 259	2	2
		1998	170 445	2 110 070	134 748	S	35 697	1	1
		1997	174 230	2 097 340	136 952	S	37 278	X	X
333311	Automatic vending machine mfg	2001	7 657	89 762	6 068	–	1 589	25	22
		2000	8 434	104 681	6 692	–	1 742	17	14
		1999	7 853	113 106	6 226	–	1 627	18	15
		1998	8 820	121 920	6 824	S	1 996	1	1
		1997	8 732	117 424	6 676	S	2 056	X	X
333312	Commercial laundry, drycleaning, & pressing machine mfg	2001	4 038	43 953	2 935	–	1 103	6	11
		2000	4 170	47 236	3 146	–	1 023	6	11
		1999	4 353	55 978	3 396	–	957	5	12
		1998	4 607	65 660	3 362	–	1 245	1	1
		1997	4 780	65 238	3 454	–	1 326	X	X
333313	Office machinery mfg	2001	15 993	170 426	12 510	–	3 484	5	18
		2000	15 795	163 603	12 741	–	3 054	6	7
		1999	16 638	180 003	13 132	–	3 507	5	5
		1998	17 362	204 140	13 494	–	3 868	1	2
		1997	18 351	209 022	14 443	–	3 908	X	X
333314	Optical instrument & lens mfg	2001	29 833	349 325	26 884	20	2 948	17	31
		2000	30 550	357 223	27 685	20	2 865	11	24
		1999	29 213	396 435	24 817	30	4 396	6	15
		1998	34 393	434 697	28 806	S	5 587	2	2
		1997	34 646	440 358	28 406	S	6 240	X	X
333315	Photographic & photocopying equipment mfg	2001	25 621	347 629	20 577	–	5 044	5	21
		2000	26 426	362 924	21 558	–	4 868	4	17
		1999	39 243	494 720	31 394	–	7 849	2	11
		1998	46 330	561 149	36 379	–	9 951	1	1
		1997	47 739	540 609	38 259	S	9 480	X	X
333319	Other commercial & service industry machinery mfg	2001	99 545	704 926	46 357	–	53 188	2	7
		2000	93 305	710 837	44 692	–	48 613	2	3
		1999	83 789	687 061	43 865	50	39 924	2	2
		1998	58 934	722 505	45 882	S	13 051	1	2
		1997	59 982	724 689	45 714	–	14 268	X	X
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	2001	263 033	3 204 907	182 181	3 083	80 853	2	3
		2000	258 984	3 230 186	181 172	3 890	77 812	2	7
		1999	228 613	3 089 503	171 268	1 719	57 345	2	4
		1998	230 626	3 234 148	174 003	–	56 623	4	2
		1997	223 312	3 049 838	165 490	–	57 822	X	X
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	2001	263 033	3 204 907	182 181	3 083	80 853	2	3
		2000	258 984	3 230 186	181 172	3 890	77 812	2	7
		1999	228 613	3 089 503	171 268	1 719	57 345	2	4
		1998	230 626	3 234 148	174 003	–	56 623	4	2
		1997	223 312	3 049 838	165 490	–	57 822	X	X
333411	Air purification equipment mfg	2001	21 350	237 533	15 080	–	6 270	4	8
		2000	20 731	235 562	14 347	–	6 383	3	6
		1999	19 846	238 539	14 718	–	5 129	4	11
		1998	29 269	480 100	23 432	–	5 837	31	7
		1997	21 983	305 530	16 487	–	5 496	X	X
333412	Industrial & commercial fan & blower mfg	2001	19 243	191 271	11 641	–	7 602	4	8
		2000	17 974	181 819	11 920	–	6 054	3	8
		1999	14 553	171 414	10 253	–	4 300	4	11
		1998	16 415	184 460	10 887	–	5 528	9	17
		1997	20 035	277 752	15 499	–	4 536	X	X
333414	Heating equipment (except warm air furnaces) mfg	2001	39 536	394 005	24 242	–	15 294	4	6
		2000	38 734	391 606	24 679	–	14 054	4	5
		1999	34 374	364 450	22 552	–	11 822	3	4
		1998	31 392	337 076	21 109	–	10 284	4	3
		1997	33 246	343 534	21 454	–	11 792	X	X
333415	AC & warm air heating & commercial/industrial refrig equip mfg	2001	182 904	2 382 097	131 218	3 083	51 686	3	5
		2000	181 547	2 421 198	130 226	3 890	51 320	2	11
		1999	159 840	2 315 100	123 746	1 719	36 094	3	6
		1998	153 549	2 232 512	118 575	–	34 974	1	1
		1997	148 048	2 123 022	112 050	–	35 998	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
333	Machinery mfg—Con.								
3335	Metalworking machinery mfg	2001	339 925	4 013 910	267 214	D	72 711	2	4
		2000	354 104	4 396 821	281 742	D	72 362	2	3
		1999	343 775	4 179 004	271 253	D	72 522	2	4
		1998	331 070	3 929 868	261 933	2 535	69 137	3	2
		1997	333 894	3 997 812	265 370	905	68 524	X	X
33351	Metalworking machinery mfg	2001	339 925	4 013 910	267 214	D	72 711	2	4
		2000	354 104	4 396 821	281 742	D	72 362	2	3
		1999	343 775	4 179 004	271 253	D	72 522	2	4
		1998	331 070	3 929 868	261 933	2 535	69 137	3	2
		1997	333 894	3 997 812	265 370	905	68 524	X	X
333511	Industrial mold mfg	2001	76 247	881 386	57 372	–	18 876	4	10
		2000	79 125	949 127	60 929	–	18 196	4	8
		1999	78 135	898 429	59 275	–	18 860	6	11
		1998	64 935	699 349	50 414	–	14 521	9	3
		1997	65 831	747 274	51 515	–	14 316	X	X
333512	Machine tool (metal cutting types) mfg	2001	39 318	454 824	30 493	–	8 825	6	9
		2000	41 143	497 371	33 433	–	7 710	6	9
		1999	37 667	479 584	30 021	–	7 646	5	9
		1998	37 069	465 016	29 458	–	7 611	4	5
		1997	42 676	510 674	34 069	–	8 607	X	X
333513	Machine tool (metal forming types) mfg	2001	15 603	184 898	11 808	–	3 795	8	21
		2000	16 308	215 075	13 008	–	3 300	7	24
		1999	16 059	213 645	12 869	–	3 190	7	23
		1998	18 754	232 898	14 027	–	4 727	2	1
		1997	18 205	217 588	13 289	–	4 916	X	X
333514	Special die & tool, die set, jig, & fixture mfg	2001	98 379	1 118 389	78 726	–	19 653	3	6
		2000	102 222	1 178 467	80 959	–	21 263	3	6
		1999	99 757	1 129 820	78 045	–	21 712	3	7
		1998	103 976	1 174 879	80 100	–	23 875	2	3
		1997	98 415	1 130 107	76 695	–	21 720	X	X
333515	Cutting tool & machine tool accessory mfg	2001	79 981	1 049 579	65 883	–	14 098	2	4
		2000	84 661	1 219 579	70 827	–	13 834	3	5
		1999	81 511	1 129 372	68 007	–	13 505	2	5
		1998	78 290	1 046 180	65 743	D	12 548	8	6
		1997	78 900	1 053 351	66 941	–	11 959	X	X
333516	Rolling mill machinery & equipment mfg	2001	8 285	86 927	5 388	–	2 898	12	18
		2000	8 644	93 661	5 850	–	2 794	12	21
		1999	7 369	77 958	5 081	–	2 288	5	23
		1998	8 237	90 121	6 182	–	2 055	5	4
		1997	9 993	123 163	7 299	–	2 694	X	X
333518	Other metalworking machinery mfg	2001	22 112	237 907	17 546	D	4 566	5	6
		2000	22 001	243 542	16 736	D	5 265	4	7
		1999	23 276	250 197	17 954	D	5 322	3	5
		1998	19 808	221 426	16 009	D	3 799	3	9
		1997	19 874	215 655	15 562	D	4 312	X	X
3336	Engine, turbine, & power transmission equipment mfg	2001	278 393	3 802 380	195 583	203 571	82 810	2	4
		2000	269 982	3 807 395	197 530	D	72 452	2	5
		1999	263 056	3 973 429	192 556	D	70 500	1	4
		1998	255 599	3 914 864	193 814	25 248	61 785	1	3
		1997	248 106	3 760 547	187 846	19 766	60 260	X	X
33361	Engine, turbine, & power transmission equipment mfg	2001	278 393	3 802 380	195 583	203 571	82 810	2	4
		2000	269 982	3 807 395	197 530	D	72 452	2	5
		1999	263 056	3 973 429	192 556	D	70 500	1	4
		1998	255 599	3 914 864	193 814	25 248	61 785	1	3
		1997	248 106	3 760 547	187 846	19 766	60 260	X	X
333611	Turbine & turbine generator set unit mfg	2001	54 129	451 156	39 610	D	14 519	4	1
		2000	48 159	470 489	34 111	D	14 048	4	1
		1999	48 004	551 052	34 511	D	13 494	3	1
		1998	44 755	617 399	35 846	14 290	8 909	1	7
		1997	41 002	586 515	32 981	9 868	8 021	X	X
333612	Speed changer, industrial high-speed drive, & gear mfg	2001	35 587	408 790	21 897	–	13 691	8	4
		2000	32 766	397 926	20 849	–	11 917	8	5
		1999	33 322	403 961	21 751	–	11 571	6	6
		1998	33 166	379 377	22 264	–	10 901	2	16
		1997	28 117	374 201	20 776	–	7 341	X	X
333613	Mechanical power transmission equipment mfg	2001	48 157	596 882	34 515	–	13 642	3	8
		2000	46 174	598 481	34 936	–	11 237	4	13
		1999	44 866	584 710	34 978	–	9 888	4	14
		1998	43 800	585 853	34 502	–	9 298	1	3
		1997	44 106	611 500	34 402	–	9 704	X	X
333618	Other engine equipment mfg	2001	140 520	2 345 552	99 561	D	40 958	4	9
		2000	142 883	2 340 500	107 635	109 323	35 249	3	8
		1999	136 864	2 433 705	101 316	13 557	35 548	2	5
		1998	133 878	2 332 235	101 202	10 958	32 677	2	2
		1997	134 881	2 188 331	99 687	9 898	35 194	X	X
3339	Other general-purpose machinery mfg	2001	539 416	6 488 412	379 571	D	159 846	2	3
		2000	536 120	6 692 271	394 007	D	142 113	1	2
		1999	477 857	6 234 791	364 781	9 112	113 077	1	2
		1998	472 241	6 150 229	368 863	S	103 377	1	5
		1997	478 208	6 066 001	360 009	121	118 199	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
333	Machinery mfg—Con.								
3339	Other general-purpose machinery mfg—Con.								
33391	Pump & compressor mfg	2001	103 997	1 191 208	78 314	–	25 682	2	3
		2000	102 911	1 308 987	80 760	–	22 150	3	4
		1999	94 635	1 252 296	76 659	–	17 976	2	3
		1998	106 047	1 399 370	83 878	S	22 169	2	1
		1997	106 123	1 394 017	82 967	121	23 156	X	X
333911	Pump & pumping equipment mfg	2001	57 185	678 297	44 067	–	13 118	3	6
		2000	54 748	723 589	43 833	–	10 915	3	8
		1999	52 185	706 576	43 718	–	8 467	2	6
		1998	61 013	827 341	49 920	S	11 092	3	2
		1997	60 558	803 639	48 726	121	11 832	X	X
333912	Air & gas compressor mfg	2001	40 064	436 087	28 790	–	11 274	5	3
		2000	41 284	503 264	31 429	–	9 855	7	3
		1999	36 628	463 565	28 468	–	8 160	3	4
		1998	38 154	481 054	29 035	–	9 119	1	1
		1997	39 380	493 350	29 263	–	10 117	X	X
333913	Measuring & dispensing pump mfg	2001	6 748	76 824	5 457	–	1 291	2	2
		2000	6 878	82 134	5 498	–	1 380	2	2
		1999	5 822	82 155	4 473	–	1 349	2	7
		1998	6 881	90 975	4 923	–	1 958	2	9
		1997	6 185	97 028	4 978	–	1 207	X	X
33392	Material handling equipment mfg	2001	155 769	2 073 930	96 632	–	59 137	6	5
		2000	143 855	1 693 675	92 643	–	51 212	1	2
		1999	107 831	1 339 975	73 878	–	33 953	2	3
		1998	98 827	1 293 879	74 884	–	23 943	4	19
		1997	101 491	1 243 659	69 963	–	31 528	X	X
333921	Elevator & moving stairway mfg	2001	13 280	142 573	9 387	–	3 893	7	12
		2000	12 704	145 425	8 855	–	3 849	5	12
		1999	11 320	132 084	7 922	–	3 399	5	14
		1998	9 312	124 908	6 543	–	2 769	25	20
		1997	11 134	136 932	7 761	–	3 373	X	X
333922	Conveyor & conveying equipment mfg	2001	39 327	396 691	26 016	–	13 311	3	10
		2000	40 302	488 663	27 808	–	12 494	2	4
		1999	39 725	517 674	27 492	–	12 232	3	5
		1998	35 700	432 150	26 921	–	8 779	2	33
		1997	38 862	437 446	25 594	–	13 268	X	X
333923	Overhead traveling crane, hoist, & monorail system mfg	2001	29 232	280 928	18 500	–	10 732	3	4
		2000	27 181	289 789	16 898	–	10 283	4	5
		1999	25 039	288 338	16 456	–	8 584	3	5
		1998	21 131	283 399	17 346	–	3 786	16	92
		1997	21 116	250 511	14 399	–	6 717	X	X
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	2001	73 929	1 253 738	42 729	–	31 200	14	9
		2000	63 669	769 799	39 083	–	24 586	2	2
		1999	31 746	401 879	22 008	–	9 739	3	3
		1998	32 683	453 422	24 073	–	8 610	1	3
		1997	30 379	418 770	22 209	–	8 170	X	X
33399	All other general-purpose machinery mfg	2001	279 651	3 223 275	204 625	D	75 026	2	4
		2000	289 354	3 689 608	220 604	D	68 751	2	4
		1999	275 392	3 642 520	214 245	9 112	61 147	2	4
		1998	267 367	3 456 979	210 102	S	57 265	1	2
		1997	270 594	3 428 325	207 079	–	63 515	X	X
333991	Power-driven handtool mfg	2001	21 899	325 957	18 612	–	3 287	5	8
		2000	24 003	387 324	20 494	–	3 509	2	7
		1999	21 649	359 373	18 264	–	3 385	2	8
		1998	25 164	398 849	21 256	–	3 909	1	1
		1997	23 647	365 119	19 899	–	3 748	X	X
333992	Welding & soldering equipment mfg	2001	42 264	452 596	27 886	–	14 378	7	10
		2000	48 038	559 858	35 957	–	12 082	6	11
		1999	40 444	479 205	29 588	–	10 856	6	11
		1998	42 377	494 453	30 883	–	11 494	2	1
		1997	44 615	503 224	31 654	–	12 961	X	X
333993	Packaging machinery mfg	2001	30 268	330 786	22 704	D	7 564	8	10
		2000	30 445	358 548	23 153	D	7 292	8	12
		1999	29 233	356 604	22 643	–	6 590	4	4
		1998	27 817	332 078	21 491	–	6 326	3	10
		1997	27 967	328 763	21 035	–	6 932	X	X
333994	Industrial process furnace & oven mfg	2001	24 798	230 877	15 420	D	9 378	6	12
		2000	25 519	260 650	16 786	D	8 733	5	11
		1999	31 512	351 926	21 274	D	10 238	3	10
		1998	22 130	228 983	15 781	3 800	6 350	3	4
		1997	22 367	226 393	15 935	–	6 432	X	X
333995	Fluid power cylinder & actuator mfg	2001	41 441	505 180	30 199	–	11 243	4	6
		2000	40 945	534 153	30 871	–	10 074	4	5
		1999	38 780	559 899	31 453	–	7 327	2	4
		1998	35 523	513 118	29 506	–	6 017	2	5
		1997	39 275	508 444	29 677	–	9 598	X	X
333996	Fluid power pump & motor mfg	2001	25 986	412 839	22 161	–	3 825	5	5
		2000	31 029	525 533	27 524	–	3 506	4	4
		1999	29 320	482 585	26 186	–	3 134	4	5
		1998	29 417	485 157	26 393	S	3 024	1	1
		1997	28 578	460 444	25 206	–	3 372	X	X
333997	Scale & balance (except laboratory) mfg	2001	4 119	44 990	3 094	–	1 025	7	9
		2000	5 009	48 809	3 686	–	1 323	10	20
		1999	5 033	73 032	3 629	–	1 403	9	17
		1998	4 462	57 467	3 506	–	955	3	11
		1997	4 264	58 049	3 405	–	859	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
333	Machinery mfg—Con.								
3339	Other general-purpose machinery mfg—Con.								
33399	All other general-purpose machinery mfg—Con.								
333999	All other miscellaneous general-purpose machinery mfg	2001	88 874	920 050	64 548	–	24 326	3	7
		2000	84 367	1 014 734	62 133	–	22 234	3	7
		1999	79 422	979 895	61 208	D	18 214	4	8
		1998	80 477	946 873	61 286	S	19 191	2	5
		1997	79 881	977 889	60 268	–	19 613	X	X
334	Computer & electronic product mfg	2001	2 697 156	37 790 093	2 222 493	34 211	474 663	1	4
		2000	2 810 780	39 139 445	2 319 974	32 044	490 806	1	3
		1999	2 551 193	36 209 403	2 170 172	–32 586	381 021	1	3
		1998	2 616 486	37 502 721	2 244 720	S	371 766	1	1
		1997	2 636 066	37 807 312	2 223 687	S	412 379	X	X
3341	Computer & peripheral equipment mfg	2001	252 602	3 962 871	209 226	D	43 376	2	1
		2000	298 135	4 286 609	241 170	D	56 965	1	1
		1999	265 425	3 799 674	228 922	D	36 502	1	1
		1998	332 819	5 262 412	291 305	10 528	41 514	1	1
		1997	317 420	4 516 980	256 304	2 105	61 116	X	X
33411	Computer & peripheral equipment mfg	2001	252 602	3 962 871	209 226	D	43 376	2	1
		2000	298 135	4 286 609	241 170	D	56 965	1	1
		1999	265 425	3 799 674	228 922	D	36 502	1	1
		1998	332 819	5 262 412	291 305	10 528	41 514	1	1
		1997	317 420	4 516 980	256 304	2 105	61 116	X	X
334111	Electronic computer mfg	2001	71 705	1 097 843	57 736	D	13 970	1	1
		2000	88 714	1 278 064	78 677	D	10 038	1	1
		1999	86 696	955 370	76 945	D	9 751	1	1
		1998	105 686	1 404 078	94 642	D	11 044	1	1
		1997	108 390	1 694 184	96 724	–	11 666	X	X
334112	Computer storage device mfg	2001	69 735	1 277 095	65 234	D	4 501	3	5
		2000	62 707	1 147 430	55 466	D	7 241	3	2
		1999	61 308	1 221 651	57 067	D	4 241	1	3
		1998	94 938	1 797 187	89 436	D	5 502	1	3
		1997	81 658	993 084	57 223	D	24 435	X	X
334113	Computer terminal mfg	2001	5 903	73 875	5 441	–	462	12	6
		2000	4 376	54 712	3 767	–	609	13	4
		1999	6 020	91 983	5 366	–	654	25	3
		1998	6 869	96 528	6 415	–	454	2	3
		1997	8 679	110 089	8 055	–	624	X	X
334119	Other computer peripheral equipment mfg	2001	105 259	1 514 058	80 815	D	24 444	3	2
		2000	142 338	1 806 402	103 261	D	39 077	2	1
		1999	111 401	1 530 670	89 545	D	21 856	3	2
		1998	125 327	1 964 620	100 812	S	24 514	3	1
		1997	118 693	1 719 623	94 302	–	24 391	X	X
3342	Communications equipment mfg	2001	348 429	5 562 599	303 097	D	45 332	5	4
		2000	345 156	4 713 735	307 398	D	37 757	3	5
		1999	295 913	4 058 667	266 969	D	28 944	1	4
		1998	293 899	4 086 487	259 251	S	34 648	1	1
		1997	312 676	4 298 978	273 548	–	39 128	X	X
33421	Telephone apparatus mfg	2001	132 810	2 433 196	115 487	–	17 323	11	10
		2000	133 157	1 848 032	118 868	–	14 289	3	3
		1999	115 461	1 593 891	104 361	–	11 099	2	3
		1998	108 253	1 449 149	94 874	101	13 379	1	1
		1997	105 469	1 417 119	89 364	–	16 105	X	X
334210	Telephone apparatus mfg	2001	132 810	2 433 196	115 487	–	17 323	11	10
		2000	133 157	1 848 032	118 868	–	14 289	3	3
		1999	115 461	1 593 891	104 361	–	11 099	2	3
		1998	108 253	1 449 149	94 874	101	13 379	1	1
		1997	105 469	1 417 119	89 364	–	16 105	X	X
33422	Radio & TV broadcasting & wireless communications equipment mfg	2001	179 467	2 862 610	162 116	–	17 351	5	4
		2000	189 876	2 626 853	170 590	–	19 286	5	8
		1999	159 347	2 224 304	145 434	D	13 913	1	8
		1998	165 294	2 404 006	147 683	S	17 611	1	1
		1997	186 427	2 638 413	167 460	–	18 967	X	X
334220	Radio & TV broadcasting & wireless communications equipment mfg	2001	179 467	2 862 610	162 116	–	17 351	5	4
		2000	189 876	2 626 853	170 590	–	19 286	5	8
		1999	159 347	2 224 304	145 434	D	13 913	1	8
		1998	165 294	2 404 006	147 683	S	17 611	1	1
		1997	186 427	2 638 413	167 460	–	18 967	X	X
33429	Other communications equipment mfg	2001	36 151	266 793	25 493	D	10 658	3	3
		2000	22 122	238 851	17 939	D	4 183	4	7
		1999	21 105	240 472	17 173	D	3 932	3	4
		1998	20 352	233 332	16 694	226	3 658	2	5
		1997	20 780	243 446	16 724	–	4 056	X	X
334290	Other communications equipment mfg	2001	36 151	266 793	25 493	D	10 658	3	3
		2000	22 122	238 851	17 939	D	4 183	4	7
		1999	21 105	240 472	17 173	D	3 932	3	4
		1998	20 352	233 332	16 694	226	3 658	2	5
		1997	20 780	243 446	16 724	–	4 056	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
334	Computer & electronic product mfg—Con.								
3343	Audio & video equipment mfg	2001	30 716	518 407	24 682	–	6 034	8	7
		2000	32 213	567 188	26 348	–	5 864	7	7
		1999	28 730	510 127	24 205	–	4 525	8	10
		1998	41 819	692 505	35 709	–	6 110	15	3
		1997	33 889	527 556	27 193	–	6 696	X	X
33431	Audio & video equipment mfg	2001	30 716	518 407	24 682	–	6 034	8	7
		2000	32 213	567 188	26 348	–	5 864	7	7
		1999	28 730	510 127	24 205	–	4 525	8	10
		1998	41 819	692 505	35 709	–	6 110	15	3
		1997	33 889	527 556	27 193	–	6 696	X	X
334310	Audio & video equipment mfg	2001	30 716	518 407	24 682	–	6 034	8	7
		2000	32 213	567 188	26 348	–	5 864	7	7
		1999	28 730	510 127	24 205	–	4 525	8	10
		1998	41 819	692 505	35 709	–	6 110	15	3
		1997	33 889	527 556	27 193	–	6 696	X	X
3344	Semiconductor & other electronic component mfg	2001	1 377 315	19 228 561	1 120 358	–	256 957	1	8
		2000	1 446 989	20 864 427	1 182 478	–	264 511	2	6
		1999	1 291 844	18 769 191	1 070 243	–	221 601	1	5
		1998	1 259 401	18 198 139	1 063 843	–	195 558	1	2
		1997	1 264 321	19 131 105	1 066 116	–	198 205	X	X
33441	Semiconductor & other electronic component mfg	2001	1 377 315	19 228 561	1 120 358	–	256 957	1	8
		2000	1 446 989	20 864 427	1 182 478	–	264 511	2	6
		1999	1 291 844	18 769 191	1 070 243	–	221 601	1	5
		1998	1 259 401	18 198 139	1 063 843	–	195 558	1	2
		1997	1 264 321	19 131 105	1 066 116	–	198 205	X	X
334411	Electron tube mfg	2001	68 074	865 942	44 432	–	23 642	1	1
		2000	69 706	1 006 270	48 384	–	21 322	8	2
		1999	64 439	1 054 153	49 688	–	14 751	7	3
		1998	69 204	1 047 467	52 997	–	16 207	1	1
		1997	71 188	1 205 054	55 001	–	16 187	X	X
334412	Bare printed circuit board mfg	2001	158 833	1 784 788	132 900	–	25 933	4	8
		2000	184 332	2 302 247	153 835	–	30 497	3	7
		1999	160 718	2 068 513	137 702	–	23 016	3	7
		1998	162 654	2 137 881	140 321	–	22 334	1	3
		1997	149 567	1 888 218	127 002	–	22 565	X	X
334413	Semiconductor & related device mfg	2001	791 991	11 643 147	640 516	–	151 476	1	13
		2000	794 856	12 035 240	643 941	–	150 914	1	10
		1999	726 331	11 333 252	599 267	–	127 064	1	7
		1998	688 883	10 665 866	594 384	–	94 499	1	3
		1997	694 979	11 298 692	589 885	–	105 094	X	X
334414	Electronic capacitor mfg	2001	31 636	557 672	26 903	–	4 732	7	8
		2000	32 540	573 744	28 009	–	4 532	4	4
		1999	29 639	493 781	25 461	–	4 178	4	2
		1998	30 016	509 377	26 759	–	3 257	2	4
		1997	32 856	556 347	28 408	–	4 448	X	X
334415	Electronic resistor mfg	2001	14 068	200 421	12 019	–	2 048	4	12
		2000	13 363	207 663	11 720	–	1 642	5	14
		1999	12 867	209 994	11 527	–	1 341	3	12
		1998	14 058	225 263	12 590	–	1 468	2	7
		1997	15 620	225 906	13 848	–	1 772	X	X
334416	Electronic coil, transformer, & other inductor mfg	2001	14 481	166 135	11 206	–	3 275	3	10
		2000	18 562	210 815	15 014	–	3 549	21	6
		1999	16 173	185 040	12 196	–	3 978	5	6
		1998	13 336	148 527	10 263	–	3 073	3	6
		1997	14 470	165 988	11 065	–	3 405	X	X
334417	Electronic connector mfg	2001	59 757	553 057	45 665	–	14 092	9	22
		2000	59 289	657 847	46 854	–	12 436	7	25
		1999	48 326	597 312	41 500	–	6 826	5	27
		1998	49 847	671 439	44 349	–	5 497	2	12
		1997	52 943	674 694	44 893	–	8 050	X	X
334418	Printed circuit assembly (electronic assembly) mfg	2001	132 119	1 685 718	120 653	–	11 466	5	17
		2000	142 790	1 898 777	128 664	–	14 126	5	16
		1999	137 069	1 698 849	118 369	–	18 700	4	28
		1998	140 778	1 642 170	109 626	–	31 152	1	9
		1997	145 204	2 011 450	123 915	–	21 289	X	X
334419	Other electronic component mfg	2001	106 356	1 771 681	86 064	–	20 292	9	15
		2000	131 550	1 971 823	106 058	–	25 493	11	19
		1999	96 281	1 128 296	74 534	–	21 747	6	19
		1998	90 625	1 150 148	72 554	–	18 071	1	9
		1997	87 494	1 104 756	72 099	–	15 395	X	X
3345	Navigational, measuring, medical, & control instruments mfg	2001	585 615	7 094 060	480 082	D	105 533	1	2
		2000	579 280	7 190 001	470 749	22 205	108 531	1	2
		1999	555 378	7 473 869	480 603	22 452	74 775	1	3
		1998	561 778	7 500 509	486 744	S	75 033	1	2
		1997	578 396	7 660 395	490 732	S	87 664	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
334	Computer & electronic product mfg—Con.								
3345	Navigational, measuring, medical, & control instruments mfg—Con.								
33451	Navigational, measuring, medical, & control instruments mfg	2001	585 615	7 094 060	480 082	D	105 533	1	2
		2000	579 280	7 190 001	470 749	22 205	108 531	1	2
		1999	555 378	7 473 869	480 603	22 452	74 775	1	3
		1998	561 778	7 500 509	486 744	S	75 033	1	2
		1997	578 396	7 660 395	490 732	S	87 664	X	X
334510	Electromedical & electrotherapeutic apparatus mfg	2001	46 855	623 469	41 673	D	5 183	4	5
		2000	41 952	575 993	37 115	D	4 837	3	7
		1999	39 827	586 329	35 570	10 008	4 257	3	5
		1998	45 155	613 993	39 095	S	6 060	5	1
		1997	45 757	652 043	39 855	S	5 902	X	X
334511	Search, detection, navigation, & guidance instrument mfg	2001	260 250	3 136 002	208 744	D	51 506	1	2
		2000	251 098	3 060 203	194 588	D	56 510	1	2
		1999	239 824	3 353 080	213 248	D	26 576	2	5
		1998	241 170	3 393 551	218 962	S	22 208	1	1
		1997	260 114	3 586 462	226 121	S	33 993	X	X
334512	Automatic environmental control mfg	2001	24 550	339 149	20 379	–	4 171	5	12
		2000	26 456	382 814	22 526	–	3 930	4	12
		1999	25 654	399 398	21 805	–	3 849	6	13
		1998	26 517	419 114	23 121	–	3 397	5	6
		1997	25 139	386 987	21 307	–	3 832	X	X
334513	Industrial process control instrument mfg	2001	45 116	560 736	37 283	–	7 833	2	10
		2000	46 858	606 741	39 254	–	7 604	2	10
		1999	47 589	609 377	40 277	–	7 312	2	10
		1998	47 936	601 900	41 079	S	6 857	2	4
		1997	45 890	588 396	38 680	S	7 210	X	X
334514	Totalizing fluid meter & counting device mfg	2001	21 482	297 382	15 548	–	5 935	7	8
		2000	23 680	358 050	18 012	–	5 669	8	13
		1999	22 458	362 275	18 134	–	4 324	8	17
		1998	23 388	350 451	18 351	S	5 037	1	10
		1997	22 360	326 153	17 599	S	4 761	X	X
334515	Electricity measuring & testing instrument mfg	2001	73 481	793 535	61 822	D	11 659	3	8
		2000	78 330	869 624	66 364	D	11 965	3	7
		1999	74 116	921 767	63 791	D	10 325	2	7
		1998	76 259	922 517	63 542	S	12 717	4	12
		1997	75 915	915 019	64 669	S	11 246	X	X
334516	Analytical laboratory instrument mfg	2001	40 435	436 295	33 316	–	7 119	5	12
		2000	36 422	436 456	30 335	–	6 087	3	17
		1999	35 269	396 778	29 938	–	5 331	3	16
		1998	33 829	389 763	28 831	S	4 998	2	9
		1997	34 160	379 469	28 302	S	5 858	X	X
334517	Irradiation apparatus mfg	2001	16 347	197 033	13 599	–	2 747	3	9
		2000	15 960	190 006	13 464	–	2 497	4	10
		1999	17 649	239 617	14 975	–	2 674	3	3
		1998	18 995	263 763	15 960	S	3 036	2	3
		1997	19 583	277 057	16 164	S	3 419	X	X
334518	Watch, clock, & part mfg	2001	8 331	144 678	7 502	–	829	15	85
		2000	10 639	154 290	9 643	–	996	20	69
		1999	9 515	124 512	9 190	–	325	21	A
		1998	7 827	116 855	6 489	–	1 338	3	10
		1997	7 998	112 818	6 576	–	1 422	X	X
334519	Other measuring & controlling device mfg	2001	48 768	565 782	40 217	D	8 551	4	13
		2000	47 884	555 824	39 448	D	8 436	3	14
		1999	43 474	480 736	33 674	D	9 800	3	3
		1998	40 701	428 601	31 316	S	9 386	2	5
		1997	41 480	435 991	31 459	S	10 021	X	X
3346	Mfg & reproducing magnetic & optical media	2001	102 479	1 423 595	85 048	–	17 431	3	6
		2000	109 008	1 517 486	91 831	–	17 177	3	7
		1999	113 904	1 597 875	99 230	–	14 675	2	7
		1998	126 771	1 762 669	107 868	–	18 903	2	1
		1997	129 364	1 672 298	109 794	–	19 570	X	X
33461	Mfg & reproducing magnetic & optical media	2001	102 479	1 423 595	85 048	–	17 431	3	6
		2000	109 008	1 517 486	91 831	–	17 177	3	7
		1999	113 904	1 597 875	99 230	–	14 675	2	7
		1998	126 771	1 762 669	107 868	–	18 903	2	1
		1997	129 364	1 672 298	109 794	–	19 570	X	X
334611	Software reproducing	2001	7 604	72 507	6 129	–	1 475	15	64
		2000	6 168	74 444	4 721	–	1 447	18	62
		1999	6 834	77 553	5 165	–	1 669	14	49
		1998	15 524	190 622	12 002	–	3 522	10	4
		1997	12 890	164 549	10 649	–	2 241	X	X
334612	Prerecorded CD (except software), tape, & record reproducing	2001	62 642	935 811	54 314	–	8 328	4	5
		2000	62 169	830 225	54 068	–	8 101	4	9
		1999	55 290	751 624	48 340	–	6 950	4	7
		1998	53 704	726 163	46 276	–	7 428	1	2
		1997	51 156	629 584	40 816	–	10 340	X	X
334613	Magnetic & optical recording media mfg	2001	32 233	415 276	24 606	–	7 628	6	5
		2000	40 671	612 817	33 041	–	7 630	5	4
		1999	51 780	768 698	45 725	–	6 056	3	5
		1998	57 542	845 884	49 590	–	7 952	4	1
		1997	65 318	878 165	58 329	–	6 989	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
335	Electrical equipment, appliance, & component mfg	2001..	1 153 902	15 527 351	831 532	9 514	322 371	1	2
		2000..	1 150 483	16 142 754	855 557	12 786	294 926	1	2
		1999..	1 084 370	16 033 010	838 701	15 551	245 669	1	2
		1998..	1 114 870	16 125 340	878 013	S	236 857	1	1
		1997..	1 161 112	16 436 990	895 980	S	265 132	X	X
3351	Electric lighting equipment mfg	2001..	123 595	1 276 156	84 759	–	38 836	3	7
		2000..	120 473	1 299 090	83 459	–	37 014	3	7
		1999..	121 014	1 433 648	89 257	–	31 757	3	8
		1998..	113 551	1 338 874	83 096	–	30 455	1	2
		1997..	123 464	1 364 455	84 940	D	38 524	X	X
33511	Electric lamp bulb & part mfg	2001..	44 180	572 533	30 002	–	14 178	6	6
		2000..	47 701	566 531	32 530	–	15 171	5	4
		1999..	43 439	598 854	34 233	–	9 206	4	4
		1998..	46 491	634 570	36 249	–	10 242	1	1
		1997..	55 090	665 556	38 239	D	16 851	X	X
335110	Electric lamp bulb & part mfg	2001..	44 180	572 533	30 002	–	14 178	6	6
		2000..	47 701	566 531	32 530	–	15 171	5	4
		1999..	43 439	598 854	34 233	–	9 206	4	4
		1998..	46 491	634 570	36 249	D	10 242	1	1
		1997..	55 090	665 556	38 239	D	16 851	X	X
33512	Lighting fixture mfg	2001..	79 415	703 622	54 757	–	24 658	4	10
		2000..	72 772	732 559	50 928	–	21 844	4	11
		1999..	77 575	834 794	55 024	–	22 551	3	11
		1998..	67 060	704 304	46 848	S	20 213	1	4
		1997..	68 374	698 899	46 701	S	21 673	X	X
335121	Residential electric lighting fixture mfg	2001..	13 775	117 177	10 050	–	3 725	9	33
		2000..	13 319	120 004	9 693	–	3 626	9	32
		1999..	14 130	131 556	10 078	–	4 052	6	25
		1998..	15 610	126 865	9 987	S	5 623	3	7
		1997..	15 176	123 485	9 848	S	5 328	X	X
335122	Commercial/industrial/institutional electric lighting fixture mfg	2001..	34 830	297 483	22 639	–	12 191	7	16
		2000..	31 417	303 249	20 741	–	10 675	7	19
		1999..	31 422	332 823	21 400	–	10 022	6	15
		1998..	28 203	310 011	19 756	–	8 447	1	1
		1997..	28 837	306 926	19 561	–	9 276	X	X
335129	Other lighting equipment mfg	2001..	30 810	288 962	22 069	–	8 741	5	9
		2000..	28 037	309 306	20 494	–	7 543	4	11
		1999..	32 023	370 415	23 546	–	8 477	5	19
		1998..	23 247	267 428	17 104	–	6 143	3	10
		1997..	24 361	268 488	17 292	–	7 069	X	X
3352	Household appliance mfg	2001..	172 264	2 427 760	111 876	D	60 388	2	2
		2000..	156 995	2 544 874	106 355	D	50 640	1	1
		1999..	149 023	2 509 047	106 953	D	42 070	1	4
		1998..	159 446	2 536 064	119 126	11 927	40 320	2	2
		1997..	160 642	2 525 947	115 131	7 150	45 511	X	X
33521	Small electrical appliance mfg	2001..	38 494	570 712	29 414	–	9 081	7	11
		2000..	38 594	593 316	30 514	–	8 080	3	7
		1999..	37 725	570 861	29 414	–	8 311	4	20
		1998..	50 050	728 358	41 615	–	8 434	5	4
		1997..	48 581	659 990	39 272	–	9 309	X	X
335211	Electric housewares & household fan mfg	2001..	21 184	264 901	15 449	–	5 736	14	18
		2000..	22 308	286 387	17 146	–	5 163	5	10
		1999..	23 517	313 491	17 369	–	6 148	6	27
		1998..	33 677	432 759	27 985	–	5 692	8	6
		1997..	32 170	393 094	25 820	–	6 350	X	X
335212	Household vacuum cleaner mfg	2001..	17 310	305 810	13 965	–	3 345	1	1
		2000..	16 285	306 929	13 368	–	2 917	1	1
		1999..	14 208	257 370	12 045	–	2 163	2	1
		1998..	16 372	295 599	13 630	–	2 742	1	1
		1997..	16 411	266 896	13 452	–	2 959	X	X
33522	Major appliance mfg	2001..	133 770	1 857 048	82 462	D	51 307	1	1
		2000..	118 401	1 951 559	75 841	D	42 560	1	1
		1999..	111 298	1 938 186	77 539	D	33 759	1	1
		1998..	109 397	1 807 706	77 511	11 927	31 886	2	2
		1997..	112 061	1 865 957	75 859	7 150	36 202	X	X
335221	Household cooking appliance mfg	2001..	31 533	346 536	17 993	–	13 540	1	1
		2000..	28 411	346 617	16 730	–	11 680	1	1
		1999..	29 732	386 481	17 595	D	12 137	1	1
		1998..	28 143	353 608	17 523	D	10 620	7	7
		1997..	28 097	361 671	16 526	D	11 571	X	X
335222	Household refrigerator & home freezer mfg	2001..	37 918	692 747	28 423	–	9 495	1	1
		2000..	34 745	731 842	26 664	–	8 081	1	1
		1999..	32 567	702 691	26 282	–	6 285	1	1
		1998..	32 876	670 360	27 220	–	5 656	1	1
		1997..	36 069	741 966	28 853	–	7 216	X	X
335224	Household laundry equipment mfg	2001..	36 439	467 074	19 414	–	17 025	1	1
		2000..	30 051	482 149	15 809	–	14 242	1	1
		1999..	26 581	477 602	17 976	–	8 605	1	1
		1998..	27 039	460 449	17 812	–	9 228	1	1
		1997..	27 023	450 704	17 007	–	10 016	X	X
335228	Other major household appliance mfg	2001..	27 880	350 691	16 633	D	11 247	7	1
		2000..	25 194	390 951	16 637	D	8 557	7	1
		1999..	22 418	371 412	15 687	D	6 732	3	1
		1998..	21 338	323 289	14 956	D	6 382	1	1
		1997..	20 872	311 616	13 473	D	7 399	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
335	Electrical equipment, appliance, & component mfg—Con.								
3353	Electrical equipment mfg	2001..	252 475	3 323 513	178 729	D	73 746	4	2
		2000..	263 786	3 423 002	194 740	D	69 046	4	3
		1999..	253 866	3 523 311	193 532	D	60 334	2	2
		1998..	269 391	3 679 554	210 036	S	59 354	1	2
		1997..	273 374	3 721 010	211 033	S	62 341	X	X
33531	Electrical equipment mfg	2001..	252 475	3 323 513	178 729	D	73 746	4	2
		2000..	263 786	3 423 002	194 740	D	69 046	4	3
		1999..	253 866	3 523 311	193 532	D	60 334	2	2
		1998..	269 391	3 679 554	210 036	S	59 354	1	2
		1997..	273 374	3 721 010	211 033	S	62 341	X	X
335311	Power, distribution, & specialty transformer mfg	2001..	43 031	523 915	30 261	D	12 769	3	3
		2000..	40 819	547 120	28 835	D	11 983	4	3
		1999..	39 210	587 059	28 579	D	10 631	4	4
		1998..	42 332	599 527	31 068	S	11 264	3	8
		1997..	43 863	589 056	31 684	S	12 179	X	X
335312	Motor & generator mfg	2001..	98 787	1 299 135	67 252	D	31 535	2	3
		2000..	96 718	1 340 225	69 471	D	27 247	2	3
		1999..	99 522	1 429 268	73 603	D	25 919	1	3
		1998..	105 974	1 493 883	78 475	S	27 498	3	4
		1997..	111 958	1 601 511	82 306	S	29 652	X	X
335313	Switchgear & switchboard apparatus mfg	2001..	57 216	696 013	40 544	–	16 672	14	6
		2000..	66 789	755 715	49 944	–	16 846	16	9
		1999..	57 758	739 449	45 267	–	12 490	2	4
		1998..	59 386	755 056	48 895	–	10 491	1	1
		1997..	56 414	711 107	45 934	S	10 480	X	X
335314	Relay & industrial control mfg	2001..	53 441	804 449	40 671	–	12 770	6	5
		2000..	59 461	779 942	46 490	–	12 971	6	5
		1999..	57 376	767 535	46 083	–4	11 294	6	6
		1998..	61 700	831 087	51 599	S	10 101	2	3
		1997..	61 139	819 336	51 109	S	10 030	X	X
3359	Other electrical equipment & component mfg	2001..	605 568	8 499 922	456 168	D	149 401	1	2
		2000..	609 229	8 875 787	471 003	D	138 226	1	2
		1999..	560 468	8 567 004	448 959	D	111 509	1	2
		1998..	572 482	8 570 848	465 754	S	106 727	1	2
		1997..	603 632	8 825 578	484 876	S	118 756	X	X
33591	Battery mfg	2001..	138 813	2 203 001	106 075	–	32 738	3	6
		2000..	144 214	2 196 470	114 037	–	30 177	3	6
		1999..	131 460	2 165 921	106 315	–	25 145	3	7
		1998..	123 287	1 913 199	98 012	D	25 274	1	1
		1997..	143 004	2 134 936	115 888	D	27 116	X	X
335911	Storage battery mfg	2001..	110 420	1 788 708	84 235	–	26 186	3	7
		2000..	117 908	1 779 829	93 447	–	24 460	3	7
		1999..	108 391	1 781 415	88 060	–	20 330	3	9
		1998..	102 528	1 569 751	81 427	–	21 100	1	1
		1997..	123 249	1 811 570	100 390	–	22 859	X	X
335912	Primary battery mfg	2001..	28 392	414 293	21 840	–	6 552	10	3
		2000..	26 307	416 641	20 590	–	5 717	9	1
		1999..	23 070	384 506	18 255	–	4 815	7	4
		1998..	20 759	343 448	16 585	S	4 174	1	1
		1997..	19 755	323 366	15 498	S	4 257	X	X
33592	Communication & energy wire & cable mfg	2001..	183 010	2 699 297	146 548	D	36 462	3	6
		2000..	182 921	2 783 318	150 385	D	32 536	3	6
		1999..	171 086	2 604 264	143 154	D	27 932	3	3
		1998..	153 428	2 376 473	129 002	D	24 426	1	8
		1997..	149 270	2 319 810	125 467	D	23 803	X	X
335921	Fiber optic cable mfg	2001..	31 555	541 280	25 824	D	5 731	10	5
		2000..	27 335	505 667	23 481	D	3 854	12	8
		1999..	26 427	461 160	22 820	D	3 607	9	6
		1998..	22 457	381 996	18 505	D	3 953	1	2
		1997..	19 947	344 565	16 405	D	3 542	X	X
335929	Other communication & energy wire mfg	2001..	151 455	2 158 017	120 724	–	30 731	2	7
		2000..	155 586	2 277 651	126 904	–	28 682	3	7
		1999..	144 659	2 143 104	120 334	–	24 325	3	3
		1998..	130 970	1 994 477	110 497	–	20 473	1	9
		1997..	129 323	1 975 245	109 062	–	20 261	X	X
33593	Wiring device mfg	2001..	135 565	1 768 984	108 960	–	26 605	2	3
		2000..	128 418	1 767 162	104 432	D	23 986	2	3
		1999..	123 376	1 727 734	102 881	D	20 495	3	3
		1998..	151 421	1 897 542	129 959	S	21 462	1	2
		1997..	122 609	1 656 133	101 066	S	21 543	X	X
335931	Current-carrying wiring device mfg	2001..	63 049	811 391	53 271	–	9 778	3	7
		2000..	60 981	790 061	50 792	–	10 190	4	7
		1999..	58 961	813 289	49 910	–	9 051	3	6
		1998..	59 933	811 052	51 914	–	8 019	1	2
		1997..	58 194	740 774	49 484	S	8 710	X	X
335932	Noncurrent-carrying wiring device mfg	2001..	72 516	957 592	55 690	–	16 827	3	3
		2000..	67 436	977 101	53 640	D	13 797	3	1
		1999..	64 415	914 445	52 971	D	11 444	4	2
		1998..	91 487	1 086 491	78 044	S	13 443	1	3
		1997..	64 415	915 359	51 582	S	12 833	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
335	Electrical equipment, appliance, & component mfg—Con.								
3359	Other electrical equipment & component mfg—Con.								
33599	All other electrical equipment & component mfg	2001	148 180	1 828 641	94 584	–	53 596	2	4
		2000	153 676	2 128 838	102 149	–	51 526	2	3
		1999	134 546	2 069 085	96 610	–	37 936	2	3
		1998	144 346	2 383 634	108 781	S	35 565	1	4
		1997	188 749	2 714 699	142 455	S	46 294	X	X
335991	Carbon & graphite product mfg	2001	98 083	1 275 335	54 204	–	43 879	2	4
		2000	101 978	1 497 752	59 615	–	42 362	1	3
		1999	85 916	1 536 167	56 429	–	29 487	1	3
		1998	94 695	1 831 237	66 344	–	28 351	1	3
		1997	106 522	1 813 935	68 400	–	38 122	X	X
335999	All other miscellaneous electrical equipment & component mfg	2001	50 096	553 306	40 380	–	9 716	5	11
		2000	51 698	631 086	42 534	–	9 164	4	8
		1999	48 630	532 918	40 181	–	8 449	4	10
		1998	49 651	552 397	42 437	S	7 214	4	15
		1997	82 227	900 764	74 055	S	8 172	X	X
336	Transportation equipment mfg	2001	4 100 728	53 516 565	2 745 026	216 109	1 355 702	1	1
		2000	3 850 020	54 627 306	2 732 896	218 536	1 117 125	1	1
		1999	3 597 309	53 073 831	2 690 874	145 173	906 435	1	1
		1998	3 602 658	51 500 105	2 661 431	S	941 227	1	1
		1997	3 760 330	53 193 755	2 773 661	S	986 669	X	X
3361	Motor vehicle mfg	2001	823 243	9 479 070	420 719	D	402 524	1	1
		2000	749 122	10 132 285	429 524	D	319 599	1	1
		1999	679 768	10 206 053	453 078	D	226 690	1	1
		1998	689 691	10 090 972	445 815	S	243 875	1	1
		1997	719 109	9 946 244	448 811	S	270 298	X	X
33611	Automobile & light duty motor vehicle mfg	2001	775 834	8 955 183	394 253	D	381 581	1	1
		2000	704 055	9 512 043	400 215	D	303 840	1	1
		1999	637 511	9 548 178	423 741	D	213 770	1	1
		1998	649 624	9 518 430	416 823	S	232 802	1	1
		1997	680 340	9 446 274	422 402	S	257 938	X	X
336111	Automobile mfg	2001	333 956	4 222 007	181 084	D	152 872	1	1
		2000	317 648	4 617 486	189 750	–79 532	127 898	1	1
		1999	314 299	5 021 684	215 382	D	98 917	1	1
		1998	343 804	5 279 104	220 803	S	123 001	1	1
		1997	350 357	5 366 457	226 440	S	123 917	X	X
336112	Light truck & utility vehicle mfg	2001	441 878	4 733 176	213 169	D	228 709	1	1
		2000	386 407	4 894 557	210 465	D	175 943	1	1
		1999	323 212	4 526 494	208 359	D	114 853	1	1
		1998	305 821	4 239 326	196 020	S	109 801	1	1
		1997	329 983	4 079 817	195 962	S	134 021	X	X
33612	Heavy duty truck mfg	2001	47 409	523 887	26 466	–	20 943	1	1
		2000	45 067	620 242	29 309	–	15 758	1	1
		1999	42 257	657 875	29 337	–	12 921	1	1
		1998	40 066	572 542	28 993	S	11 074	1	1
		1997	38 769	499 970	26 409	S	12 360	X	X
336120	Heavy duty truck mfg	2001	47 409	523 887	26 466	–	20 943	1	1
		2000	45 067	620 242	29 309	–	15 758	1	1
		1999	42 257	657 875	29 337	–	12 921	1	1
		1998	40 066	572 542	28 993	S	11 074	1	1
		1997	38 769	499 970	26 409	S	12 360	X	X
3362	Motor vehicle body & trailer mfg	2001	133 122	1 346 996	86 124	–	46 999	3	3
		2000	129 229	1 439 113	85 944	–	43 285	3	3
		1999	123 642	1 445 032	83 813	–	39 828	3	4
		1998	115 830	1 339 403	77 654	S	38 176	1	4
		1997	123 427	1 390 032	84 186	S	39 241	X	X
33621	Motor vehicle body & trailer mfg	2001	133 122	1 346 996	86 124	–	46 999	3	3
		2000	129 229	1 439 113	85 944	–	43 285	3	3
		1999	123 642	1 445 032	83 813	–	39 828	3	4
		1998	115 830	1 339 403	77 654	S	38 176	1	4
		1997	123 427	1 390 032	84 186	S	39 241	X	X
336211	Motor vehicle body mfg	2001	52 759	561 606	35 599	–	17 160	5	6
		2000	47 526	540 274	32 005	–	15 521	4	6
		1999	47 548	572 624	33 189	–	14 359	4	5
		1998	46 167	503 846	30 185	S	15 982	2	8
		1997	55 543	594 784	38 472	S	17 071	X	X
336212	Truck trailer mfg	2001	34 357	381 476	23 375	–	10 981	6	5
		2000	38 714	469 708	27 329	–	11 385	6	6
		1999	33 920	440 390	24 979	–	8 941	5	6
		1998	31 600	415 040	23 214	S	8 385	2	3
		1997	29 922	382 211	21 278	S	8 644	X	X
336213	Motor home mfg	2001	12 434	127 863	7 521	–	4 913	3	3
		2000	12 257	143 471	8 029	–	4 228	2	3
		1999	13 426	151 942	8 082	–	5 344	2	2
		1998	12 850	153 539	8 582	S	4 267	1	2
		1997	13 539	153 017	8 948	S	4 591	X	X
336214	Travel trailer & camper mfg	2001	33 573	276 051	19 628	–	13 945	5	7
		2000	30 733	285 661	18 581	–	12 151	5	8
		1999	28 748	280 075	17 563	–	11 184	5	10
		1998	25 214	266 978	15 672	S	9 542	2	4
		1997	24 423	260 020	15 488	S	8 935	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
336	Transportation equipment mfg—Con.								
3363	Motor vehicle parts mfg	2001	1 885 121	26 737 870	1 317 913	D	567 209	1	1
		2000	1 823 313	27 360 474	1 351 794	D	471 519	1	2
		1999	1 756 502	26 591 172	1 342 152	D	414 350	1	2
		1998	1 725 609	25 532 501	1 321 418	S	404 191	1	1
		1997	1 858 160	26 587 328	1 409 814	S	448 346	X	X
33631	Motor vehicle gasoline engine & engine parts mfg	2001	254 186	4 169 270	188 277	–33 357	65 909	4	6
		2000	250 194	4 498 026	198 782	D	51 413	4	7
		1999	243 797	4 242 612	202 234	D	41 563	2	6
		1998	259 912	4 134 043	207 202	S	52 710	1	1
		1997	294 362	4 118 740	223 547	S	70 815	X	X
336311	Carburetor, piston, piston ring, & valve mfg	2001	49 953	736 485	35 793	D	14 160	5	2
		2000	48 359	814 428	37 670	–	10 689	5	3
		1999	46 004	809 976	37 414	–	8 590	1	1
		1998	43 543	758 210	35 287	S	8 256	1	2
		1997	43 016	692 644	33 187	S	9 829	X	X
336312	Gasoline engine & engine parts mfg	2001	204 233	3 432 785	152 484	D	51 749	5	7
		2000	201 835	3 683 598	161 112	D	40 723	5	9
		1999	197 793	3 432 635	164 820	D	32 973	3	8
		1998	216 369	3 375 833	171 914	S	44 454	1	1
		1997	251 346	3 426 096	190 360	S	60 986	X	X
33632	Motor vehicle electrical & electronic equipment mfg	2001	170 159	2 466 155	123 476	–2 477	46 683	3	4
		2000	160 422	2 520 697	126 940	–2 875	33 482	3	5
		1999	169 702	2 569 342	132 727	–2 885	36 975	3	4
		1998	156 485	2 467 713	126 733	S	29 752	1	1
		1997	167 573	2 550 277	134 336	S	33 237	X	X
336321	Vehicular lighting equipment mfg	2001	36 228	632 964	28 561	–	7 666	5	4
		2000	35 518	607 749	28 234	–	7 284	6	5
		1999	37 605	680 463	31 323	–	6 282	2	1
		1998	32 606	555 504	27 337	S	5 270	1	1
		1997	34 419	571 260	27 850	S	6 569	X	X
336322	Other motor vehicle electrical & electronic equipment mfg	2001	133 931	1 833 191	94 915	–2 477	39 017	3	5
		2000	124 904	1 912 948	98 706	–2 875	26 199	4	6
		1999	132 097	1 888 879	101 404	–2 885	30 693	3	5
		1998	123 878	1 912 209	99 396	S	24 482	1	1
		1997	133 154	1 979 017	106 486	S	26 668	X	X
33633	Motor vehicle steering & suspension component (except spring) mfg	2001	134 109	1 982 837	92 877	–	41 232	2	5
		2000	121 047	1 931 635	90 322	–	30 724	2	8
		1999	117 187	1 976 003	89 418	–	27 769	1	8
		1998	118 023	1 944 730	89 723	S	28 300	1	1
		1997	124 956	1 984 628	93 875	S	31 081	X	X
336330	Motor vehicle steering & suspension component (except spring) mfg	2001	134 109	1 982 837	92 877	–	41 232	2	5
		2000	121 047	1 931 635	90 322	–	30 724	2	8
		1999	117 187	1 976 003	89 418	–	27 769	1	8
		1998	118 023	1 944 730	89 723	S	28 300	1	1
		1997	124 956	1 984 628	93 875	S	31 081	X	X
33634	Motor vehicle brake system mfg	2001	95 847	1 427 397	70 904	D	24 944	3	6
		2000	100 075	1 548 857	73 533	D	26 542	1	3
		1999	96 475	1 552 977	75 991	D	20 483	1	3
		1998	96 127	1 545 280	76 599	S	19 528	1	1
		1997	93 780	1 474 818	73 881	S	19 899	X	X
336340	Motor vehicle brake system mfg	2001	95 847	1 427 397	70 904	D	24 944	3	6
		2000	100 075	1 548 857	73 533	D	26 542	1	3
		1999	96 475	1 552 977	75 991	D	20 483	1	3
		1998	96 127	1 545 280	76 599	S	19 528	1	1
		1997	93 780	1 474 818	73 881	S	19 899	X	X
33635	Motor vehicle transmission & power train parts mfg	2001	349 739	4 956 410	227 913	D	121 826	2	2
		2000	347 316	5 249 372	247 951	D	99 365	1	2
		1999	307 318	4 700 753	226 980	–	80 339	1	1
		1998	302 518	4 626 945	230 546	S	71 972	1	1
		1997	304 238	4 423 785	227 311	S	76 927	X	X
336350	Motor vehicle transmission & power train parts mfg	2001	349 739	4 956 410	227 913	D	121 826	2	2
		2000	347 316	5 249 372	247 951	D	99 365	1	2
		1999	307 318	4 700 753	226 980	–	80 339	1	1
		1998	302 518	4 626 945	230 546	S	71 972	1	1
		1997	304 238	4 423 785	227 311	S	76 927	X	X
33636	Motor vehicle seating & interior trim mfg	2001	78 592	1 022 774	57 453	–	21 138	4	2
		2000	80 379	1 100 415	62 764	–	17 614	4	3
		1999	83 226	1 100 328	65 015	–	18 211	6	7
		1998	61 832	865 225	47 749	S	14 083	2	1
		1997	61 072	847 569	45 873	S	15 199	X	X
336360	Motor vehicle seating & interior trim mfg	2001	78 592	1 022 774	57 453	–	21 138	4	2
		2000	80 379	1 100 415	62 764	–	17 614	4	3
		1999	83 226	1 100 328	65 015	–	18 211	6	7
		1998	61 832	865 225	47 749	S	14 083	2	1
		1997	61 072	847 569	45 873	S	15 199	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
336	Transportation equipment mfg—Con.								
3363	Motor vehicle parts mfg—Con.								
33637	Motor vehicle metal stamping	2001	290 020	3 917 549	214 088	–	75 932	3	3
		2000	280 376	3 889 301	213 913	–	66 463	3	4
		1999	284 903	3 904 654	220 416	–	64 487	2	5
		1998	292 934	3 955 973	224 066	S	68 868	1	5
		1997	340 924	4 783 503	270 969	S	69 955	X	X
336370	Motor vehicle metal stamping	2001	290 020	3 917 549	214 088	–	75 932	3	3
		2000	280 376	3 889 301	213 913	–	66 463	3	4
		1999	284 903	3 904 654	220 416	–	64 487	2	5
		1998	292 934	3 955 973	224 066	S	68 868	1	5
		1997	340 924	4 783 503	270 969	S	69 955	X	X
33639	Other motor vehicle parts mfg	2001	512 469	6 795 478	342 924	D	169 544	2	3
		2000	483 505	6 622 170	337 590	D	145 915	2	4
		1999	453 894	6 544 503	329 371	–125 300	124 523	2	3
		1998	437 778	5 992 593	318 800	S	118 978	1	1
		1997	471 255	6 404 008	340 022	S	131 233	X	X
336391	Motor vehicle air-conditioning mfg	2001	52 979	1 073 872	40 688	–	12 291	1	1
		2000	52 200	835 419	40 180	–	12 020	1	1
		1999	47 572	893 286	38 048	D	9 524	1	1
		1998	51 854	792 811	41 816	S	10 039	1	1
		1997	56 636	1 043 198	44 019	S	12 617	X	X
336399	All other motor vehicle parts mfg	2001	459 490	5 721 606	302 236	D	157 253	3	3
		2000	431 304	5 786 751	297 410	D	133 895	2	4
		1999	406 322	5 651 217	291 323	D	115 000	2	3
		1998	385 924	5 199 782	276 984	S	108 939	2	1
		1997	414 619	5 360 810	296 003	S	118 616	X	X
3364	Aerospace product & parts mfg	2001	971 874	12 399 087	718 753	171 611	253 120	1	2
		2000	870 462	12 027 100	665 380	178 728	205 081	1	1
		1999	775 790	11 337 041	623 381	191 346	152 409	1	2
		1998	812 477	11 133 430	630 905	S	181 573	1	2
		1997	789 791	11 857 087	640 230	S	149 561	X	X
33641	Aerospace product & parts mfg	2001	971 874	12 399 087	718 753	171 611	253 120	1	2
		2000	870 462	12 027 100	665 380	178 728	205 081	1	1
		1999	775 790	11 337 041	623 381	191 346	152 409	1	2
		1998	812 477	11 133 430	630 905	S	181 573	1	2
		1997	789 791	11 857 087	640 230	S	149 561	X	X
336411	Aircraft mfg	2001	220 811	3 056 030	168 388	D	52 423	1	1
		2000	243 501	3 316 942	182 990	D	60 511	1	1
		1999	232 199	3 392 095	183 240	D	48 958	1	1
		1998	254 286	3 331 812	177 197	S	77 089	1	1
		1997	218 070	3 912 508	177 475	S	40 595	X	X
336412	Aircraft engine & engine parts mfg	2001	207 158	2 454 037	147 113	241 400	60 045	2	2
		2000	195 468	2 531 792	148 424	254 711	47 044	1	1
		1999	170 376	2 413 104	138 467	D	31 909	1	1
		1998	177 752	2 325 593	143 332	S	34 420	3	1
		1997	199 212	2 454 758	156 001	S	43 211	X	X
336413	Other aircraft part & auxiliary equipment mfg	2001	402 778	5 193 893	296 307	D	106 472	1	5
		2000	312 359	4 559 315	237 244	D	75 115	1	3
		1999	261 238	3 728 108	206 762	–	54 476	1	5
		1998	256 971	3 620 559	206 844	S	50 127	1	6
		1997	239 949	3 523 776	195 080	S	44 869	X	X
336414	Guided missile & space vehicle mfg	2001	65 804	785 481	51 903	–	13 901	1	1
		2000	60 987	823 081	52 599	–	8 388	1	1
		1999	59 997	1 019 027	52 860	–	7 137	1	1
		1998	68 836	1 071 515	60 392	S	8 444	1	1
		1997	76 409	1 159 207	66 854	S	9 555	X	X
336415	Guided missile & space vehicle propulsion unit & parts mfg	2001	50 375	648 123	36 036	D	14 339	1	1
		2000	39 984	592 524	29 913	D	10 071	1	1
		1999	36 586	558 803	29 302	D	7 284	1	1
		1998	37 550	561 041	30 112	S	7 438	1	1
		1997	40 854	588 957	32 539	S	8 315	X	X
336419	Other guided missile & space vehicle parts & auxiliary equip mfg	2001	24 947	261 523	19 006	–	5 941	1	1
		2000	18 163	203 446	14 211	–	3 952	1	1
		1999	15 395	225 903	12 751	–	2 644	1	1
		1998	17 083	222 910	13 027	S	4 055	1	1
		1997	15 297	217 881	12 281	S	3 016	X	X
3365	Railroad rolling stock mfg	2001	52 894	473 592	29 973	D	22 921	2	3
		2000	52 760	531 525	31 305	D	21 454	2	2
		1999	58 616	600 253	35 143	D	23 473	2	1
		1998	57 857	594 531	34 521	S	23 336	1	1
		1997	59 042	574 038	35 414	S	23 628	X	X
33651	Railroad rolling stock mfg	2001	52 894	473 592	29 973	D	22 921	2	3
		2000	52 760	531 525	31 305	D	21 454	2	2
		1999	58 616	600 253	35 143	D	23 473	2	1
		1998	57 857	594 531	34 521	S	23 336	1	1
		1997	59 042	574 038	35 414	S	23 628	X	X
336510	Railroad rolling stock mfg	2001	52 894	473 592	29 973	D	22 921	2	3
		2000	52 760	531 525	31 305	D	21 454	2	2
		1999	58 616	600 253	35 143	D	23 473	2	1
		1998	57 857	594 531	34 521	S	23 336	1	1
		1997	59 042	574 038	35 414	S	23 628	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
336	Transportation equipment mfg—Con.								
3366	Ship & boat building	2001	163 685	2 149 084	127 395	66	36 289	4	3
		2000	161 638	2 223 215	126 907	D	34 731	3	2
		1999	141 057	2 040 895	111 529	–1 563	29 529	5	3
		1998	141 813	2 033 488	110 235	S	31 578	1	2
		1997	151 335	2 098 037	114 620	S	36 715	X	X
33661	Ship & boat building	2001	163 685	2 149 084	127 395	66	36 289	4	3
		2000	161 638	2 223 215	126 907	D	34 731	3	2
		1999	141 057	2 040 895	111 529	–1 563	29 529	5	3
		1998	141 813	2 033 488	110 235	S	31 578	1	2
		1997	151 335	2 098 037	114 620	S	36 715	X	X
336611	Ship building & repairing	2001	117 761	1 712 769	98 319	D	19 442	5	3
		2000	111 925	1 689 731	94 398	D	17 527	4	3
		1999	99 618	1 609 052	84 797	D	14 821	6	3
		1998	106 121	1 659 735	87 138	S	18 983	1	4
		1997	116 041	1 725 571	92 306	S	23 735	X	X
336612	Boat building	2001	45 924	436 315	29 076	D	16 848	3	5
		2000	49 713	533 484	32 509	D	17 204	3	4
		1999	41 440	431 843	26 732	D	14 708	2	6
		1998	35 693	373 752	23 098	D	12 595	1	2
		1997	35 294	372 466	22 314	D	12 980	X	X
3369	Other transportation equipment mfg	2001	70 789	930 867	44 149	–	26 640	3	16
		2000	63 497	913 594	42 041	–	21 456	2	17
		1999	61 934	853 384	41 777	–	20 157	2	17
		1998	59 380	775 780	40 883	S	18 497	1	6
		1997	59 466	740 989	40 586	S	18 880	X	X
33699	Other transportation equipment mfg	2001	70 789	930 867	44 149	–	26 640	3	16
		2000	63 497	913 594	42 041	–	21 456	2	17
		1999	61 934	853 384	41 777	–	20 157	2	17
		1998	59 380	775 780	40 883	S	18 497	1	6
		1997	59 466	740 989	40 586	S	18 880	X	X
336991	Motorcycle, bicycle, & parts mfg	2001	29 303	381 806	17 110	–	12 193	5	35
		2000	25 981	386 082	16 297	–	9 683	5	38
		1999	26 057	354 103	16 097	–	9 960	3	31
		1998	23 200	279 761	14 867	S	8 333	2	13
		1997	25 197	284 675	16 604	S	8 593	X	X
336992	Military armored vehicle, tank, & tank component mfg	2001	11 048	145 222	8 600	–	2 448	1	1
		2000	10 513	151 117	8 979	–	1 534	1	1
		1999	11 524	178 616	10 088	–	1 436	1	1
		1998	11 814	180 477	10 171	–	1 643	1	1
		1997	12 148	182 794	10 181	–	1 967	X	X
336999	All other transportation equipment mfg	2001	30 438	403 839	18 438	–	12 000	6	6
		2000	27 004	376 395	16 766	–	10 238	4	6
		1999	24 353	320 666	15 592	–	8 761	5	13
		1998	24 366	315 542	15 845	–	8 521	1	1
		1997	22 121	273 520	13 801	–	8 320	X	X
337	Furniture & related product mfg	2001	730 261	8 140 894	512 156	14 728	218 105	2	3
		2000	728 589	8 676 606	527 765	13 966	200 824	2	3
		1999	683 647	8 331 637	511 262	19 376	172 385	1	4
		1998	658 023	8 444 888	493 450	S	164 573	1	2
		1997	665 933	8 410 129	489 911	S	176 022	X	X
3371	Household & institutional furniture & kitchen cabinet mfg	2001	428 288	5 138 959	317 523	D	110 765	2	4
		2000	430 595	5 496 547	329 921	D	100 674	2	5
		1999	409 920	5 283 005	320 975	5 969	88 945	1	6
		1998	392 410	5 192 167	308 020	S	84 390	2	1
		1997	391 704	5 060 623	300 740	S	90 964	X	X
33711	Wood kitchen cabinet & counter top mfg	2001	123 362	1 364 737	86 151	D	37 211	4	4
		2000	115 790	1 387 025	84 021	D	31 769	4	9
		1999	101 513	1 190 870	73 917	D	27 597	3	11
		1998	98 143	1 174 921	73 793	D	24 350	1	2
		1997	93 475	1 099 410	68 619	D	24 856	X	X
337110	Wood kitchen cabinet & counter top mfg	2001	123 362	1 364 737	86 151	D	37 211	4	4
		2000	115 790	1 387 025	84 021	D	31 769	4	9
		1999	101 513	1 190 870	73 917	D	27 597	3	11
		1998	98 143	1 174 921	73 793	D	24 350	1	2
		1997	93 475	1 099 410	68 619	D	24 856	X	X
33712	Household & institutional furniture mfg	2001	304 926	3 774 222	231 372	D	73 554	3	6
		2000	314 805	4 109 522	245 900	D	68 905	2	6
		1999	308 407	4 092 135	247 059	D	61 348	1	7
		1998	294 267	4 017 246	234 227	S	60 040	2	1
		1997	298 229	3 961 213	232 121	S	66 108	X	X
337121	Upholstered household furniture mfg	2001	60 198	735 105	46 803	D	13 395	7	7
		2000	57 880	735 886	45 646	D	12 234	5	6
		1999	53 142	675 189	42 649	D	10 493	2	6
		1998	51 454	704 482	42 516	D	8 938	1	3
		1997	49 652	643 557	39 436	D	10 216	X	X
337122	Nonupholstered wood household furniture mfg	2001	150 441	2 056 929	119 988	D	30 453	5	5
		2000	166 765	2 351 502	135 608	D	31 156	3	4
		1999	162 608	2 340 953	137 608	D	25 001	2	4
		1998	158 574	2 410 193	132 491	D	26 083	3	2
		1997	160 765	2 373 667	133 025	D	27 740	X	X
337124	Metal household furniture mfg	2001	31 560	289 540	18 880	–	12 680	6	7
		2000	27 969	274 529	17 536	–	10 434	5	7
		1999	29 471	319 713	18 844	–	10 626	5	10
		1998	25 796	261 510	16 259	–	9 536	4	4
		1997	23 629	229 340	14 694	–	8 935	X	X

See footnotes at end of table.

Table 4. Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
337	Furniture & related product mfg—Con.								
3371	Household & institutional furniture & kitchen cabinet mfg—Con.								
33712	Household & institutional furniture mfg—Con.								
337125	Household furniture (except wood & metal) mfg	2001	10 528	141 372	9 012	–	1 515	13	6
		2000	11 233	169 429	9 800	–	1 432	15	6
		1999	11 252	163 687	9 722	–	1 530	11	22
		1998	7 543	103 282	6 762	D	782	5	4
		1997	10 332	162 182	9 285	D	1 047	X	X
337127	Institutional furniture mfg	2001	47 495	488 889	32 733	–	14 762	5	26
		2000	46 094	518 576	33 468	–	12 626	4	31
		1999	46 133	520 100	33 389	–	12 745	3	31
		1998	45 367	478 944	31 951	–	13 416	4	3
		1997	48 429	487 604	31 304	–	17 125	X	X
337129	Wood television, radio, & sewing machine cabinet mfg	2001	4 704	62 386	3 956	–	748	10	24
		2000	4 865	59 601	3 841	–	1 024	10	16
		1999	5 801	72 494	4 847	–	954	5	7
		1998	5 533	58 835	4 248	–	1 286	4	17
		1997	5 422	64 863	4 377	–	1 045	X	X
3372	Office furniture (including fixtures) mfg	2001	262 238	2 585 537	166 330	D	95 908	4	5
		2000	260 227	2 780 471	171 156	D	89 071	4	5
		1999	239 513	2 668 107	165 852	13 408	73 661	4	5
		1998	232 517	2 865 538	160 257	9 485	72 260	1	5
		1997	242 223	2 984 243	165 078	10 957	77 145	X	X
33721	Office furniture (including fixtures) mfg	2001	262 238	2 585 537	166 330	D	95 908	4	5
		2000	260 227	2 780 471	171 156	D	89 071	4	5
		1999	239 513	2 668 107	165 852	13 408	73 661	4	5
		1998	232 517	2 865 538	160 257	9 485	72 260	1	5
		1997	242 223	2 984 243	165 078	10 957	77 145	X	X
337211	Wood office furniture mfg	2001	49 072	520 113	33 518	–	15 555	5	10
		2000	46 215	552 350	34 311	–	11 904	5	9
		1999	39 750	499 072	31 021	–	8 729	5	9
		1998	36 692	440 582	27 742	–	8 950	1	8
		1997	41 390	494 334	31 472	–	9 918	X	X
337212	Custom architectural woodwork & millwork mfg	2001	28 834	282 688	20 000	–	8 835	12	7
		2000	29 576	302 630	19 647	–	9 929	12	12
		1999	24 887	254 153	16 788	D	8 100	12	13
		1998	22 357	492 979	15 647	D	6 709	3	6
		1997	21 617	481 196	14 853	D	6 764	X	X
337214	Office furniture (except wood) mfg	2001	72 711	808 913	47 577	D	25 134	3	4
		2000	74 531	849 673	50 539	D	23 992	3	4
		1999	69 094	848 386	49 038	D	20 057	2	5
		1998	67 349	840 218	48 617	D	18 732	1	3
		1997	73 788	912 180	52 454	D	21 334	X	X
337215	Showcase, partition, shelving, & locker mfg	2001	111 620	973 824	65 236	–	46 385	10	9
		2000	109 905	1 075 818	66 659	D	43 246	9	9
		1999	105 781	1 066 497	69 006	D	36 776	8	10
		1998	106 120	1 091 759	68 250	D	37 870	2	8
		1997	105 428	1 096 533	66 299	D	39 129	X	X
3379	Other furniture related product mfg	2001	39 735	416 399	28 303	–	11 431	4	7
		2000	37 767	399 589	26 688	–	11 079	4	8
		1999	34 214	380 525	24 435	–	9 779	3	13
		1998	33 095	387 183	25 173	–	7 922	2	2
		1997	32 006	365 263	24 093	–	7 913	X	X
33791	Mattress mfg	2001	22 692	218 810	15 127	–	7 565	4	9
		2000	21 500	214 131	14 172	–	7 328	4	11
		1999	19 064	199 089	13 172	–	5 891	5	21
		1998	17 491	194 449	13 121	–	4 370	2	2
		1997	17 205	187 737	12 562	–	4 643	X	X
337910	Mattress mfg	2001	22 692	218 810	15 127	–	7 565	4	9
		2000	21 500	214 131	14 172	–	7 328	4	11
		1999	19 064	199 089	13 172	–	5 891	5	21
		1998	17 491	194 449	13 121	–	4 370	2	2
		1997	17 205	187 737	12 562	–	4 643	X	X
33792	Blind & shade mfg	2001	17 043	197 589	13 176	–	3 867	6	9
		2000	16 267	185 457	12 516	–	3 751	6	4
		1999	15 151	181 436	11 263	–	3 888	3	9
		1998	15 604	192 734	12 052	–	3 552	2	3
		1997	14 801	177 526	11 531	–	3 270	X	X
337920	Blind & shade mfg	2001	17 043	197 589	13 176	–	3 867	6	9
		2000	16 267	185 457	12 516	–	3 751	6	4
		1999	15 151	181 436	11 263	–	3 888	3	9
		1998	15 604	192 734	12 052	–	3 552	2	3
		1997	14 801	177 526	11 531	–	3 270	X	X
339	Miscellaneous mfg	2001	948 701	10 954 016	723 723	D	224 979	3	2
		2000	899 606	10 743 737	684 338	8 939	215 267	2	2
		1999	830 916	10 259 931	647 984	7 332	182 932	1	2
		1998	836 271	10 399 136	652 384	S	183 887	1	1
		1997	822 883	10 121 006	634 534	S	188 349	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
339	Miscellaneous mfg—Con.								
3391	Medical equipment & supplies mfg	2001..	375 258	4 630 414	306 369	D	68 889	5	3
		2000..	339 165	4 192 538	275 397	D	63 768	3	3
		1999..	320 441	4 198 423	265 978	D	54 463	1	3
		1998..	316 499	4 145 754	267 477	S	49 023	1	2
		1997..	303 107	3 934 202	255 209	S	47 898	X	X
33911	Medical equipment & supplies mfg	2001..	375 258	4 630 414	306 369	D	68 889	5	3
		2000..	339 165	4 192 538	275 397	D	63 768	3	3
		1999..	320 441	4 198 423	265 978	D	54 463	1	3
		1998..	316 499	4 145 754	267 477	S	49 023	1	2
		1997..	303 107	3 934 202	255 209	S	47 898	X	X
339111	Laboratory apparatus & furniture mfg	2001..	18 252	196 558	13 045	–	5 206	6	11
		2000..	18 015	197 002	12 884	–	5 131	5	12
		1999..	17 447	188 976	12 826	–	4 621	5	12
		1998..	16 280	191 504	12 963	–	3 317	3	15
		1997..	17 494	187 974	12 673	–	4 821	X	X
339112	Surgical & medical instrument mfg	2001..	145 299	1 908 511	127 262	137	18 037	13	5
		2000..	125 579	1 626 018	108 729	D	16 850	8	7
		1999..	119 676	1 722 331	104 567	–	15 109	3	6
		1998..	124 993	1 704 142	106 447	S	18 546	3	1
		1997..	123 429	1 675 820	106 088	S	17 341	X	X
339113	Surgical appliance & supplies mfg	2001..	131 755	1 580 025	98 906	D	32 849	3	4
		2000..	121 948	1 461 179	92 121	D	29 827	2	5
		1999..	111 336	1 399 920	88 842	D	22 494	2	3
		1998..	100 843	1 296 158	83 879	S	16 964	1	1
		1997..	91 444	1 170 086	75 223	S	16 221	X	X
339114	Dental equipment & supplies mfg	2001..	18 905	210 423	15 250	–	3 655	4	23
		2000..	16 864	196 020	13 569	–	3 295	4	16
		1999..	17 361	204 265	14 530	–	2 831	3	12
		1998..	16 793	203 429	14 107	–	2 687	3	2
		1997..	16 006	192 358	13 412	S	2 594	X	X
339115	Ophthalmic goods mfg	2001..	40 821	479 291	36 072	–	4 749	3	10
		2000..	38 124	480 187	33 194	–	4 930	3	9
		1999..	37 671	488 373	32 284	–	5 387	5	9
		1998..	33 570	446 507	29 708	–	3 863	1	2
		1997..	34 882	443 720	30 541	–	4 341	X	X
339116	Dental laboratories	2001..	20 226	255 606	15 834	–	4 392	5	10
		2000..	18 635	232 132	14 899	–	3 736	4	9
		1999..	16 951	S	S	–	S	3	10
		1998..	24 020	S	S	–	S	4	23
		1997..	19 852	S	S	–	S	X	X
3399	Other miscellaneous mfg	2001..	573 444	6 323 602	417 354	D	156 090	2	3
		2000..	560 441	6 551 198	408 942	D	151 499	1	3
		1999..	510 476	6 061 508	382 006	D	128 469	1	3
		1998..	519 772	6 253 382	384 908	D	134 864	1	2
		1997..	519 776	6 186 804	379 325	D	140 451	X	X
33991	Jewelry & silverware mfg	2001..	43 270	412 774	30 630	–	12 641	5	24
		2000..	43 533	428 080	30 652	–	12 881	5	22
		1999..	40 145	391 195	28 518	–	11 627	4	24
		1998..	41 878	379 068	28 678	–	13 200	4	3
		1997..	43 453	389 158	29 307	–	14 146	X	X
339911	Jewelry (except costume) mfg	2001..	23 091	232 175	17 389	–	5 702	8	52
		2000..	22 095	221 842	17 000	–	5 095	8	55
		1999..	19 864	199 901	15 218	–	4 646	6	60
		1998..	21 016	181 392	14 583	–	6 433	6	4
		1997..	21 336	185 017	14 683	–	6 653	X	X
339912	Silverware & plated ware mfg	2001..	6 493	71 793	3 814	–	2 678	2	3
		2000..	7 490	89 654	4 177	–	3 313	3	2
		1999..	6 103	80 903	3 942	–	2 161	2	4
		1998..	6 627	85 481	4 365	–	2 262	1	2
		1997..	6 660	90 394	4 681	–	1 979	X	X
339913	Jewelers' material & lapidary work mfg	2001..	4 731	40 508	3 675	–	1 056	6	7
		2000..	4 169	38 242	3 210	–	958	5	8
		1999..	4 024	36 754	3 125	–	899	4	8
		1998..	4 719	40 423	3 587	–	1 132	12	6
		1997..	4 823	35 129	3 276	–	1 547	X	X
339914	Costume jewelry & novelty mfg	2001..	8 955	68 298	5 751	–	3 204	8	9
		2000..	9 779	78 342	6 265	–	3 514	7	6
		1999..	10 154	73 637	6 232	–	3 921	5	6
		1998..	9 516	71 773	6 143	–	3 373	8	11
		1997..	10 634	78 618	6 667	–	3 967	X	X
33992	Sporting & athletic goods mfg	2001..	100 691	1 101 871	70 794	–	29 898	4	4
		2000..	91 682	1 094 872	66 969	–	24 712	4	4
		1999..	73 251	877 311	53 220	–	20 031	2	7
		1998..	85 547	1 014 945	61 423	–	24 125	2	4
		1997..	91 366	1 024 521	62 358	–	29 008	X	X
339920	Sporting & athletic goods mfg	2001..	100 691	1 101 871	70 794	–	29 898	4	4
		2000..	91 682	1 094 872	66 969	–	24 712	4	4
		1999..	73 251	877 311	53 220	–	20 031	2	7
		1998..	85 547	1 014 945	61 423	–	24 125	2	4
		1997..	91 366	1 024 521	62 358	–	29 008	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[Data based on the 2001 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]

NAICS code	Industry group and industry		Cost of purchased fuels and electric energy ($1,000)	Electric energy: Purchased: Quantity (1,000 kWh)	Electric energy: Purchased: Cost ($1,000)	Electric energy: Generated less sold (1,000 kWh)	Cost of purchased fuels ($1,000)	Relative standard error of estimate[1] (percent) for column—	
			A	B	C	D	E	C	E
339	Miscellaneous mfg—Con.								
3399	Other miscellaneous mfg—Con.								
33993	Doll, toy, & game mfg	2001..	47 014	541 439	34 648	–	12 366	7	7
		2000..	46 666	582 706	34 304	–	12 362	5	7
		1999..	45 641	561 036	34 289	–	11 352	5	6
		1998..	45 665	543 206	35 953	–	9 712	3	2
		1997..	51 361	591 716	38 013	–	13 348	X	X
339931	Doll & stuffed toy mfg	2001..	1 993	23 980	1 525	–	468	10	50
		2000..	2 027	23 599	1 469	–	558	10	47
		1999..	2 084	23 394	1 495	–	590	10	43
		1998..	2 461	20 692	1 506	–	955	4	7
		1997..	1 968	16 699	1 245	–	723	X	X
339932	Game, toy, & children's vehicle mfg	2001..	45 021	517 459	33 123	–	11 898	7	7
		2000..	44 639	559 107	32 836	–	11 803	5	7
		1999..	43 557	537 642	32 794	–	10 762	5	6
		1998..	43 203	522 514	34 447	–	8 757	3	2
		1997..	49 393	575 017	36 768	–	12 625	X	X
33994	Office supplies (except paper) mfg	2001..	38 302	428 792	28 324	–	9 978	4	4
		2000..	38 133	449 899	28 732	–	9 401	4	4
		1999..	38 646	470 632	29 595	–	9 051	2	4
		1998..	40 622	504 128	31 673	–	8 948	2	6
		1997..	38 829	494 144	30 170	–	8 659	X	X
339941	Pen & mechanical pencil mfg	2001..	12 380	168 257	10 932	–	1 448	1	3
		2000..	11 865	176 962	10 541	–	1 323	1	2
		1999..	11 605	168 166	10 204	–	1 401	1	9
		1998..	13 468	198 171	12 116	–	1 352	6	14
		1997..	11 452	174 434	10 239	–	1 213	X	X
339942	Lead pencil & art good mfg	2001..	13 203	125 170	8 991	–	4 212	4	6
		2000..	13 455	126 457	9 130	–	4 325	3	4
		1999..	13 892	141 086	9 908	–	3 983	4	3
		1998..	13 080	143 680	9 403	–	3 678	1	1
		1997..	12 036	148 593	9 378	–	2 658	X	X
339943	Marking device mfg	2001..	5 948	59 860	4 488	–	1 460	25	12
		2000..	6 256	67 011	4 742	–	1 514	22	13
		1999..	6 594	80 413	5 050	–	1 544	9	12
		1998..	5 906	72 995	4 901	–	1 005	2	49
		1997..	6 339	72 474	4 885	–	1 454	X	X
339944	Carbon paper & inked ribbon mfg	2001..	6 770	75 505	3 913	–	2 857	8	7
		2000..	6 558	79 470	4 318	–	2 239	6	10
		1999..	6 555	80 967	4 433	–	2 122	6	10
		1998..	8 167	89 282	5 253	–	2 914	1	2
		1997..	9 002	98 643	5 668	–	3 334	X	X
33995	Sign mfg	2001..	98 422	1 033 958	70 806	–	27 616	4	4
		2000..	98 847	1 058 354	69 252	–	29 595	3	5
		1999..	91 055	981 737	64 731	–	26 324	3	4
		1998..	80 666	1 118 563	57 831	–	22 836	6	5
		1997..	81 336	1 114 197	58 534	–	22 802	X	X
339950	Sign mfg	2001..	98 422	1 033 958	70 806	–	27 616	4	4
		2000..	98 847	1 058 354	69 252	–	29 595	3	5
		1999..	91 055	981 737	64 731	–	26 324	3	4
		1998..	80 666	1 118 563	57 831	–	22 836	6	5
		1997..	81 336	1 114 197	58 534	–	22 802	X	X
33999	All other miscellaneous mfg	2001..	245 744	2 804 769	182 152	D	63 592	3	4
		2000..	241 580	2 937 288	179 032	D	62 548	2	4
		1999..	221 738	2 779 597	171 654	D	50 084	2	3
		1998..	225 394	2 693 472	169 350	D	56 044	1	3
		1997..	213 431	2 573 068	160 943	D	52 488	X	X
339991	Gasket, packing, & sealing device mfg	2001..	97 693	1 132 317	71 150	D	26 543	4	5
		2000..	95 241	1 183 721	70 188	D	25 053	3	6
		1999..	80 928	1 009 480	62 463	D	18 464	3	6
		1998..	81 834	981 854	62 875	D	18 959	2	6
		1997..	75 590	940 133	59 444	D	16 146	X	X
339992	Musical instrument mfg	2001..	18 222	176 481	12 708	–	5 514	3	4
		2000..	18 129	170 728	12 461	–	5 669	4	11
		1999..	16 134	155 176	11 471	–	4 663	4	4
		1998..	14 382	139 561	10 467	–	3 914	5	24
		1997..	12 909	128 558	9 284	–	3 625	X	X
339993	Fastener, button, needle, & pin mfg	2001..	16 846	240 056	12 945	–	3 901	7	13
		2000..	19 127	299 886	15 406	–	3 722	6	12
		1999..	17 593	292 753	14 735	–	2 859	6	12
		1998..	17 048	263 041	13 696	–	3 351	1	2
		1997..	17 932	270 483	14 211	–	3 721	X	X
339994	Broom, brush, & mop mfg	2001..	19 449	256 207	15 718	–	3 732	8	8
		2000..	20 181	275 963	15 558	–	4 622	7	5
		1999..	21 019	300 773	17 698	–	3 321	3	5
		1998..	21 516	311 926	17 908	–	3 609	4	4
		1997..	20 944	279 804	16 861	–	4 083	X	X
339995	Burial casket mfg	2001..	12 626	167 922	10 312	–	2 314	7	35
		2000..	11 109	133 615	8 099	–	3 009	7	14
		1999..	11 628	145 124	8 327	–	3 301	7	10
		1998..	12 693	154 848	8 179	–	4 514	1	1
		1997..	11 964	153 708	7 913	–	4 051	X	X
339999	All other miscellaneous mfg	2001..	80 907	831 786	59 319	–	21 588	9	8
		2000..	77 792	873 374	57 320	–	20 473	5	7
		1999..	74 435	876 291	56 959	–1 156	17 475	5	7
		1998..	77 921	842 241	56 224	–	21 696	1	1
		1997..	74 092	800 382	53 230	–	20 862	X	X

See footnotes at end of table.

Table 4. **Purchased Fuels and Electric Energy Used for Heat and Power by Industry Group and Industry: 2001 and Earlier Years**—Con.

[1]Description of relative standard error of estimate is given in Appendix B. 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 2000 Annual Survey of Manufactures (ASM) because of changes encountered in subsequent review of the 2001 ASM.

Note 2: The data in this table are based on the 2001 Annual Survey of Manufacturers (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. Data users who create their own estimates using data from American FactFinder tables should cite the U.S. Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix B.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
31-33	**Manufacturing**	**2001**	**143 651 531**	**26 152 290**	**117 499 242**	**1**
		2000	**154 478 902**	**24 080 011**	**130 398 891**	**1**
		1999	**150 325 065**	**23 215 162**	**127 109 903**	**1**
		1998	**152 708 100**	**22 547 564**	**130 160 536**	**1**
		1997	**151 510 757**	**23 424 681**	**128 086 076**	**X**
311	Food mfg	2001	11 572 558	2 105 677	9 466 882	1
		2000	12 119 320	2 069 342	10 049 978	1
		1999	12 813 154	2 550 297	10 262 857	2
		1998	11 512 338	2 107 739	9 404 599	1
		1997	10 799 165	2 141 268	8 657 897	X
3111	Animal food mfg	2001	664 417	83 937	580 480	12
		2000	621 348	85 207	536 140	6
		1999	639 999	130 587	509 412	8
		1998	600 681	105 366	495 315	8
		1997	548 373	120 346	428 027	X
31111	Animal food mfg	2001	664 417	83 937	580 480	12
		2000	621 348	85 207	536 140	6
		1999	639 999	130 587	509 412	8
		1998	600 681	105 366	495 315	8
		1997	548 373	120 346	428 027	X
311111	Dog & cat food mfg	2001	287 022	38 167	248 855	5
		2000	337 444	44 928	292 516	8
		1999	246 382	31 145	215 237	5
		1998	211 127	25 055	186 072	5
		1997	261 079	45 934	215 145	X
311119	Other animal food mfg	2001	377 395	45 769	331 626	21
		2000	283 903	40 279	243 624	7
		1999	393 617	99 442	294 174	13
		1998	389 554	80 311	309 243	13
		1997	287 294	74 412	212 882	X
3112	Grain & oilseed milling	2001	1 480 812	209 969	1 270 844	1
		2000	1 570 067	207 921	1 362 146	2
		1999	1 576 408	256 598	1 319 809	2
		1998	1 806 891	327 464	1 479 427	2
		1997	1 565 272	262 008	1 303 264	X
31121	Flour milling & malt mfg	2001	193 328	39 708	153 620	4
		2000	281 606	64 816	216 789	7
		1999	233 901	61 294	172 607	6
		1998	258 500	59 510	198 989	5
		1997	283 188	76 843	206 345	X
311211	Flour milling	2001	119 134	25 296	93 837	6
		2000	196 897	41 759	155 138	10
		1999	168 998	45 057	123 941	7
		1998	185 013	40 553	144 460	4
		1997	196 633	58 838	137 795	X
311212	Rice milling	2001	47 198	10 405	36 792	8
		2000	63 079	19 077	44 002	11
		1999	42 967	11 738	31 229	22
		1998	21 599	2 086	19 513	18
		1997	45 454	6 606	38 848	X
311213	Malt mfg	2001	26 997	4 006	22 991	1
		2000	21 629	3 980	17 649	5
		1999	21 936	4 499	17 437	1
		1998	51 888	16 871	35 017	21
		1997	41 101	11 399	29 702	X
31122	Starch & vegetable fats & oils mfg	2001	1 000 373	143 038	857 336	2
		2000	983 567	113 420	870 147	3
		1999	1 034 814	168 843	865 971	2
		1998	1 185 866	219 523	966 342	3
		1997	981 833	157 109	824 724	X
311221	Wet corn milling	2001	693 631	80 575	613 058	1
		2000	718 180	63 296	654 883	3
		1999	423 686	61 606	362 081	2
		1998	423 752	66 351	357 401	1
		1997	540 906	71 613	469 293	X
311222	Soybean processing	2001	163 603	38 461	125 141	6
		2000	142 975	22 938	120 037	1
		1999	389 287	60 637	328 651	1
		1998	299 419	39 951	259 468	3
		1997	188 422	45 212	143 210	X
311223	Other oilseed processing	2001	25 287	4 166	21 121	17
		2000	19 694	4 133	15 562	16
		1999	56 205	17 259	38 946	30
		1998	93 910	26 688	67 223	11
		1997	83 999	12 731	71 268	X
311225	Fats & oils refining & blending	2001	117 852	19 836	98 016	6
		2000	102 718	23 053	79 665	6
		1999	165 635	29 342	136 294	9
		1998	368 784	86 534	282 251	7
		1997	168 506	27 553	140 953	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
311	Food mfg—Con.					
3112	Grain & oilseed milling—Con.					
31123	Breakfast cereal mfg	2001..	287 111	27 224	259 887	2
		2000..	304 894	29 684	275 209	1
		1999..	307 693	26 461	281 232	2
		1998..	362 526	48 431	314 095	2
		1997..	300 251	28 056	272 195	X
311230	Breakfast cereal mfg	2001..	287 111	27 224	259 887	2
		2000..	304 894	29 684	275 209	1
		1999..	307 693	26 461	281 232	2
		1998..	362 526	48 431	314 095	2
		1997..	300 251	28 056	272 195	X
3113	Sugar & confectionery product mfg	2001..	632 005	88 082	543 922	3
		2000..	751 425	86 734	664 691	3
		1999..	976 111	186 452	789 658	5
		1998..	924 655	103 612	821 044	7
		1997..	831 995	146 690	685 305	X
31131	Sugar mfg	2001..	145 349	17 644	127 705	8
		2000..	218 436	15 474	202 962	3
		1999..	289 665	40 325	249 339	11
		1998..	336 906	21 908	314 998	20
		1997..	279 835	41 539	238 296	X
311311	Sugarcane mills	2001..	45 473	8 299	37 174	2
		2000..	75 559	4 710	70 848	2
		1999..	53 749	1 977	51 772	5
		1998..	61 110	6 037	55 073	27
		1997..	67 796	10 587	57 209	X
311312	Cane sugar refining	2001..	25 385	1 320	24 065	1
		2000..	35 749	1 339	34 410	1
		1999..	37 300	2 066	35 234	1
		1998..	31 329	1 315	30 014	1
		1997..	44 528	4 398	40 130	X
311313	Beet sugar mfg	2001..	74 491	8 025	66 466	15
		2000..	107 128	9 425	97 703	5
		1999..	198 616	36 282	162 334	15
		1998..	244 467	14 556	229 911	26
		1997..	167 511	26 554	140 957	X
31132	Chocolate & confectionery mfg from cacao beans	2001..	75 937	4 160	71 777	7
		2000..	60 874	7 563	53 311	3
		1999..	147 418	32 601	114 817	1
		1998..	110 510	14 439	96 071	5
		1997..	69 718	10 663	59 055	X
311320	Chocolate & confectionery mfg from cacao beans	2001..	75 937	4 160	71 777	7
		2000..	60 874	7 563	53 311	3
		1999..	147 418	32 601	114 817	1
		1998..	110 510	14 439	96 071	5
		1997..	69 718	10 663	59 055	X
31133	Confectionery mfg from purchased chocolate	2001..	218 322	26 354	191 967	8
		2000..	270 404	27 481	242 923	7
		1999..	336 862	73 994	262 867	11
		1998..	277 744	37 241	240 503	3
		1997..	272 269	56 574	215 695	X
311330	Confectionery mfg from purchased chocolate	2001..	218 322	26 354	191 967	8
		2000..	270 404	27 481	242 923	7
		1999..	336 862	73 994	262 867	11
		1998..	277 744	37 241	240 503	3
		1997..	272 269	56 574	215 695	X
31134	Nonchocolate confectionery mfg	2001..	192 397	39 924	152 473	3
		2000..	201 711	36 216	165 496	4
		1999..	202 166	39 532	162 635	10
		1998..	199 496	30 023	169 473	6
		1997..	210 173	37 914	172 259	X
311340	Nonchocolate confectionery mfg	2001..	192 397	39 924	152 473	3
		2000..	201 711	36 216	165 496	4
		1999..	202 166	39 532	162 635	10
		1998..	199 496	30 023	169 473	6
		1997..	210 173	37 914	172 259	X
3114	Fruit & vegetable preserving & specialty food mfg	2001..	1 620 737	274 398	1 346 339	4
		2000..	1 876 382	293 694	1 582 689	3
		1999..	2 072 772	472 037	1 600 735	5
		1998..	1 640 853	243 601	1 397 253	3
		1997..	1 648 372	304 434	1 343 938	X
31141	Frozen food mfg	2001..	640 845	126 571	514 274	4
		2000..	784 142	124 016	660 126	3
		1999..	941 566	245 864	695 702	8
		1998..	785 356	148 861	636 495	2
		1997..	751 288	139 118	612 170	X
311411	Frozen fruit, juice, & vegetable mfg	2001..	292 554	35 146	257 409	3
		2000..	435 572	56 569	379 003	4
		1999..	574 840	188 513	386 327	12
		1998..	462 788	104 637	358 151	4
		1997..	397 733	59 117	338 616	X
311412	Frozen specialty food mfg	2001..	348 291	91 425	256 866	6
		2000..	348 570	67 447	281 124	4
		1999..	366 726	57 351	309 375	4
		1998..	322 567	44 224	278 344	2
		1997..	353 555	80 001	273 554	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
311	Food mfg—Con.					
3114	Fruit & vegetable preserving & specialty food mfg—Con.					
31142	Fruit & vegetable canning, pickling, & drying	2001	979 892	147 827	832 065	5
		2000	1 092 241	169 678	922 563	4
		1999	1 131 206	226 173	905 033	8
		1998	855 498	94 740	760 758	6
		1997	897 084	165 316	731 768	X
311421	Fruit & vegetable canning	2001	679 210	85 620	593 590	4
		2000	776 497	131 671	644 827	5
		1999	723 020	152 165	570 855	11
		1998	475 024	50 964	424 060	4
		1997	529 704	86 238	443 466	X
311422	Specialty canning	2001	170 401	22 182	148 218	9
		2000	163 780	23 917	139 863	9
		1999	247 915	48 370	199 544	15
		1998	228 795	20 441	208 355	14
		1997	219 783	48 566	171 217	X
311423	Dried & dehydrated food mfg	2001	130 282	40 025	90 257	33
		2000	151 964	14 091	137 873	7
		1999	160 271	25 638	134 633	8
		1998	151 679	23 336	128 343	22
		1997	147 597	30 512	117 085	X
3115	Dairy product mfg	2001	1 684 321	337 515	1 346 806	2
		2000	1 463 220	246 808	1 216 411	3
		1999	1 435 315	258 371	1 176 943	3
		1998	1 492 193	289 915	1 202 279	3
		1997	1 337 286	298 378	1 038 908	X
31151	Dairy product (except frozen) mfg	2001	1 548 196	323 946	1 224 251	3
		2000	1 310 662	230 410	1 080 252	3
		1999	1 300 546	239 454	1 061 092	3
		1998	1 306 994	270 001	1 036 992	3
		1997	1 179 399	263 529	915 870	X
311511	Fluid milk mfg	2001	692 226	137 958	554 267	4
		2000	542 800	85 678	457 123	5
		1999	556 195	106 089	450 106	5
		1998	474 903	109 932	364 971	7
		1997	423 487	99 007	324 480	X
311512	Creamery butter mfg	2001	19 469	6 606	12 863	18
		2000	8 173	393	7 780	10
		1999	10 871	1 178	9 693	6
		1998	10 057	1 282	8 776	41
		1997	8 522	637	7 885	X
311513	Cheese mfg	2001	582 528	135 929	446 599	4
		2000	419 381	61 392	357 989	4
		1999	512 979	82 032	430 947	5
		1998	437 114	71 112	366 002	3
		1997	478 340	89 155	389 185	X
311514	Dry, condensed, & evaporated dairy product mfg	2001	253 974	43 452	210 522	4
		2000	340 307	82 948	257 359	7
		1999	220 501	50 155	170 346	5
		1998	384 919	87 676	297 243	7
		1997	269 050	74 730	194 320	X
31152	Ice cream & frozen dessert mfg	2001	136 124	13 569	122 555	7
		2000	152 557	16 398	136 159	7
		1999	134 768	18 917	115 851	4
		1998	185 200	19 913	165 287	15
		1997	157 887	34 849	123 038	X
311520	Ice cream & frozen dessert mfg	2001	136 124	13 569	122 555	7
		2000	152 557	16 398	136 159	7
		1999	134 768	18 917	115 851	4
		1998	185 200	19 913	165 287	15
		1997	157 887	34 849	123 038	X
3116	Meat product mfg	2001	2 145 036	548 420	1 596 616	2
		2000	2 286 724	567 244	1 719 480	3
		1999	2 107 587	470 386	1 637 201	3
		1998	1 653 656	348 163	1 305 493	2
		1997	1 799 220	416 476	1 382 744	X
31161	Animal slaughtering & processing	2001	2 145 036	548 420	1 596 616	2
		2000	2 286 724	567 244	1 719 480	3
		1999	2 107 587	470 386	1 637 201	3
		1998	1 653 656	348 163	1 305 493	2
		1997	1 799 220	416 476	1 382 744	X
311611	Animal (except poultry) slaughtering	2001	567 182	160 635	406 547	6
		2000	601 459	167 487	433 972	5
		1999	484 456	154 358	330 098	6
		1998	431 533	96 506	335 027	2
		1997	533 909	122 079	411 830	X
311612	Meat processed from carcasses	2001	772 471	185 017	587 455	3
		2000	710 169	124 816	585 353	6
		1999	656 887	167 254	489 632	7
		1998	478 442	103 468	374 974	4
		1997	526 880	145 126	381 754	X
311613	Rendering & meat byproduct processing	2001	95 569	20 940	74 629	10
		2000	125 136	23 691	101 444	12
		1999	127 852	11 993	115 859	11
		1998	103 655	24 662	78 993	12
		1997	114 353	13 328	101 025	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
311	Food mfg—Con.					
3116	Meat product mfg—Con.					
31161	Animal slaughtering & processing—Con.					
311615	Poultry processing	2001	709 814	181 829	527 985	3
		2000	849 961	251 250	598 711	4
		1999	838 393	136 780	701 613	2
		1998	640 027	123 528	516 500	1
		1997	624 078	135 943	488 135	X
3117	Seafood product preparation & packaging	2001	223 159	54 536	168 623	14
		2000	174 767	41 413	133 354	7
		1999	189 475	56 129	133 346	16
		1998	133 126	17 473	115 653	12
		1997	175 210	29 408	145 802	X
31171	Seafood product preparation & packaging	2001	223 159	54 536	168 623	14
		2000	174 767	41 413	133 354	7
		1999	189 475	56 129	133 346	16
		1998	133 126	17 473	115 653	12
		1997	175 210	29 408	145 802	X
311711	Seafood canning	2001	20 158	3 174	16 984	16
		2000	25 141	5 636	19 505	27
		1999	15 648	2 140	13 508	16
		1998	12 022	701	11 321	9
		1997	21 599	4 380	17 219	X
311712	Fresh & frozen seafood processing	2001	203 001	51 362	151 639	16
		2000	149 626	35 777	113 849	7
		1999	173 827	53 989	119 838	17
		1998	121 104	16 772	104 332	14
		1997	153 611	25 028	128 583	X
3118	Bakeries & tortilla mfg	2001	1 685 638	276 344	1 409 294	4
		2000	1 711 293	264 855	1 446 438	3
		1999	2 161 264	400 994	1 760 270	7
		1998	1 597 599	309 072	1 288 527	5
		1997	1 440 509	288 865	1 151 644	X
31181	Bread & bakery product mfg	2001	1 124 092	205 028	919 064	5
		2000	1 122 379	189 147	933 231	4
		1999	1 412 757	308 920	1 103 837	10
		1998	1 013 666	210 274	803 392	6
		1997	889 114	203 664	685 450	X
311811	Retail bakeries	2001	131 843	25 966	105 877	12
		2000	136 331	25 983	110 348	10
		1999	158 683	21 777	136 906	30
		1998	79 535	16 692	62 843	6
		1997	75 760	15 353	60 407	X
311812	Commercial bakeries	2001	791 127	116 733	674 394	7
		2000	767 843	132 253	635 590	6
		1999	1 106 487	252 321	854 166	12
		1998	830 797	178 655	652 143	7
		1997	724 834	166 209	558 625	X
311813	Frozen cakes, pies, & other pastries mfg	2001	201 122	62 329	138 793	5
		2000	218 205	30 912	187 293	5
		1999	147 588	34 822	112 765	4
		1998	103 334	14 927	88 406	9
		1997	88 520	22 102	66 418	X
31182	Cookie, cracker, & pasta mfg	2001	522 274	68 278	453 996	7
		2000	551 708	70 624	481 084	4
		1999	703 540	85 784	617 756	3
		1998	549 384	92 325	457 059	8
		1997	502 084	76 929	425 155	X
311821	Cookie & cracker mfg	2001	321 842	42 085	279 758	11
		2000	310 919	32 345	278 574	7
		1999	426 126	29 140	396 986	4
		1998	340 810	36 760	304 050	12
		1997	300 040	28 487	271 553	X
311822	Flour mixes & dough mfg from purchased flour	2001	122 637	23 505	99 132	12
		2000	189 089	34 067	155 022	6
		1999	158 870	38 999	119 871	5
		1998	176 877	53 578	123 299	2
		1997	158 993	43 862	115 131	X
311823	Dry pasta mfg	2001	77 795	2 688	75 106	4
		2000	51 700	4 212	47 488	6
		1999	118 544	17 645	100 899	1
		1998	31 697	1 987	29 710	1
		1997	43 051	4 580	38 471	X
31183	Tortilla mfg	2001	39 273	3 038	36 235	40
		2000	37 207	5 083	32 123	7
		1999	44 967	6 290	38 677	9
		1998	34 549	6 473	28 075	17
		1997	49 311	8 272	41 039	X
311830	Tortilla mfg	2001	39 273	3 038	36 235	40
		2000	37 207	5 083	32 123	7
		1999	44 967	6 290	38 677	9
		1998	34 549	6 473	28 075	17
		1997	49 311	8 272	41 039	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
311	Food mfg—Con.					
3119	Other food mfg	2001..	1 436 433	232 476	1 203 957	3
		2000..	1 664 095	275 466	1 388 628	2
		1999..	1 654 223	318 742	1 335 482	3
		1998..	1 662 682	363 073	1 299 609	6
		1997..	1 452 928	274 663	1 178 265	X
31191	Snack food mfg	2001..	536 573	65 088	471 485	6
		2000..	716 444	108 205	608 239	2
		1999..	682 315	122 260	560 054	5
		1998..	777 030	189 957	587 074	7
		1997..	488 371	75 565	412 806	X
311911	Roasted nuts & peanut butter mfg	2001..	69 344	5 388	63 956	6
		2000..	96 212	18 312	77 900	5
		1999..	63 558	9 957	53 601	6
		1998..	103 893	15 291	88 602	12
		1997..	81 964	9 994	71 970	X
311919	Other snack food mfg	2001..	467 229	59 700	407 529	7
		2000..	620 232	89 893	530 339	3
		1999..	618 757	112 303	506 454	6
		1998..	673 137	174 666	498 472	8
		1997..	406 407	65 571	340 836	X
31192	Coffee & tea mfg	2001..	146 117	17 717	128 400	7
		2000..	193 110	15 138	177 972	6
		1999..	179 062	15 008	164 053	5
		1998..	143 583	10 880	132 703	4
		1997..	166 837	11 979	154 858	X
311920	Coffee & tea mfg	2001..	146 117	17 717	128 400	7
		2000..	193 110	15 138	177 972	6
		1999..	179 062	15 008	164 053	5
		1998..	143 583	10 880	132 703	4
		1997..	166 837	11 979	154 858	X
31193	Flavoring syrup & concentrate mfg	2001..	69 677	19 265	50 412	10
		2000..	64 038	18 082	45 956	12
		1999..	92 437	21 065	71 372	10
		1998..	79 272	11 821	67 451	1
		1997..	144 097	48 101	95 996	X
311930	Flavoring syrup & concentrate mfg	2001..	69 677	19 265	50 412	10
		2000..	64 038	18 082	45 956	12
		1999..	92 437	21 065	71 372	10
		1998..	79 272	11 821	67 451	1
		1997..	144 097	48 101	95 996	X
31194	Seasoning & dressing mfg	2001..	286 371	61 705	224 666	5
		2000..	285 079	56 361	228 718	4
		1999..	284 218	79 399	204 819	5
		1998..	203 552	40 109	163 443	17
		1997..	255 077	59 958	195 119	X
311941	Mayonnaise, dressing, & other prepared sauce mfg	2001..	179 133	29 321	149 812	7
		2000..	147 365	13 726	133 639	6
		1999..	141 367	25 312	116 056	7
		1998..	84 963	20 735	64 227	8
		1997..	139 688	21 136	118 552	X
311942	Spice & extract mfg	2001..	107 238	32 385	74 854	4
		2000..	137 714	42 635	95 079	4
		1999..	142 851	54 088	88 763	7
		1998..	118 589	19 374	99 215	28
		1997..	115 389	38 822	76 567	X
31199	All other food mfg	2001..	397 695	68 701	328 994	7
		2000..	405 423	77 681	327 743	6
		1999..	416 192	81 009	335 183	6
		1998..	459 245	110 306	348 939	15
		1997..	398 546	79 060	319 486	X
311991	Perishable prepared food mfg	2001..	129 730	26 499	103 231	11
		2000..	140 502	34 672	105 829	12
		1999..	130 628	26 631	103 997	11
		1998..	171 584	33 992	137 592	38
		1997..	124 442	21 186	103 256	X
311999	All other miscellaneous food mfg	2001..	267 964	42 202	225 763	9
		2000..	264 921	43 008	221 913	6
		1999..	285 564	54 378	231 186	6
		1998..	287 661	76 314	211 347	5
		1997..	274 104	57 874	216 230	X
312	Beverage & tobacco product mfg	2001..	2 739 691	485 443	2 254 248	5
		2000..	2 841 937	508 915	2 333 022	5
		1999..	2 594 353	434 306	2 160 046	4
		1998..	2 566 367	475 239	2 091 127	6
		1997..	3 100 543	429 692	2 670 851	X
3121	Beverage mfg	2001..	2 512 258	438 906	2 073 352	5
		2000..	2 627 449	476 513	2 150 936	5
		1999..	2 284 604	370 352	1 914 251	4
		1998..	2 221 883	402 346	1 819 536	7
		1997..	2 381 973	359 550	2 022 423	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
312	Beverage & tobacco product mfg—Con.					
3121	Beverage mfg—Con.					
31211	Soft drink & ice mfg	2001..	1 172 071	177 648	994 423	9
		2000..	1 189 246	199 406	989 840	8
		1999..	1 030 009	144 046	885 963	8
		1998..	957 625	122 032	835 593	5
		1997..	913 319	127 550	785 769	X
312111	Soft drink mfg	2001..	878 406	124 336	754 070	4
		2000..	896 498	148 495	748 003	4
		1999..	802 349	100 956	701 394	4
		1998..	877 411	108 511	768 901	5
		1997..	832 284	110 674	721 610	X
312112	Bottled water mfg	2001..	267 698	52 332	215 365	38
		2000..	258 794	48 982	209 812	34
		1999..	196 972	41 361	155 611	41
		1998..	56 330	12 353	43 977	21
		1997..	47 508	12 653	34 855	X
312113	Ice mfg	2001..	25 968	979	24 988	13
		2000..	33 954	1 929	32 025	11
		1999..	30 688	1 729	28 958	16
		1998..	23 883	1 168	22 715	33
		1997..	33 527	4 223	29 304	X
31212	Breweries	2001..	900 853	148 556	752 297	7
		2000..	989 079	140 558	848 521	9
		1999..	737 403	80 986	656 418	1
		1998..	783 247	167 570	615 677	17
		1997..	1 021 428	147 320	874 108	X
312120	Breweries	2001..	900 853	148 556	752 297	7
		2000..	989 079	140 558	848 521	9
		1999..	737 403	80 986	656 418	1
		1998..	783 247	167 570	615 677	17
		1997..	1 021 428	147 320	874 108	X
31213	Wineries	2001..	352 169	93 480	258 689	6
		2000..	366 735	118 808	247 927	8
		1999..	435 511	125 591	309 920	6
		1998..	424 075	97 799	326 276	11
		1997..	371 286	67 722	303 564	X
312130	Wineries	2001..	352 169	93 480	258 689	6
		2000..	366 735	118 808	247 927	8
		1999..	435 511	125 591	309 920	6
		1998..	424 075	97 799	326 276	11
		1997..	371 286	67 722	303 564	X
31214	Distilleries	2001..	87 164	19 222	67 943	32
		2000..	82 389	17 740	64 649	30
		1999..	81 680	19 729	61 950	35
		1998..	56 936	14 946	41 990	7
		1997..	75 940	16 958	58 982	X
312140	Distilleries	2001..	87 164	19 222	67 943	32
		2000..	82 389	17 740	64 649	30
		1999..	81 680	19 729	61 950	35
		1998..	56 936	14 946	41 990	7
		1997..	75 940	16 958	58 982	X
3122	Tobacco mfg	2001..	227 433	46 538	180 896	2
		2000..	214 489	32 402	182 086	6
		1999..	309 749	63 954	245 795	1
		1998..	344 484	72 893	271 591	1
		1997..	718 570	70 142	648 428	X
31221	Tobacco stemming & redrying	2001..	20 906	1 825	19 081	1
		2000..	16 131	2 463	13 668	1
		1999..	26 087	4 056	22 031	1
		1998..	28 046	2 278	25 768	1
		1997..	26 637	6 061	20 576	X
312210	Tobacco stemming & redrying	2001..	20 906	1 825	19 081	1
		2000..	16 131	2 463	13 668	1
		1999..	26 087	4 056	22 031	1
		1998..	28 046	2 278	25 768	1
		1997..	26 637	6 061	20 576	X
31222	Tobacco product mfg	2001..	206 527	44 713	161 815	3
		2000..	198 358	29 939	168 418	6
		1999..	283 662	59 898	223 764	1
		1998..	316 438	70 615	245 823	1
		1997..	691 933	64 081	627 852	X
312221	Cigarette mfg	2001..	155 876	35 333	120 543	1
		2000..	136 419	20 345	116 074	1
		1999..	221 798	25 947	195 851	1
		1998..	276 184	56 114	220 070	1
		1997..	622 688	39 248	583 440	X
312229	Other tobacco product mfg	2001..	50 651	9 380	41 272	10
		2000..	61 939	9 594	52 344	20
		1999..	61 864	33 951	27 913	3
		1998..	40 254	14 501	25 753	1
		1997..	69 245	24 833	44 412	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
313	Textile mills	2001	1 729 831	178 732	1 551 098	2
		2000	1 914 450	208 360	1 706 090	3
		1999	2 204 411	313 268	1 891 143	3
		1998	2 370 593	279 523	2 091 070	2
		1997	2 691 704	384 572	2 307 132	X
3131	Fiber, yarn, & thread mills	2001	383 747	48 653	335 094	7
		2000	438 240	59 217	379 024	10
		1999	472 293	56 922	415 371	7
		1998	510 742	96 222	414 520	4
		1997	537 037	73 155	463 882	X
31311	Fiber, yarn, & thread mills	2001	383 747	48 653	335 094	7
		2000	438 240	59 217	379 024	10
		1999	472 293	56 922	415 371	7
		1998	510 742	96 222	414 520	4
		1997	537 037	73 155	463 882	X
313111	Yarn spinning mills	2001	278 102	36 838	241 264	8
		2000	322 788	50 781	272 007	13
		1999	343 810	47 056	296 755	10
		1998	340 701	63 732	276 969	3
		1997	432 027	56 376	375 651	X
313112	Yarn texturing, throwing, & twisting mills	2001	102 332	11 623	90 709	14
		2000	106 554	7 967	98 587	11
		1999	117 712	7 323	110 389	9
		1998	154 090	31 923	122 167	13
		1997	86 329	14 790	71 539	X
313113	Thread mills	2001	3 313	192	3 121	8
		2000	8 899	469	8 430	20
		1999	10 771	2 543	8 227	7
		1998	15 951	567	15 384	3
		1997	18 681	1 989	16 692	X
3132	Fabric mills	2001	973 583	82 577	891 007	2
		2000	1 050 860	102 368	948 492	3
		1999	1 283 911	210 325	1 073 586	4
		1998	1 339 150	117 493	1 221 657	2
		1997	1 491 377	170 953	1 320 424	X
31321	Broadwoven fabric mills	2001	437 453	39 512	397 941	3
		2000	499 630	51 342	448 288	3
		1999	753 344	143 454	609 890	4
		1998	835 809	78 029	757 780	3
		1997	894 514	105 056	789 458	X
313210	Broadwoven fabric mills	2001	437 453	39 512	397 941	3
		2000	499 630	51 342	448 288	3
		1999	753 344	143 454	609 890	4
		1998	835 809	78 029	757 780	3
		1997	894 514	105 056	789 458	X
31322	Narrow fabric mills & schiffli machine embroidery	2001	68 362	16 875	51 487	8
		2000	79 761	20 797	58 964	8
		1999	64 393	15 130	49 263	10
		1998	76 273	12 754	63 518	11
		1997	77 104	13 389	63 715	X
313221	Narrow fabric mills	2001	62 125	14 664	47 461	6
		2000	71 661	18 420	53 241	5
		1999	60 111	14 357	45 754	11
		1998	72 309	12 552	59 757	11
		1997	71 807	12 618	59 189	X
313222	Schiffli machine embroidery	2001	6 237	2 211	4 026	58
		2000	8 100	2 378	5 722	63
		1999	4 282	773	3 509	34
		1998	3 963	202	3 761	38
		1997	5 297	771	4 526	X
31323	Nonwoven fabric mills	2001	403 533	24 178	379 356	1
		2000	370 564	25 038	345 526	6
		1999	285 112	22 921	262 191	8
		1998	246 106	12 139	233 966	7
		1997	301 194	24 081	277 113	X
313230	Nonwoven fabric mills	2001	403 533	24 178	379 356	1
		2000	370 564	25 038	345 526	6
		1999	285 112	22 921	262 191	8
		1998	246 106	12 139	233 966	7
		1997	301 194	24 081	277 113	X
31324	Knit fabric mills	2001	64 235	2 012	62 223	7
		2000	100 905	5 191	95 715	9
		1999	181 062	28 820	152 242	19
		1998	180 963	14 570	166 393	3
		1997	218 565	28 427	190 138	X
313241	Weft knit fabric mills	2001	25 503	1 159	24 344	9
		2000	47 037	1 426	45 611	8
		1999	66 109	6 415	59 694	8
		1998	82 510	8 578	73 931	6
		1997	105 808	11 314	94 494	X
313249	Other knit fabric & lace mills	2001	38 731	853	37 879	10
		2000	53 869	3 765	50 104	15
		1999	114 953	22 405	92 549	30
		1998	98 454	5 992	92 461	4
		1997	112 757	17 113	95 644	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
313	Textile mills—Con.					
3133	Textile & fabric finishing & fabric coating mills	2001	372 500	47 502	324 997	5
		2000	425 349	46 775	378 574	7
		1999	448 207	46 021	402 186	5
		1998	520 701	65 808	454 893	5
		1997	663 290	140 464	522 826	X
31331	Textile & fabric finishing mills	2001	267 076	19 364	247 712	7
		2000	316 178	31 093	285 084	9
		1999	362 491	30 998	331 493	7
		1998	473 834	63 748	410 086	5
		1997	589 359	128 302	461 057	X
313311	Broadwoven fabric finishing mills	2001	173 488	8 436	165 052	9
		2000	195 800	14 419	181 381	11
		1999	200 463	10 556	189 908	9
		1998	287 037	37 783	249 255	7
		1997	311 220	45 873	265 347	X
313312	Textile & fabric finishing mills	2001	93 588	10 928	82 660	8
		2000	120 378	16 674	103 704	13
		1999	162 028	20 443	141 586	9
		1998	186 797	25 965	160 832	5
		1997	278 139	82 429	195 710	X
31332	Fabric coating mills	2001	105 424	28 139	77 285	6
		2000	109 172	15 682	93 490	12
		1999	85 716	15 023	70 693	7
		1998	46 867	2 060	44 806	31
		1997	73 931	12 162	61 769	X
313320	Fabric coating mills	2001	105 424	28 139	77 285	6
		2000	109 172	15 682	93 490	12
		1999	85 716	15 023	70 693	7
		1998	46 867	2 060	44 806	31
		1997	73 931	12 162	61 769	X
314	Textile product mills	2001	506 919	56 005	450 915	3
		2000	647 651	63 544	584 107	3
		1999	718 435	59 958	658 477	6
		1998	710 405	105 800	604 605	7
		1997	718 728	126 292	592 436	X
3141	Textile furnishings mills	2001	292 936	41 184	251 753	2
		2000	350 185	25 618	324 567	2
		1999	362 256	33 647	328 608	7
		1998	386 702	61 431	325 271	5
		1997	356 404	69 051	287 353	X
31411	Carpet & rug mills	2001	169 528	17 470	152 058	2
		2000	197 640	11 328	186 312	3
		1999	184 522	11 767	172 756	14
		1998	228 121	33 958	194 163	4
		1997	208 413	37 809	170 604	X
314110	Carpet & rug mills	2001	169 528	17 470	152 058	2
		2000	197 640	11 328	186 312	3
		1999	184 522	11 767	172 756	14
		1998	228 121	33 958	194 163	4
		1997	208 413	37 809	170 604	X
31412	Curtain & linen mills	2001	123 408	23 714	99 694	4
		2000	152 545	14 289	138 255	4
		1999	177 733	21 881	155 853	4
		1998	158 580	27 473	131 108	11
		1997	147 991	31 242	116 749	X
314121	Curtain & drapery mills	2001	37 569	12 202	25 367	6
		2000	42 515	2 913	39 603	14
		1999	39 316	8 480	30 836	5
		1998	27 050	4 049	23 001	8
		1997	32 690	7 587	25 103	X
314129	Other household textile product mills	2001	85 839	11 512	74 327	5
		2000	110 029	11 377	98 653	3
		1999	138 417	13 401	125 016	4
		1998	131 530	23 423	108 106	14
		1997	115 301	23 655	91 646	X
3149	Other textile product mills	2001	213 983	14 821	199 162	6
		2000	297 467	37 926	259 540	6
		1999	356 179	26 311	329 869	9
		1998	323 704	44 369	279 334	15
		1997	362 324	57 241	305 083	X
31491	Textile bag & canvas mills	2001	59 242	5 528	53 714	12
		2000	87 749	16 910	70 839	12
		1999	73 487	13 192	60 296	11
		1998	46 779	4 023	42 755	13
		1997	63 526	6 519	57 007	X
314911	Textile bag mills	2001	17 008	434	16 575	19
		2000	17 595	404	17 191	20
		1999	17 656	1 189	16 467	10
		1998	16 753	1 514	15 239	21
		1997	19 034	3 299	15 735	X
314912	Canvas & related product mills	2001	42 234	5 095	37 139	15
		2000	70 155	16 507	53 648	14
		1999	55 831	12 003	43 828	14
		1998	30 025	2 510	27 516	16
		1997	44 492	3 220	41 272	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
314	Textile product mills—Con.					
3149	Other textile product mills—Con.					
31499	All other textile product mills	2001..	154 741	9 292	145 448	6
		2000..	209 717	21 016	188 701	8
		1999..	282 692	13 119	269 573	11
		1998..	276 925	40 346	236 579	17
		1997..	298 798	50 722	248 076	X
314991	Rope, cordage, & twine mills	2001..	14 958	787	14 170	11
		2000..	15 738	1 406	14 332	10
		1999..	20 707	1 354	19 353	10
		1998..	16 156	1 679	14 477	18
		1997..	25 018	6 773	18 245	X
314992	Tire cord & tire fabric mills	2001..	27 570	1 411	26 159	1
		2000..	63 822	2 434	61 388	1
		1999..	70 790	3 162	67 628	1
		1998..	40 189	4 627	35 562	9
		1997..	67 251	11 194	56 057	X
314999	All other miscellaneous textile product mills	2001..	112 213	7 094	105 119	9
		2000..	130 158	17 176	112 981	12
		1999..	191 195	8 603	182 592	16
		1998..	220 579	34 039	186 540	22
		1997..	206 529	32 755	173 774	X
315	Apparel mfg	2001..	751 096	137 703	613 393	5
		2000..	961 923	157 973	803 949	3
		1999..	985 620	161 628	823 992	3
		1998..	935 402	172 187	763 215	3
		1997..	941 178	224 954	716 224	X
3151	Apparel knitting mills	2001..	160 322	14 425	145 897	7
		2000..	202 227	10 876	191 351	7
		1999..	213 565	11 594	201 970	8
		1998..	181 518	21 870	159 647	10
		1997..	238 122	34 421	203 701	X
31511	Hosiery & sock mills	2001..	120 569	11 270	109 299	9
		2000..	149 842	7 358	142 484	9
		1999..	148 858	6 512	142 347	10
		1998..	87 924	5 475	82 449	5
		1997..	129 522	20 130	109 392	X
315111	Sheer hosiery mills	2001..	54 464	6 933	47 531	16
		2000..	62 910	3 134	59 776	17
		1999..	54 547	2 470	52 078	11
		1998..	20 621	1 572	19 048	9
		1997..	37 397	4 064	33 333	X
315119	Other hosiery & sock mills	2001..	66 105	4 337	61 768	11
		2000..	86 932	4 224	82 708	9
		1999..	94 311	4 042	90 269	14
		1998..	67 304	3 903	63 401	5
		1997..	92 125	16 066	76 059	X
31519	Other apparel knitting mills	2001..	39 753	3 155	36 598	10
		2000..	52 385	3 518	48 867	8
		1999..	64 706	5 083	59 624	13
		1998..	93 594	16 395	77 198	19
		1997..	108 600	14 291	94 309	X
315191	Outerwear knitting mills	2001..	28 830	2 446	26 384	14
		2000..	44 564	2 935	41 629	10
		1999..	50 090	3 430	46 660	17
		1998..	76 666	15 043	61 622	23
		1997..	90 355	11 280	79 075	X
315192	Underwear & nightwear knitting mills	2001..	10 923	709	10 214	4
		2000..	7 822	583	7 238	5
		1999..	14 617	1 653	12 964	3
		1998..	16 928	1 352	15 576	4
		1997..	18 245	3 011	15 234	X
3152	Cut & sew apparel mfg	2001..	534 617	109 865	424 751	6
		2000..	694 675	123 647	571 028	3
		1999..	715 940	140 665	575 275	3
		1998..	674 244	141 758	532 486	2
		1997..	629 588	177 746	451 842	X
31521	Cut & sew apparel contractors	2001..	75 630	7 575	68 055	9
		2000..	86 021	9 259	76 762	7
		1999..	99 954	16 211	83 743	7
		1998..	118 281	18 002	100 279	9
		1997..	142 103	32 760	109 343	X
315211	Men's & boys' cut & sew apparel contractors	2001..	16 673	259	16 414	11
		2000..	23 209	1 116	22 093	8
		1999..	28 374	4 174	24 200	6
		1998..	51 748	7 432	44 316	17
		1997..	30 187	5 966	24 221	X
315212	Women's, girls', & infants' cut & sew apparel contractors	2001..	58 957	7 316	51 641	11
		2000..	62 811	8 142	54 669	10
		1999..	71 580	12 037	59 543	10
		1998..	66 533	10 570	55 963	10
		1997..	111 916	26 794	85 122	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
315	Apparel mfg—Con.					
3152	Cut & sew apparel mfg—Con.					
31522	Men's & boys' cut & sew apparel mfg	2001	193 332	59 765	133 567	14
		2000	189 748	36 350	153 398	5
		1999	193 494	37 251	156 243	4
		1998	193 136	32 756	160 380	3
		1997	209 392	50 642	158 750	X
315221	Men's & boys' cut & sew underwear & nightwear mfg	2001	8 819	1 214	7 605	49
		2000	8 709	872	7 837	7
		1999	11 169	2 747	8 422	7
		1998	7 677	3 043	4 633	25
		1997	7 804	1 360	6 444	X
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	2001	53 070	37 209	15 861	47
		2000	20 036	9 146	10 890	33
		1999	15 526	991	14 535	23
		1998	16 505	3 042	13 463	19
		1997	16 227	3 591	12 636	X
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	2001	58 260	10 303	47 957	11
		2000	76 184	6 796	69 387	6
		1999	79 093	14 244	64 848	5
		1998	72 501	15 338	57 164	4
		1997	62 023	10 369	51 654	X
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	2001	43 564	6 882	36 683	4
		2000	43 038	11 733	31 305	6
		1999	47 589	10 555	37 033	6
		1998	64 463	6 959	57 504	2
		1997	52 313	10 184	42 129	X
315225	Men's & boys' cut & sew work clothing mfg	2001	11 831	915	10 917	12
		2000	18 875	1 129	17 747	8
		1999	18 699	1 073	17 626	11
		1998	18 981	936	18 044	7
		1997	29 670	11 945	17 725	X
315228	Men's & boys' cut & sew other outerwear mfg	2001	17 787	3 243	14 544	18
		2000	22 905	6 674	16 232	15
		1999	21 418	7 640	13 778	14
		1998	13 010	3 438	9 572	8
		1997	41 355	13 193	28 162	X
31523	Women's & girls' cut & sew apparel mfg	2001	247 508	41 546	205 962	8
		2000	371 821	73 112	298 709	5
		1999	388 229	81 878	306 350	4
		1998	319 523	88 046	231 477	2
		1997	250 071	87 512	162 559	X
315231	Women's & girls' cut/sew lingerie & nightwear mfg	2001	13 737	2 463	11 273	9
		2000	15 806	3 170	12 635	16
		1999	24 013	7 672	16 340	16
		1998	19 714	3 577	16 137	11
		1997	21 456	5 419	16 037	X
315232	Women's & girls' cut & sew blouse & shirt mfg	2001	63 298	6 228	57 070	10
		2000	130 644	8 684	121 960	11
		1999	92 731	8 320	84 411	13
		1998	136 573	22 228	114 344	3
		1997	31 317	7 068	24 249	X
315233	Women's & girls' cut & sew dress mfg	2001	72 392	17 920	54 473	24
		2000	59 232	25 401	33 831	7
		1999	84 040	35 267	48 772	8
		1998	91 046	39 339	51 707	6
		1997	41 826	12 695	29 131	X
315234	Women's & girls' cut & sew suit, coat, skirt mfg	2001	7 454	2 012	5 442	10
		2000	10 567	2 789	7 778	11
		1999	13 043	2 599	10 444	13
		1998	29 519	15 865	13 653	7
		1997	22 238	6 889	15 349	X
315239	Women's & girls' cut & sew other outerwear mfg	2001	90 627	12 923	77 704	10
		2000	155 573	33 068	122 505	6
		1999	174 403	28 020	146 383	3
		1998	42 673	7 037	35 636	6
		1997	133 234	55 441	77 793	X
31529	Other cut & sew apparel mfg	2001	18 146	979	17 167	9
		2000	47 085	4 927	42 158	5
		1999	34 262	5 324	28 938	7
		1998	43 304	2 954	40 350	10
		1997	28 022	6 832	21 190	X
315291	Infants' cut & sew apparel mfg	2001	2 452	75	2 377	12
		2000	8 567	617	7 950	3
		1999	13 005	1 632	11 373	6
		1998	25 384	2 354	23 030	2
		1997	7 612	1 717	5 895	X
315292	Fur & leather apparel mfg	2001	3 480	50	3 430	25
		2000	5 863	–	5 863	33
		1999	1 667	102	1 565	23
		1998	1 364	221	1 143	40
		1997	3 412	309	3 103	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
315	Apparel mfg—Con.					
3152	Cut & sew apparel mfg—Con.					
31529	Other cut & sew apparel mfg—Con.					
315299	All other cut & sew apparel mfg	2001	12 214	854	11 360	11
		2000	32 655	4 310	28 345	5
		1999	19 590	3 590	16 000	12
		1998	16 556	380	16 176	24
		1997	16 998	4 806	12 192	X
3159	Apparel accessories & other apparel mfg	2001	56 158	13 413	42 745	9
		2000	65 020	23 450	41 571	9
		1999	56 116	9 369	46 746	6
		1998	79 640	8 558	71 082	15
		1997	73 468	12 787	60 681	X
31599	Apparel accessories & other apparel mfg	2001	56 158	13 413	42 745	9
		2000	65 020	23 450	41 571	9
		1999	56 116	9 369	46 746	6
		1998	79 640	8 558	71 082	15
		1997	73 468	12 787	60 681	X
315991	Hat, cap, & millinery mfg	2001	15 749	4 419	11 329	13
		2000	26 152	9 335	16 816	14
		1999	19 491	2 434	17 057	11
		1998	15 712	1 800	13 912	12
		1997	18 687	4 878	13 809	X
315992	Glove & mitten mfg	2001	3 974	253	3 720	5
		2000	3 440	913	2 527	7
		1999	5 464	231	5 233	3
		1998	7 978	236	7 742	9
		1997	7 684	1 163	6 521	X
315993	Men's & boys' neckwear mfg	2001	10 124	4 867	5 257	46
		2000	8 004	4 629	3 375	47
		1999	2 761	6	2 754	26
		1998	2 140	20	2 120	37
		1997	3 623	403	3 220	X
315999	Other apparel accessories & other apparel mfg	2001	26 311	3 873	22 438	5
		2000	27 425	8 573	18 851	6
		1999	28 400	6 697	21 702	9
		1998	53 810	6 502	47 308	22
		1997	43 474	6 343	37 131	X
316	Leather & allied product mfg	2001	96 364	9 542	86 822	8
		2000	153 191	15 778	137 413	12
		1999	154 355	16 399	137 956	10
		1998	136 132	19 712	116 420	7
		1997	167 254	24 896	142 358	X
3161	Leather & hide tanning & finishing	2001	27 587	2 465	25 122	15
		2000	44 472	3 925	40 547	14
		1999	43 084	2 174	40 910	12
		1998	49 748	6 786	42 962	17
		1997	63 089	8 269	54 820	X
31611	Leather & hide tanning & finishing	2001	27 587	2 465	25 122	15
		2000	44 472	3 925	40 547	14
		1999	43 084	2 174	40 910	12
		1998	49 748	6 786	42 962	17
		1997	63 089	8 269	54 820	X
316110	Leather & hide tanning & finishing	2001	27 587	2 465	25 122	15
		2000	44 472	3 925	40 547	14
		1999	43 084	2 174	40 910	12
		1998	49 748	6 786	42 962	17
		1997	63 089	8 269	54 820	X
3162	Footwear mfg	2001	41 482	3 558	37 924	8
		2000	38 571	3 863	34 709	6
		1999	55 607	10 154	45 453	11
		1998	46 356	8 629	37 727	8
		1997	53 912	9 142	44 770	X
31621	Footwear mfg	2001	41 482	3 558	37 924	8
		2000	38 571	3 863	34 709	6
		1999	55 607	10 154	45 453	11
		1998	46 356	8 629	37 727	8
		1997	53 912	9 142	44 770	X
316211	Rubber & plastics footwear mfg	2001	18 028	2 241	15 787	14
		2000	13 810	980	12 830	16
		1999	15 992	2 075	13 917	19
		1998	8 501	1 549	6 952	5
		1997	19 850	3 736	16 114	X
316212	House slipper mfg	2001	2 344	147	2 197	1
		2000	2 609	283	2 326	1
		1999	2 579	297	2 282	1
		1998	1 595	139	1 456	40
		1997	2 247	352	1 895	X
316213	Men's footwear (except athletic) mfg	2001	16 967	879	16 087	10
		2000	17 010	1 994	15 015	5
		1999	28 383	6 953	21 430	18
		1998	25 067	5 283	19 785	11
		1997	22 764	3 810	18 954	X
316214	Women's footwear (except athletic) mfg	2001	2 035	169	1 865	16
		2000	2 635	387	2 249	20
		1999	6 250	605	5 644	9
		1998	7 949	1 350	6 599	28
		1997	5 162	767	4 395	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
316	Leather & allied product mfg—Con.					
3162	Footwear mfg—Con.					
31621	Footwear mfg—Con.					
316219	Other footwear mfg	2001	2 109	122	1 987	6
		2000	2 508	219	2 289	9
		1999	2 404	224	2 180	8
		1998	3 244	308	2 935	24
		1997	3 889	477	3 412	X
3169	Other leather & allied product mfg	2001	27 295	3 519	23 776	19
		2000	70 147	7 991	62 156	23
		1999	55 664	4 071	51 593	24
		1998	40 029	4 297	35 732	6
		1997	50 253	7 485	42 768	X
31699	Other leather & allied product mfg	2001	27 295	3 519	23 776	19
		2000	70 147	7 991	62 156	23
		1999	55 664	4 071	51 593	24
		1998	40 029	4 297	35 732	6
		1997	50 253	7 485	42 768	X
316991	Luggage mfg	2001	6 575	931	5 643	10
		2000	39 172	2 911	36 260	37
		1999	33 614	2 387	31 227	40
		1998	16 487	2 387	14 101	2
		1997	18 943	3 163	15 780	X
316992	Women's handbag & purse mfg	2001	2 139	123	2 016	35
		2000	1 943	84	1 858	4
		1999	2 361	21	2 340	4
		1998	1 274	464	810	16
		1997	4 415	1 357	3 058	X
316993	Personal leather good (except women's handbag & purse) mfg	2001	4 733	423	4 309	5
		2000	7 132	1 332	5 801	3
		1999	5 000	907	4 093	8
		1998	5 338	960	4 378	26
		1997	6 357	390	5 967	X
316999	All other leather good mfg	2001	13 849	2 042	11 807	36
		2000	21 901	3 664	18 237	35
		1999	14 688	756	13 932	8
		1998	16 930	486	16 443	12
		1997	20 538	2 575	17 963	X
321	Wood product mfg	2001	2 712 041	420 780	2 291 261	6
		2000	3 078 510	544 876	2 533 634	3
		1999	3 109 640	526 700	2 582 939	3
		1998	2 799 207	508 413	2 290 794	3
		1997	2 869 234	544 270	2 324 964	X
3211	Sawmills & wood preservation	2001	843 983	106 643	737 341	8
		2000	1 110 445	164 370	946 075	4
		1999	1 105 689	143 060	962 629	7
		1998	1 113 268	130 346	982 921	5
		1997	1 161 016	176 003	985 013	X
32111	Sawmills & wood preservation	2001	843 983	106 643	737 341	8
		2000	1 110 445	164 370	946 075	4
		1999	1 105 689	143 060	962 629	7
		1998	1 113 268	130 346	982 921	5
		1997	1 161 016	176 003	985 013	X
321113	Sawmills	2001	783 847	92 534	691 313	8
		2000	1 028 577	145 982	882 595	4
		1999	1 030 106	125 042	905 064	7
		1998	1 041 165	115 851	925 315	5
		1997	1 079 446	153 007	926 439	X
321114	Wood preservation	2001	60 136	14 109	46 028	6
		2000	81 868	18 388	63 480	11
		1999	75 583	18 018	57 565	6
		1998	72 102	14 495	57 607	23
		1997	81 570	22 996	58 574	X
3212	Veneer, plywood, & engineered wood product mfg	2001	762 341	97 359	664 983	10
		2000	751 842	91 332	660 510	6
		1999	814 270	88 084	726 186	5
		1998	664 268	108 936	555 332	4
		1997	762 558	99 122	663 436	X
32121	Veneer, plywood, & engineered wood product mfg	2001	762 341	97 359	664 983	10
		2000	751 842	91 332	660 510	6
		1999	814 270	88 084	726 186	5
		1998	664 268	108 936	555 332	4
		1997	762 558	99 122	663 436	X
321211	Hardwood veneer & plywood mfg	2001	152 264	35 722	116 542	20
		2000	178 749	45 390	133 359	22
		1999	100 397	14 624	85 773	11
		1998	76 627	20 179	56 449	30
		1997	71 305	11 553	59 752	X
321212	Softwood veneer & plywood mfg	2001	85 543	4 054	81 489	3
		2000	111 846	8 894	102 952	3
		1999	190 274	15 446	174 828	13
		1998	129 913	19 745	110 169	5
		1997	163 510	12 566	150 944	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
321	Wood product mfg—Con.					
3212	Veneer, plywood, & engineered wood product mfg—Con.					
32121	Veneer, plywood, & engineered wood product mfg—Con.					
321213	Engineered wood member (except truss) mfg	2001	18 683	4 235	14 447	10
		2000	59 991	5 771	54 220	31
		1999	84 216	8 755	75 461	19
		1998	69 985	14 009	55 976	1
		1997	53 742	18 019	35 723	X
321214	Truss mfg	2001	124 382	24 294	100 088	10
		2000	122 812	18 738	104 074	8
		1999	127 008	29 167	97 841	9
		1998	98 109	19 687	78 422	15
		1997	84 398	17 390	67 008	X
321219	Reconstituted wood product mfg	2001	381 470	29 054	352 416	19
		2000	278 443	12 539	265 904	5
		1999	312 375	20 092	292 283	4
		1998	289 633	35 316	254 317	1
		1997	389 603	39 594	350 009	X
3219	Other wood product mfg	2001	1 105 716	216 779	888 937	13
		2000	1 216 223	289 175	927 049	4
		1999	1 189 681	295 556	894 125	6
		1998	1 021 671	269 131	752 540	5
		1997	945 660	269 145	676 515	X
32191	Millwork	2001	748 465	131 750	616 715	19
		2000	704 972	147 905	557 067	6
		1999	687 400	150 555	536 846	9
		1998	542 576	111 042	431 533	8
		1997	469 484	92 286	377 198	X
321911	Wood window & door mfg	2001	435 935	50 874	385 061	29
		2000	384 374	80 143	304 231	8
		1999	299 066	58 644	240 421	9
		1998	231 935	54 030	177 905	10
		1997	204 866	40 660	164 206	X
321912	Cut stock, resawing lumber, & planing	2001	194 737	56 230	138 507	29
		2000	159 300	22 586	136 714	12
		1999	202 185	53 169	149 016	24
		1998	201 433	35 498	165 935	18
		1997	160 314	29 273	131 041	X
321918	Other millwork (including flooring)	2001	117 793	24 647	93 147	7
		2000	161 298	45 176	116 122	12
		1999	186 150	38 741	147 408	12
		1998	109 207	21 515	87 693	12
		1997	104 304	22 353	81 951	X
32192	Wood container & pallet mfg	2001	134 141	33 131	101 010	6
		2000	138 715	25 670	113 045	5
		1999	140 501	24 836	115 665	9
		1998	135 228	21 988	113 240	9
		1997	129 873	24 178	105 695	X
321920	Wood container & pallet mfg	2001	134 141	33 131	101 010	6
		2000	138 715	25 670	113 045	5
		1999	140 501	24 836	115 665	9
		1998	135 228	21 988	113 240	9
		1997	129 873	24 178	105 695	X
32199	All other wood product mfg	2001	223 110	51 897	171 212	6
		2000	372 536	115 600	256 936	6
		1999	361 780	120 165	241 614	8
		1998	343 868	136 100	207 767	8
		1997	346 303	152 681	193 622	X
321991	Manufactured home (mobile home) mfg	2001	50 504	19 579	30 925	8
		2000	76 803	38 488	38 314	5
		1999	120 453	60 596	59 858	5
		1998	129 273	85 731	43 541	16
		1997	140 948	81 442	59 506	X
321992	Prefabricated wood building mfg	2001	58 160	16 429	41 731	16
		2000	64 615	17 720	46 894	10
		1999	60 555	11 920	48 634	11
		1998	69 325	28 144	41 181	14
		1997	55 497	16 770	38 727	X
321999	All other miscellaneous wood product mfg	2001	114 446	15 890	98 556	8
		2000	231 118	59 391	171 728	9
		1999	180 772	47 650	133 122	15
		1998	145 270	22 225	123 045	9
		1997	149 858	54 469	95 389	X
322	Paper mfg	2001	6 797 378	645 209	6 152 168	1
		2000	7 383 538	629 916	6 753 621	1
		1999	7 081 090	686 894	6 394 196	3
		1998	8 546 666	649 617	7 897 048	4
		1997	8 595 133	783 538	7 811 595	X
3221	Pulp, paper, & paperboard mills	2001	4 372 996	390 780	3 982 216	1
		2000	4 725 613	336 889	4 388 725	1
		1999	4 511 931	364 345	4 147 586	4
		1998	5 791 381	319 623	5 471 758	5
		1997	5 727 647	437 130	5 290 517	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
322	Paper mfg—Con.					
3221	Pulp, paper, & paperboard mills—Con.					
32211	Pulp mills	2001	193 088	6 797	186 291	2
		2000	236 772	6 205	230 567	2
		1999	186 620	12 259	174 361	5
		1998	415 795	8 694	407 101	7
		1997	344 652	28 293	316 359	X
322110	Pulp mills	2001	193 088	6 797	186 291	2
		2000	236 772	6 205	230 567	2
		1999	186 620	12 259	174 361	5
		1998	415 795	8 694	407 101	7
		1997	344 652	28 293	316 359	X
32212	Paper mills	2001	3 150 354	300 902	2 849 452	1
		2000	3 302 631	233 480	3 069 152	1
		1999	3 052 676	260 688	2 791 988	1
		1998	3 981 774	225 838	3 755 936	7
		1997	3 768 677	290 742	3 477 935	X
322121	Paper (except newsprint) mills	2001	2 672 982	289 188	2 383 794	1
		2000	2 883 053	228 848	2 654 206	1
		1999	2 745 654	248 640	2 497 014	1
		1998	3 357 152	208 840	3 148 312	9
		1997	3 404 261	263 728	3 140 533	X
322122	Newsprint mills	2001	477 372	11 714	465 659	2
		2000	419 578	4 632	414 946	1
		1999	307 023	12 048	294 974	1
		1998	624 622	16 998	607 624	3
		1997	364 416	27 014	337 402	X
32213	Paperboard mills	2001	1 029 554	83 081	946 472	1
		2000	1 186 211	97 204	1 089 006	1
		1999	1 272 635	91 398	1 181 237	14
		1998	1 393 812	85 091	1 308 721	2
		1997	1 614 318	118 095	1 496 223	X
322130	Paperboard mills	2001	1 029 554	83 081	946 472	1
		2000	1 186 211	97 204	1 089 006	1
		1999	1 272 635	91 398	1 181 237	14
		1998	1 393 812	85 091	1 308 721	2
		1997	1 614 318	118 095	1 496 223	X
3222	Converted paper product mfg	2001	2 424 381	254 429	2 169 952	3
		2000	2 657 924	293 028	2 364 897	3
		1999	2 569 159	322 549	2 246 610	3
		1998	2 755 285	329 995	2 425 290	7
		1997	2 867 486	346 408	2 521 078	X
32221	Paperboard container mfg	2001	1 328 391	150 942	1 177 449	4
		2000	1 386 215	158 666	1 227 549	4
		1999	1 458 481	210 662	1 247 819	4
		1998	1 550 232	196 354	1 353 878	13
		1997	1 566 678	219 490	1 347 188	X
322211	Corrugated & solid fiber box mfg	2001	899 933	118 715	781 218	5
		2000	868 656	115 782	752 874	6
		1999	817 886	144 985	672 901	6
		1998	958 718	116 993	841 725	20
		1997	966 285	125 297	840 988	X
322212	Folding paperboard box mfg	2001	296 736	21 705	275 031	8
		2000	368 912	33 497	335 415	8
		1999	433 617	27 279	406 338	5
		1998	409 257	62 290	346 967	9
		1997	443 225	63 186	380 039	X
322213	Setup paperboard box mfg	2001	18 101	89	18 012	16
		2000	16 457	430	16 027	17
		1999	15 410	1 915	13 495	18
		1998	S	S	S	X
		1997	21 332	1 958	19 374	X
322214	Fiber can, tube, drum, & similar products mfg	2001	35 948	2 362	33 586	9
		2000	46 393	4 960	41 434	14
		1999	76 094	29 622	46 472	19
		1998	65 135	5 297	59 838	19
		1997	70 009	20 526	49 483	X
322215	Nonfolding sanitary food container mfg	2001	77 672	8 070	69 602	3
		2000	85 797	3 997	81 800	3
		1999	115 474	6 861	108 613	1
		1998	111 056	11 329	99 727	4
		1997	65 827	8 523	57 304	X
32222	Paper bag & coated & treated paper mfg	2001	481 274	48 854	432 420	4
		2000	606 893	64 463	542 430	6
		1999	568 142	60 220	507 922	4
		1998	636 668	93 371	543 297	2
		1997	558 655	42 113	516 542	X
322221	Coated & laminated packaging paper & plastics film mfg	2001	31 993	6 642	25 350	8
		2000	30 893	2 422	28 472	11
		1999	29 104	4 892	24 212	9
		1998	33 955	10 531	23 424	25
		1997	46 285	4 684	41 601	X
322222	Coated & laminated paper mfg	2001	357 594	34 993	322 601	6
		2000	439 396	53 690	385 706	5
		1999	384 316	40 024	344 292	5
		1998	464 907	63 406	401 502	2
		1997	363 320	26 319	337 001	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
322	Paper mfg—Con.					
3222	Converted paper product mfg—Con.					
32222	Paper bag & coated & treated paper mfg—Con.					
322223	Plastics, foil, & coated paper bag mfg	2001	5 575	429	5 146	6
		2000	5 552	808	4 744	13
		1999	8 683	974	7 709	6
		1998	18 549	1 561	16 987	17
		1997	16 979	1 424	15 555	X
322224	Uncoated paper & multiwall bag mfg	2001	35 053	1 275	33 777	6
		2000	75 434	2 893	72 541	35
		1999	60 275	3 208	57 067	20
		1998	61 610	11 407	50 203	3
		1997	79 978	3 450	76 528	X
322225	Laminated aluminum foil mfg for flexible packaging uses	2001	41 741	4 819	36 922	5
		2000	38 175	3 500	34 675	3
		1999	46 123	5 830	40 293	1
		1998	37 743	1 589	36 154	2
		1997	36 925	3 834	33 091	X
322226	Surface-coated paperboard mfg	2001	9 319	696	8 623	13
		2000	17 443	1 151	16 292	8
		1999	39 641	5 292	34 348	7
		1998	19 905	4 877	15 027	22
		1997	15 168	2 402	12 766	X
32223	Stationery product mfg	2001	127 142	9 119	118 023	6
		2000	179 177	19 051	160 126	5
		1999	176 229	23 206	153 024	6
		1998	190 738	13 921	176 817	14
		1997	248 190	33 195	214 995	X
322231	Die-cut paper & paperboard office supplies mfg	2001	37 026	2 536	34 490	18
		2000	47 760	7 028	40 732	9
		1999	57 078	5 180	51 898	14
		1998	63 824	2 916	60 908	24
		1997	55 008	7 406	47 602	X
322232	Envelope mfg	2001	70 336	4 803	65 533	5
		2000	111 830	11 045	100 784	8
		1999	84 659	7 810	76 849	7
		1998	102 101	7 198	94 903	20
		1997	148 406	21 165	127 241	X
322233	Stationery, tablet, & related product mfg	2001	19 780	1 779	18 001	12
		2000	19 587	978	18 610	8
		1999	34 492	10 216	24 276	12
		1998	24 812	3 807	21 006	4
		1997	44 776	4 624	40 152	X
32229	Other converted paper product mfg	2001	487 574	45 515	442 060	4
		2000	485 639	50 847	434 792	7
		1999	366 307	28 461	337 846	6
		1998	377 646	26 348	351 298	4
		1997	493 963	51 610	442 353	X
322291	Sanitary paper product mfg	2001	352 487	9 578	342 909	2
		2000	336 457	16 861	319 596	7
		1999	233 477	10 979	222 499	4
		1998	289 631	17 097	272 535	4
		1997	373 969	33 999	339 970	X
322299	All other converted paper product mfg	2001	135 087	35 937	99 151	14
		2000	149 182	33 986	115 196	18
		1999	132 829	17 482	115 347	15
		1998	88 015	9 251	78 763	14
		1997	119 994	17 611	102 383	X
323	Printing & related support activities	2001	4 064 138	367 106	3 697 033	4
		2000	4 417 417	397 800	4 019 618	3
		1999	4 775 735	490 044	4 285 691	3
		1998	4 882 975	610 388	4 272 587	4
		1997	5 052 110	717 131	4 334 979	X
3231	Printing & related support activities	2001	4 064 138	367 106	3 697 033	4
		2000	4 417 417	397 800	4 019 618	3
		1999	4 775 735	490 044	4 285 691	3
		1998	4 882 975	610 388	4 272 587	4
		1997	5 052 110	717 131	4 334 979	X
32311	Printing	2001	3 830 581	351 163	3 479 418	4
		2000	4 107 323	381 926	3 725 398	3
		1999	4 399 487	455 077	3 944 410	3
		1998	4 492 942	557 828	3 935 114	4
		1997	4 703 898	689 969	4 013 929	X
323110	Commercial lithographic printing	2001	2 569 857	255 560	2 314 297	6
		2000	2 634 275	252 466	2 381 809	5
		1999	2 854 956	291 407	2 563 550	5
		1998	2 825 242	348 537	2 476 706	5
		1997	3 009 917	434 888	2 575 029	X
323111	Commercial gravure printing	2001	170 381	7 972	162 410	5
		2000	143 411	18 107	125 305	5
		1999	160 928	7 443	153 485	5
		1998	276 732	47 257	229 475	10
		1997	250 899	41 934	208 965	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
323	Printing & related support activities—Con.					
3231	Printing & related support activities—Con.					
32311	Printing—Con.					
323112	Commercial flexographic printing	2001	182 231	16 476	165 755	7
		2000	222 768	18 427	204 341	6
		1999	234 787	23 361	211 426	8
		1998	224 803	16 939	207 865	10
		1997	204 874	37 319	167 555	X
323113	Commercial screen printing	2001	183 457	27 659	155 798	9
		2000	235 754	21 945	213 809	6
		1999	224 431	31 999	192 431	7
		1998	240 526	42 597	197 928	11
		1997	266 409	54 795	211 614	X
323114	Quick printing	2001	176 068	13 704	162 364	8
		2000	220 227	17 987	202 240	9
		1999	228 641	20 510	208 131	9
		1998	165 665	14 503	151 162	15
		1997	191 322	16 090	175 232	X
323115	Digital printing	2001	25 031	1 597	23 434	11
		2000	33 796	3 936	29 860	15
		1999	38 866	3 783	35 083	11
		1998	31 132	5 322	25 810	49
		1997	27 700	3 624	24 076	X
323116	Manifold business form printing	2001	137 845	7 748	130 097	9
		2000	167 702	14 351	153 352	8
		1999	218 777	24 680	194 098	9
		1998	186 136	12 090	174 046	10
		1997	257 543	35 522	222 021	X
323117	Book printing	2001	200 606	9 497	191 109	7
		2000	248 814	14 567	234 247	8
		1999	220 026	16 407	203 619	10
		1998	306 141	33 369	272 771	10
		1997	289 820	34 650	255 170	X
323118	Blankbook, looseleaf binder, & device mfg	2001	37 594	3 301	34 293	8
		2000	51 132	8 720	42 412	5
		1999	68 866	14 775	54 091	13
		1998	127 019	23 698	103 321	46
		1997	82 328	10 893	71 435	X
323119	Other commercial printing	2001	147 510	7 649	139 862	12
		2000	149 445	11 422	138 023	11
		1999	149 208	20 712	128 496	12
		1998	109 546	13 516	96 030	12
		1997	123 086	20 254	102 832	X
32312	Support activities for printing	2001	233 558	15 943	217 615	8
		2000	310 094	15 874	294 220	8
		1999	376 248	34 967	341 281	7
		1998	390 033	52 561	337 472	15
		1997	348 212	27 162	321 050	X
323121	Tradebinding & related work	2001	80 215	4 213	76 002	19
		2000	86 840	2 759	84 081	11
		1999	97 301	2 975	94 326	14
		1998	103 865	4 028	99 837	14
		1997	88 962	6 507	82 455	X
323122	Prepress services	2001	153 343	11 730	141 613	8
		2000	223 254	13 115	210 139	10
		1999	278 947	31 992	246 956	8
		1998	286 168	48 533	237 635	20
		1997	259 250	20 655	238 595	X
324	Petroleum & coal products mfg	2001	7 346 538	2 938 858	4 407 681	3
		2000	5 224 985	660 920	4 564 064	5
		1999	4 517 871	921 544	3 596 327	1
		1998	4 814 125	784 816	4 029 308	1
		1997	4 755 162	509 806	4 245 356	X
3241	Petroleum & coal products mfg	2001	7 346 538	2 938 858	4 407 681	3
		2000	5 224 985	660 920	4 564 064	5
		1999	4 517 871	921 544	3 596 327	1
		1998	4 814 125	784 816	4 029 308	1
		1997	4 755 162	509 806	4 245 356	X
32411	Petroleum refineries	2001	6 817 156	2 830 953	3 986 203	4
		2000	4 684 712	608 198	4 076 515	5
		1999	3 943 051	882 252	3 060 800	2
		1998	4 168 878	728 070	3 440 807	1
		1997	4 244 371	422 156	3 822 215	X
324110	Petroleum refineries	2001	6 817 156	2 830 953	3 986 203	4
		2000	4 684 712	608 198	4 076 515	5
		1999	3 943 051	882 252	3 060 800	2
		1998	4 168 878	728 070	3 440 807	1
		1997	4 244 371	422 156	3 822 215	X
32412	Asphalt paving, roofing, & saturated materials mfg	2001	353 502	18 034	335 468	9
		2000	406 610	32 605	374 004	5
		1999	456 057	24 471	431 587	5
		1998	460 310	26 398	433 911	8
		1997	345 465	48 733	296 732	X
324121	Asphalt paving mixture & block mfg	2001	245 658	11 131	234 527	13
		2000	281 277	19 584	261 694	7
		1999	339 184	16 559	322 625	7
		1998	309 843	8 794	301 049	12
		1997	195 527	13 093	182 434	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
324	Petroleum & coal products mfg—Con.					
3241	Petroleum & coal products mfg—Con.					
32412	Asphalt paving, roofing, & saturated materials mfg—Con.					
324122	Asphalt shingle & coating materials mfg	2001	107 845	6 904	100 941	6
		2000	125 332	13 021	112 311	6
		1999	116 873	7 911	108 962	4
		1998	150 467	17 604	132 862	4
		1997	149 938	35 640	114 298	X
32419	Other petroleum & coal products mfg	2001	175 880	89 870	86 010	5
		2000	133 663	20 117	113 545	4
		1999	118 762	14 821	103 941	5
		1998	184 937	30 348	154 590	19
		1997	165 326	38 917	126 409	X
324191	Petroleum lubricating oil & grease mfg	2001	76 190	10 974	65 216	12
		2000	94 923	8 179	86 744	6
		1999	85 946	9 878	76 069	6
		1998	105 858	24 659	81 199	15
		1997	105 229	23 768	81 461	X
324199	All other petroleum & coal products mfg	2001	99 690	78 896	20 794	2
		2000	38 739	11 938	26 801	4
		1999	32 816	4 944	27 872	6
		1998	79 080	5 689	73 391	40
		1997	60 097	15 149	44 948	X
325	Chemical mfg	2001	18 852 089	3 682 924	15 169 165	3
		2000	20 340 044	3 502 603	16 837 440	3
		1999	21 713 312	3 753 263	17 960 049	1
		1998	21 738 626	2 696 128	19 042 498	1
		1997	21 669 251	3 287 482	18 381 769	X
3251	Basic chemical mfg	2001	5 578 801	349 310	5 229 491	4
		2000	6 499 210	430 290	6 068 920	6
		1999	6 794 515	570 717	6 223 799	2
		1998	7 490 998	433 856	7 057 143	1
		1997	7 908 365	619 740	7 288 625	X
32511	Petrochemical mfg	2001	497 895	11 649	486 246	1
		2000	466 272	36 421	429 851	1
		1999	526 205	28 091	498 115	1
		1998	628 865	13 305	615 559	2
		1997	988 915	27 541	961 374	X
325110	Petrochemical mfg	2001	497 895	11 649	486 246	1
		2000	466 272	36 421	429 851	1
		1999	526 205	28 091	498 115	1
		1998	628 865	13 305	615 559	2
		1997	988 915	27 541	961 374	X
32512	Industrial gas mfg	2001	950 966	21 988	928 979	19
		2000	302 372	11 441	290 930	6
		1999	382 349	18 028	364 322	7
		1998	696 812	16 320	680 491	1
		1997	728 910	17 321	711 589	X
325120	Industrial gas mfg	2001	950 966	21 988	928 979	19
		2000	302 372	11 441	290 930	6
		1999	382 349	18 028	364 322	7
		1998	696 812	16 320	680 491	1
		1997	728 910	17 321	711 589	X
32513	Dye & pigment mfg	2001	329 964	28 300	301 664	6
		2000	525 926	73 255	452 670	2
		1999	311 929	31 228	280 701	6
		1998	274 965	26 766	248 199	1
		1997	340 062	60 631	279 431	X
325131	Inorganic dye & pigment mfg	2001	213 472	19 289	194 184	7
		2000	407 777	61 449	346 327	2
		1999	231 101	18 920	212 181	7
		1998	192 445	19 181	173 264	1
		1997	211 915	45 131	166 784	X
325132	Synthetic organic dye & pigment mfg	2001	116 492	9 011	107 480	11
		2000	118 149	11 806	106 343	5
		1999	80 828	12 307	68 521	14
		1998	82 520	7 586	74 935	5
		1997	128 147	15 500	112 647	X
32518	Other basic inorganic chemical mfg	2001	980 173	94 468	885 705	2
		2000	1 161 278	87 807	1 073 471	8
		1999	1 492 059	191 518	1 300 541	4
		1998	1 661 406	142 839	1 518 568	4
		1997	1 211 259	130 205	1 081 054	X
325181	Alkalies & chlorine mfg	2001	121 542	8 065	113 477	1
		2000	176 739	23 653	153 086	2
		1999	204 860	5 255	199 605	1
		1998	227 443	12 864	214 579	1
		1997	284 549	11 231	273 318	X
325182	Carbon black mfg	2001	35 779	3 693	32 087	4
		2000	46 259	1 006	45 253	4
		1999	56 949	10 942	46 007	9
		1998	76 618	12 054	64 565	37
		1997	89 107	2 563	86 544	X
325188	All other basic inorganic chemical mfg	2001	822 852	82 711	740 141	3
		2000	938 280	63 149	875 132	10
		1999	1 230 250	175 321	1 054 929	4
		1998	1 357 346	117 921	1 239 425	5
		1997	837 603	116 411	721 192	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
325	Chemical mfg—Con.					
3251	Basic chemical mfg—Con.					
32519	Other basic organic chemical mfg	2001..	2 819 802	192 905	2 626 897	4
		2000..	4 043 363	221 365	3 821 997	10
		1999..	4 081 973	301 853	3 780 120	4
		1998..	4 228 951	234 626	3 994 325	1
		1997..	4 639 219	384 042	4 255 177	X
325191	Gum & wood chemical mfg	2001..	40 240	5 812	34 429	1
		2000..	54 933	5 270	49 663	1
		1999..	40 659	2 824	37 835	1
		1998..	32 546	3 085	29 461	3
		1997..	33 575	3 559	30 016	X
325192	Cyclic crude & intermediate mfg	2001..	307 362	24 196	283 167	2
		2000..	751 235	24 928	726 307	48
		1999..	399 111	16 703	382 408	8
		1998..	382 578	15 790	366 788	1
		1997..	768 610	48 786	719 824	X
325193	Ethyl alcohol mfg	2001..	68 238	5 639	62 599	18
		2000..	57 436	5 798	51 638	14
		1999..	70 099	18 042	52 057	41
		1998..	81 006	22 721	58 285	21
		1997..	36 694	13 734	22 960	X
325199	All other basic organic chemical mfg	2001..	2 403 961	157 258	2 246 703	4
		2000..	3 179 759	185 369	2 994 389	5
		1999..	3 572 104	264 283	3 307 820	4
		1998..	3 732 820	193 029	3 539 791	1
		1997..	3 800 340	317 963	3 482 377	X
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	2001..	2 425 825	210 153	2 215 672	1
		2000..	3 115 967	257 217	2 858 750	2
		1999..	4 574 706	255 371	4 319 335	2
		1998..	4 394 591	249 181	4 145 410	3
		1997..	3 953 660	366 130	3 587 530	X
32521	Resin & synthetic rubber mfg	2001..	1 964 306	176 799	1 787 507	2
		2000..	2 587 893	212 294	2 375 600	2
		1999..	4 037 145	204 881	3 832 263	2
		1998..	3 779 924	198 518	3 581 406	4
		1997..	3 312 417	320 464	2 991 953	X
325211	Plastics material & resin mfg	2001..	1 755 390	152 667	1 602 723	2
		2000..	2 244 111	183 335	2 060 775	2
		1999..	3 741 855	178 828	3 563 027	2
		1998..	3 430 616	184 508	3 246 108	4
		1997..	2 923 891	292 431	2 631 460	X
325212	Synthetic rubber mfg	2001..	208 916	24 133	184 784	7
		2000..	343 783	28 958	314 824	5
		1999..	295 290	26 053	269 237	3
		1998..	349 308	14 011	335 297	1
		1997..	388 526	28 033	360 493	X
32522	Artificial & synthetic fibers & filaments mfg	2001..	461 519	33 354	428 165	1
		2000..	528 074	44 924	483 150	1
		1999..	537 561	50 489	487 072	2
		1998..	614 667	50 663	564 004	2
		1997..	641 243	45 666	595 577	X
325221	Cellulosic organic fiber mfg	2001..	16 262	198	16 064	1
		2000..	18 160	87	18 073	1
		1999..	26 964	1 212	25 752	1
		1998..	76 763	4 696	72 067	1
		1997..	46 741	2 640	44 101	X
325222	Noncellulosic organic fiber mfg	2001..	445 257	33 156	412 101	1
		2000..	509 914	44 837	465 077	1
		1999..	510 597	49 277	461 320	2
		1998..	537 904	45 967	491 937	2
		1997..	594 502	43 026	551 476	X
3253	Pesticide, fertilizer, & other agricultural chemical mfg	2001..	819 844	114 584	705 260	8
		2000..	804 360	91 603	712 757	6
		1999..	1 007 399	86 218	921 181	6
		1998..	1 191 098	58 964	1 132 133	13
		1997..	1 308 297	110 614	1 197 683	X
32531	Fertilizer mfg	2001..	502 384	85 404	416 981	4
		2000..	479 313	71 499	407 815	4
		1999..	704 687	71 581	633 105	6
		1998..	795 727	40 620	755 107	20
		1997..	871 077	71 102	799 975	X
325311	Nitrogenous fertilizer mfg	2001..	111 742	4 851	106 891	11
		2000..	106 034	4 183	101 851	8
		1999..	140 122	3 067	137 055	9
		1998..	402 193	4 240	397 953	14
		1997..	589 737	11 134	578 603	X
325312	Phosphatic fertilizer mfg	2001..	231 448	41 400	190 048	5
		2000..	246 031	36 134	209 896	3
		1999..	443 626	47 076	396 550	9
		1998..	338 219	17 422	320 797	44
		1997..	210 209	43 388	166 821	X
325314	Fertilizer (mixing only) mfg	2001..	159 194	39 152	120 042	8
		2000..	127 249	31 181	96 068	10
		1999..	120 939	21 438	99 500	9
		1998..	55 314	18 957	36 357	11
		1997..	71 131	16 580	54 551	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
325	Chemical mfg—Con.					
3253	Pesticide, fertilizer, & other agricultural chemical mfg—Con.					
32532	Pesticide & other agricultural chemical mfg	2001..	317 459	29 180	288 279	19
		2000..	325 047	20 104	304 942	15
		1999..	302 713	14 637	288 076	11
		1998..	395 371	18 345	377 027	2
		1997..	437 220	39 512	397 708	X
325320	Pesticide & other agricultural chemical mfg	2001..	317 459	29 180	288 279	19
		2000..	325 047	20 104	304 942	15
		1999..	302 713	14 637	288 076	11
		1998..	395 371	18 345	377 027	2
		1997..	437 220	39 512	397 708	X
3254	Pharmaceutical & medicine mfg	2001..	6 437 977	2 441 904	3 996 073	6
		2000..	5 693 025	2 010 370	3 682 655	5
		1999..	4 681 256	1 430 280	3 250 976	3
		1998..	4 335 120	1 233 957	3 101 164	2
		1997..	4 750 538	1 557 972	3 192 566	X
32541	Pharmaceutical & medicine mfg	2001..	6 437 977	2 441 904	3 996 073	6
		2000..	5 693 025	2 010 370	3 682 655	5
		1999..	4 681 256	1 430 280	3 250 976	3
		1998..	4 335 120	1 233 957	3 101 164	2
		1997..	4 750 538	1 557 972	3 192 566	X
325411	Medicinal & botanical mfg	2001..	960 056	212 557	747 499	6
		2000..	1 012 193	285 637	726 556	7
		1999..	877 957	199 964	677 992	4
		1998..	1 021 414	211 938	809 476	6
		1997..	1 125 300	266 869	858 431	X
325412	Pharmaceutical preparation mfg	2001..	4 087 561	1 876 869	2 210 692	10
		2000..	3 448 831	1 405 332	2 043 498	9
		1999..	2 724 475	976 328	1 748 146	4
		1998..	2 300 279	764 950	1 535 329	3
		1997..	2 491 682	940 583	1 551 099	X
325413	In-vitro diagnostic substance mfg	2001..	770 392	56 239	714 153	2
		2000..	661 322	68 740	592 582	1
		1999..	707 049	83 997	623 052	2
		1998..	623 413	113 032	510 381	2
		1997..	706 684	166 206	540 478	X
325414	Biological product (except diagnostic) mfg	2001..	619 969	296 240	323 729	13
		2000..	570 679	250 661	320 018	11
		1999..	371 776	169 991	201 786	8
		1998..	390 015	144 037	245 977	2
		1997..	426 872	184 314	242 558	X
3255	Paint, coating, & adhesive mfg	2001..	554 182	102 339	451 843	5
		2000..	696 517	125 945	570 572	4
		1999..	767 673	160 536	607 137	5
		1998..	721 456	161 310	560 146	8
		1997..	654 220	134 742	519 478	X
32551	Paint & coating mfg	2001..	337 880	53 074	284 806	5
		2000..	426 508	74 660	351 849	4
		1999..	446 160	91 919	354 241	5
		1998..	483 338	118 841	364 496	12
		1997..	411 043	80 352	330 691	X
325510	Paint & coating mfg	2001..	337 880	53 074	284 806	5
		2000..	426 508	74 660	351 849	4
		1999..	446 160	91 919	354 241	5
		1998..	483 338	118 841	364 496	12
		1997..	411 043	80 352	330 691	X
32552	Adhesive mfg	2001..	216 302	49 265	167 037	11
		2000..	270 009	51 285	218 724	7
		1999..	321 513	68 617	252 896	11
		1998..	238 118	42 469	195 650	8
		1997..	243 177	54 390	188 787	X
325520	Adhesive mfg	2001..	216 302	49 265	167 037	11
		2000..	270 009	51 285	218 724	7
		1999..	321 513	68 617	252 896	11
		1998..	238 118	42 469	195 650	8
		1997..	243 177	54 390	188 787	X
3256	Soap, cleaning compound, & toilet preparation mfg	2001..	1 575 791	182 718	1 393 072	2
		2000..	1 900 622	289 181	1 611 441	3
		1999..	2 419 372	987 457	1 431 915	3
		1998..	1 685 754	307 668	1 378 087	3
		1997..	1 478 636	243 995	1 234 641	X
32561	Soap & cleaning compound mfg	2001..	1 015 092	84 906	930 186	3
		2000..	1 187 338	123 384	1 063 954	3
		1999..	1 712 162	785 932	926 230	3
		1998..	1 001 958	163 894	838 064	3
		1997..	906 378	126 648	779 730	X
325611	Soap & other detergent mfg	2001..	345 743	24 458	321 284	2
		2000..	446 073	60 125	385 948	3
		1999..	380 092	57 923	322 168	6
		1998..	459 159	79 461	379 699	4
		1997..	464 466	66 571	397 895	X
325612	Polish & other sanitation good mfg	2001..	207 474	36 802	170 673	7
		2000..	249 495	38 710	210 785	7
		1999..	294 711	50 612	244 099	11
		1998..	220 371	42 237	178 135	5
		1997..	153 642	26 395	127 247	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
325	Chemical mfg—Con.					
3256	Soap, cleaning compound, & toilet preparation mfg—Con.					
32561	Soap & cleaning compound mfg—Con.					
325613	Surface active agent mfg	2001..	461 875	23 646	438 229	4
		2000..	491 769	24 549	467 220	6
		1999..	1 037 360	677 397	359 962	3
		1998..	322 427	42 197	280 230	5
		1997..	288 270	33 682	254 588	X
32562	Toilet preparation mfg	2001..	560 699	97 812	462 886	4
		2000..	713 284	165 797	547 487	6
		1999..	707 210	201 524	505 686	9
		1998..	683 796	143 774	540 023	7
		1997..	572 258	117 347	454 911	X
325620	Toilet preparation mfg	2001..	560 699	97 812	462 886	4
		2000..	713 284	165 797	547 487	6
		1999..	707 210	201 524	505 686	9
		1998..	683 796	143 774	540 023	7
		1997..	572 258	117 347	454 911	X
3259	Other chemical product mfg	2001..	1 459 670	281 916	1 177 754	3
		2000..	1 630 343	297 997	1 332 346	2
		1999..	1 468 390	262 684	1 205 706	9
		1998..	1 919 609	251 193	1 668 416	5
		1997..	1 615 535	254 289	1 361 246	X
32591	Printing ink mfg	2001..	67 178	7 964	59 214	8
		2000..	172 249	36 741	135 508	4
		1999..	84 061	18 612	65 449	13
		1998..	66 935	8 073	58 863	11
		1997..	90 509	19 505	71 004	X
325910	Printing ink mfg	2001..	67 178	7 964	59 214	8
		2000..	172 249	36 741	135 508	4
		1999..	84 061	18 612	65 449	13
		1998..	66 935	8 073	58 863	11
		1997..	90 509	19 505	71 004	X
32592	Explosives mfg	2001..	24 109	1 770	22 339	8
		2000..	24 176	2 193	21 982	17
		1999..	40 320	4 917	35 403	12
		1998..	59 903	12 382	47 521	16
		1997..	44 209	8 491	35 718	X
325920	Explosives mfg	2001..	24 109	1 770	22 339	8
		2000..	24 176	2 193	21 982	17
		1999..	40 320	4 917	35 403	12
		1998..	59 903	12 382	47 521	16
		1997..	44 209	8 491	35 718	X
32599	All other chemical product & preparation mfg	2001..	1 368 383	272 182	1 096 201	3
		2000..	1 433 919	259 063	1 174 856	3
		1999..	1 344 010	239 156	1 104 854	9
		1998..	1 792 771	230 738	1 562 033	5
		1997..	1 480 817	226 293	1 254 524	X
325991	Custom compounding of purchased resin	2001..	396 423	65 242	331 181	6
		2000..	332 765	30 486	302 280	6
		1999..	327 281	52 148	275 133	7
		1998..	237 783	36 908	200 875	5
		1997..	298 243	54 572	243 671	X
325992	Photographic film, paper, plate, & chemical mfg	2001..	514 697	141 519	373 178	3
		2000..	617 896	146 702	471 194	2
		1999..	285 640	42 990	242 650	3
		1998..	899 511	60 023	839 488	10
		1997..	571 275	63 825	507 450	X
325998	All other miscellaneous chemical product & preparation mfg	2001..	457 262	65 421	391 841	7
		2000..	483 258	81 875	401 382	6
		1999..	731 089	144 018	587 071	17
		1998..	655 477	133 807	521 670	2
		1997..	611 299	107 896	503 403	X
326	Plastics & rubber products mfg	2001..	7 340 988	868 022	6 472 966	2
		2000..	8 403 748	891 251	7 512 497	2
		1999..	9 067 202	1 049 626	8 017 576	2
		1998..	8 112 584	1 085 641	7 026 943	2
		1997..	7 836 663	1 077 018	6 759 645	X
3261	Plastics product mfg	2001..	6 199 566	775 109	5 424 456	3
		2000..	6 851 031	762 459	6 088 573	2
		1999..	7 558 685	898 570	6 660 115	3
		1998..	6 556 875	902 350	5 654 525	2
		1997..	6 451 221	910 963	5 540 258	X
32611	Unsupported plastics film, sheet, & bag mfg	2001..	1 192 145	194 934	997 212	4
		2000..	1 249 108	149 411	1 099 697	3
		1999..	1 547 013	158 899	1 388 114	3
		1998..	1 144 528	150 905	993 623	5
		1997..	1 324 069	188 329	1 135 740	X
326111	Unsupported plastics bag mfg	2001..	370 904	118 043	252 862	5
		2000..	464 774	56 966	407 808	6
		1999..	631 967	70 664	561 303	2
		1998..	273 085	17 312	255 773	10
		1997..	366 375	43 115	323 260	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
326	Plastics & rubber products mfg—Con.					
3261	Plastics product mfg—Con.					
32611	Unsupported plastics film, sheet, & bag mfg—Con.					
326112	Unsupported plastics packaging film & sheet mfg	2001	179 240	7 768	171 472	12
		2000	143 954	12 061	131 894	9
		1999	190 579	15 504	175 075	12
		1998	177 636	30 537	147 098	17
		1997	214 642	33 849	180 793	X
326113	Unsupported plastics film & sheet (except packaging) mfg	2001	642 001	69 123	572 878	6
		2000	640 379	80 385	559 995	5
		1999	724 467	72 731	651 737	5
		1998	693 808	103 056	590 752	6
		1997	743 052	111 365	631 687	X
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	2001	458 573	50 971	407 602	6
		2000	474 771	45 672	429 099	4
		1999	488 967	92 023	396 944	4
		1998	438 082	54 639	383 443	7
		1997	458 816	66 568	392 248	X
326121	Unsupported plastics profile shape mfg	2001	182 864	21 821	161 044	12
		2000	200 274	19 900	180 374	5
		1999	202 744	42 356	160 387	6
		1998	197 653	26 299	171 354	7
		1997	215 561	36 748	178 813	X
326122	Plastics pipe & pipe fitting mfg	2001	275 709	29 150	246 559	6
		2000	274 497	25 772	248 725	6
		1999	286 223	49 666	236 557	5
		1998	240 429	28 341	212 088	12
		1997	243 255	29 820	213 435	X
32613	Laminated plastics plate, sheet, & shape mfg	2001	74 341	8 224	66 117	7
		2000	92 663	9 130	83 533	6
		1999	102 441	12 421	90 020	5
		1998	124 912	10 122	114 789	10
		1997	139 476	16 727	122 749	X
326130	Laminated plastics plate, sheet, & shape mfg	2001	74 341	8 224	66 117	7
		2000	92 663	9 130	83 533	6
		1999	102 441	12 421	90 020	5
		1998	124 912	10 122	114 789	10
		1997	139 476	16 727	122 749	X
32614	Polystyrene foam product mfg	2001	327 077	51 025	276 051	10
		2000	321 291	47 996	273 295	8
		1999	525 851	98 933	426 918	30
		1998	390 018	112 723	277 295	11
		1997	317 912	73 549	244 363	X
326140	Polystyrene foam product mfg	2001	327 077	51 025	276 051	10
		2000	321 291	47 996	273 295	8
		1999	525 851	98 933	426 918	30
		1998	390 018	112 723	277 295	11
		1997	317 912	73 549	244 363	X
32615	Urethane & other foam product (except polystyrene) mfg	2001	170 627	24 917	145 710	4
		2000	191 588	38 955	152 633	7
		1999	197 930	23 739	174 192	11
		1998	171 015	10 968	160 046	8
		1997	216 869	40 330	176 539	X
326150	Urethane & other foam product (except polystyrene) mfg	2001	170 627	24 917	145 710	4
		2000	191 588	38 955	152 633	7
		1999	197 930	23 739	174 192	11
		1998	171 015	10 968	160 046	8
		1997	216 869	40 330	176 539	X
32616	Plastics bottle mfg	2001	465 228	21 523	443 705	8
		2000	462 495	21 404	441 091	6
		1999	778 680	61 133	717 547	5
		1998	573 254	55 554	517 700	5
		1997	447 247	34 818	412 429	X
326160	Plastics bottle mfg	2001	465 228	21 523	443 705	8
		2000	462 495	21 404	441 091	6
		1999	778 680	61 133	717 547	5
		1998	573 254	55 554	517 700	5
		1997	447 247	34 818	412 429	X
32619	Other plastics product mfg	2001	3 511 574	423 516	3 088 059	4
		2000	4 059 116	449 890	3 609 226	3
		1999	3 917 803	451 423	3 466 379	3
		1998	3 715 066	507 438	3 207 628	2
		1997	3 546 832	490 642	3 056 190	X
326191	Plastics plumbing fixture mfg	2001	76 778	7 805	68 973	8
		2000	77 360	7 805	69 556	7
		1999	65 680	10 415	55 265	8
		1998	39 758	3 868	35 890	6
		1997	48 736	7 816	40 920	X
326192	Resilient floor covering mfg	2001	53 041	5 975	47 066	5
		2000	55 357	6 050	49 307	1
		1999	101 802	25 925	75 876	3
		1998	74 635	6 454	68 180	1
		1997	66 721	8 818	57 903	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
326	Plastics & rubber products mfg—Con.					
3261	Plastics product mfg—Con.					
32619	Other plastics product mfg—Con.					
326199	All other plastics product mfg	2001..	3 381 756	409 736	2 972 020	5
		2000..	3 926 399	436 036	3 490 363	3
		1999..	3 750 321	415 083	3 335 238	3
		1998..	3 600 674	497 116	3 103 558	2
		1997..	3 431 375	474 008	2 957 367	X
3262	Rubber product mfg	2001..	1 141 422	92 913	1 048 509	4
		2000..	1 552 717	128 792	1 423 924	4
		1999..	1 508 517	151 056	1 357 461	2
		1998..	1 555 710	183 292	1 372 418	3
		1997..	1 385 442	166 055	1 219 387	X
32621	Tire mfg	2001..	545 647	31 719	513 928	7
		2000..	774 428	47 484	726 944	7
		1999..	716 065	68 657	647 408	2
		1998..	734 319	72 110	662 209	3
		1997..	611 115	43 226	567 889	X
326211	Tire mfg (except retreading)	2001..	513 850	27 769	486 081	7
		2000..	745 529	45 834	699 695	7
		1999..	663 838	55 333	608 505	1
		1998..	688 931	69 738	619 193	3
		1997..	587 101	40 852	546 249	X
326212	Tire retreading	2001..	31 798	3 950	27 848	9
		2000..	28 899	1 650	27 249	8
		1999..	52 227	13 324	38 903	20
		1998..	45 389	2 372	43 016	18
		1997..	24 014	2 374	21 640	X
32622	Rubber & plastics hoses & belting mfg	2001..	111 175	10 472	100 703	9
		2000..	142 204	14 189	128 015	5
		1999..	146 047	14 788	131 258	5
		1998..	156 927	21 611	135 316	12
		1997..	144 948	20 690	124 258	X
326220	Rubber & plastics hoses & belting mfg	2001..	111 175	10 472	100 703	9
		2000..	142 204	14 189	128 015	5
		1999..	146 047	14 788	131 258	5
		1998..	156 927	21 611	135 316	12
		1997..	144 948	20 690	124 258	X
32629	Other rubber product mfg	2001..	484 600	50 722	433 878	6
		2000..	636 085	67 119	568 966	4
		1999..	646 405	67 610	578 795	5
		1998..	664 464	89 571	574 893	6
		1997..	629 379	102 139	527 240	X
326291	Rubber product mfg for mechanical use	2001..	281 037	26 700	254 336	7
		2000..	338 144	28 237	309 907	4
		1999..	338 314	40 793	297 520	5
		1998..	326 449	42 717	283 732	6
		1997..	345 438	53 072	292 366	X
326299	All other rubber product mfg	2001..	203 563	24 021	179 542	9
		2000..	297 941	38 883	259 058	8
		1999..	308 091	26 817	281 274	9
		1998..	338 015	46 854	291 161	10
		1997..	283 941	49 067	234 874	X
327	Nonmetallic mineral product mfg	2001..	5 687 360	892 939	4 794 421	4
		2000..	5 971 907	854 753	5 117 154	1
		1999..	5 404 575	658 707	4 745 868	2
		1998..	5 026 090	634 487	4 391 603	2
		1997..	4 798 921	645 080	4 153 841	X
3271	Clay product & refractory mfg	2001..	364 705	65 059	299 646	5
		2000..	489 734	63 534	426 201	7
		1999..	422 796	56 632	366 164	7
		1998..	411 465	80 046	331 419	11
		1997..	414 410	74 082	340 328	X
32711	Pottery, ceramics, & plumbing fixture mfg	2001..	141 468	14 254	127 214	6
		2000..	155 988	22 992	132 996	8
		1999..	143 825	15 641	128 184	6
		1998..	152 122	27 781	124 341	16
		1997..	159 671	29 064	130 607	X
327111	Vitreous china plumbing fixture & bathroom accessories mfg	2001..	12 651	1 079	11 572	7
		2000..	19 181	1 296	17 885	9
		1999..	26 332	1 708	24 625	9
		1998..	20 681	1 348	19 333	1
		1997..	14 877	1 585	13 292	X
327112	Vitreous china, fine earthenware, & other pottery product mfg	2001..	74 524	8 612	65 912	10
		2000..	74 671	18 447	56 224	16
		1999..	66 494	8 152	58 342	12
		1998..	71 336	16 061	55 275	13
		1997..	76 465	15 247	61 218	X
327113	Porcelain electrical supply mfg	2001..	54 293	4 563	49 730	7
		2000..	62 136	3 249	58 886	5
		1999..	50 999	5 781	45 218	7
		1998..	60 105	10 372	49 733	37
		1997..	68 329	12 232	56 097	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
327	Nonmetallic mineral product mfg—Con.					
3271	Clay product & refractory mfg—Con.					
32712	Clay building material & refractories mfg	2001	223 238	50 805	172 432	8
		2000	333 746	40 541	293 205	9
		1999	278 971	40 991	237 980	11
		1998	259 343	52 265	207 078	15
		1997	254 739	45 018	209 721	X
327121	Brick & structural clay tile mfg	2001	97 154	31 738	65 415	7
		2000	127 302	10 630	116 672	14
		1999	83 116	7 057	76 059	7
		1998	79 738	8 672	71 066	11
		1997	70 726	10 228	60 498	X
327122	Ceramic wall & floor tile mfg	2001	53 422	8 918	44 505	19
		2000	85 974	14 874	71 100	7
		1999	58 795	8 236	50 559	16
		1998	41 752	11 340	30 412	16
		1997	58 800	9 314	49 486	X
327123	Other structural clay product mfg	2001	6 241	647	5 595	13
		2000	6 603	1 638	4 965	4
		1999	8 737	2 037	6 701	6
		1998	8 481	754	7 727	70
		1997	4 856	823	4 033	X
327124	Clay refractory mfg	2001	11 269	108	11 161	22
		2000	14 187	267	13 920	13
		1999	26 232	2 279	23 953	17
		1998	27 482	2 512	24 970	18
		1997	25 605	2 190	23 415	X
327125	Nonclay refractory mfg	2001	55 151	9 395	45 756	21
		2000	99 681	13 132	86 549	23
		1999	102 091	21 383	80 708	27
		1998	101 890	28 988	72 902	35
		1997	94 752	22 463	72 289	X
3272	Glass & glass product mfg	2001	1 623 215	300 361	1 322 854	2
		2000	1 629 410	144 267	1 485 144	2
		1999	1 718 112	222 515	1 495 597	2
		1998	1 765 332	180 351	1 584 981	1
		1997	1 642 137	237 051	1 405 086	X
32721	Glass & glass product mfg	2001	1 623 215	300 361	1 322 854	2
		2000	1 629 410	144 267	1 485 144	2
		1999	1 718 112	222 515	1 495 597	2
		1998	1 765 332	180 351	1 584 981	1
		1997	1 642 137	237 051	1 405 086	X
327211	Flat glass mfg	2001	305 851	19 292	286 559	5
		2000	336 050	30 151	305 899	2
		1999	274 348	27 078	247 269	4
		1998	384 491	34 244	350 246	1
		1997	176 690	20 141	156 549	X
327212	Other pressed & blown glass & glassware mfg	2001	592 816	195 905	396 911	2
		2000	445 004	35 318	409 687	1
		1999	570 188	80 596	489 591	1
		1998	658 733	71 913	586 820	2
		1997	627 705	75 502	552 203	X
327213	Glass container mfg	2001	215 994	D	D	10
		2000	343 400	D	D	6
		1999	406 910	D	D	6
		1998	356 440	D	D	4
		1997	283 023	D	D	X
327215	Glass product mfg made of purchased glass	2001	508 554	D	D	4
		2000	504 957	D	D	4
		1999	466 667	D	D	4
		1998	365 668	D	D	5
		1997	554 719	D	D	X
3273	Cement & concrete product mfg	2001	2 880 628	428 833	2 451 795	8
		2000	2 799 886	517 764	2 282 122	2
		1999	2 312 264	283 045	2 029 219	3
		1998	1 897 118	252 859	1 644 259	3
		1997	1 802 948	203 703	1 599 245	X
32731	Cement mfg	2001	1 430 007	236 074	1 193 932	15
		2000	1 107 969	287 681	820 287	3
		1999	691 184	98 416	592 768	4
		1998	525 424	94 673	430 752	6
		1997	505 630	35 250	470 380	X
327310	Cement mfg	2001	1 430 007	236 074	1 193 932	15
		2000	1 107 969	287 681	820 287	3
		1999	691 184	98 416	592 768	4
		1998	525 424	94 673	430 752	6
		1997	505 630	35 250	470 380	X
32732	Ready-mix concrete mfg	2001	838 234	77 499	760 734	5
		2000	938 092	76 130	861 962	5
		1999	985 361	88 225	897 136	5
		1998	834 318	73 291	761 026	3
		1997	798 851	79 051	719 800	X
327320	Ready-mix concrete mfg	2001	838 234	77 499	760 734	5
		2000	938 092	76 130	861 962	5
		1999	985 361	88 225	897 136	5
		1998	834 318	73 291	761 026	3
		1997	798 851	79 051	719 800	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
327	Nonmetallic mineral product mfg—Con.					
3273	Cement & concrete product mfg—Con.					
32733	Concrete pipe, brick, & block mfg	2001..	301 978	57 766	244 212	9
		2000..	344 104	70 890	273 214	8
		1999..	301 765	45 081	256 684	8
		1998..	270 001	36 334	233 667	10
		1997..	228 914	41 500	187 414	X
327331	Concrete block & brick mfg	2001..	151 518	23 012	128 506	10
		2000..	215 668	42 787	172 881	9
		1999..	188 952	24 518	164 435	9
		1998..	178 335	26 126	152 209	14
		1997..	149 684	27 232	122 452	X
327332	Concrete pipe mfg	2001..	150 460	34 754	115 706	15
		2000..	128 436	28 103	100 333	15
		1999..	112 813	20 563	92 250	14
		1998..	91 666	10 208	81 458	13
		1997..	79 230	14 268	64 962	X
32739	Other concrete product mfg	2001..	310 409	57 493	252 917	8
		2000..	409 722	83 063	326 658	6
		1999..	333 954	51 322	282 631	5
		1998..	267 374	48 561	218 814	7
		1997..	269 553	47 902	221 651	X
327390	Other concrete product mfg	2001..	310 409	57 493	252 917	8
		2000..	409 722	83 063	326 658	6
		1999..	333 954	51 322	282 631	5
		1998..	267 374	48 561	218 814	7
		1997..	269 553	47 902	221 651	X
3274	Lime & gypsum product mfg	2001..	261 817	53 656	208 161	3
		2000..	274 552	43 506	231 046	3
		1999..	239 155	33 007	206 148	5
		1998..	226 899	23 969	202 930	16
		1997..	213 098	23 204	189 894	X
32741	Lime mfg	2001..	62 165	4 194	57 972	11
		2000..	67 318	1 360	65 958	10
		1999..	82 333	4 185	78 148	11
		1998..	60 191	3 969	56 223	36
		1997..	59 097	4 892	54 205	X
327410	Lime mfg	2001..	62 165	4 194	57 972	11
		2000..	67 318	1 360	65 958	10
		1999..	82 333	4 185	78 148	11
		1998..	60 191	3 969	56 223	36
		1997..	59 097	4 892	54 205	X
32742	Gypsum product mfg	2001..	199 651	49 462	150 189	3
		2000..	207 234	42 145	165 088	2
		1999..	156 822	28 822	128 000	4
		1998..	166 707	20 000	146 708	17
		1997..	154 001	18 312	135 689	X
327420	Gypsum product mfg	2001..	199 651	49 462	150 189	3
		2000..	207 234	42 145	165 088	2
		1999..	156 822	28 822	128 000	4
		1998..	166 707	20 000	146 708	17
		1997..	154 001	18 312	135 689	X
3279	Other nonmetallic mineral product mfg	2001..	556 995	45 031	511 964	4
		2000..	778 324	85 683	692 641	3
		1999..	712 248	63 509	648 739	3
		1998..	725 277	97 262	628 015	4
		1997..	726 328	107 040	619 288	X
32791	Abrasive product mfg	2001..	108 103	10 571	97 532	6
		2000..	174 919	12 980	161 939	5
		1999..	113 211	9 391	103 820	8
		1998..	163 942	27 213	136 729	11
		1997..	155 961	18 776	137 185	X
327910	Abrasive product mfg	2001..	108 103	10 571	97 532	6
		2000..	174 919	12 980	161 939	5
		1999..	113 211	9 391	103 820	8
		1998..	163 942	27 213	136 729	11
		1997..	155 961	18 776	137 185	X
32799	All other nonmetallic mineral product mfg	2001..	448 892	34 460	414 432	5
		2000..	603 405	72 703	530 702	4
		1999..	599 037	54 117	544 919	4
		1998..	561 335	70 049	491 286	5
		1997..	570 367	88 264	482 103	X
327991	Cut stone & stone product mfg	2001..	74 579	7 759	66 820	9
		2000..	80 002	11 239	68 763	9
		1999..	68 175	7 846	60 329	11
		1998..	43 857	8 990	34 867	34
		1997..	52 771	8 395	44 376	X
327992	Ground or treated mineral & earth mfg	2001..	93 871	10 219	83 652	6
		2000..	127 690	13 481	114 209	12
		1999..	131 059	10 972	120 087	8
		1998..	132 646	7 026	125 621	13
		1997..	133 223	17 872	115 351	X
327993	Mineral wool mfg	2001..	203 243	11 570	191 673	10
		2000..	274 119	18 160	255 959	4
		1999..	307 317	21 839	285 478	4
		1998..	287 646	28 237	259 409	2
		1997..	282 825	42 233	240 592	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
327	Nonmetallic mineral product mfg—Con.					
3279	Other nonmetallic mineral product mfg—Con.					
32799	All other nonmetallic mineral product mfg—Con.					
327999	All other miscellaneous nonmetallic mineral product mfg	2001..	77 199	4 912	72 287	9
		2000..	121 594	29 823	91 772	10
		1999..	92 486	13 461	79 025	14
		1998..	97 186	25 797	71 390	9
		1997..	101 548	19 764	81 784	X
331	Primary metal mfg	2001..	5 140 166	843 091	4 297 076	2
		2000..	6 138 324	872 532	5 265 792	1
		1999..	5 942 773	715 369	5 227 404	1
		1998..	6 451 186	883 513	5 567 674	1
		1997..	6 515 752	799 084	5 716 668	X
3311	Iron & steel mills & ferroalloy mfg	2001..	1 365 007	96 038	1 268 969	1
		2000..	2 104 001	145 578	1 958 424	2
		1999..	2 265 480	140 740	2 124 740	1
		1998..	2 632 191	237 992	2 394 200	1
		1997..	2 673 741	208 505	2 465 236	X
33111	Iron & steel mills & ferroalloy mfg	2001..	1 365 007	96 038	1 268 969	1
		2000..	2 104 001	145 578	1 958 424	2
		1999..	2 265 480	140 740	2 124 740	1
		1998..	2 632 191	237 992	2 394 200	1
		1997..	2 673 741	208 505	2 465 236	X
331111	Iron & steel mills	2001..	1 324 021	93 125	1 230 896	1
		2000..	2 070 711	139 482	1 931 229	2
		1999..	2 230 038	137 374	2 092 664	1
		1998..	2 582 615	231 385	2 351 231	1
		1997..	2 604 676	191 380	2 413 296	X
331112	Electrometallurgical ferroalloy product mfg	2001..	40 986	2 913	38 073	4
		2000..	33 291	6 096	27 195	16
		1999..	35 442	3 365	32 076	8
		1998..	49 576	6 607	42 969	1
		1997..	69 065	17 125	51 940	X
3312	Steel product mfg from purchased steel	2001..	413 120	56 583	356 536	3
		2000..	468 683	53 345	415 338	4
		1999..	440 079	49 864	390 214	3
		1998..	517 316	79 540	437 776	6
		1997..	533 536	78 247	455 289	X
33121	Iron & steel pipes & tubes mfg from purchased steel	2001..	232 164	37 045	195 120	5
		2000..	232 407	29 423	202 984	6
		1999..	211 934	28 456	183 478	5
		1998..	229 013	44 193	184 820	5
		1997..	216 395	31 756	184 639	X
331210	Iron & steel pipes & tubes mfg from purchased steel	2001..	232 164	37 045	195 120	5
		2000..	232 407	29 423	202 984	6
		1999..	211 934	28 456	183 478	5
		1998..	229 013	44 193	184 820	5
		1997..	216 395	31 756	184 639	X
33122	Rolling & drawing of purchased steel	2001..	180 955	19 539	161 417	4
		2000..	236 276	23 921	212 355	5
		1999..	228 145	21 408	206 737	4
		1998..	288 303	35 347	252 956	10
		1997..	317 141	46 491	270 650	X
331221	Cold-rolled steel shape mfg	2001..	80 709	11 079	69 631	7
		2000..	87 525	5 542	81 984	6
		1999..	86 442	6 098	80 344	7
		1998..	152 138	10 668	141 470	9
		1997..	139 343	14 643	124 700	X
331222	Steel wire drawing	2001..	100 246	8 460	91 786	6
		2000..	148 751	18 380	130 371	7
		1999..	141 703	15 310	126 393	5
		1998..	136 165	24 679	111 486	18
		1997..	177 798	31 848	145 950	X
3313	Alumina & aluminum production & processing	2001..	1 201 165	418 086	783 079	1
		2000..	1 392 298	414 258	978 040	2
		1999..	1 106 200	231 260	874 940	2
		1998..	1 111 840	287 380	824 459	2
		1997..	1 073 646	178 727	894 919	X
33131	Alumina & aluminum production & processing	2001..	1 201 165	418 086	783 079	1
		2000..	1 392 298	414 258	978 040	2
		1999..	1 106 200	231 260	874 940	2
		1998..	1 111 840	287 380	824 459	2
		1997..	1 073 646	178 727	894 919	X
331311	Alumina refining	2001..	115 914	D	D	1
		2000..	306 596	D	D	1
		1999..	98 631	D	D	1
		1998..	93 391	D	D	1
		1997..	96 963	D	D	X
331312	Primary aluminum production	2001..	257 326	92 681	164 645	1
		2000..	350 859	73 451	277 408	1
		1999..	351 602	75 555	276 047	1
		1998..	394 546	96 444	298 102	1
		1997..	320 294	62 972	257 322	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
331	Primary metal mfg—Con.					
3313	Alumina & aluminum production & processing—Con.					
33131	Alumina & aluminum production & processing—Con.					
331314	Secondary smelting & alloying of aluminum	2001	58 871	10 865	48 006	4
		2000	113 170	18 912	94 258	5
		1999	103 742	17 546	86 197	13
		1998	66 341	9 266	57 075	11
		1997	86 449	27 181	59 268	X
331315	Aluminum sheet, plate, & foil mfg	2001	575 645	177 197	398 448	1
		2000	346 904	108 601	238 303	1
		1999	326 050	83 512	242 538	1
		1998	317 521	104 140	213 381	1
		1997	331 444	38 781	292 663	X
331316	Aluminum extruded product mfg	2001	174 746	42 048	132 697	4
		2000	238 254	42 879	195 375	10
		1999	194 911	43 103	151 808	6
		1998	221 343	60 406	160 937	7
		1997	208 984	33 370	175 614	X
331319	Other aluminum rolling & drawing	2001	18 663	D	D	13
		2000	36 515	D	D	23
		1999	31 264	D	D	10
		1998	18 698	D	D	5
		1997	29 512	D	D	X
3314	Nonferrous metal (except aluminum) production & processing	2001	709 593	83 100	626 493	3
		2000	738 135	114 218	623 917	4
		1999	815 595	136 857	678 738	4
		1998	872 936	129 905	743 031	4
		1997	917 401	140 925	776 476	X
33141	Nonferrous metal (except aluminum) smelting & refining	2001	186 818	32 972	153 846	9
		2000	223 285	62 054	161 231	14
		1999	323 972	61 653	262 320	10
		1998	333 575	41 828	291 746	2
		1997	346 123	52 275	293 848	X
331411	Primary smelting & refining of copper	2001	52 657	19 111	33 546	1
		2000	55 695	22 349	33 347	1
		1999	139 721	10 153	129 568	1
		1998	177 881	9 372	168 509	1
		1997	184 604	12 665	171 939	X
331419	Other nonferrous metal primary smelting & refining	2001	134 161	13 861	120 300	13
		2000	167 590	39 705	127 884	18
		1999	184 251	51 500	132 752	17
		1998	155 694	32 456	123 237	4
		1997	161 519	39 610	121 909	X
33142	Copper rolling, drawing, extruding, & alloying	2001	247 860	29 223	218 637	2
		2000	230 232	21 632	208 600	2
		1999	182 052	24 810	157 242	6
		1998	190 606	15 524	175 081	12
		1997	202 635	21 922	180 713	X
331421	Copper rolling, drawing, & extruding	2001	209 903	19 284	190 619	3
		2000	189 506	18 056	171 449	2
		1999	136 792	11 348	125 445	4
		1998	123 487	9 361	114 126	6
		1997	144 446	9 345	135 101	X
331422	Copper wire (except mechanical) drawing	2001	26 639	9 491	17 149	5
		2000	28 406	3 027	25 378	9
		1999	36 159	12 939	23 220	25
		1998	58 172	5 276	52 896	37
		1997	41 788	9 807	31 981	X
331423	Secondary smelting, refining, & alloying of copper	2001	11 318	448	10 869	15
		2000	12 320	548	11 772	13
		1999	9 101	524	8 577	12
		1998	8 946	887	8 060	21
		1997	16 401	2 770	13 631	X
33149	Other nonferrous metal rolling, drawing, extruding, & alloying	2001	274 915	20 904	254 010	2
		2000	284 619	30 533	254 086	3
		1999	309 571	50 394	259 177	3
		1998	348 755	72 552	276 203	7
		1997	368 643	66 728	301 915	X
331491	Other nonferrous metal rolling, drawing, & extruding	2001	199 088	14 936	184 152	3
		2000	198 071	15 811	182 260	4
		1999	210 832	23 569	187 263	3
		1998	239 681	45 152	194 529	9
		1997	247 299	28 782	218 517	X
331492	Other nonferrous metal secondary smelting, refining, & alloying	2001	75 826	5 968	69 858	6
		2000	86 548	14 722	71 826	7
		1999	98 738	26 824	71 914	5
		1998	109 074	27 400	81 674	8
		1997	121 344	37 946	83 398	X

See footnotes at end of table.

Table 5. Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
331	Primary metal mfg—Con.					
3315	Foundries	2001..	1 451 282	189 284	1 261 998	5
		2000..	1 435 206	145 133	1 290 073	2
		1999..	1 315 419	156 648	1 158 771	3
		1998..	1 316 904	148 696	1 168 208	6
		1997..	1 317 428	192 680	1 124 748	X
33151	Ferrous metal foundries	2001..	1 011 374	128 062	883 311	7
		2000..	953 410	82 545	870 865	2
		1999..	718 482	77 757	640 725	3
		1998..	704 034	70 047	633 987	5
		1997..	709 540	88 570	620 970	X
331511	Iron foundries	2001..	841 985	S	S	9
		2000..	776 297	56 536	719 761	3
		1999..	511 039	47 083	463 956	3
		1998..	517 131	47 499	469 632	5
		1997..	508 271	54 606	453 665	X
331512	Steel investment foundries	2001..	95 010	15 210	79 801	6
		2000..	95 890	14 026	81 863	5
		1999..	91 890	13 478	78 411	4
		1998..	70 916	12 139	58 777	19
		1997..	76 396	11 416	64 980	X
331513	Steel foundries (except investment)	2001..	74 379	12 094	62 285	11
		2000..	81 223	11 983	69 241	10
		1999..	115 553	17 195	98 358	7
		1998..	115 988	10 410	105 578	9
		1997..	124 873	22 548	102 325	X
33152	Nonferrous metal foundries	2001..	439 908	61 222	378 687	5
		2000..	481 796	62 588	419 208	5
		1999..	596 937	78 892	518 045	5
		1998..	612 869	78 649	534 221	11
		1997..	607 888	104 110	503 778	X
331521	Aluminum die-casting foundries	2001..	164 813	11 240	153 573	8
		2000..	177 686	13 463	164 222	6
		1999..	215 823	29 380	186 443	9
		1998..	229 187	35 208	193 979	14
		1997..	222 846	42 936	179 910	X
331522	Nonferrous (except aluminum) die-casting foundries	2001..	72 045	12 031	60 014	11
		2000..	78 730	11 696	67 034	13
		1999..	75 003	10 303	64 700	7
		1998..	79 326	20 695	58 631	24
		1997..	83 714	11 541	72 173	X
331524	Aluminum foundries (except die-casting)	2001..	168 760	32 208	136 552	9
		2000..	188 824	30 986	157 838	9
		1999..	239 422	27 239	212 183	7
		1998..	254 581	20 918	233 663	21
		1997..	240 847	42 212	198 635	X
331525	Copper foundries (except die-casting)	2001..	22 970	4 291	18 679	17
		2000..	23 460	4 728	18 732	16
		1999..	24 645	3 532	21 113	16
		1998..	12 148	936	11 212	47
		1997..	24 949	4 000	20 949	X
331528	Other nonferrous foundries (except die-casting)	2001..	11 320	1 452	9 868	18
		2000..	13 097	1 715	11 382	13
		1999..	42 044	8 438	33 606	29
		1998..	37 628	892	36 736	27
		1997..	35 532	3 421	32 111	X
332	Fabricated metal product mfg	2001..	8 632 877	935 655	7 697 222	2
		2000..	9 991 761	1 190 961	8 800 800	1
		1999..	9 688 734	1 213 582	8 475 152	2
		1998..	9 939 312	1 259 245	8 680 067	2
		1997..	9 368 661	1 327 706	8 040 955	X
3321	Forging & stamping	2001..	999 579	105 636	893 943	4
		2000..	1 220 289	160 795	1 059 495	3
		1999..	1 131 326	120 056	1 011 270	7
		1998..	1 025 627	161 785	863 841	5
		1997..	1 071 291	161 975	909 316	X
33211	Forging & stamping	2001..	999 579	105 636	893 943	4
		2000..	1 220 289	160 795	1 059 495	3
		1999..	1 131 326	120 056	1 011 270	7
		1998..	1 025 627	161 785	863 841	5
		1997..	1 071 291	161 975	909 316	X
332111	Iron & steel forging	2001..	174 833	13 808	161 024	6
		2000..	166 995	15 150	151 845	6
		1999..	176 354	15 464	160 890	3
		1998..	195 279	14 914	180 365	13
		1997..	209 964	23 670	186 294	X
332112	Nonferrous forging	2001..	100 252	18 096	82 156	6
		2000..	105 565	23 008	82 557	11
		1999..	93 769	20 746	73 023	12
		1998..	51 793	20 369	31 424	1
		1997..	126 239	21 524	104 715	X
332114	Custom roll forming	2001..	94 761	10 481	84 281	19
		2000..	88 717	6 910	81 807	8
		1999..	69 374	4 388	64 985	7
		1998..	52 554	9 399	43 154	16
		1997..	58 607	8 159	50 448	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
332	Fabricated metal product mfg—Con.					
3321	Forging & stamping—Con.					
33211	Forging & stamping—Con.					
332115	Crown & closure mfg	2001	21 167	2 333	18 834	5
		2000	26 723	2 332	24 391	10
		1999	30 796	948	29 849	8
		1998	53 501	8 840	44 661	4
		1997	51 421	3 833	47 588	X
332116	Metal stamping	2001	519 256	56 477	462 779	6
		2000	717 635	107 449	610 185	4
		1999	588 487	63 893	524 594	5
		1998	586 788	97 564	489 224	7
		1997	544 083	94 561	449 522	X
332117	Powder metallurgy part mfg	2001	89 310	4 441	84 869	8
		2000	114 655	5 947	108 708	17
		1999	172 546	14 617	157 929	41
		1998	85 712	10 699	75 013	6
		1997	80 977	10 228	70 749	X
3322	Cutlery & handtool mfg	2001	316 208	27 836	288 372	3
		2000	586 377	44 420	541 957	6
		1999	546 495	47 418	499 077	4
		1998	681 570	38 021	643 549	9
		1997	539 985	47 045	492 940	X
33221	Cutlery & handtool mfg	2001	316 208	27 836	288 372	3
		2000	586 377	44 420	541 957	6
		1999	546 495	47 418	499 077	4
		1998	681 570	38 021	643 549	9
		1997	539 985	47 045	492 940	X
332211	Cutlery & flatware (except precious) mfg	2001	48 241	4 931	43 310	7
		2000	171 776	9 818	161 958	5
		1999	176 428	13 413	163 015	5
		1998	325 624	7 130	318 495	11
		1997	208 248	6 522	201 726	X
332212	Hand & edge tool mfg	2001	195 757	14 904	180 853	5
		2000	303 130	31 971	271 158	5
		1999	294 852	32 559	262 293	6
		1998	251 409	23 219	228 190	16
		1997	237 147	30 282	206 865	X
332213	Saw blade & handsaw mfg	2001	44 558	4 067	40 492	7
		2000	58 876	1 390	57 486	10
		1999	49 651	705	48 946	11
		1998	74 364	3 293	71 070	31
		1997	67 086	6 697	60 389	X
332214	Kitchen utensil, pot, & pan mfg	2001	27 651	3 934	23 717	15
		2000	52 596	1 241	51 355	51
		1999	25 565	741	24 823	30
		1998	30 174	4 379	25 795	20
		1997	27 504	3 544	23 960	X
3323	Architectural & structural metals mfg	2001	1 516 930	247 647	1 269 283	3
		2000	1 584 934	264 732	1 320 202	2
		1999	1 630 739	286 957	1 343 782	3
		1998	1 465 818	232 009	1 233 809	4
		1997	1 267 964	251 943	1 016 021	X
33231	Plate work & fabricated structural product mfg	2001	608 444	125 428	483 016	5
		2000	614 604	140 305	474 299	4
		1999	606 126	161 704	444 421	3
		1998	471 191	81 926	389 266	5
		1997	446 420	103 897	342 523	X
332311	Prefabricated metal building & component mfg	2001	89 789	17 202	72 587	10
		2000	107 003	22 975	84 029	9
		1999	110 426	29 277	81 149	7
		1998	91 257	10 672	80 585	15
		1997	71 652	15 995	55 657	X
332312	Fabricated structural metal mfg	2001	422 337	95 938	326 398	6
		2000	411 898	105 190	306 708	4
		1999	400 308	115 541	284 767	4
		1998	301 811	60 862	240 949	4
		1997	297 513	72 061	225 452	X
332313	Plate work mfg	2001	96 318	12 287	84 031	12
		2000	95 703	12 140	83 562	12
		1999	95 391	16 886	78 505	10
		1998	78 124	10 392	67 732	14
		1997	77 255	15 841	61 414	X
33232	Ornamental & architectural metal products mfg	2001	908 486	122 219	786 267	4
		2000	970 331	124 427	845 903	3
		1999	1 024 614	125 253	899 361	4
		1998	994 627	150 083	844 544	6
		1997	821 544	148 046	673 498	X
332321	Metal window & door mfg	2001	252 475	35 245	217 230	5
		2000	253 678	32 776	220 902	5
		1999	272 179	31 930	240 248	5
		1998	299 437	42 982	256 455	15
		1997	189 269	40 850	148 419	X
332322	Sheet metal work mfg	2001	526 499	71 239	455 259	5
		2000	588 270	73 927	514 342	5
		1999	623 204	76 199	547 005	5
		1998	573 032	91 325	481 707	7
		1997	533 363	92 334	441 029	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
332	Fabricated metal product mfg—Con.					
3323	Architectural & structural metals mfg—Con.					
33232	Ornamental & architectural metal products mfg—Con.					
332323	Ornamental & architectural metal work mfg	2001..	129 513	15 735	113 777	8
		2000..	128 383	17 724	110 659	8
		1999..	129 231	17 124	112 107	8
		1998..	122 157	15 776	106 381	11
		1997..	98 912	14 862	84 050	X
3324	Boiler, tank, & shipping container mfg	2001..	529 761	57 488	472 273	5
		2000..	554 543	46 799	507 743	3
		1999..	602 918	109 784	493 133	7
		1998..	603 102	81 300	521 802	7
		1997..	583 680	79 745	503 935	X
33241	Power boiler & heat exchanger mfg	2001..	111 772	23 883	87 890	13
		2000..	97 268	11 397	85 871	12
		1999..	137 629	53 536	84 093	30
		1998..	122 638	28 957	93 681	28
		1997..	99 835	18 362	81 473	X
332410	Power boiler & heat exchanger mfg	2001..	111 772	23 883	87 890	13
		2000..	97 268	11 397	85 871	12
		1999..	137 629	53 536	84 093	30
		1998..	122 638	28 957	93 681	28
		1997..	99 835	18 362	81 473	X
33242	Metal tank (heavy gauge) mfg	2001..	93 239	8 122	85 117	7
		2000..	115 912	11 999	103 913	7
		1999..	133 415	17 633	115 781	8
		1998..	125 843	21 483	104 360	12
		1997..	122 434	27 573	94 861	X
332420	Metal tank (heavy gauge) mfg	2001..	93 239	8 122	85 117	7
		2000..	115 912	11 999	103 913	7
		1999..	133 415	17 633	115 781	8
		1998..	125 843	21 483	104 360	12
		1997..	122 434	27 573	94 861	X
33243	Metal can, box, & other metal container (light gauge) mfg	2001..	324 750	25 483	299 267	6
		2000..	341 363	23 404	317 959	4
		1999..	331 874	38 615	293 259	4
		1998..	354 621	30 860	323 761	5
		1997..	361 411	33 810	327 601	X
332431	Metal can mfg	2001..	275 620	20 883	254 737	6
		2000..	288 809	17 111	271 698	4
		1999..	249 360	14 511	234 850	3
		1998..	271 140	18 281	252 860	1
		1997..	302 869	22 722	280 147	X
332439	Other metal container mfg	2001..	49 130	4 600	44 530	14
		2000..	52 554	6 293	46 261	11
		1999..	82 514	24 104	58 410	13
		1998..	83 481	12 579	70 902	20
		1997..	58 542	11 088	47 454	X
3325	Hardware mfg	2001..	291 088	28 553	262 535	5
		2000..	391 798	52 641	339 156	6
		1999..	350 881	26 846	324 035	5
		1998..	352 695	25 834	326 862	6
		1997..	383 483	52 944	330 539	X
33251	Hardware mfg	2001..	291 088	28 553	262 535	5
		2000..	391 798	52 641	339 156	6
		1999..	350 881	26 846	324 035	5
		1998..	352 695	25 834	326 862	6
		1997..	383 483	52 944	330 539	X
332510	Hardware mfg	2001..	291 088	28 553	262 535	5
		2000..	391 798	52 641	339 156	6
		1999..	350 881	26 846	324 035	5
		1998..	352 695	25 834	326 862	6
		1997..	383 483	52 944	330 539	X
3326	Spring & wire product mfg	2001..	270 551	34 730	235 821	4
		2000..	297 876	36 642	261 233	4
		1999..	337 399	39 402	297 997	5
		1998..	346 446	48 110	298 336	10
		1997..	341 324	63 680	277 644	X
33261	Spring & wire product mfg	2001..	270 551	34 730	235 821	4
		2000..	297 876	36 642	261 233	4
		1999..	337 399	39 402	297 997	5
		1998..	346 446	48 110	298 336	10
		1997..	341 324	63 680	277 644	X
332611	Spring (heavy gauge) mfg	2001..	36 065	555	35 510	5
		2000..	31 204	1 040	30 164	14
		1999..	36 905	7 567	29 338	16
		1998..	43 498	8 343	35 155	41
		1997..	49 756	10 330	39 426	X
332612	Spring (light gauge) mfg	2001..	91 191	13 278	77 913	7
		2000..	104 186	13 448	90 739	9
		1999..	129 107	12 649	116 457	8
		1998..	154 219	21 158	133 060	15
		1997..	109 228	16 221	93 007	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
332	Fabricated metal product mfg—Con.					
3326	Spring & wire product mfg—Con.					
33261	Spring & wire product mfg—Con.					
332618	Other fabricated wire product mfg	2001..	143 296	20 897	122 399	7
		2000..	162 486	22 155	140 330	5
		1999..	171 387	19 185	152 202	6
		1998..	148 729	18 609	130 121	11
		1997..	182 340	37 129	145 211	X
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2001..	2 329 716	156 547	2 173 169	5
		2000..	2 866 509	256 992	2 609 517	4
		1999..	2 694 013	256 147	2 437 865	4
		1998..	2 708 835	293 670	2 415 165	5
		1997..	2 527 260	289 159	2 238 101	X
33271	Machine shops	2001..	1 624 485	95 286	1 529 199	7
		2000..	1 882 060	165 510	1 716 550	5
		1999..	1 736 842	176 725	1 560 117	5
		1998..	1 704 551	188 007	1 516 544	7
		1997..	1 552 641	178 571	1 374 070	X
332710	Machine shops	2001..	1 624 485	95 286	1 529 199	7
		2000..	1 882 060	165 510	1 716 550	5
		1999..	1 736 842	176 725	1 560 117	5
		1998..	1 704 551	188 007	1 516 544	7
		1997..	1 552 641	178 571	1 374 070	X
33272	Turned product & screw, nut, & bolt mfg	2001..	705 231	61 261	643 969	6
		2000..	984 449	91 482	892 967	5
		1999..	957 171	79 422	877 748	5
		1998..	1 004 284	105 662	898 622	8
		1997..	974 619	110 588	864 031	X
332721	Precision turned product mfg	2001..	431 944	40 364	391 579	6
		2000..	587 144	46 094	541 051	7
		1999..	582 423	37 985	544 439	7
		1998..	652 674	82 546	570 128	11
		1997..	578 189	68 462	509 727	X
332722	Bolt, nut, screw, rivet, & washer mfg	2001..	273 287	20 897	252 390	11
		2000..	397 304	45 388	351 916	7
		1999..	374 747	41 438	333 310	6
		1998..	351 610	23 116	328 494	6
		1997..	396 430	42 126	354 304	X
3328	Coating, engraving, heat treating, & allied activities	2001..	822 966	82 786	740 180	5
		2000..	807 496	115 420	692 076	3
		1999..	746 759	115 093	631 666	3
		1998..	986 566	131 336	855 230	7
		1997..	899 847	143 754	756 093	X
33281	Coating, engraving, heat treating, & allied activities	2001..	822 966	82 786	740 180	5
		2000..	807 496	115 420	692 076	3
		1999..	746 759	115 093	631 666	3
		1998..	986 566	131 336	855 230	7
		1997..	899 847	143 754	756 093	X
332811	Metal heat treating	2001..	356 964	22 699	334 264	11
		2000..	258 942	28 955	229 987	5
		1999..	198 607	35 263	163 344	6
		1998..	345 468	35 311	310 158	17
		1997..	292 270	39 083	253 187	X
332812	Metal coating/engraving (exc jewelry/ silverware)/allied services	2001..	251 927	41 893	210 033	5
		2000..	293 634	64 876	228 758	7
		1999..	301 286	58 865	242 421	6
		1998..	328 193	58 438	269 755	6
		1997..	313 368	46 200	267 168	X
332813	Electroplating, plating, polishing, anodizing, & coloring	2001..	214 076	18 194	195 882	5
		2000..	254 920	21 589	233 331	4
		1999..	246 867	20 964	225 902	5
		1998..	312 905	37 587	275 318	11
		1997..	294 209	58 471	235 738	X
3329	Other fabricated metal product mfg	2001..	1 556 078	194 431	1 361 647	2
		2000..	1 681 939	212 520	1 469 420	2
		1999..	1 648 204	211 878	1 436 325	2
		1998..	1 768 652	247 180	1 521 472	3
		1997..	1 753 827	237 461	1 516 366	X
33291	Metal valve mfg	2001..	639 063	94 152	544 911	3
		2000..	671 934	90 753	581 181	3
		1999..	672 574	88 276	584 299	4
		1998..	758 579	123 819	634 761	7
		1997..	756 074	111 586	644 488	X
332911	Industrial valve mfg	2001..	286 772	36 005	250 766	5
		2000..	302 694	34 002	268 692	5
		1999..	293 140	30 082	263 057	9
		1998..	336 126	50 617	285 509	10
		1997..	317 610	50 086	267 524	X
332912	Fluid power valve & hose fitting mfg	2001..	202 479	35 940	166 539	5
		2000..	217 929	34 280	183 649	4
		1999..	213 589	32 696	180 893	4
		1998..	241 403	41 307	200 096	11
		1997..	244 431	33 993	210 438	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
332	Fabricated metal product mfg—Con.					
3329	Other fabricated metal product mfg—Con.					
33291	Metal valve mfg—Con.					
332913	Plumbing fixture fitting & trim mfg	2001	56 407	4 851	51 556	7
		2000	57 079	4 839	52 240	7
		1999	68 805	8 584	60 221	11
		1998	78 365	6 448	71 917	28
		1997	85 463	7 220	78 243	X
332919	Other metal valve & pipe fitting mfg	2001	93 405	17 356	76 049	6
		2000	94 232	17 631	76 601	8
		1999	97 041	16 913	80 127	8
		1998	102 685	25 446	77 238	9
		1997	108 570	20 287	88 283	X
33299	All other fabricated metal product mfg	2001	917 015	100 278	816 737	3
		2000	1 010 005	121 767	888 238	3
		1999	975 629	123 603	852 027	3
		1998	1 010 073	123 362	886 711	4
		1997	997 753	125 875	871 878	X
332991	Ball & roller bearing mfg	2001	270 072	18 217	251 856	5
		2000	288 349	19 684	268 665	4
		1999	295 149	26 491	268 658	5
		1998	330 986	39 816	291 170	6
		1997	309 041	35 669	273 372	X
332992	Small arms ammunition mfg	2001	20 116	987	19 129	6
		2000	37 218	2 166	35 052	4
		1999	33 813	4 541	29 272	3
		1998	20 406	2 299	18 107	1
		1997	26 740	2 564	24 176	X
332993	Ammunition (except small arms) mfg	2001	14 696	1 641	13 055	5
		2000	28 941	5 366	23 576	10
		1999	26 939	4 360	22 579	6
		1998	28 960	5 114	23 846	5
		1997	27 963	3 531	24 432	X
332994	Small arms mfg	2001	21 679	6 579	15 101	11
		2000	34 179	3 326	30 854	11
		1999	25 861	3 008	22 853	6
		1998	33 333	1 858	31 475	19
		1997	32 620	3 074	29 546	X
332995	Other ordnance & accessories mfg	2001	19 736	2 586	17 150	2
		2000	15 946	1 753	14 194	3
		1999	19 411	1 485	17 926	2
		1998	19 142	3 006	16 136	6
		1997	18 035	2 238	15 797	X
332996	Fabricated pipe & pipe fitting mfg	2001	117 612	9 313	108 299	8
		2000	122 617	12 868	109 750	7
		1999	111 155	9 384	101 771	7
		1998	147 541	20 174	127 367	9
		1997	146 922	25 452	121 470	X
332997	Industrial pattern mfg	2001	22 401	4 459	17 941	13
		2000	31 824	2 252	29 573	7
		1999	28 531	1 325	27 205	9
		1998	35 269	4 991	30 278	21
		1997	35 643	3 406	32 237	X
332998	Enameled iron & metal sanitary ware mfg	2001	32 582	1 626	30 956	10
		2000	39 445	8 899	30 546	12
		1999	38 753	8 280	30 472	3
		1998	42 965	3 343	39 622	1
		1997	53 323	3 975	49 348	X
332999	All other miscellaneous fabricated metal product mfg	2001	398 121	54 871	343 250	7
		2000	411 484	65 454	346 030	6
		1999	396 018	64 728	331 290	6
		1998	351 472	42 761	308 711	7
		1997	347 466	45 966	301 500	X
333	Machinery mfg	2001	8 322 249	1 469 366	6 852 882	2
		2000	9 267 396	1 564 670	7 702 725	2
		1999	9 298 438	1 598 713	7 699 725	2
		1998	9 527 555	1 725 118	7 802 437	2
		1997	8 835 703	1 666 492	7 169 211	X
3331	Agriculture, construction, & mining machinery mfg	2001	1 145 257	190 985	954 272	2
		2000	1 204 870	261 871	942 999	3
		1999	1 255 913	195 432	1 060 481	5
		1998	1 500 942	279 960	1 220 982	4
		1997	1 477 965	257 867	1 220 098	X
33311	Agricultural implement mfg	2001	491 695	55 593	436 103	4
		2000	503 252	99 363	403 889	4
		1999	462 820	56 043	406 777	5
		1998	677 242	123 453	553 789	9
		1997	693 333	114 158	579 175	X
333111	Farm machinery & equipment mfg	2001	332 230	43 840	288 389	5
		2000	348 593	79 746	268 847	6
		1999	332 334	50 152	282 183	6
		1998	439 579	54 050	385 529	5
		1997	508 933	88 904	420 029	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
333	Machinery mfg—Con.					
3331	Agriculture, construction, & mining machinery mfg—Con.					
33311	Agricultural implement mfg—Con.					
333112	Lawn & garden tractor & home lawn & garden equipment mfg	2001	159 466	11 752	147 714	6
		2000	154 659	19 617	135 042	2
		1999	130 485	5 891	124 594	4
		1998	237 663	69 403	168 261	24
		1997	184 400	25 254	159 146	X
33312	Construction machinery mfg	2001	399 733	79 451	320 283	4
		2000	499 580	107 438	392 142	6
		1999	572 739	90 621	482 119	10
		1998	584 693	116 239	468 454	4
		1997	492 550	108 289	384 261	X
333120	Construction machinery mfg	2001	399 733	79 451	320 283	4
		2000	499 580	107 438	392 142	6
		1999	572 739	90 621	482 119	10
		1998	584 693	116 239	468 454	4
		1997	492 550	108 289	384 261	X
33313	Mining & oil & gas field machinery mfg	2001	253 828	55 941	197 887	4
		2000	202 038	55 070	146 968	6
		1999	220 354	48 769	171 586	8
		1998	239 007	40 268	198 739	5
		1997	292 082	35 420	256 662	X
333131	Mining machinery & equipment mfg	2001	39 074	4 648	34 426	8
		2000	44 358	5 191	39 168	20
		1999	57 653	8 753	48 900	13
		1998	40 462	5 019	35 443	7
		1997	62 942	11 460	51 482	X
333132	Oil & gas field machinery & equipment mfg	2001	214 755	51 293	163 461	5
		2000	157 679	49 879	107 800	5
		1999	162 701	40 016	122 686	9
		1998	198 544	35 249	163 295	6
		1997	229 140	23 960	205 180	X
3332	Industrial machinery mfg	2001	1 427 591	416 117	1 011 474	4
		2000	1 522 409	414 786	1 107 623	4
		1999	1 385 722	409 600	976 123	3
		1998	1 607 183	547 732	1 059 450	6
		1997	1 439 653	383 490	1 056 163	X
33321	Sawmill & woodworking machinery mfg	2001	20 009	805	19 205	14
		2000	29 224	3 707	25 517	11
		1999	40 953	5 717	35 236	10
		1998	35 043	2 910	32 133	19
		1997	18 078	2 426	15 652	X
333210	Sawmill & woodworking machinery mfg	2001	20 009	805	19 205	14
		2000	29 224	3 707	25 517	11
		1999	40 953	5 717	35 236	10
		1998	35 043	2 910	32 133	19
		1997	18 078	2 426	15 652	X
33322	Plastics & rubber industry machinery mfg	2001	96 892	21 496	75 396	12
		2000	109 169	28 570	80 599	13
		1999	106 107	26 466	79 640	17
		1998	91 385	9 201	82 184	23
		1997	92 781	19 802	72 979	X
333220	Plastics & rubber industry machinery mfg	2001	96 892	21 496	75 396	12
		2000	109 169	28 570	80 599	13
		1999	106 107	26 466	79 640	17
		1998	91 385	9 201	82 184	23
		1997	92 781	19 802	72 979	X
33329	Other industrial machinery mfg	2001	1 310 689	393 816	916 874	4
		2000	1 384 016	382 508	1 001 507	4
		1999	1 238 662	377 416	861 246	3
		1998	1 480 754	535 621	945 133	7
		1997	1 328 794	361 262	967 532	X
333291	Paper industry machinery mfg	2001	70 723	6 416	64 307	6
		2000	79 151	10 037	69 115	9
		1999	79 048	7 947	71 101	11
		1998	80 239	14 919	65 319	7
		1997	92 590	15 656	76 934	X
333292	Textile machinery mfg	2001	34 995	3 165	31 830	15
		2000	63 152	4 909	58 244	23
		1999	54 101	3 316	50 785	24
		1998	54 913	6 773	48 140	18
		1997	55 108	6 048	49 060	X
333293	Printing machinery & equipment mfg	2001	96 337	30 943	65 393	5
		2000	91 097	16 554	74 543	4
		1999	79 465	12 117	67 347	7
		1998	87 757	11 575	76 181	13
		1997	104 415	20 420	83 995	X
333294	Food product machinery mfg	2001	50 249	7 702	42 548	13
		2000	57 913	5 292	52 621	10
		1999	70 573	5 955	64 619	6
		1998	61 636	9 772	51 864	21
		1997	79 890	18 770	61 120	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
333	Machinery mfg—Con.					
3332	Industrial machinery mfg—Con.					
33329	Other industrial machinery mfg—Con.					
333295	Semiconductor machinery mfg	2001	823 875	317 289	506 587	6
		2000	814 273	306 258	508 015	5
		1999	664 181	296 608	367 573	2
		1998	980 608	451 832	528 777	9
		1997	683 608	238 567	445 041	X
333298	All other industrial machinery mfg	2001	234 510	28 301	206 209	10
		2000	278 429	39 460	238 969	10
		1999	291 294	51 473	239 821	10
		1998	215 601	40 749	174 852	17
		1997	313 183	61 801	251 382	X
3333	Commercial & service industry machinery mfg	2001	945 121	158 735	786 387	15
		2000	803 136	129 665	673 471	15
		1999	779 150	133 994	645 156	8
		1998	815 741	187 700	628 041	7
		1997	852 640	166 898	685 742	X
33331	Commercial & service industry machinery mfg	2001	945 121	158 735	786 387	15
		2000	803 136	129 665	673 471	15
		1999	779 150	133 994	645 156	8
		1998	815 741	187 700	628 041	7
		1997	852 640	166 898	685 742	X
333311	Automatic vending machine mfg	2001	79 350	4 978	74 371	51
		2000	81 534	5 163	76 372	48
		1999	95 665	8 184	87 481	53
		1998	24 158	3 823	20 334	5
		1997	31 938	7 448	24 490	X
333312	Commercial laundry, drycleaning, & pressing machine mfg	2001	24 505	3 070	21 435	28
		2000	23 263	3 092	20 170	31
		1999	21 538	1 925	19 613	35
		1998	45 291	5 531	39 760	1
		1997	4 212	282	3 930	X
333313	Office machinery mfg	2001	54 653	6 185	48 468	7
		2000	43 924	1 796	42 128	13
		1999	52 121	6 935	45 185	9
		1998	62 191	9 133	53 058	10
		1997	113 565	16 302	97 263	X
333314	Optical instrument & lens mfg	2001	474 702	77 189	397 513	27
		2000	312 584	47 581	265 003	35
		1999	213 988	36 387	177 601	14
		1998	173 134	40 591	132 543	7
		1997	172 152	26 351	145 801	X
333315	Photographic & photocopying equipment mfg	2001	59 402	11 337	48 066	10
		2000	64 865	11 653	53 212	10
		1999	125 849	19 871	105 978	6
		1998	241 866	61 260	180 605	21
		1997	281 641	56 897	224 744	X
333319	Other commercial & service industry machinery mfg	2001	252 510	55 977	196 533	9
		2000	276 967	60 381	216 586	8
		1999	269 990	60 692	209 298	4
		1998	269 102	67 361	201 741	8
		1997	249 132	59 618	189 514	X
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	2001	1 004 144	167 375	836 769	4
		2000	1 073 695	163 914	909 781	4
		1999	1 078 809	157 502	921 307	3
		1998	1 048 331	112 644	935 687	5
		1997	780 414	146 182	634 232	X
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	2001	1 004 144	167 375	836 769	4
		2000	1 073 695	163 914	909 781	4
		1999	1 078 809	157 502	921 307	3
		1998	1 048 331	112 644	935 687	5
		1997	780 414	146 182	634 232	X
333411	Air purification equipment mfg	2001	56 869	7 720	49 149	8
		2000	81 940	16 292	65 648	8
		1999	59 186	10 510	48 676	15
		1998	94 167	29 391	64 776	38
		1997	70 118	18 638	51 480	X
333412	Industrial & commercial fan & blower mfg	2001	55 133	24 389	30 744	29
		2000	43 869	3 974	39 895	6
		1999	57 115	10 458	46 657	5
		1998	49 644	8 877	40 766	16
		1997	54 985	13 405	41 580	X
333414	Heating equipment (except warm air furnaces) mfg	2001	143 751	11 475	132 276	7
		2000	149 396	10 305	139 091	6
		1999	140 280	9 157	131 123	6
		1998	273 737	23 681	250 056	8
		1997	89 555	20 412	69 143	X
333415	AC & warm air heating & commercial/industrial refrig equip mfg	2001	748 390	123 790	624 600	4
		2000	798 489	133 343	665 147	5
		1999	822 227	127 377	694 851	3
		1998	630 783	50 695	580 089	4
		1997	565 756	93 727	472 029	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
333	Machinery mfg—Con.					
3335	Metalworking machinery mfg	2001..	1 002 505	116 079	886 426	3
		2000..	1 477 914	124 175	1 353 738	4
		1999..	1 592 113	201 601	1 390 512	4
		1998..	1 596 384	212 619	1 383 765	4
		1997..	1 464 396	228 867	1 235 529	X
33351	Metalworking machinery mfg	2001..	1 002 505	116 079	886 426	3
		2000..	1 477 914	124 175	1 353 738	4
		1999..	1 592 113	201 601	1 390 512	4
		1998..	1 596 384	212 619	1 383 765	4
		1997..	1 464 396	228 867	1 235 529	X
333511	Industrial mold mfg	2001..	222 584	23 215	199 369	10
		2000..	344 044	26 740	317 304	8
		1999..	396 433	42 147	354 286	10
		1998..	371 366	27 039	344 327	13
		1997..	357 109	37 768	319 341	X
333512	Machine tool (metal cutting types) mfg	2001..	106 835	12 792	94 043	13
		2000..	146 852	16 994	129 858	10
		1999..	186 081	26 276	159 806	9
		1998..	224 532	29 011	195 522	10
		1997..	142 228	46 425	95 803	X
333513	Machine tool (metal forming types) mfg	2001..	36 819	8 903	27 916	7
		2000..	54 244	7 558	46 685	9
		1999..	68 134	21 264	46 870	14
		1998..	102 898	44 515	58 384	12
		1997..	92 014	29 850	62 164	X
333514	Special die & tool, die set, jig, & fixture mfg	2001..	350 962	31 254	319 708	5
		2000..	553 968	31 484	522 485	8
		1999..	543 449	52 082	491 367	8
		1998..	500 909	66 110	434 800	6
		1997..	500 675	64 462	436 213	X
333515	Cutting tool & machine tool accessory mfg	2001..	202 053	19 680	182 374	5
		2000..	283 320	20 417	262 903	5
		1999..	300 107	37 187	262 919	6
		1998..	301 136	29 096	272 040	10
		1997..	275 851	30 516	245 335	X
333516	Rolling mill machinery & equipment mfg	2001..	14 640	1 004	13 636	14
		2000..	21 338	1 238	20 100	7
		1999..	21 474	1 231	20 243	20
		1998..	13 766	1 562	12 204	21
		1997..	17 278	2 236	15 042	X
333518	Other metalworking machinery mfg	2001..	68 611	19 232	49 380	6
		2000..	74 147	19 745	54 402	8
		1999..	76 434	21 413	55 022	10
		1998..	81 776	15 288	66 488	12
		1997..	79 241	17 610	61 631	X
3336	Engine, turbine, & power transmission equipment mfg	2001..	1 232 840	112 152	1 120 688	3
		2000..	1 392 489	115 497	1 276 991	2
		1999..	1 348 001	108 770	1 239 231	5
		1998..	1 192 270	82 535	1 109 736	1
		1997..	1 056 406	146 808	909 598	X
33361	Engine, turbine, & power transmission equipment mfg	2001..	1 232 840	112 152	1 120 688	3
		2000..	1 392 489	115 497	1 276 991	2
		1999..	1 348 001	108 770	1 239 231	5
		1998..	1 192 270	82 535	1 109 736	1
		1997..	1 056 406	146 808	909 598	X
333611	Turbine & turbine generator set unit mfg	2001..	358 849	18 101	340 747	6
		2000..	322 223	40 123	282 100	3
		1999..	309 024	27 366	281 657	20
		1998..	305 890	26 002	279 888	2
		1997..	177 434	16 832	160 602	X
333612	Speed changer, industrial high-speed drive, & gear mfg	2001..	59 449	8 827	50 623	6
		2000..	79 341	14 656	64 685	9
		1999..	95 558	10 431	85 127	9
		1998..	85 251	8 089	77 162	10
		1997..	116 178	14 582	101 596	X
333613	Mechanical power transmission equipment mfg	2001..	122 354	44 730	77 625	23
		2000..	115 136	8 572	106 564	11
		1999..	148 674	12 762	135 912	16
		1998..	119 315	10 988	108 327	5
		1997..	132 116	22 244	109 872	X
333618	Other engine equipment mfg	2001..	692 187	40 494	651 693	3
		2000..	875 788	52 146	823 642	3
		1999..	794 746	58 211	736 535	3
		1998..	681 814	37 456	644 359	1
		1997..	630 678	93 150	537 528	X
3339	Other general-purpose machinery mfg	2001..	1 564 790	307 925	1 256 866	2
		2000..	1 792 883	354 762	1 438 121	3
		1999..	1 858 730	391 814	1 466 916	2
		1998..	1 766 704	301 928	1 464 776	4
		1997..	1 764 229	336 380	1 427 849	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
333	Machinery mfg—Con.					
3339	Other general-purpose machinery mfg—Con.					
33391	Pump & compressor mfg	2001..	366 253	42 585	323 668	3
		2000..	441 960	74 869	367 091	7
		1999..	438 241	53 931	384 310	3
		1998..	448 763	50 599	398 164	13
		1997..	389 341	57 859	331 482	X
333911	Pump & pumping equipment mfg	2001..	186 513	30 232	156 280	5
		2000..	237 281	60 480	176 800	10
		1999..	190 467	34 287	156 180	6
		1998..	227 359	24 797	202 563	8
		1997..	187 479	18 550	168 929	X
333912	Air & gas compressor mfg	2001..	149 271	11 916	137 356	4
		2000..	178 022	13 707	164 314	12
		1999..	207 641	11 650	195 991	3
		1998..	192 160	22 902	169 258	28
		1997..	169 494	37 139	132 355	X
333913	Measuring & dispensing pump mfg	2001..	30 469	437	30 032	3
		2000..	26 657	681	25 976	4
		1999..	40 133	7 994	32 139	3
		1998..	29 243	2 901	26 343	9
		1997..	32 368	2 170	30 198	X
33392	Material handling equipment mfg	2001..	395 655	128 237	267 418	4
		2000..	409 198	149 951	259 248	4
		1999..	442 739	153 185	289 554	3
		1998..	341 935	95 476	246 459	6
		1997..	415 238	118 554	296 684	X
333921	Elevator & moving stairway mfg	2001..	41 139	12 125	29 014	20
		2000..	42 875	20 198	22 677	20
		1999..	42 856	19 017	23 839	8
		1998..	50 463	20 893	29 571	6
		1997..	40 247	9 778	30 469	X
333922	Conveyor & conveying equipment mfg	2001..	124 357	37 868	86 490	8
		2000..	138 293	54 291	84 002	6
		1999..	167 548	69 010	98 538	7
		1998..	125 220	36 471	88 750	13
		1997..	149 846	44 901	104 945	X
333923	Overhead traveling crane, hoist, & monorail system mfg	2001..	116 492	46 280	70 213	9
		2000..	124 117	52 397	71 720	7
		1999..	106 628	36 378	70 250	6
		1998..	62 494	16 983	45 511	7
		1997..	85 247	26 721	58 526	X
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	2001..	113 666	31 964	81 702	5
		2000..	103 913	23 065	80 848	4
		1999..	125 707	28 780	96 927	5
		1998..	103 758	21 130	82 628	9
		1997..	139 898	37 154	102 744	X
33399	All other general-purpose machinery mfg	2001..	802 882	137 103	665 780	3
		2000..	941 725	129 942	811 782	3
		1999..	977 750	184 699	793 052	4
		1998..	976 006	155 853	820 153	4
		1997..	959 650	159 967	799 683	X
333991	Power-driven handtool mfg	2001..	90 621	9 836	80 785	5
		2000..	116 809	9 199	107 610	6
		1999..	103 887	5 203	98 684	4
		1998..	100 504	10 655	89 849	1
		1997..	129 232	18 484	110 748	X
333992	Welding & soldering equipment mfg	2001..	98 464	20 356	78 108	11
		2000..	103 533	19 740	83 793	20
		1999..	69 527	7 766	61 762	11
		1998..	83 873	12 432	71 441	3
		1997..	122 871	23 279	99 592	X
333993	Packaging machinery mfg	2001..	73 657	5 376	68 281	17
		2000..	87 447	7 149	80 299	11
		1999..	92 101	20 668	71 434	7
		1998..	113 234	19 818	93 416	13
		1997..	122 256	22 953	99 303	X
333994	Industrial process furnace & oven mfg	2001..	47 499	6 463	41 036	14
		2000..	74 671	5 959	68 712	16
		1999..	100 501	33 242	67 259	12
		1998..	46 774	4 194	42 580	21
		1997..	65 381	17 045	48 336	X
333995	Fluid power cylinder & actuator mfg	2001..	96 417	17 584	78 833	4
		2000..	135 322	22 344	112 978	7
		1999..	151 748	19 579	132 169	4
		1998..	158 487	30 935	127 552	19
		1997..	111 723	9 935	101 788	X
333996	Fluid power pump & motor mfg	2001..	78 564	6 025	72 539	5
		2000..	110 033	7 313	102 720	13
		1999..	113 979	11 661	102 318	11
		1998..	143 708	11 509	132 199	14
		1997..	112 115	20 875	91 240	X
333997	Scale & balance (except laboratory) mfg	2001..	6 356	412	5 944	12
		2000..	10 967	1 106	9 861	16
		1999..	20 443	4 344	16 099	21
		1998..	29 688	8 203	21 485	38
		1997..	10 804	1 413	9 391	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
333	Machinery mfg—Con.					
3339	Other general-purpose machinery mfg—Con.					
33399	All other general-purpose machinery mfg—Con.					
333999	All other miscellaneous general-purpose machinery mfg	2001..	311 304	71 051	240 253	3
		2000..	302 942	57 133	245 810	3
		1999..	325 563	82 236	243 327	8
		1998..	299 739	58 108	241 631	4
		1997..	285 268	45 983	239 285	X
334	Computer & electronic product mfg	2001..	25 504 690	6 356 181	19 148 509	5
		2000..	28 059 285	5 662 009	22 397 276	2
		1999..	21 292 623	3 373 339	17 919 284	1
		1998..	22 804 697	4 294 627	18 510 070	2
		1997..	24 768 490	4 416 765	20 351 725	X
3341	Computer & peripheral equipment mfg	2001..	1 887 211	214 567	1 672 644	2
		2000..	2 501 440	350 621	2 150 820	1
		1999..	2 677 857	506 872	2 170 985	4
		1998..	3 389 122	568 259	2 820 863	1
		1997..	3 455 102	601 307	2 853 795	X
33411	Computer & peripheral equipment mfg	2001..	1 887 211	214 567	1 672 644	2
		2000..	2 501 440	350 621	2 150 820	1
		1999..	2 677 857	506 872	2 170 985	4
		1998..	3 389 122	568 259	2 820 863	1
		1997..	3 455 102	601 307	2 853 795	X
334111	Electronic computer mfg	2001..	470 420	55 089	415 331	1
		2000..	823 616	168 876	654 739	1
		1999..	717 885	226 705	491 180	1
		1998..	696 178	261 374	434 804	1
		1997..	1 065 684	140 245	925 439	X
334112	Computer storage device mfg	2001..	592 088	54 898	537 190	6
		2000..	680 067	79 328	600 739	4
		1999..	916 068	156 848	759 220	2
		1998..	1 200 602	173 608	1 026 994	1
		1997..	1 386 644	322 025	1 064 619	X
334113	Computer terminal mfg	2001..	37 113	2 259	34 854	40
		2000..	59 307	217	59 090	27
		1999..	67 407	1 159	66 248	53
		1998..	30 697	1 762	28 935	14
		1997..	34 716	6 287	28 429	X
334119	Other computer peripheral equipment mfg	2001..	787 589	102 320	685 269	3
		2000..	938 450	102 199	836 251	2
		1999..	976 497	122 160	854 336	10
		1998..	1 461 646	131 516	1 330 130	3
		1997..	968 058	132 750	835 308	X
3342	Communications equipment mfg	2001..	4 757 658	1 319 394	3 438 265	28
		2000..	3 987 820	597 253	3 390 567	8
		1999..	3 124 896	404 551	2 720 346	3
		1998..	3 304 255	665 545	2 638 710	8
		1997..	3 210 281	546 008	2 664 273	X
33421	Telephone apparatus mfg	2001..	2 832 632	854 648	1 977 985	47
		2000..	1 748 101	232 778	1 515 322	8
		1999..	1 643 858	221 279	1 422 579	4
		1998..	1 329 885	383 592	946 293	1
		1997..	1 220 355	188 818	1 031 537	X
334210	Telephone apparatus mfg	2001..	2 832 632	854 648	1 977 985	47
		2000..	1 748 101	232 778	1 515 322	8
		1999..	1 643 858	221 279	1 422 579	4
		1998..	1 329 885	383 592	946 293	1
		1997..	1 220 355	188 818	1 031 537	X
33422	Radio & TV broadcasting & wireless communications equipment mfg	2001..	1 778 556	437 307	1 341 249	5
		2000..	2 107 237	346 487	1 760 750	14
		1999..	1 334 028	169 632	1 164 396	5
		1998..	1 749 425	266 937	1 482 488	15
		1997..	1 841 106	324 453	1 516 653	X
334220	Radio & TV broadcasting & wireless communications equipment mfg	2001..	1 778 556	437 307	1 341 249	5
		2000..	2 107 237	346 487	1 760 750	14
		1999..	1 334 028	169 632	1 164 396	5
		1998..	1 749 425	266 937	1 482 488	15
		1997..	1 841 106	324 453	1 516 653	X
33429	Other communications equipment mfg	2001..	146 470	27 439	119 031	6
		2000..	132 483	17 988	114 495	6
		1999..	147 011	13 640	133 371	6
		1998..	224 945	15 016	209 929	6
		1997..	148 820	32 737	116 083	X
334290	Other communications equipment mfg	2001..	146 470	27 439	119 031	6
		2000..	132 483	17 988	114 495	6
		1999..	147 011	13 640	133 371	6
		1998..	224 945	15 016	209 929	6
		1997..	148 820	32 737	116 083	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
334	Computer & electronic product mfg—Con.					
3343	Audio & video equipment mfg	2001	256 392	26 939	229 452	3
		2000	187 965	30 533	157 432	8
		1999	174 760	18 258	156 502	6
		1998	167 144	20 836	146 309	8
		1997	207 897	57 272	150 625	X
33431	Audio & video equipment mfg	2001	256 392	26 939	229 452	3
		2000	187 965	30 533	157 432	8
		1999	174 760	18 258	156 502	6
		1998	167 144	20 836	146 309	8
		1997	207 897	57 272	150 625	X
334310	Audio & video equipment mfg	2001	256 392	26 939	229 452	3
		2000	187 965	30 533	157 432	8
		1999	174 760	18 258	156 502	6
		1998	167 144	20 836	146 309	8
		1997	207 897	57 272	150 625	X
3344	Semiconductor & other electronic component mfg	2001	14 559 269	3 657 925	10 901 344	2
		2000	17 467 544	3 923 508	13 544 036	2
		1999	11 472 795	1 774 023	9 698 772	2
		1998	11 779 277	2 389 201	9 390 076	2
		1997	14 033 279	2 516 667	11 516 612	X
33441	Semiconductor & other electronic component mfg	2001	14 559 269	3 657 925	10 901 344	2
		2000	17 467 544	3 923 508	13 544 036	2
		1999	11 472 795	1 774 023	9 698 772	2
		1998	11 779 277	2 389 201	9 390 076	2
		1997	14 033 279	2 516 667	11 516 612	X
334411	Electron tube mfg	2001	162 027	14 831	147 196	2
		2000	84 595	10 470	74 124	2
		1999	104 761	16 543	88 218	1
		1998	121 733	13 023	108 710	4
		1997	159 621	48 853	110 768	X
334412	Bare printed circuit board mfg	2001	575 807	126 415	449 392	6
		2000	738 783	87 746	651 038	5
		1999	687 556	94 783	592 773	7
		1998	747 589	95 181	652 408	15
		1997	609 125	107 308	501 817	X
334413	Semiconductor & related device mfg	2001	12 159 637	3 145 809	9 013 827	2
		2000	14 583 636	3 481 061	11 102 574	2
		1999	9 155 459	1 441 006	7 714 453	2
		1998	9 267 530	2 047 393	7 220 137	2
		1997	11 531 803	2 127 957	9 403 846	X
334414	Electronic capacitor mfg	2001	144 146	21 548	122 598	18
		2000	281 460	19 270	262 191	13
		1999	122 002	8 986	113 015	13
		1998	158 673	15 161	143 512	11
		1997	127 856	17 099	110 757	X
334415	Electronic resistor mfg	2001	43 728	1 011	42 716	3
		2000	42 265	985	41 280	4
		1999	32 572	1 247	31 325	9
		1998	58 128	3 926	54 202	10
		1997	55 435	6 875	48 560	X
334416	Electronic coil, transformer, & other inductor mfg	2001	28 414	1 247	27 167	7
		2000	52 362	4 822	47 539	9
		1999	50 304	9 053	41 251	11
		1998	58 130	12 539	45 591	12
		1997	36 859	6 012	30 847	X
334417	Electronic connector mfg	2001	274 226	42 763	231 463	13
		2000	301 473	30 009	271 464	8
		1999	237 204	19 888	217 315	12
		1998	338 160	47 946	290 214	9
		1997	233 327	23 790	209 537	X
334418	Printed circuit assembly (electronic assembly) mfg	2001	691 059	194 465	496 595	4
		2000	923 329	239 095	684 233	8
		1999	701 574	152 437	549 137	5
		1998	706 571	120 447	586 124	7
		1997	862 227	131 744	730 483	X
334419	Other electronic component mfg	2001	480 225	109 834	370 390	16
		2000	459 642	50 050	409 592	5
		1999	381 364	30 079	351 285	5
		1998	322 762	33 584	289 178	3
		1997	417 026	47 029	369 997	X
3345	Navigational, measuring, medical, & control instruments mfg	2001	3 479 696	1 058 662	2 421 034	3
		2000	3 231 557	687 864	2 543 694	2
		1999	3 083 441	583 245	2 500 196	2
		1998	3 395 508	565 183	2 830 325	4
		1997	3 005 990	569 474	2 436 516	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
334	Computer & electronic product mfg—Con.					
3345	Navigational, measuring, medical, & control instruments mfg—Con.					
33451	Navigational, measuring, medical, & control instruments mfg	2001	3 479 696	1 058 662	2 421 034	3
		2000	3 231 557	687 864	2 543 694	2
		1999	3 083 441	583 245	2 500 196	2
		1998	3 395 508	565 183	2 830 325	4
		1997	3 005 990	569 474	2 436 516	X
334510	Electromedical & electrotherapeutic apparatus mfg	2001	374 877	74 389	300 488	15
		2000	363 001	67 443	295 558	4
		1999	351 717	68 585	283 132	5
		1998	440 843	72 321	368 522	12
		1997	432 245	78 726	353 519	X
334511	Search, detection, navigation, & guidance instrument mfg	2001	1 104 750	149 787	954 963	3
		2000	1 022 159	166 214	855 945	3
		1999	1 011 519	152 902	858 617	2
		1998	1 158 007	194 338	963 669	10
		1997	1 021 048	186 724	834 324	X
334512	Automatic environmental control mfg	2001	85 997	5 642	80 356	8
		2000	88 695	6 568	82 127	5
		1999	85 863	5 491	80 372	4
		1998	115 185	11 954	103 231	7
		1997	114 952	11 523	103 429	X
334513	Industrial process control instrument mfg	2001	158 065	21 794	136 271	6
		2000	174 821	17 162	157 659	3
		1999	219 806	40 987	178 819	7
		1998	305 734	37 307	268 427	8
		1997	208 434	33 144	175 290	X
334514	Totalizing fluid meter & counting device mfg	2001	75 564	12 998	62 566	9
		2000	116 763	13 604	103 160	8
		1999	128 096	10 437	117 659	6
		1998	131 307	12 466	118 841	6
		1997	116 807	11 228	105 579	X
334515	Electricity measuring & testing instrument mfg	2001	1 115 885	619 088	496 797	7
		2000	794 593	250 886	543 706	3
		1999	662 766	158 224	504 542	2
		1998	647 572	132 528	515 044	4
		1997	667 632	165 244	502 388	X
334516	Analytical laboratory instrument mfg	2001	315 203	120 529	194 674	15
		2000	303 470	52 051	251 419	11
		1999	305 732	64 573	241 159	14
		1998	329 347	59 146	270 200	3
		1997	207 449	44 868	162 581	X
334517	Irradiation apparatus mfg	2001	103 813	30 487	73 326	9
		2000	128 800	38 460	90 339	11
		1999	121 874	32 124	89 750	10
		1998	72 170	4 721	67 449	1
		1997	75 942	8 710	67 232	X
334518	Watch, clock, & part mfg	2001	23 634	997	22 637	8
		2000	44 131	12 270	31 861	3
		1999	37 743	7 376	30 367	6
		1998	30 855	6 492	24 363	11
		1997	26 215	4 792	21 423	X
334519	Other measuring & controlling device mfg	2001	121 907	22 951	98 956	9
		2000	195 124	63 205	131 919	14
		1999	158 323	42 545	115 779	12
		1998	164 489	33 911	130 579	7
		1997	135 266	24 515	110 751	X
3346	Mfg & reproducing magnetic & optical media	2001	564 465	78 695	485 770	5
		2000	682 959	72 231	610 727	3
		1999	758 874	86 391	672 483	7
		1998	769 391	85 603	683 788	5
		1997	855 941	126 037	729 904	X
33461	Mfg & reproducing magnetic & optical media	2001	564 465	78 695	485 770	5
		2000	682 959	72 231	610 727	3
		1999	758 874	86 391	672 483	7
		1998	769 391	85 603	683 788	5
		1997	855 941	126 037	729 904	X
334611	Software reproducing	2001	36 517	1 316	35 201	6
		2000	47 666	3 934	43 733	10
		1999	71 299	4 406	66 892	22
		1998	104 733	5 036	99 697	25
		1997	133 552	13 050	120 502	X
334612	Prerecorded CD (except software), tape, & record reproducing	2001	387 927	65 989	321 938	7
		2000	374 028	29 979	344 049	5
		1999	383 440	48 332	335 108	12
		1998	353 222	41 626	311 596	7
		1997	282 507	33 232	249 275	X
334613	Magnetic & optical recording media mfg	2001	140 020	11 389	128 631	5
		2000	261 264	38 319	222 945	1
		1999	304 135	33 652	270 483	4
		1998	311 435	38 940	272 495	2
		1997	439 882	79 755	360 127	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
335	Electrical equipment, appliance, & component mfg	2001	3 391 354	395 930	2 995 425	2
		2000	3 855 439	456 629	3 398 810	2
		1999	3 680 176	499 063	3 181 113	2
		1998	4 012 230	637 653	3 374 577	3
		1997	3 598 750	650 198	2 948 552	X
3351	Electric lighting equipment mfg	2001	323 926	19 760	304 165	6
		2000	386 027	40 442	345 586	6
		1999	394 683	81 474	313 209	6
		1998	404 994	46 513	358 481	10
		1997	406 549	74 995	331 554	X
33511	Electric lamp bulb & part mfg	2001	108 913	2 068	106 845	3
		2000	121 592	2 858	118 733	16
		1999	84 540	3 341	81 198	9
		1998	143 941	2 611	141 330	5
		1997	173 922	17 354	156 568	X
335110	Electric lamp bulb & part mfg	2001	108 913	2 068	106 845	3
		2000	121 592	2 858	118 733	16
		1999	84 540	3 341	81 198	9
		1998	143 941	2 611	141 330	5
		1997	173 922	17 354	156 568	X
33512	Lighting fixture mfg	2001	215 013	17 692	197 320	8
		2000	264 436	37 583	226 852	4
		1999	310 143	78 133	232 010	7
		1998	261 053	43 902	217 151	15
		1997	232 627	57 641	174 986	X
335121	Residential electric lighting fixture mfg	2001	41 296	1 698	39 598	10
		2000	64 800	7 449	57 352	10
		1999	90 621	10 494	80 127	13
		1998	115 952	13 011	102 941	30
		1997	59 419	10 648	48 771	X
335122	Commercial/industrial/institutional electric lighting fixture mfg	2001	83 957	12 386	71 571	6
		2000	104 036	15 320	88 716	5
		1999	103 224	32 647	70 577	9
		1998	55 363	7 554	47 808	7
		1997	96 057	32 939	63 118	X
335129	Other lighting equipment mfg	2001	89 760	3 608	86 152	19
		2000	95 599	14 815	80 785	9
		1999	116 298	34 992	81 306	14
		1998	89 738	23 336	66 402	23
		1997	77 151	14 054	63 097	X
3352	Household appliance mfg	2001	624 821	45 523	579 297	1
		2000	695 808	53 673	642 135	2
		1999	597 481	63 971	533 510	2
		1998	650 523	74 044	576 479	14
		1997	501 700	63 386	438 314	X
33521	Small electrical appliance mfg	2001	133 560	20 956	112 604	4
		2000	160 376	12 023	148 353	6
		1999	126 512	11 450	115 063	4
		1998	174 930	8 123	166 806	27
		1997	171 302	30 392	140 910	X
335211	Electric housewares & household fan mfg	2001	39 848	6 988	32 861	8
		2000	46 659	2 641	44 018	11
		1999	54 689	5 302	49 386	7
		1998	92 631	3 195	89 436	50
		1997	85 862	5 923	79 939	X
335212	Household vacuum cleaner mfg	2001	93 711	13 968	79 743	4
		2000	113 717	9 382	104 335	8
		1999	71 824	6 147	65 677	3
		1998	82 299	4 929	77 370	3
		1997	85 440	24 469	60 971	X
33522	Major appliance mfg	2001	491 261	24 567	466 694	1
		2000	535 432	41 650	493 782	2
		1999	470 968	52 521	418 447	2
		1998	475 593	65 921	409 673	16
		1997	330 398	32 994	297 404	X
335221	Household cooking appliance mfg	2001	101 778	8 535	93 243	3
		2000	120 517	15 041	105 476	3
		1999	119 439	15 965	103 474	3
		1998	214 299	38 291	176 008	35
		1997	135 343	21 886	113 457	X
335222	Household refrigerator & home freezer mfg	2001	197 013	4 325	192 688	1
		2000	247 994	11 626	236 368	1
		1999	165 969	12 607	153 362	1
		1998	108 540	6 794	101 747	2
		1997	92 679	5 121	87 558	X
335224	Household laundry equipment mfg	2001	97 009	3 549	93 460	1
		2000	78 720	5 178	73 542	1
		1999	99 795	6 819	92 976	1
		1998	84 598	4 935	79 663	2
		1997	37 355	2 901	34 454	X
335228	Other major household appliance mfg	2001	95 461	8 159	87 303	3
		2000	88 201	9 805	78 396	13
		1999	85 765	17 131	68 634	11
		1998	68 156	15 901	52 255	1
		1997	65 021	3 086	61 935	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
335	Electrical equipment, appliance, & component mfg—Con.					
3353	Electrical equipment mfg	2001..	702 413	104 296	598 116	4
		2000..	762 004	77 099	684 905	2
		1999..	808 296	90 568	717 729	2
		1998..	1 158 368	181 669	976 699	7
		1997..	988 597	177 096	811 501	X
33531	Electrical equipment mfg	2001..	702 413	104 296	598 116	4
		2000..	762 004	77 099	684 905	2
		1999..	808 296	90 568	717 729	2
		1998..	1 158 368	181 669	976 699	7
		1997..	988 597	177 096	811 501	X
335311	Power, distribution, & specialty transformer mfg	2001..	76 987	18 242	58 745	6
		2000..	100 774	8 960	91 814	8
		1999..	100 215	8 795	91 420	4
		1998..	140 889	21 597	119 292	24
		1997..	131 848	31 048	100 800	X
335312	Motor & generator mfg	2001..	208 165	11 378	196 787	3
		2000..	231 697	16 668	215 030	4
		1999..	257 851	22 120	235 730	4
		1998..	393 660	28 871	364 790	8
		1997..	322 255	36 837	285 418	X
335313	Switchgear & switchboard apparatus mfg	2001..	196 791	33 571	163 220	13
		2000..	193 327	8 406	184 921	3
		1999..	175 190	10 286	164 904	3
		1998..	206 397	18 031	188 366	2
		1997..	195 408	36 790	158 618	X
335314	Relay & industrial control mfg	2001..	220 469	41 104	179 364	5
		2000..	236 205	43 065	193 140	5
		1999..	275 041	49 366	225 675	5
		1998..	417 421	113 171	304 251	14
		1997..	339 086	72 421	266 665	X
3359	Other electrical equipment & component mfg	2001..	1 740 195	226 350	1 513 846	3
		2000..	2 011 600	285 415	1 726 185	4
		1999..	1 879 716	263 050	1 616 666	3
		1998..	1 798 346	335 428	1 462 918	2
		1997..	1 701 904	334 721	1 367 183	X
33591	Battery mfg	2001..	242 310	28 475	213 836	5
		2000..	396 214	41 212	355 002	11
		1999..	335 296	48 022	287 274	4
		1998..	237 795	30 698	207 097	1
		1997..	301 863	86 837	215 026	X
335911	Storage battery mfg	2001..	118 746	13 772	104 974	9
		2000..	237 896	30 180	207 716	8
		1999..	192 318	25 084	167 233	7
		1998..	121 576	14 925	106 651	3
		1997..	171 670	62 393	109 277	X
335912	Primary battery mfg	2001..	123 565	14 703	108 862	3
		2000..	158 317	11 032	147 285	26
		1999..	142 978	22 938	120 040	5
		1998..	116 219	15 773	100 446	1
		1997..	130 193	24 444	105 749	X
33592	Communication & energy wire & cable mfg	2001..	871 430	123 944	747 486	6
		2000..	881 373	130 515	750 858	6
		1999..	852 493	124 341	728 152	6
		1998..	754 197	170 935	583 262	3
		1997..	608 850	108 407	500 443	X
335921	Fiber optic cable mfg	2001..	407 422	60 032	347 390	4
		2000..	373 969	75 436	298 534	4
		1999..	339 192	51 850	287 342	13
		1998..	305 567	106 980	198 587	1
		1997..	192 201	27 194	165 007	X
335929	Other communication & energy wire mfg	2001..	464 008	63 912	400 096	10
		2000..	507 404	55 079	452 325	9
		1999..	513 300	72 491	440 809	5
		1998..	448 629	63 954	384 675	6
		1997..	416 649	81 213	335 436	X
33593	Wiring device mfg	2001..	297 282	32 699	264 584	4
		2000..	381 547	37 883	343 665	5
		1999..	390 465	44 056	346 409	5
		1998..	380 541	70 430	310 111	5
		1997..	380 729	55 033	325 696	X
335931	Current-carrying wiring device mfg	2001..	173 959	18 271	155 688	5
		2000..	207 548	17 792	189 756	6
		1999..	248 988	18 326	230 661	8
		1998..	239 322	41 991	197 331	6
		1997..	219 293	35 755	183 538	X
335932	Noncurrent-carrying wiring device mfg	2001..	123 323	14 427	108 896	7
		2000..	173 999	20 090	153 909	8
		1999..	141 477	25 729	115 748	4
		1998..	141 218	28 439	112 780	6
		1997..	161 436	19 278	142 158	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
335	Electrical equipment, appliance, & component mfg—Con.					
3359	Other electrical equipment & component mfg—Con.					
33599	All other electrical equipment & component mfg	2001	329 173	41 233	287 940	9
		2000	352 466	75 805	276 660	5
		1999	301 463	46 631	254 832	5
		1998	425 813	63 365	362 448	7
		1997	410 462	84 444	326 018	X
335991	Carbon & graphite product mfg	2001	57 691	6 780	50 911	7
		2000	80 773	11 048	69 725	12
		1999	89 666	12 508	77 158	6
		1998	141 539	14 862	126 677	7
		1997	179 043	32 267	146 776	X
335999	All other miscellaneous electrical equipment & component mfg	2001	271 482	34 453	237 029	10
		2000	271 692	64 757	206 935	5
		1999	211 796	34 122	177 674	6
		1998	284 274	48 503	235 771	10
		1997	231 419	52 177	179 242	X
336	Transportation equipment mfg	2001	16 716 651	2 314 178	14 402 473	1
		2000	17 608 330	2 673 096	14 935 234	1
		1999	19 101 266	2 924 819	16 176 447	1
		1998	20 052 505	2 369 085	17 683 421	1
		1997	19 251 148	2 662 948	16 588 200	X
3361	Motor vehicle mfg	2001	4 461 256	564 156	3 897 100	1
		2000	4 777 786	689 232	4 088 554	1
		1999	4 773 500	761 540	4 011 960	1
		1998	5 383 772	504 606	4 879 166	1
		1997	5 406 609	525 445	4 881 164	X
33611	Automobile & light duty motor vehicle mfg	2001	3 956 385	387 207	3 569 178	1
		2000	4 479 351	634 272	3 845 079	1
		1999	4 529 455	686 153	3 843 302	1
		1998	5 252 299	462 823	4 789 476	1
		1997	5 276 317	499 489	4 776 828	X
336111	Automobile mfg	2001	2 261 347	126 220	2 135 128	1
		2000	1 984 031	197 482	1 786 549	1
		1999	1 759 967	281 355	1 478 612	1
		1998	3 173 617	219 702	2 953 915	1
		1997	3 506 831	269 252	3 237 579	X
336112	Light truck & utility vehicle mfg	2001	1 695 038	260 987	1 434 051	1
		2000	2 495 320	436 790	2 058 530	1
		1999	2 769 488	404 798	2 364 690	1
		1998	2 078 682	243 121	1 835 561	1
		1997	1 769 486	230 237	1 539 249	X
33612	Heavy duty truck mfg	2001	504 871	176 949	327 922	1
		2000	298 435	54 959	243 475	1
		1999	244 045	75 386	168 658	1
		1998	131 474	41 783	89 691	1
		1997	130 292	25 956	104 336	X
336120	Heavy duty truck mfg	2001	504 871	176 949	327 922	1
		2000	298 435	54 959	243 475	1
		1999	244 045	75 386	168 658	1
		1998	131 474	41 783	89 691	1
		1997	130 292	25 956	104 336	X
3362	Motor vehicle body & trailer mfg	2001	503 324	216 488	286 836	9
		2000	588 149	238 500	349 649	5
		1999	463 661	148 440	315 221	4
		1998	377 752	114 916	262 837	6
		1997	441 084	140 498	300 586	X
33621	Motor vehicle body & trailer mfg	2001	503 324	216 488	286 836	9
		2000	588 149	238 500	349 649	5
		1999	463 661	148 440	315 221	4
		1998	377 752	114 916	262 837	6
		1997	441 084	140 498	300 586	X
336211	Motor vehicle body mfg	2001	319 972	146 913	173 058	13
		2000	303 749	141 457	162 292	8
		1999	152 676	41 981	110 695	8
		1998	135 995	23 065	112 931	12
		1997	228 212	63 323	164 889	X
336212	Truck trailer mfg	2001	71 556	22 630	48 927	9
		2000	122 107	23 214	98 893	9
		1999	167 018	53 079	113 939	5
		1998	139 051	49 877	89 174	10
		1997	89 524	20 731	68 793	X
336213	Motor home mfg	2001	20 113	5 017	15 096	5
		2000	44 698	21 027	23 671	12
		1999	44 341	15 229	29 112	15
		1998	32 393	10 900	21 493	6
		1997	50 170	25 075	25 095	X
336214	Travel trailer & camper mfg	2001	91 683	41 928	49 754	16
		2000	117 595	52 803	64 792	8
		1999	99 627	38 151	61 476	9
		1998	70 313	31 074	39 239	16
		1997	73 178	31 369	41 809	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
336	Transportation equipment mfg—Con.					
3363	Motor vehicle parts mfg	2001..	8 390 380	803 457	7 586 923	2
		2000..	8 863 021	880 593	7 982 429	2
		1999..	9 464 281	733 864	8 730 416	2
		1998..	9 830 802	757 261	9 073 541	1
		1997..	9 489 436	906 462	8 582 974	X
33631	Motor vehicle gasoline engine & engine parts mfg	2001..	1 514 844	85 150	1 429 695	2
		2000..	1 334 020	135 167	1 198 853	4
		1999..	1 464 332	84 131	1 380 201	3
		1998..	1 798 421	126 132	1 672 289	1
		1997..	1 962 556	206 197	1 756 359	X
336311	Carburetor, piston, piston ring, & valve mfg	2001..	122 719	6 637	116 082	13
		2000..	114 055	5 097	108 958	13
		1999..	197 270	7 789	189 481	8
		1998..	199 256	7 777	191 479	7
		1997..	180 295	12 242	168 053	X
336312	Gasoline engine & engine parts mfg	2001..	1 392 125	78 512	1 313 613	2
		2000..	1 219 965	130 070	1 089 895	4
		1999..	1 267 061	76 342	1 190 719	3
		1998..	1 599 164	118 355	1 480 810	1
		1997..	1 782 261	193 955	1 588 306	X
33632	Motor vehicle electrical & electronic equipment mfg	2001..	617 041	36 576	580 465	4
		2000..	655 607	56 458	599 149	3
		1999..	826 390	73 293	753 096	8
		1998..	832 244	51 967	780 276	3
		1997..	909 229	76 077	833 152	X
336321	Vehicular lighting equipment mfg	2001..	76 467	9 529	66 938	4
		2000..	83 351	14 508	68 844	7
		1999..	93 612	11 470	82 141	7
		1998..	117 262	9 637	107 625	2
		1997..	169 380	10 964	158 416	X
336322	Other motor vehicle electrical & electronic equipment mfg	2001..	540 573	27 047	513 527	4
		2000..	572 256	41 950	530 305	3
		1999..	732 778	61 823	670 955	9
		1998..	714 981	42 330	672 651	3
		1997..	739 849	65 113	674 736	X
33633	Motor vehicle steering & suspension component (except spring) mfg	2001..	539 158	110 180	428 978	6
		2000..	482 102	29 472	452 630	7
		1999..	553 155	50 122	503 033	9
		1998..	583 414	33 023	550 391	3
		1997..	551 299	29 746	521 553	X
336330	Motor vehicle steering & suspension component (except spring) mfg	2001..	539 158	110 180	428 978	6
		2000..	482 102	29 472	452 630	7
		1999..	553 155	50 122	503 033	9
		1998..	583 414	33 023	550 391	3
		1997..	551 299	29 746	521 553	X
33634	Motor vehicle brake system mfg	2001..	384 807	35 180	349 627	4
		2000..	455 007	39 606	415 401	3
		1999..	406 223	38 847	367 375	4
		1998..	505 226	35 420	469 806	5
		1997..	484 338	52 738	431 600	X
336340	Motor vehicle brake system mfg	2001..	384 807	35 180	349 627	4
		2000..	455 007	39 606	415 401	3
		1999..	406 223	38 847	367 375	4
		1998..	505 226	35 420	469 806	5
		1997..	484 338	52 738	431 600	X
33635	Motor vehicle transmission & power train parts mfg	2001..	1 618 963	138 353	1 480 610	6
		2000..	1 808 497	98 507	1 709 990	4
		1999..	1 924 695	95 461	1 829 234	2
		1998..	2 247 349	86 111	2 161 238	4
		1997..	1 876 751	101 797	1 774 954	X
336350	Motor vehicle transmission & power train parts mfg	2001..	1 618 963	138 353	1 480 610	6
		2000..	1 808 497	98 507	1 709 990	4
		1999..	1 924 695	95 461	1 829 234	2
		1998..	2 247 349	86 111	2 161 238	4
		1997..	1 876 751	101 797	1 774 954	X
33636	Motor vehicle seating & interior trim mfg	2001..	249 989	32 435	217 554	4
		2000..	305 972	43 863	262 109	4
		1999..	353 153	41 988	311 165	7
		1998..	332 998	44 280	288 718	6
		1997..	310 711	37 170	273 541	X
336360	Motor vehicle seating & interior trim mfg	2001..	249 989	32 435	217 554	4
		2000..	305 972	43 863	262 109	4
		1999..	353 153	41 988	311 165	7
		1998..	332 998	44 280	288 718	6
		1997..	310 711	37 170	273 541	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
336	Transportation equipment mfg—Con.					
3363	Motor vehicle parts mfg—Con.					
33637	Motor vehicle metal stamping	2001..	1 322 807	168 337	1 154 470	4
		2000..	1 445 013	173 952	1 271 061	4
		1999..	1 582 398	141 896	1 440 501	4
		1998..	1 382 363	150 219	1 232 145	3
		1997..	1 515 648	142 136	1 373 512	X
336370	Motor vehicle metal stamping	2001..	1 322 807	168 337	1 154 470	4
		2000..	1 445 013	173 952	1 271 061	4
		1999..	1 582 398	141 896	1 440 501	4
		1998..	1 382 363	150 219	1 232 145	3
		1997..	1 515 648	142 136	1 373 512	X
33639	Other motor vehicle parts mfg	2001..	2 142 772	197 246	1 945 526	6
		2000..	2 376 804	303 568	2 073 236	7
		1999..	2 353 935	208 125	2 145 810	6
		1998..	2 148 787	230 108	1 918 679	3
		1997..	1 878 904	260 601	1 618 303	X
336391	Motor vehicle air-conditioning mfg	2001..	248 486	25 333	223 153	3
		2000..	243 141	25 693	217 448	4
		1999..	360 823	28 535	332 288	3
		1998..	259 407	25 765	233 642	3
		1997..	188 566	15 255	173 311	X
336399	All other motor vehicle parts mfg	2001..	1 894 285	171 913	1 722 373	7
		2000..	2 133 664	277 876	1 855 788	8
		1999..	1 993 112	179 590	1 813 522	7
		1998..	1 889 380	204 343	1 685 037	4
		1997..	1 690 338	245 346	1 444 992	X
3364	Aerospace product & parts mfg	2001..	2 448 635	504 748	1 943 887	2
		2000..	2 326 266	512 126	1 814 140	2
		1999..	3 421 619	985 300	2 436 318	2
		1998..	3 477 012	822 340	2 654 672	2
		1997..	3 132 055	892 757	2 239 298	X
33641	Aerospace product & parts mfg	2001..	2 448 635	504 748	1 943 887	2
		2000..	2 326 266	512 126	1 814 140	2
		1999..	3 421 619	985 300	2 436 318	2
		1998..	3 477 012	822 340	2 654 672	2
		1997..	3 132 055	892 757	2 239 298	X
336411	Aircraft mfg	2001..	569 104	181 804	387 300	1
		2000..	616 902	217 022	399 879	2
		1999..	767 755	260 056	507 698	1
		1998..	904 433	305 901	598 532	3
		1997..	774 858	348 942	425 916	X
336412	Aircraft engine & engine parts mfg	2001..	895 672	89 952	805 720	4
		2000..	695 490	63 377	632 113	5
		1999..	787 085	98 771	688 314	3
		1998..	733 431	74 247	659 184	2
		1997..	679 800	80 170	599 630	X
336413	Other aircraft part & auxiliary equipment mfg	2001..	594 047	109 155	484 892	5
		2000..	581 761	104 397	477 365	7
		1999..	782 733	164 501	618 232	6
		1998..	975 201	154 826	820 375	6
		1997..	925 054	186 247	738 807	X
336414	Guided missile & space vehicle mfg	2001..	271 628	98 740	172 888	1
		2000..	320 001	103 870	216 131	1
		1999..	906 188	421 795	484 393	1
		1998..	700 155	260 963	439 192	1
		1997..	634 227	250 228	383 999	X
336415	Guided missile & space vehicle propulsion unit & parts mfg	2001..	97 660	21 636	76 024	1
		2000..	101 595	21 273	80 322	1
		1999..	162 045	37 154	124 891	1
		1998..	124 765	20 756	104 009	1
		1997..	89 321	21 982	67 339	X
336419	Other guided missile & space vehicle parts & auxiliary equip mfg	2001..	20 524	3 461	17 063	2
		2000..	10 517	2 187	8 330	2
		1999..	15 814	3 023	12 791	1
		1998..	39 028	5 648	33 380	2
		1997..	28 795	5 188	23 607	X
3365	Railroad rolling stock mfg	2001..	169 596	37 604	131 992	16
		2000..	202 951	42 315	160 636	14
		1999..	219 516	41 113	178 403	3
		1998..	201 617	30 606	171 011	1
		1997..	197 174	22 488	174 686	X
33651	Railroad rolling stock mfg	2001..	169 596	37 604	131 992	16
		2000..	202 951	42 315	160 636	14
		1999..	219 516	41 113	178 403	3
		1998..	201 617	30 606	171 011	1
		1997..	197 174	22 488	174 686	X
336510	Railroad rolling stock mfg	2001..	169 596	37 604	131 992	16
		2000..	202 951	42 315	160 636	14
		1999..	219 516	41 113	178 403	3
		1998..	201 617	30 606	171 011	1
		1997..	197 174	22 488	174 686	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
336	Transportation equipment mfg—Con.					
3366	Ship & boat building	2001	475 871	144 013	331 858	7
		2000	603 282	276 137	327 144	3
		1999	517 608	231 838	285 770	4
		1998	511 735	105 773	405 962	3
		1997	365 644	126 008	239 636	X
33661	Ship & boat building	2001	475 871	144 013	331 858	7
		2000	603 282	276 137	327 144	3
		1999	517 608	231 838	285 770	4
		1998	511 735	105 773	405 962	3
		1997	365 644	126 008	239 636	X
336611	Ship building & repairing	2001	328 231	101 373	226 859	10
		2000	414 293	235 878	178 415	3
		1999	285 908	154 800	131 108	3
		1998	248 780	85 198	163 582	4
		1997	243 713	92 929	150 784	X
336612	Boat building	2001	147 639	42 640	104 999	7
		2000	188 989	40 259	148 729	8
		1999	231 700	77 038	154 661	9
		1998	262 955	20 575	242 380	3
		1997	121 931	33 079	88 852	X
3369	Other transportation equipment mfg	2001	267 589	43 712	223 877	4
		2000	246 874	34 192	212 682	5
		1999	241 081	22 724	218 358	4
		1998	269 815	33 584	236 231	5
		1997	219 146	49 290	169 856	X
33699	Other transportation equipment mfg	2001	267 589	43 712	223 877	4
		2000	246 874	34 192	212 682	5
		1999	241 081	22 724	218 358	4
		1998	269 815	33 584	236 231	5
		1997	219 146	49 290	169 856	X
336991	Motorcycle, bicycle, & parts mfg	2001	130 106	26 343	103 763	7
		2000	113 322	14 803	98 520	10
		1999	117 460	6 988	110 473	7
		1998	131 758	9 607	122 151	9
		1997	104 621	19 512	85 109	X
336992	Military armored vehicle, tank, & tank component mfg	2001	15 072	1 277	13 794	1
		2000	16 828	1 364	15 463	1
		1999	17 358	3 336	14 022	2
		1998	15 735	5 006	10 729	10
		1997	17 298	6 000	11 298	X
336999	All other transportation equipment mfg	2001	122 412	16 091	106 320	4
		2000	116 724	18 025	98 699	5
		1999	106 263	12 400	93 863	6
		1998	122 322	18 970	103 352	5
		1997	97 227	23 778	73 449	X
337	Furniture & related product mfg	2001	1 577 651	303 588	1 274 063	2
		2000	2 052 607	403 575	1 649 032	2
		1999	2 166 206	538 526	1 627 679	3
		1998	1 917 153	459 139	1 458 014	4
		1997	1 744 608	373 001	1 371 607	X
3371	Household & institutional furniture & kitchen cabinet mfg	2001	854 487	175 730	678 757	3
		2000	1 031 487	246 928	784 559	2
		1999	1 114 961	334 402	780 559	5
		1998	880 485	206 866	673 619	4
		1997	865 458	202 037	663 421	X
33711	Wood kitchen cabinet & counter top mfg	2001	333 068	73 952	259 116	5
		2000	358 100	74 857	283 243	5
		1999	368 339	95 656	272 683	6
		1998	243 012	56 179	186 833	5
		1997	248 242	55 287	192 955	X
337110	Wood kitchen cabinet & counter top mfg	2001	333 068	73 952	259 116	5
		2000	358 100	74 857	283 243	5
		1999	368 339	95 656	272 683	6
		1998	243 012	56 179	186 833	5
		1997	248 242	55 287	192 955	X
33712	Household & institutional furniture mfg	2001	521 419	101 778	419 641	3
		2000	673 388	172 071	501 317	2
		1999	746 622	238 746	507 876	7
		1998	637 473	150 687	486 786	5
		1997	617 216	146 750	470 466	X
337121	Upholstered household furniture mfg	2001	94 973	26 639	68 334	5
		2000	145 977	50 793	95 183	4
		1999	170 357	77 173	93 184	11
		1998	108 517	35 551	72 967	8
		1997	104 829	33 400	71 429	X
337122	Nonupholstered wood household furniture mfg	2001	238 450	53 541	184 909	4
		2000	279 183	49 608	229 574	4
		1999	346 571	118 070	228 502	12
		1998	274 012	56 383	217 629	6
		1997	296 600	69 508	227 092	X
337124	Metal household furniture mfg	2001	52 860	6 429	46 432	4
		2000	59 753	13 741	46 013	5
		1999	53 174	11 716	41 458	8
		1998	84 862	33 460	51 402	8
		1997	77 750	19 416	58 334	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
337	Furniture & related product mfg—Con.					
3371	Household & institutional furniture & kitchen cabinet mfg—Con.					
33712	Household & institutional furniture mfg—Con.					
337125	Household furniture (except wood & metal) mfg	2001..	11 752	3 382	8 370	11
		2000..	13 650	3 132	10 518	13
		1999..	27 189	6 513	20 676	33
		1998..	8 206	729	7 478	11
		1997..	13 152	1 661	11 491	X
337127	Institutional furniture mfg	2001..	115 611	11 600	104 011	9
		2000..	167 413	54 599	112 813	6
		1999..	141 727	23 071	118 655	10
		1998..	150 892	22 755	128 137	19
		1997..	118 083	22 346	95 737	X
337129	Wood television, radio, & sewing machine cabinet mfg	2001..	7 772	187	7 584	20
		2000..	7 413	197	7 215	23
		1999..	7 604	2 204	5 400	28
		1998..	10 983	1 809	9 174	49
		1997..	6 802	419	6 383	X
3372	Office furniture (including fixtures) mfg	2001..	592 085	96 414	495 671	5
		2000..	857 131	124 215	732 916	4
		1999..	879 459	175 166	704 293	4
		1998..	895 814	230 632	665 182	7
		1997..	709 894	127 515	582 379	X
33721	Office furniture (including fixtures) mfg	2001..	592 085	96 414	495 671	5
		2000..	857 131	124 215	732 916	4
		1999..	879 459	175 166	704 293	4
		1998..	895 814	230 632	665 182	7
		1997..	709 894	127 515	582 379	X
337211	Wood office furniture mfg	2001..	105 062	28 928	76 134	16
		2000..	158 360	56 285	102 075	9
		1999..	129 413	18 739	110 674	11
		1998..	160 813	45 957	114 856	6
		1997..	106 032	28 610	77 422	X
337212	Custom architectural woodwork & millwork mfg	2001..	44 563	4 181	40 381	11
		2000..	68 001	7 539	60 462	14
		1999..	61 022	8 472	52 550	13
		1998..	45 169	11 180	33 989	20
		1997..	56 025	13 622	42 403	X
337214	Office furniture (except wood) mfg	2001..	209 642	22 262	187 379	2
		2000..	332 200	28 050	304 150	2
		1999..	356 907	59 565	297 342	3
		1998..	364 160	71 664	292 496	3
		1997..	325 469	37 041	288 428	X
337215	Showcase, partition, shelving, & locker mfg	2001..	232 819	41 043	191 776	8
		2000..	298 571	32 342	266 229	9
		1999..	332 117	88 390	243 727	10
		1998..	325 672	101 831	223 841	18
		1997..	222 368	48 242	174 126	X
3379	Other furniture related product mfg	2001..	131 080	31 445	99 635	6
		2000..	163 988	32 432	131 557	9
		1999..	171 786	28 957	142 828	7
		1998..	140 855	21 641	119 213	7
		1997..	169 256	43 449	125 807	X
33791	Mattress mfg	2001..	49 978	2 484	47 494	13
		2000..	98 202	23 453	74 749	15
		1999..	93 984	13 219	80 766	9
		1998..	78 167	14 626	63 541	11
		1997..	124 841	27 356	97 485	X
337910	Mattress mfg	2001..	49 978	2 484	47 494	13
		2000..	98 202	23 453	74 749	15
		1999..	93 984	13 219	80 766	9
		1998..	78 167	14 626	63 541	11
		1997..	124 841	27 356	97 485	X
33792	Blind & shade mfg	2001..	81 102	28 961	52 141	5
		2000..	65 786	8 978	56 808	8
		1999..	77 801	15 739	62 062	11
		1998..	62 687	7 015	55 672	9
		1997..	44 415	16 093	28 322	X
337920	Blind & shade mfg	2001..	81 102	28 961	52 141	5
		2000..	65 786	8 978	56 808	8
		1999..	77 801	15 739	62 062	11
		1998..	62 687	7 015	55 672	9
		1997..	44 415	16 093	28 322	X
339	Miscellaneous mfg	2001..	4 168 901	745 360	3 423 541	2
		2000..	4 047 141	750 507	3 296 634	2
		1999..	4 015 098	729 117	3 285 981	2
		1998..	3 851 951	789 493	3 062 458	5
		1997..	3 432 599	632 488	2 800 111	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
339	Miscellaneous mfg—Con.					
3391	Medical equipment & supplies mfg	2001	2 396 246	497 087	1 899 159	3
		2000	2 205 487	471 945	1 733 542	3
		1999	2 113 636	414 303	1 699 333	3
		1998	2 037 622	456 487	1 581 135	9
		1997	1 705 516	322 713	1 382 803	X
33911	Medical equipment & supplies mfg	2001	2 396 246	497 087	1 899 159	3
		2000	2 205 487	471 945	1 733 542	3
		1999	2 113 636	414 303	1 699 333	3
		1998	2 037 622	456 487	1 581 135	9
		1997	1 705 516	322 713	1 382 803	X
339111	Laboratory apparatus & furniture mfg	2001	94 738	20 426	74 312	13
		2000	105 950	13 587	92 363	10
		1999	58 769	6 919	51 850	8
		1998	67 322	13 331	53 991	17
		1997	59 796	11 252	48 544	X
339112	Surgical & medical instrument mfg	2001	1 066 011	232 872	833 140	6
		2000	919 264	193 388	725 876	6
		1999	832 356	170 996	661 360	5
		1998	712 223	107 111	605 113	6
		1997	721 701	145 944	575 757	X
339113	Surgical appliance & supplies mfg	2001	770 090	173 223	596 867	4
		2000	724 640	200 992	523 648	7
		1999	762 976	168 604	594 372	6
		1998	801 738	240 065	561 673	22
		1997	565 014	109 910	455 104	X
339114	Dental equipment & supplies mfg	2001	122 276	26 492	95 784	24
		2000	82 314	25 851	56 462	14
		1999	80 470	14 302	66 168	10
		1998	85 662	22 750	62 912	7
		1997	71 565	13 488	58 077	X
339115	Ophthalmic goods mfg	2001	264 367	42 706	221 661	5
		2000	291 204	34 022	257 182	3
		1999	296 110	37 039	259 070	6
		1998	296 966	66 061	230 905	4
		1997	213 706	31 688	182 018	X
339116	Dental laboratories	2001	78 764	S	S	12
		2000	82 116	S	S	10
		1999	82 957	S	S	13
		1998	73 711	S	S	9
		1997	73 734	S	S	X
3399	Other miscellaneous mfg	2001	1 772 655	248 272	1 524 383	3
		2000	1 841 654	278 562	1 563 093	3
		1999	1 901 462	314 814	1 586 648	3
		1998	1 814 329	333 007	1 481 323	4
		1997	1 727 083	309 775	1 417 308	X
33991	Jewelry & silverware mfg	2001	147 288	22 834	124 454	5
		2000	176 185	37 309	138 875	7
		1999	129 994	14 433	115 561	5
		1998	128 861	17 000	111 861	5
		1997	113 945	19 162	94 783	X
339911	Jewelry (except costume) mfg	2001	104 841	20 852	83 988	7
		2000	114 312	19 969	94 343	11
		1999	75 476	9 510	65 966	8
		1998	60 761	13 351	47 410	9
		1997	61 191	11 503	49 688	X
339912	Silverware & plated ware mfg	2001	14 251	852	13 399	4
		2000	30 969	16 222	14 748	9
		1999	16 533	1 708	14 824	6
		1998	20 474	2 038	18 436	13
		1997	19 711	4 732	14 979	X
339913	Jewelers' material & lapidary work mfg	2001	9 893	617	9 276	11
		2000	9 282	403	8 879	10
		1999	16 089	1 782	14 307	5
		1998	10 037	596	9 442	26
		1997	11 465	790	10 675	X
339914	Costume jewelry & novelty mfg	2001	18 303	512	17 791	13
		2000	21 622	716	20 906	11
		1999	21 897	1 433	20 464	9
		1998	37 589	1 015	36 574	8
		1997	21 578	2 137	19 441	X
33992	Sporting & athletic goods mfg	2001	457 739	56 830	400 909	7
		2000	409 973	58 992	350 981	9
		1999	410 869	62 042	348 826	8
		1998	353 259	60 359	292 900	6
		1997	344 190	57 350	286 840	X
339920	Sporting & athletic goods mfg	2001	457 739	56 830	400 909	7
		2000	409 973	58 992	350 981	9
		1999	410 869	62 042	348 826	8
		1998	353 259	60 359	292 900	6
		1997	344 190	57 350	286 840	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[Thousand dollars. Data based on the 2001 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]

NAICS code	Industry group and industry		Total	Buildings and other structures	Machinery and equipment	Relative standard error of estimate[1] (percent) for column—
			A	B	C	A
339	Miscellaneous mfg—Con.					
3399	Other miscellaneous mfg—Con.					
33993	Doll, toy, & game mfg	2001..	93 216	12 780	80 436	13
		2000..	113 059	6 469	106 590	17
		1999..	126 052	28 756	97 295	15
		1998..	114 102	23 270	90 832	6
		1997..	137 430	17 772	119 658	X
339931	Doll & stuffed toy mfg	2001..	4 484	306	4 178	37
		2000..	6 676	270	6 406	23
		1999..	4 871	490	4 381	20
		1998..	2 438	1 076	1 362	6
		1997..	3 936	943	2 993	X
339932	Game, toy, & children's vehicle mfg	2001..	88 733	12 475	76 258	13
		2000..	106 383	6 199	100 184	18
		1999..	121 180	28 266	92 914	16
		1998..	111 664	22 194	89 470	7
		1997..	133 494	16 829	116 665	X
33994	Office supplies (except paper) mfg	2001..	106 108	10 845	95 263	4
		2000..	108 059	10 578	97 480	3
		1999..	130 270	9 535	120 735	3
		1998..	137 420	8 753	128 668	11
		1997..	120 477	17 363	103 114	X
339941	Pen & mechanical pencil mfg	2001..	44 292	3 704	40 588	7
		2000..	53 043	1 154	51 888	4
		1999..	64 839	3 323	61 516	3
		1998..	72 325	4 982	67 343	20
		1997..	52 784	8 622	44 162	X
339942	Lead pencil & art good mfg	2001..	25 704	2 981	22 724	7
		2000..	23 168	3 313	19 854	6
		1999..	31 354	1 423	29 931	3
		1998..	45 351	1 206	44 145	8
		1997..	30 530	4 390	26 140	X
339943	Marking device mfg	2001..	11 617	2 318	9 299	21
		2000..	7 548	399	7 149	11
		1999..	17 402	2 106	15 296	13
		1998..	3 428	597	2 831	16
		1997..	20 754	3 216	17 538	X
339944	Carbon paper & inked ribbon mfg	2001..	24 495	1 842	22 653	5
		2000..	24 300	5 711	18 589	4
		1999..	16 675	2 683	13 992	4
		1998..	16 316	1 968	14 349	10
		1997..	16 409	1 135	15 274	X
33995	Sign mfg	2001..	290 315	60 168	230 147	7
		2000..	349 672	66 067	283 605	7
		1999..	307 160	69 526	237 634	9
		1998..	179 145	33 085	146 060	13
		1997..	236 476	43 298	193 178	X
339950	Sign mfg	2001..	290 315	60 168	230 147	7
		2000..	349 672	66 067	283 605	7
		1999..	307 160	69 526	237 634	9
		1998..	179 145	33 085	146 060	13
		1997..	236 476	43 298	193 178	X
33999	All other miscellaneous mfg	2001..	677 988	84 815	593 173	4
		2000..	684 707	99 146	585 561	3
		1999..	797 118	130 522	666 596	5
		1998..	901 542	190 539	711 002	7
		1997..	774 565	154 830	619 735	X
339991	Gasket, packing, & sealing device mfg	2001..	215 415	34 395	181 020	6
		2000..	252 986	44 900	208 085	7
		1999..	228 488	37 952	190 536	7
		1998..	244 487	23 678	220 808	14
		1997..	203 930	25 462	178 468	X
339992	Musical instrument mfg	2001..	39 997	8 485	31 512	8
		2000..	37 948	9 047	28 901	11
		1999..	73 400	42 214	31 187	9
		1998..	57 183	22 769	34 414	18
		1997..	34 565	11 051	23 514	X
339993	Fastener, button, needle, & pin mfg	2001..	30 185	2 529	27 656	8
		2000..	36 949	772	36 177	5
		1999..	62 283	6 032	56 251	7
		1998..	55 954	8 480	47 475	6
		1997..	48 458	7 434	41 024	X
339994	Broom, brush, & mop mfg	2001..	63 303	7 809	55 495	9
		2000..	59 643	8 474	51 170	11
		1999..	88 247	7 523	80 724	8
		1998..	258 849	101 319	157 529	13
		1997..	90 013	13 108	76 905	X
339995	Burial casket mfg	2001..	18 121	1 577	16 544	18
		2000..	18 195	806	17 389	20
		1999..	17 834	2 266	15 568	11
		1998..	13 380	1 689	11 691	3
		1997..	27 416	4 354	23 062	X
339999	All other miscellaneous mfg	2001..	310 967	30 020	280 947	6
		2000..	278 986	35 146	243 839	4
		1999..	326 866	34 535	292 331	12
		1998..	271 689	32 604	239 085	11
		1997..	370 183	93 421	276 762	X

See footnotes at end of table.

Table 5. **Capital Expenditures for Plant and Equipment for Industry Groups and Industries: 2001 and Earlier Years**—Con.

[1]Description of relative standard error of estimate is given in Appendix B. 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 2000 Annual Survey of Manufactures (ASM) because of changes encountered in subsequent review of the 2001 ASM.

Note 2: The data in this table are based on the 2001 Annual Survey of Manufacturers (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. Data users who create their own estimates using data from American FactFinder tables should cite the U.S. Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix B.

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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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**	**2001..**	**441 526 420**	**160 343 479**	**126 026 161**	**155 156 780**	**463 329 863**	**164 718 497**	**133 623 395**	**164 987 971**	**1**	**1**	**1**	**1**
		2000..	**470 084 731**	**167 235 320**	**136 120 723**	**166 728 688**	**449 313 164**	**154 737 725**	**137 646 124**	**156 929 315**	**1**	**1**	**1**	**1**
		1999..	**452 799 510**	**156 563 884**	**137 825 261**	**158 410 365**	**438 846 781**	**149 958 851**	**137 375 768**	**151 512 162**	**1**	**1**	**1**	**1**
		1998..	**447 651 135**	**152 517 463**	**140 602 445**	**154 531 227**	**434 445 199**	**148 083 648**	**134 625 363**	**151 736 188**	**1**	**1**	**1**	**1**
		1997..	**433 448 730**	**147 646 704**	**133 710 385**	**152 091 641**	**419 977 777**	**142 400 832**	**132 553 508**	**145 023 437**	**X**	**X**	**X**	**X**
311	Food mfg	2001..	31 865 668	18 436 008	2 704 373	10 725 288	31 461 008	18 079 722	2 740 397	10 640 889	1	1	2	2
		2000..	31 882 893	18 218 499	2 928 168	10 736 227	30 750 051	16 989 694	2 759 289	11 001 067	1	1	3	1
		1999..	30 650 181	16 916 647	2 743 517	10 990 017	29 418 256	16 317 075	2 625 301	10 475 880	1	1	3	1
		1998..	30 222 932	16 748 128	2 803 931	10 670 872	30 153 602	16 631 673	3 031 757	10 490 172	1	1	2	1
		1997..	30 151 960	16 532 124	3 021 448	10 598 388	29 482 461	16 162 641	2 963 768	10 356 052	X	X	X	X
3111	Animal food mfg	2001..	1 379 308	606 032	166 297	606 978	1 343 929	600 350	141 168	602 410	3	5	7	5
		2000..	1 294 135	558 822	141 728	593 585	1 245 920	493 249	136 777	615 894	2	4	7	3
		1999..	1 186 347	475 545	150 596	560 206	1 106 336	447 390	146 827	512 120	2	4	5	4
		1998..	1 175 767	467 840	151 994	555 934	1 238 982	510 089	146 040	582 853	2	2	11	2
		1997..	1 240 108	493 710	174 921	571 477	1 217 963	511 473	118 248	588 242	X	X	X	X
31111	Animal food mfg	2001..	1 379 308	606 032	166 297	606 978	1 343 929	600 350	141 168	602 410	3	5	7	5
		2000..	1 294 135	558 822	141 728	593 585	1 245 920	493 249	136 777	615 894	2	4	7	3
		1999..	1 186 347	475 545	150 596	560 206	1 106 336	447 390	146 827	512 120	2	4	5	4
		1998..	1 175 767	467 840	151 994	555 934	1 238 982	510 089	146 040	582 853	2	2	11	2
		1997..	1 240 108	493 710	174 921	571 477	1 217 963	511 473	118 248	588 242	X	X	X	X
311111	Dog & cat food mfg	2001..	387 865	182 399	13 840	191 626	397 029	186 725	13 202	197 101	4	5	25	5
		2000..	418 083	190 835	13 267	213 981	410 603	189 516	10 178	210 908	3	5	28	3
		1999..	411 850	190 128	10 210	211 511	368 519	176 217	7 731	184 571	3	4	16	3
		1998..	389 260	180 754	10 323	198 184	397 389	202 351	6 251	188 787	1	1	17	1
		1997..	424 360	210 054	24 034	190 272	384 495	186 437	26 673	171 385	X	X	X	X
311119	Other animal food mfg	2001..	991 443	423 634	152 457	415 352	946 900	413 625	127 966	405 309	4	7	8	8
		2000..	876 052	367 987	128 461	379 604	835 317	303 733	126 599	404 986	3	6	8	5
		1999..	774 497	285 416	140 385	348 695	737 817	271 172	139 095	327 549	3	6	5	6
		1998..	786 507	287 086	141 671	357 750	841 592	307 738	139 789	394 066	4	4	11	3
		1997..	815 748	283 656	150 887	381 205	833 468	325 036	91 575	416 857	X	X	X	X
3112	Grain & oilseed milling	2001..	3 391 042	1 311 449	179 000	1 900 593	3 472 058	1 311 415	228 493	1 932 150	2	4	11	2
		2000..	3 456 493	1 285 229	242 683	1 928 581	3 500 199	1 106 048	240 299	2 153 851	2	5	7	3
		1999..	3 429 555	1 101 785	257 189	2 070 581	3 599 062	1 315 812	303 360	1 979 890	1	3	11	2
		1998..	3 798 945	1 414 726	328 864	2 055 355	3 957 152	1 440 566	354 028	2 162 558	1	3	5	2
		1997..	4 014 069	1 495 782	348 575	2 169 712	4 117 364	1 493 413	342 080	2 281 871	X	X	X	X
31121	Flour milling & malt mfg	2001..	958 164	236 424	44 750	676 989	1 030 138	250 433	54 810	724 895	4	12	4	2
		2000..	1 041 039	249 683	66 501	724 856	1 040 048	229 769	86 162	724 117	2	7	3	2
		1999..	1 024 006	230 028	87 096	706 882	1 017 802	267 851	89 912	660 040	3	10	4	2
		1998..	1 095 996	302 730	85 141	708 125	1 207 560	341 557	111 174	754 829	3	7	19	5
		1997..	1 214 408	346 066	110 746	757 596	1 232 321	339 155	107 918	785 248	X	X	X	X
311211	Flour milling	2001..	524 050	125 274	9 234	389 542	536 114	119 148	11 109	405 857	6	22	8	3
		2000..	545 703	123 277	17 485	404 940	528 168	116 977	14 230	396 961	4	13	4	2
		1999..	511 757	114 756	15 441	381 559	562 575	121 190	13 812	427 573	5	19	18	2
		1998..	582 955	109 438	14 814	458 702	601 080	129 822	14 971	456 287	3	3	4	4
		1997..	607 466	132 706	14 358	460 402	615 535	141 180	13 734	460 621	X	X	X	X
311212	Rice milling	2001..	305 836	60 667	11 744	233 424	359 056	80 343	21 515	257 198	4	11	15	3
		2000..	360 327	80 585	21 638	258 104	392 858	78 145	52 664	262 049	3	9	9	3
		1999..	396 969	82 354	52 619	261 996	337 635	91 034	56 847	189 754	3	9	3	4
		1998..	335 518	98 918	38 472	198 128	396 695	130 319	58 170	208 206	7	4	43	8
		1997..	397 255	131 222	58 218	207 815	391 725	111 852	43 571	236 302	X	X	X	X
311213	Malt mfg	2001..	128 278	50 483	23 772	54 023	134 967	50 942	22 186	61 840	3	5	1	2
		2000..	135 009	45 821	27 377	61 811	119 022	34 647	19 269	65 107	3	6	1	2
		1999..	115 280	32 918	19 036	63 327	117 592	55 627	19 253	42 713	4	8	2	2
		1998..	177 523	94 373	31 856	51 295	209 785	81 416	38 033	90 336	6	21	5	56
		1997..	209 687	82 138	38 170	89 379	225 061	86 123	50 613	88 325	X	X	X	X
31122	Starch & vegetable fats & oils mfg	2001..	2 037 139	962 326	123 705	951 108	2 037 302	934 602	162 331	940 368	3	5	16	3
		2000..	2 023 002	915 443	164 797	942 762	2 101 325	760 988	137 795	1 202 541	4	6	10	3
		1999..	2 053 169	758 104	153 767	1 141 298	2 243 051	928 133	202 950	1 111 968	2	3	19	3
		1998..	2 376 289	993 884	240 397	1 142 007	2 398 355	986 565	238 808	1 172 982	1	3	1	1
		1997..	2 429 508	1 008 132	233 964	1 187 412	2 557 535	1 032 119	231 639	1 293 777	X	X	X	X
311221	Wet corn milling	2001..	550 185	295 348	44 288	210 549	533 911	293 983	43 942	195 987	3	2	2	5
		2000..	528 158	287 697	44 007	196 455	497 115	245 201	40 681	211 234	3	2	2	5
		1999..	516 103	248 606	40 779	226 719	550 777	286 865	44 376	219 536	2	1	1	4
		1998..	554 072	284 977	48 351	220 744	536 278	263 965	48 846	223 467	1	1	1	1
		1997..	548 113	267 802	49 261	231 050	564 921	274 929	64 807	225 185	X	X	X	X
311222	Soybean processing	2001..	825 268	390 149	42 671	392 448	787 738	346 100	39 161	402 476	1	1	1	1
		2000..	766 670	336 160	39 457	391 053	906 358	264 181	27 771	614 406	1	1	1	1
		1999..	903 651	282 648	36 436	584 567	872 531	385 568	26 813	460 150	1	2	1	1
		1998..	886 926	385 482	31 989	469 455	955 613	422 553	43 311	489 749	1	1	1	1
		1997..	968 059	427 702	43 546	496 811	1 018 284	402 230	32 889	583 165	X	X	X	X
311223	Other oilseed processing	2001..	350 685	131 938	S	220 326	397 776	155 787	25 700	216 289	13	32	A	11
		2000..	412 821	156 149	26 688	229 984	337 136	113 697	S	222 658	15	36	24	11
		1999..	236 648	76 854	S	156 538	406 216	99 619	68 722	237 876	13	23	A	15
		1998..	471 404	142 147	48 786	280 472	424 343	99 318	39 607	285 418	7	23	1	1
		1997..	423 705	103 250	37 661	282 794	485 959	158 121	37 548	290 290	X	X	X	X
311225	Fats & oils refining & blending	2001..	311 000	144 891	38 325	127 785	317 877	138 732	53 529	125 616	9	13	37	12
		2000..	315 353	135 437	54 646	125 270	360 715	137 910	68 562	154 243	9	12	29	11
		1999..	396 767	149 997	73 296	173 474	413 527	156 081	63 039	194 407	5	11	19	10
		1998..	463 887	181 279	111 271	171 337	482 121	200 729	107 044	174 348	2	2	2	2
		1997..	489 631	209 378	103 496	176 757	488 371	196 839	96 395	195 137	X	X	X	X
31123	Breakfast cereal mfg	2001..	395 740	112 698	10 546	272 496	404 619	126 380	11 352	266 887	8	4	21	11
		2000..	392 452	120 104	11 385	260 963	358 826	115 291	16 342	227 194	9	3	22	14
		1999..	352 379	113 653	16 326	222 401	338 208	119 828	10 498	207 882	1	3	16	1
		1998..	326 661	118 112	3 325	205 223	351 237	112 444	4 046	234 747	2	2	1	3
		1997..	370 153	141 584	3 865	224 704	327 508	122 139	2 523	202 846	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3112	Grain & oilseed milling—Con.													
31123	Breakfast cereal mfg—Con.													
311230	Breakfast cereal mfg	2001	395 740	112 698	10 546	272 496	404 619	126 380	11 352	266 887	8	4	21	11
		2000	392 452	120 104	11 385	260 963	358 826	115 291	16 342	227 194	9	3	22	14
		1999	352 379	113 653	16 326	222 401	338 208	119 828	10 498	207 882	1	3	16	1
		1998	326 661	118 112	3 325	205 223	351 237	112 444	4 046	234 747	2	2	1	3
		1997	370 153	141 584	3 865	224 704	327 508	122 139	2 523	202 846	X	X	X	X
3113	Sugar & confectionery product mfg	2001	3 435 468	2 011 630	243 488	1 180 349	3 537 423	2 010 116	229 798	1 297 509	2	3	5	2
		2000	3 668 202	2 074 793	281 105	1 312 304	3 651 629	1 993 995	275 552	1 382 082	2	2	6	2
		1999	3 680 709	2 007 576	268 232	1 404 901	3 430 320	1 875 646	227 571	1 327 103	1	1	3	1
		1998	3 557 668	1 955 383	227 969	1 374 316	3 289 355	1 804 948	249 675	1 234 732	3	3	1	4
		1997	3 207 408	1 738 990	255 837	1 212 581	2 992 629	1 523 659	303 653	1 165 317	X	X	X	X
31131	Sugar mfg	2001	1 396 713	944 306	106 980	345 427	1 467 143	991 896	111 906	363 341	3	4	4	3
		2000	1 581 111	1 053 662	144 367	383 081	1 490 782	964 455	140 519	385 808	2	3	4	3
		1999	1 513 823	969 972	142 019	401 832	1 414 942	891 057	110 841	413 043	1	1	3	1
		1998	1 497 302	972 432	111 328	413 542	1 451 650	900 835	132 884	417 931	4	6	1	1
		1997	1 395 337	839 177	145 215	410 945	1 325 445	723 483	185 948	416 014	X	X	X	X
311311	Sugarcane mills	2001	511 781	447 118	6 985	57 678	500 836	426 959	7 093	66 784	3	3	1	1
		2000	504 116	428 737	7 266	68 113	465 826	405 090	6 629	54 107	1	3	3	13
		1999	466 414	405 560	6 698	54 156	405 290	343 808	6 653	54 829	1	2	1	1
		1998	451 835	396 043	6 747	49 045	381 336	323 861	9 996	47 479	13	15	1	1
		1997	381 193	323 665	9 973	47 555	318 529	260 378	11 192	46 959	X	X	X	X
311312	Cane sugar refining	2001	172 428	52 796	14 072	105 560	152 130	56 458	25 877	69 795	1	1	1	1
		2000	192 883	77 629	28 707	86 547	181 339	54 859	30 181	96 299	1	1	1	1
		1999	203 662	59 838	31 600	112 224	204 623	61 492	31 796	111 335	1	1	1	1
		1998	226 312	78 616	32 647	115 049	221 307	82 496	32 385	106 426	1	1	1	1
		1997	229 379	83 953	44 945	100 481	254 854	79 860	40 444	134 550	X	X	X	X
311313	Beet sugar mfg	2001	712 504	444 392	85 923	182 189	814 177	508 478	78 936	226 762	6	9	5	5
		2000	884 112	547 296	108 394	228 421	843 618	504 506	103 709	235 403	4	6	5	2
		1999	843 748	504 574	103 721	235 453	805 029	485 757	72 392	246 879	1	2	4	2
		1998	819 155	497 773	71 934	249 448	849 007	494 478	90 503	264 026	1	1	1	1
		1997	784 765	431 559	90 297	262 909	752 062	383 245	134 312	234 505	X	X	X	X
31132	Chocolate & confectionery mfg from cacao beans	2001	548 535	276 660	61 321	210 554	572 464	247 136	49 893	275 435	6	9	13	1
		2000	569 989	245 751	49 603	274 635	628 728	252 705	58 824	317 199	1	1	1	1
		1999	617 694	246 907	58 969	311 817	566 279	243 144	53 219	269 916	1	1	1	1
		1998	639 189	254 192	53 487	331 510	447 315	169 078	45 296	232 941	10	4	1	16
		1997	435 261	165 361	44 679	225 221	404 129	170 597	48 333	185 199	X	X	X	X
311320	Chocolate & confectionery mfg from cacao beans	2001	548 535	276 660	61 321	210 554	572 464	247 136	49 893	275 435	6	9	13	1
		2000	569 989	245 751	49 603	274 635	628 728	252 705	58 824	317 199	1	1	1	1
		1999	617 694	246 907	58 969	311 817	566 279	243 144	53 219	269 916	1	1	1	1
		1998	639 189	254 192	53 487	331 510	447 315	169 078	45 296	232 941	10	4	1	16
		1997	435 261	165 361	44 679	225 221	404 129	170 597	48 333	185 199	X	X	X	X
31133	Confectionery mfg from purchased chocolate	2001	925 754	539 606	48 427	337 721	922 438	509 230	46 062	367 147	5	5	13	6
		2000	946 622	517 996	63 373	365 253	966 468	537 089	55 077	374 302	6	5	27	7
		1999	938 736	531 850	42 396	364 490	836 484	467 734	39 279	329 471	4	4	14	5
		1998	804 263	447 583	39 226	317 454	774 219	454 188	44 385	275 646	1	1	4	2
		1997	788 561	463 412	43 801	281 348	693 274	384 305	40 691	268 278	X	X	X	X
311330	Confectionery mfg from purchased chocolate	2001	925 754	539 606	48 427	337 721	922 438	509 230	46 062	367 147	5	5	13	6
		2000	946 622	517 996	63 373	365 253	966 468	537 089	55 077	374 302	6	5	27	7
		1999	938 736	531 850	42 396	364 490	836 484	467 734	39 279	329 471	4	4	14	5
		1998	804 263	447 583	39 226	317 454	774 219	454 188	44 385	275 646	1	1	4	2
		1997	788 561	463 412	43 801	281 348	693 274	384 305	40 691	268 278	X	X	X	X
31134	Nonchocolate confectionery mfg	2001	564 465	251 058	26 760	286 647	575 378	261 854	21 937	291 587	3	4	5	3
		2000	570 480	257 383	23 762	289 335	565 651	239 746	21 132	304 773	4	5	5	3
		1999	610 456	258 846	24 848	326 762	612 616	273 712	24 231	314 674	2	3	4	1
		1998	616 914	281 177	23 928	311 810	616 171	280 846	27 110	308 215	1	1	11	1
		1997	588 249	271 040	22 142	295 067	569 781	245 274	28 681	295 826	X	X	X	X
311340	Nonchocolate confectionery mfg	2001	564 465	251 058	26 760	286 647	575 378	261 854	21 937	291 587	3	4	5	3
		2000	570 480	257 383	23 762	289 335	565 651	239 746	21 132	304 773	4	5	5	3
		1999	610 456	258 846	24 848	326 762	612 616	273 712	24 231	314 674	2	3	4	1
		1998	616 914	281 177	23 928	311 810	616 171	280 846	27 110	308 215	1	1	11	1
		1997	588 249	271 040	22 142	295 067	569 781	245 274	28 681	295 826	X	X	X	X
3114	Fruit & vegetable preserving & specialty food mfg	2001	8 232 217	5 639 461	813 787	1 778 969	8 254 778	5 757 177	737 108	1 760 493	2	2	5	3
		2000	8 488 456	5 875 745	796 366	1 816 346	8 496 094	5 818 547	798 892	1 878 655	1	2	5	2
		1999	8 388 498	5 703 455	796 414	1 888 629	8 142 301	5 575 567	773 921	1 792 813	1	1	6	3
		1998	8 320 865	5 747 812	862 504	1 710 549	8 197 871	5 571 366	907 034	1 719 471	1	1	1	1
		1997	8 213 548	5 584 829	886 462	1 742 257	8 316 759	5 694 572	924 734	1 697 453	X	X	X	X
31141	Frozen food mfg	2001	2 503 914	1 746 546	100 479	656 889	2 771 277	1 981 920	108 448	680 909	2	3	1	2
		2000	2 726 192	1 915 240	112 642	698 310	2 866 879	2 058 959	113 713	694 207	2	2	1	2
		1999	2 711 229	1 855 117	150 939	705 173	2 681 544	1 817 908	150 704	712 932	1	2	1	1
		1998	2 903 644	1 974 623	245 111	683 910	2 676 461	1 783 930	225 917	666 613	1	1	1	1
		1997	2 609 599	1 701 340	206 787	701 472	2 655 087	1 732 101	249 663	673 323	X	X	X	X
311411	Frozen fruit, juice, & vegetable mfg	2001	1 844 133	1 397 264	82 367	364 503	2 060 986	1 572 129	90 234	398 623	3	3	1	2
		2000	2 061 333	1 554 067	90 470	416 795	2 147 728	1 652 514	96 418	398 795	2	2	1	2
		1999	1 986 470	1 444 882	136 670	404 917	1 971 196	1 447 647	132 314	391 236	2	2	1	2
		1998	2 157 709	1 546 571	206 378	404 761	1 987 461	1 393 908	191 855	401 698	1	1	2	2
		1997	1 958 904	1 347 578	175 765	435 561	2 034 268	1 393 844	221 953	418 471	X	X	X	X
311412	Frozen specialty food mfg	2001	659 781	349 282	18 112	292 386	710 291	409 791	18 214	282 286	4	4	5	4
		2000	664 859	361 173	22 171	281 515	719 151	406 445	17 295	295 411	3	4	2	3
		1999	724 759	410 234	14 269	300 256	710 348	370 261	18 390	321 696	2	3	2	2
		1998	745 934	428 051	38 733	279 150	689 000	390 022	34 062	264 916	1	1	1	1
		1997	650 695	353 762	31 022	265 911	620 819	338 257	27 710	254 852	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
311	Food mfg—Con.													
3114	Fruit & vegetable preserving & specialty food mfg—Con.													
31142	Fruit & vegetable canning, pickling, & drying	2001	5 728 303	3 892 915	713 309	1 122 080	5 483 501	3 775 257	628 660	1 079 584	2	3	6	4
		2000	5 762 264	3 960 504	683 724	1 118 036	5 629 215	3 759 588	685 179	1 184 449	2	2	6	4
		1999	5 677 269	3 848 339	645 475	1 183 456	5 460 757	3 757 659	623 217	1 079 882	2	2	8	4
		1998	5 417 222	3 773 189	617 394	1 026 639	5 521 411	3 787 435	681 117	1 052 858	1	1	1	1
		1997	5 603 949	3 883 489	679 675	1 040 785	5 661 672	3 962 471	675 071	1 024 130	X	X	X	X
311421	Fruit & vegetable canning	2001	4 200 453	2 937 328	552 630	710 495	3 981 897	2 822 380	466 481	693 036	3	3	7	6
		2000	4 262 354	2 995 903	525 589	740 861	4 029 528	2 739 847	528 887	760 795	2	3	8	5
		1999	4 080 144	2 823 969	494 165	762 010	3 885 176	2 679 344	464 594	741 237	2	2	10	6
		1998	3 866 625	2 710 533	446 165	709 927	3 921 869	2 725 290	486 089	710 491	2	2	1	2
		1997	3 928 014	2 769 290	482 981	675 743	3 949 153	2 855 577	466 617	626 959	X	X	X	X
311422	Specialty canning	2001	731 294	461 097	17 449	252 748	710 279	443 319	27 702	239 259	6	7	20	8
		2000	733 317	466 697	26 498	240 122	752 492	465 477	25 274	261 742	2	4	11	7
		1999	756 822	466 426	19 602	270 794	811 551	567 540	23 238	220 773	2	4	17	7
		1998	828 627	575 548	41 988	211 092	813 251	546 676	40 097	226 477	1	1	3	2
		1997	847 648	568 587	40 379	238 682	853 665	565 449	41 548	246 668	X	X	X	X
311423	Dried & dehydrated food mfg	2001	796 556	494 490	143 229	158 836	791 325	509 559	134 477	147 288	3	4	6	8
		2000	766 594	497 904	131 637	137 053	847 194	554 264	131 019	161 912	3	4	7	11
		1999	840 304	557 944	131 708	150 652	764 030	510 774	135 385	117 871	3	2	4	11
		1998	721 970	487 108	129 241	105 621	786 291	515 470	154 931	115 890	2	2	5	5
		1997	828 287	545 612	156 315	126 360	858 854	541 445	166 906	150 503	X	X	X	X
3115	Dairy product mfg	2001	3 278 493	1 983 427	230 889	1 064 177	3 029 853	1 898 011	208 329	923 513	6	5	11	13
		2000	3 051 854	1 911 525	213 719	926 610	2 934 236	1 799 840	214 220	920 176	3	5	5	2
		1999	2 942 309	1 823 972	189 235	929 102	2 836 881	1 772 219	184 589	880 073	3	5	3	2
		1998	3 118 906	1 980 098	194 307	944 501	2 897 666	1 822 071	177 386	898 209	2	3	5	2
		1997	2 831 823	1 762 084	176 184	893 555	2 824 279	1 760 064	165 646	898 569	X	X	X	X
31151	Dairy product (except frozen) mfg	2001	2 922 567	1 755 386	220 219	946 962	2 677 089	1 668 268	197 312	811 510	7	5	11	14
		2000	2 674 014	1 653 936	202 667	817 411	2 548 068	1 545 178	202 235	800 654	4	6	5	2
		1999	2 563 064	1 575 906	177 391	809 766	2 465 936	1 528 929	172 743	764 263	4	6	2	2
		1998	2 752 734	1 746 529	188 958	817 247	2 504 219	1 577 235	172 397	754 587	2	3	5	2
		1997	2 435 801	1 513 703	169 127	752 971	2 430 421	1 516 434	158 540	755 447	X	X	X	X
311511	Fluid milk mfg	2001	633 149	346 145	22 833	264 171	619 770	340 211	22 181	257 378	10	17	4	4
		2000	609 422	332 855	26 948	249 619	565 679	301 684	27 284	236 711	10	18	4	4
		1999	581 837	311 162	26 881	243 794	504 813	242 043	24 804	237 967	10	17	5	4
		1998	562 160	281 547	25 936	254 677	538 866	265 111	24 808	248 947	3	3	3	3
		1997	542 972	269 871	24 288	248 813	529 862	261 739	24 081	244 042	X	X	X	X
311512	Creamery butter mfg	2001	62 294	47 834	3 132	11 329	44 884	28 254	5 204	11 426	2	2	11	2
		2000	44 692	28 499	4 825	11 368	48 291	34 632	4 999	8 660	2	3	6	2
		1999	52 501	38 453	5 256	8 793	49 524	36 154	5 013	8 358	3	4	4	2
		1998	57 746	42 101	5 347	10 298	52 690	36 658	4 769	11 263	4	6	4	9
		1997	56 435	39 489	5 506	11 440	51 133	32 270	4 498	14 365	X	X	X	X
311513	Cheese mfg	2001	1 398 893	901 198	133 601	364 094	1 323 359	847 371	121 865	354 123	6	8	12	4
		2000	1 316 289	842 831	122 353	351 105	1 306 113	823 215	125 636	357 261	5	8	8	3
		1999	1 284 701	822 322	105 880	356 499	1 354 555	881 548	105 659	367 347	5	8	3	2
		1998	1 498 893	1 012 641	109 593	376 658	1 347 468	923 103	100 161	324 205	4	5	6	1
		1997	1 274 146	854 615	96 903	322 628	1 280 218	857 486	90 896	331 836	X	X	X	X
311514	Dry, condensed, & evaporated dairy product mfg	2001	828 231	460 209	60 654	307 368	689 076	452 432	48 062	188 583	20	4	33	43
		2000	703 610	449 751	48 541	205 318	627 985	385 647	44 316	198 022	5	5	5	5
		1999	644 024	403 969	39 374	200 681	557 044	369 184	37 268	150 592	2	4	4	4
		1998	633 935	410 240	48 081	175 614	565 194	352 363	42 659	170 172	5	6	15	6
		1997	562 248	349 728	42 430	170 090	569 208	364 939	39 065	165 204	X	X	X	X
31152	Ice cream & frozen dessert mfg	2001	355 925	228 041	10 669	117 215	352 764	229 743	11 017	112 004	5	4	27	6
		2000	377 840	257 589	11 052	109 199	386 168	254 662	11 985	119 521	5	4	27	6
		1999	379 245	248 066	11 843	119 335	370 946	243 289	11 846	115 810	5	5	34	7
		1998	366 172	233 569	5 349	127 254	393 447	244 836	4 989	143 622	2	3	12	2
		1997	396 022	248 381	7 057	140 584	393 858	243 630	7 106	143 122	X	X	X	X
311520	Ice cream & frozen dessert mfg	2001	355 925	228 041	10 669	117 215	352 764	229 743	11 017	112 004	5	4	27	6
		2000	377 840	257 589	11 052	109 199	386 168	254 662	11 985	119 521	5	4	27	6
		1999	379 245	248 066	11 843	119 335	370 946	243 289	11 846	115 810	5	5	34	7
		1998	366 172	233 569	5 349	127 254	393 447	244 836	4 989	143 622	2	3	12	2
		1997	396 022	248 381	7 057	140 584	393 858	243 630	7 106	143 122	X	X	X	X
3116	Meat product mfg	2001	4 255 345	2 656 230	479 861	1 119 253	4 101 659	2 525 057	502 827	1 073 774	2	3	2	2
		2000	4 061 365	2 483 473	523 697	1 054 195	3 820 617	2 348 524	449 558	1 022 535	2	4	5	2
		1999	3 844 525	2 396 078	439 387	1 009 060	3 466 673	2 138 711	394 236	933 726	1	2	8	2
		1998	3 647 576	2 270 449	419 005	958 122	3 892 116	2 435 948	511 978	944 190	1	1	2	1
		1997	3 916 213	2 459 451	481 199	975 563	3 828 493	2 340 378	505 560	982 555	X	X	X	X
31161	Animal slaughtering & processing	2001	4 255 345	2 656 230	479 861	1 119 253	4 101 659	2 525 057	502 827	1 073 774	2	3	2	2
		2000	4 061 365	2 483 473	523 697	1 054 195	3 820 617	2 348 524	449 558	1 022 535	2	4	5	2
		1999	3 844 525	2 396 078	439 387	1 009 060	3 466 673	2 138 711	394 236	933 726	1	2	8	2
		1998	3 647 576	2 270 449	419 005	958 122	3 892 116	2 435 948	511 978	944 190	1	1	2	1
		1997	3 916 213	2 459 451	481 199	975 563	3 828 493	2 340 378	505 560	982 555	X	X	X	X
311611	Animal (except poultry) slaughtering	2001	1 380 296	1 008 638	151 490	220 168	1 354 243	948 253	170 803	235 187	2	4	4	5
		2000	1 306 674	906 210	166 016	234 448	1 216 470	870 379	115 526	230 565	3	4	15	9
		1999	1 222 822	879 481	113 933	229 408	1 086 038	797 086	95 244	193 708	4	3	29	9
		1998	1 117 102	819 364	94 317	203 421	1 219 762	902 302	123 734	193 725	1	1	3	1
		1997	1 254 731	931 242	107 611	215 878	1 262 094	917 281	97 752	247 061	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3116	Meat product mfg—Con.													
31161	Animal slaughtering & processing—Con.													
311612	Meat processed from carcasses	2001..	1 503 623	851 916	135 879	515 828	1 409 077	788 141	133 022	487 914	4	6	4	2
		2000..	1 377 607	783 310	135 072	459 225	1 287 812	693 460	145 183	449 170	4	6	5	2
		1999..	1 267 990	695 632	139 226	433 132	1 203 386	652 948	130 434	420 004	2	3	4	2
		1998..	1 269 843	716 908	137 426	415 509	1 286 227	701 704	151 560	432 963	2	4	4	3
		1997..	1 265 662	687 599	145 444	432 619	1 246 822	696 512	158 747	391 563	X	X	X	X
311613	Rendering & meat byproduct processing	2001..	82 980	58 361	5 967	18 653	96 430	72 333	5 402	18 695	14	19	11	5
		2000..	75 872	53 136	5 433	17 303	69 443	49 175	3 882	16 385	16	22	11	4
		1999..	67 945	48 393	3 189	16 363	59 886	43 595	2 071	14 219	19	26	19	4
		1998..	107 611	80 663	5 251	21 698	109 986	85 195	5 718	19 073	2	2	10	6
		1997..	110 916	86 907	5 637	18 372	100 626	76 209	6 242	18 175	X	X	X	X
311615	Poultry processing	2001..	1 288 446	737 316	186 526	364 605	1 241 909	716 330	193 600	331 978	4	6	2	2
		2000..	1 301 212	740 817	217 177	343 219	1 246 892	735 511	184 967	326 414	5	9	1	1
		1999..	1 285 768	772 571	183 039	330 157	1 117 364	645 081	166 487	305 795	1	1	1	1
		1998..	1 153 020	653 515	182 012	317 493	1 276 141	746 747	230 966	298 428	1	1	1	2
		1997..	1 284 904	753 703	222 507	308 694	1 218 951	650 376	242 819	325 756	X	X	X	X
3117	Seafood product preparation & packaging	2001..	1 191 526	811 413	57 222	322 890	1 265 965	838 869	60 247	366 849	3	3	22	4
		2000..	1 260 790	833 343	58 946	368 500	1 204 346	821 696	43 344	339 306	3	4	26	3
		1999..	1 142 554	761 577	42 992	337 984	1 011 125	650 270	48 641	312 214	5	7	20	4
		1998..	961 111	604 658	20 061	336 392	1 135 138	760 389	15 181	359 568	3	4	12	3
		1997..	1 084 795	745 449	20 067	319 279	1 022 291	748 539	15 055	258 697	X	X	X	X
31171	Seafood product preparation & packaging	2001..	1 191 526	811 413	57 222	322 890	1 265 965	838 869	60 247	366 849	3	3	22	4
		2000..	1 260 790	833 343	58 946	368 500	1 204 346	821 696	43 344	339 306	3	4	26	3
		1999..	1 142 554	761 577	42 992	337 984	1 011 125	650 270	48 641	312 214	5	7	20	4
		1998..	961 111	604 658	20 061	336 392	1 135 138	760 389	15 181	359 568	3	4	12	3
		1997..	1 084 795	745 449	20 067	319 279	1 022 291	748 539	15 055	258 697	X	X	X	X
311711	Seafood canning	2001..	184 267	124 683	3 505	56 078	170 806	114 580	3 864	52 363	5	5	11	6
		2000..	152 814	99 793	2 403	50 618	160 860	111 816	3 607	45 437	8	10	17	7
		1999..	180 296	127 346	3 883	49 068	211 821	162 059	2 697	47 065	6	7	14	6
		1998..	132 705	91 948	2 310	38 447	149 574	104 592	2 876	42 106	13	15	27	10
		1997..	157 718	111 824	3 212	42 682	151 546	112 104	1 640	37 802	X	X	X	X
311712	Fresh & frozen seafood processing	2001..	1 007 259	686 730	53 718	266 812	1 095 159	724 289	56 383	314 486	4	4	23	5
		2000..	1 107 976	733 550	56 543	317 883	1 043 486	709 880	39 737	293 869	3	4	27	4
		1999..	962 257	634 232	39 110	288 916	799 304	488 211	45 944	265 149	6	8	22	5
		1998..	828 406	512 710	17 751	297 945	985 564	655 797	12 305	317 462	3	4	13	4
		1997..	927 077	633 625	16 855	276 597	870 745	636 435	13 415	220 895	X	X	X	X
3118	Bakeries & tortilla mfg	2001..	1 792 443	796 119	41 477	954 847	1 737 981	746 635	46 852	944 494	3	4	9	3
		2000..	1 700 415	715 041	56 760	928 614	1 703 149	733 571	47 861	921 716	3	4	7	3
		1999..	1 739 048	739 431	46 019	953 598	1 673 116	707 832	36 764	928 520	2	3	12	2
		1998..	1 613 623	718 793	24 844	869 986	1 595 939	684 710	29 588	881 641	7	5	13	10
		1997..	1 659 519	701 479	31 495	926 545	1 632 897	698 860	34 740	899 297	X	X	X	X
31181	Bread & bakery product mfg	2001..	871 918	277 994	25 256	568 667	858 949	269 666	27 075	562 208	6	9	11	5
		2000..	863 778	268 347	37 048	558 384	872 492	277 922	33 357	561 213	5	9	9	5
		1999..	859 469	264 078	29 663	565 728	762 140	202 633	21 210	538 297	4	8	18	3
		1998..	656 816	200 473	12 638	443 705	647 422	168 505	15 152	463 766	16	17	25	19
		1997..	689 709	173 601	16 436	499 672	670 162	177 918	19 586	472 658	X	X	X	X
311811	Retail bakeries	2001..	111 960	24 426	7 117	80 417	107 153	23 227	8 328	75 598	8	16	25	6
		2000..	114 917	29 007	6 448	79 462	107 341	26 289	8 193	72 860	8	22	28	6
		1999..	110 881	24 369	6 219	80 293	105 819	20 304	8 642	76 873	10	16	30	10
		1998..	40 324	34 170	2 601	3 553	29 202	6 511	3 263	19 428	A	98	A	A
		1997..	94 631	16 122	5 686	72 823	82 049	12 841	10 419	58 789	X	X	X	X
311812	Commercial bakeries	2001..	549 427	165 244	12 435	371 748	542 987	160 407	12 707	369 874	8	15	16	6
		2000..	546 806	158 514	24 805	363 486	520 348	135 178	21 481	363 689	8	14	7	6
		1999..	523 523	131 973	19 886	371 664	488 238	115 605	9 970	362 663	5	11	24	4
		1998..	435 887	98 209	7 373	330 305	431 404	90 813	9 723	330 867	1	1	12	2
		1997..	422 573	90 156	8 588	323 829	424 987	96 704	7 076	321 207	X	X	X	X
311813	Frozen cakes, pies, & other pastries mfg	2001..	210 531	88 324	5 704	116 503	208 808	86 032	6 041	116 736	7	5	20	10
		2000..	202 055	80 825	5 795	115 435	244 803	116 454	3 683	124 665	7	6	39	8
		1999..	225 065	107 736	3 558	113 771	168 083	66 723	2 598	98 762	10	15	14	5
		1998..	180 605	68 094	2 663	109 847	186 817	71 181	2 166	113 470	3	3	6	3
		1997..	172 505	67 323	2 162	103 020	163 126	68 373	2 091	92 662	X	X	X	X
31182	Cookie, cracker, & pasta mfg	2001..	863 902	491 412	14 714	357 776	839 466	465 964	18 335	355 168	4	4	17	6
		2000..	797 415	434 334	18 155	344 926	792 365	443 722	12 937	335 705	4	4	13	5
		1999..	840 410	463 326	14 750	362 334	874 076	494 201	13 962	365 914	2	2	14	2
		1998..	914 540	503 302	10 713	400 524	908 541	503 022	12 374	393 145	1	2	1	1
		1997..	927 476	515 392	13 072	399 012	919 268	506 875	12 857	399 536	X	X	X	X
311821	Cookie & cracker mfg	2001..	434 024	242 730	2 194	189 101	433 736	240 562	7 328	185 846	8	7	79	10
		2000..	407 375	215 975	7 361	184 039	419 011	229 842	2 323	186 847	8	7	23	10
		1999..	443 877	242 160	2 771	198 947	475 413	265 515	2 400	207 497	3	4	59	4
		1998..	490 243	272 674	3 201	214 368	493 812	275 937	4 701	213 174	2	4	4	1
		1997..	505 816	288 822	5 108	211 886	514 132	294 560	4 056	215 516	X	X	X	X
311822	Flour mixes & dough mfg from purchased flour	2001..	313 811	171 908	6 768	135 134	310 135	163 696	7 055	139 384	3	4	27	5
		2000..	297 536	158 277	7 179	132 081	282 113	154 435	6 163	121 516	3	4	23	4
		1999..	295 374	153 730	7 485	134 159	283 184	148 025	5 206	129 953	3	4	15	3
		1998..	308 027	151 605	5 973	150 448	308 408	156 598	5 952	145 858	1	1	2	1
		1997..	307 079	151 871	6 244	148 964	283 656	134 245	5 062	144 349	X	X	X	X
311823	Dry pasta mfg	2001..	116 067	76 774	5 753	33 541	95 595	61 705	3 952	29 938	3	2	3	7
		2000..	92 504	60 082	3 616	28 807	91 240	59 446	4 452	27 343	4	2	4	8
		1999..	101 158	67 436	4 494	29 228	115 479	80 660	6 356	28 463	3	2	3	8
		1998..	116 270	79 023	1 539	35 708	106 321	70 487	1 721	34 113	1	1	1	1
		1997..	114 581	74 699	1 720	38 162	121 480	78 070	3 739	39 671	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
311	Food mfg—Con.													
3118	Bakeries & tortilla mfg—Con.													
31183	Tortilla mfg	2001	56 623	26 713	1 506	28 404	39 566	11 005	1 442	27 118	23	51	11	8
		2000	39 222	12 360	1 557	25 304	38 293	11 928	1 567	24 798	6	7	10	6
		1999	39 170	12 027	1 606	25 537	36 900	10 998	1 592	24 310	5	6	6	5
		1998	42 267	15 017	1 493	25 756	39 975	13 182	2 062	24 731	8	4	31	12
		1997	42 334	12 486	1 987	27 861	43 467	14 067	2 297	27 103	X	X	X	X
311830	Tortilla mfg	2001	56 623	26 713	1 506	28 404	39 566	11 005	1 442	27 118	23	51	11	8
		2000	39 222	12 360	1 557	25 304	38 293	11 928	1 567	24 798	6	7	10	6
		1999	39 170	12 027	1 606	25 537	36 900	10 998	1 592	24 310	5	6	6	5
		1998	42 267	15 017	1 493	25 756	39 975	13 182	2 062	24 731	8	4	31	12
		1997	42 334	12 486	1 987	27 861	43 467	14 067	2 297	27 103	X	X	X	X
3119	Other food mfg	2001	4 909 827	2 620 246	492 351	1 797 231	4 717 363	2 392 091	585 576	1 739 697	2	3	6	5
		2000	4 901 184	2 480 528	613 164	1 807 492	4 193 861	1 874 224	552 785	1 766 853	2	2	10	3
		1999	4 296 637	1 907 227	553 454	1 835 956	4 152 440	1 833 629	509 392	1 809 419	2	3	6	3
		1998	4 028 470	1 588 369	574 384	1 865 717	3 949 383	1 601 588	640 848	1 706 948	2	3	6	2
		1997	3 984 477	1 550 350	646 708	1 787 419	3 529 786	1 391 683	554 052	1 584 051	X	X	X	X
31191	Snack food mfg	2001	1 803 587	1 173 451	201 330	428 806	1 653 574	1 012 036	285 479	356 058	3	1	14	9
		2000	1 685 457	1 013 593	306 519	365 344	1 032 691	467 202	211 729	353 760	4	2	21	6
		1999	1 125 137	500 163	206 794	418 180	1 102 715	445 470	212 398	444 847	4	3	15	3
		1998	1 085 099	335 673	259 044	490 382	974 091	338 709	305 138	330 245	7	12	14	4
		1997	1 027 719	357 349	314 201	356 169	914 571	309 940	294 463	310 168	X	X	X	X
311911	Roasted nuts & peanut butter mfg	2001	677 108	310 127	198 469	168 513	690 604	241 520	284 114	164 969	5	4	14	7
		2000	731 306	251 808	305 192	174 307	682 296	292 939	209 490	179 867	9	6	21	7
		1999	775 007	325 863	204 446	244 698	793 153	299 651	207 045	286 457	5	4	16	5
		1998	765 489	194 700	253 132	317 658	674 132	201 664	302 408	170 060	10	21	14	6
		1997	722 395	217 209	311 128	194 058	662 248	213 948	287 142	161 158	X	X	X	X
311919	Other snack food mfg	2001	1 126 479	863 325	2 861	260 292	962 970	770 516	1 365	191 089	4	1	52	14
		2000	954 150	761 786	1 328	191 037	350 395	174 263	2 239	173 893	2	1	A	8
		1999	350 130	174 301	2 348	173 482	309 562	145 819	5 353	158 390	3	3	63	5
		1998	319 610	140 973	5 912	172 725	299 960	137 045	2 730	160 185	1	1	19	3
		1997	305 324	140 140	3 073	162 111	252 323	95 992	7 321	149 010	X	X	X	X
31192	Coffee & tea mfg	2001	503 409	246 849	59 177	197 382	527 002	238 181	71 479	217 342	4	4	5	8
		2000	541 853	244 912	73 342	223 599	588 754	232 077	101 370	255 307	3	4	4	7
		1999	598 879	232 783	104 930	261 166	562 754	244 482	72 431	245 841	3	3	3	6
		1998	628 844	249 141	86 145	293 558	698 576	267 918	99 275	331 383	1	2	1	2
		1997	681 464	262 723	96 893	321 848	589 246	211 022	77 700	300 524	X	X	X	X
311920	Coffee & tea mfg	2001	503 409	246 849	59 177	197 382	527 002	238 181	71 479	217 342	4	4	5	8
		2000	541 853	244 912	73 342	223 599	588 754	232 077	101 370	255 307	3	4	4	7
		1999	598 879	232 783	104 930	261 166	562 754	244 482	72 431	245 841	3	3	3	6
		1998	628 844	249 141	86 145	293 558	698 576	267 918	99 275	331 383	1	2	1	2
		1997	681 464	262 723	96 893	321 848	589 246	211 022	77 700	300 524	X	X	X	X
31193	Flavoring syrup & concentrate mfg	2001	426 403	227 105	38 045	161 254	448 974	206 695	35 997	206 282	14	26	3	5
		2000	440 600	205 948	35 968	198 684	434 987	210 327	37 414	187 246	11	23	3	4
		1999	434 751	207 329	37 875	189 547	370 030	189 320	35 281	145 430	13	28	6	2
		1998	280 108	116 501	36 257	127 350	326 421	128 860	34 536	163 025	4	3	1	5
		1997	332 651	126 340	34 007	172 304	324 521	142 804	12 475	169 242	X	X	X	X
311930	Flavoring syrup & concentrate mfg	2001	426 403	227 105	38 045	161 254	448 974	206 695	35 997	206 282	14	26	3	5
		2000	440 600	205 948	35 968	198 684	434 987	210 327	37 414	187 246	11	23	3	4
		1999	434 751	207 329	37 875	189 547	370 030	189 320	35 281	145 430	13	28	6	2
		1998	280 108	116 501	36 257	127 350	326 421	128 860	34 536	163 025	4	3	1	5
		1997	332 651	126 340	34 007	172 304	324 521	142 804	12 475	169 242	X	X	X	X
31194	Seasoning & dressing mfg	2001	1 127 207	490 419	119 096	517 692	1 090 166	469 258	122 378	498 530	6	3	2	14
		2000	1 193 138	542 029	125 924	525 185	1 181 797	546 731	134 555	500 512	4	2	1	10
		1999	1 196 446	553 399	135 230	507 817	1 174 720	533 866	133 776	507 078	4	2	1	10
		1998	1 077 668	499 592	132 137	445 939	1 027 770	489 578	120 173	418 019	3	2	3	6
		1997	1 022 221	419 884	124 435	477 902	844 895	378 139	98 056	368 700	X	X	X	X
311941	Mayonnaise, dressing, & other prepared sauce mfg	2001	424 920	220 218	40 805	163 896	426 509	208 626	43 897	173 986	4	7	3	5
		2000	459 852	240 024	45 087	174 740	470 288	256 385	46 812	167 090	3	5	1	4
		1999	475 779	260 994	46 921	167 863	460 805	252 319	36 581	171 905	2	4	2	2
		1998	476 187	262 786	36 649	176 751	447 510	244 336	36 537	166 638	1	1	2	3
		1997	381 485	186 582	37 176	157 727	370 715	190 634	41 439	138 642	X	X	X	X
311942	Spice & extract mfg	2001	702 287	270 201	78 291	353 795	663 657	260 632	78 481	324 544	10	2	3	20
		2000	733 287	302 005	80 837	350 445	711 509	290 345	87 743	333 421	7	2	2	15
		1999	720 667	292 404	88 308	339 954	713 915	281 548	97 194	335 173	7	2	1	15
		1998	601 481	236 806	95 488	269 187	580 260	245 243	83 636	251 381	6	5	4	9
		1997	640 736	233 302	87 259	320 175	474 180	187 505	56 617	230 058	X	X	X	X
31199	All other food mfg	2001	1 049 221	482 420	74 703	492 098	997 648	465 921	70 243	461 485	3	4	4	3
		2000	1 040 136	474 045	71 412	494 679	955 631	417 887	67 716	470 028	3	4	5	3
		1999	941 423	413 554	68 625	459 245	942 221	420 491	55 506	466 224	3	5	6	3
		1998	956 750	387 462	60 801	508 488	922 526	376 523	81 725	464 277	1	1	6	1
		1997	920 422	384 054	77 172	459 196	856 553	349 778	71 358	435 417	X	X	X	X
311991	Perishable prepared food mfg	2001	149 211	47 231	26 753	75 227	145 670	49 295	20 213	76 162	3	11	2	7
		2000	146 884	49 004	20 181	77 699	154 174	56 721	20 274	77 179	3	10	2	7
		1999	157 472	57 193	22 151	78 129	139 617	56 682	14 499	68 437	4	10	5	6
		1998	153 234	56 995	16 416	79 823	147 280	53 206	19 148	74 927	3	6	21	4
		1997	145 511	47 214	19 857	78 440	135 328	45 490	7 329	82 509	X	X	X	X
311999	All other miscellaneous food mfg	2001	900 010	435 189	47 950	416 871	851 978	416 625	50 030	385 323	3	4	6	4
		2000	893 252	425 041	51 231	416 981	801 457	361 167	47 442	392 848	3	4	7	3
		1999	783 951	356 361	46 474	381 116	802 603	363 809	41 007	397 787	3	5	9	3
		1998	803 516	330 466	44 385	428 665	775 246	323 318	62 578	389 350	1	1	1	1
		1997	774 911	336 840	57 315	380 756	721 225	304 288	64 029	352 908	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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
312	Beverage & tobacco product mfg	2001	14 855 301	4 507 460	4 354 608	5 993 232	14 305 721	4 212 713	4 095 538	5 997 471	2	3	2	3
		2000	14 330 923	4 212 926	4 123 929	5 994 068	14 033 454	3 904 143	3 770 480	6 358 831	2	4	2	3
		1999	14 167 109	4 009 285	3 569 335	6 588 490	14 294 326	3 763 677	3 654 000	6 876 649	1	4	2	2
		1998	14 817 827	4 126 228	3 809 400	6 882 200	14 259 743	3 816 817	3 617 546	6 825 379	1	2	1	1
		1997	14 188 142	3 838 636	3 634 606	6 714 900	13 302 961	3 542 159	2 990 064	6 770 738	X	X	X	X
3121	Beverage mfg	2001	9 345 488	3 739 264	4 150 968	1 455 256	8 640 111	3 402 363	3 872 670	1 365 079	3	4	2	13
		2000	8 671 354	3 405 459	3 903 992	1 361 902	7 957 289	3 136 790	3 558 940	1 261 559	3	4	2	11
		1999	8 005 757	3 214 118	3 361 534	1 430 105	7 796 283	3 044 899	3 409 373	1 342 011	2	4	2	7
		1998	8 215 859	3 382 587	3 508 998	1 324 275	7 576 545	3 030 202	3 282 988	1 263 354	1	2	1	2
		1997	7 622 157	3 045 997	3 294 121	1 282 039	6 842 101	2 833 571	2 715 858	1 292 672	X	X	X	X
31211	Soft drink & ice mfg	2001	1 525 843	776 736	99 562	649 546	1 493 077	748 632	82 679	661 767	3	2	45	8
		2000	1 498 143	755 124	82 487	660 532	1 473 548	745 597	85 304	642 646	3	2	37	8
		1999	1 425 757	731 652	71 454	622 652	1 297 548	636 779	42 892	617 877	2	2	37	8
		1998	1 365 742	705 888	48 967	610 887	1 328 924	667 784	45 702	615 439	2	3	1	2
		1997	1 368 996	691 441	45 823	631 732	1 304 405	671 616	40 798	591 991	X	X	X	X
312111	Soft drink mfg	2001	1 431 068	740 073	97 784	593 210	1 402 824	713 794	80 899	608 132	3	2	46	9
		2000	1 411 424	721 844	80 876	608 704	1 389 537	712 875	83 573	593 089	3	2	38	8
		1999	1 334 476	694 593	69 353	570 531	1 223 486	609 284	41 688	572 514	2	2	38	9
		1998	1 297 431	667 453	47 552	582 425	1 252 885	634 007	44 234	574 644	2	3	1	2
		1997	1 294 689	658 774	44 446	591 469	1 248 475	638 966	39 283	570 226	X	X	X	X
312112	Bottled water mfg	2001	79 136	31 448	1 276	46 412	72 218	27 952	1 284	42 983	9	14	30	10
		2000	72 577	28 175	1 301	43 101	73 994	28 741	1 554	43 699	9	18	26	7
		1999	80 725	32 622	1 890	46 213	64 249	23 265	1 003	39 981	14	20	29	11
		1998	53 890	33 937	909	19 045	62 856	28 366	966	33 524	5	9	8	5
		1997	61 314	27 420	900	32 994	42 071	26 479	913	14 679	X	X	X	X
312113	Ice mfg	2001	15 639	5 215	502	9 923	18 036	6 886	496	10 653	17	14	16	23
		2000	14 142	5 105	311	8 726	10 017	3 981	177	5 859	10	8	16	12
		1999	10 556	4 437	211	5 908	9 814	4 231	201	5 382	8	10	20	8
		1998	14 420	4 498	506	9 416	13 183	5 410	502	7 271	6	18	1	5
		1997	12 993	5 247	477	7 269	13 859	6 171	602	7 086	X	X	X	X
31212	Breweries	2001	534 713	86 753	181 596	266 364	517 417	84 276	167 784	265 358	2	8	3	2
		2000	526 181	85 804	171 289	269 089	527 406	79 591	178 428	269 387	2	4	4	2
		1999	520 572	79 340	179 002	262 229	542 038	87 191	178 281	276 566	1	4	1	1
		1998	530 080	66 830	181 605	281 645	535 673	75 175	183 139	277 359	1	1	1	1
		1997	537 139	76 101	183 945	277 093	590 712	80 484	181 715	328 513	X	X	X	X
312120	Breweries	2001	534 713	86 753	181 596	266 364	517 417	84 276	167 784	265 358	2	8	3	2
		2000	526 181	85 804	171 289	269 089	527 406	79 591	178 428	269 387	2	4	4	2
		1999	520 572	79 340	179 002	262 229	542 038	87 191	178 281	276 566	1	4	1	1
		1998	530 080	66 830	181 605	281 645	535 673	75 175	183 139	277 359	1	1	1	1
		1997	537 139	76 101	183 945	277 093	590 712	80 484	181 715	328 513	X	X	X	X
31213	Wineries	2001	5 467 980	1 557 372	3 466 743	443 865	4 804 117	1 283 436	3 186 138	334 543	4	4	2	42
		2000	4 815 248	1 273 565	3 211 032	330 650	4 212 891	1 085 012	2 877 258	250 621	3	3	2	44
		1999	4 239 716	1 129 500	2 693 524	416 691	4 176 036	1 109 398	2 731 904	334 734	2	3	1	21
		1998	4 285 257	1 219 396	2 768 277	297 584	3 791 867	947 173	2 609 594	235 100	2	6	1	6
		1997	3 772 684	934 817	2 607 160	230 707	3 143 103	856 125	2 055 239	231 739	X	X	X	X
312130	Wineries	2001	5 467 980	1 557 372	3 466 743	443 865	4 804 117	1 283 436	3 186 138	334 543	4	4	2	42
		2000	4 815 248	1 273 565	3 211 032	330 650	4 212 891	1 085 012	2 877 258	250 621	3	3	2	44
		1999	4 239 716	1 129 500	2 693 524	416 691	4 176 036	1 109 398	2 731 904	334 734	2	3	1	21
		1998	4 285 257	1 219 396	2 768 277	297 584	3 791 867	947 173	2 609 594	235 100	2	6	1	6
		1997	3 772 684	934 817	2 607 160	230 707	3 143 103	856 125	2 055 239	231 739	X	X	X	X
31214	Distilleries	2001	1 816 952	1 318 404	403 068	95 481	1 825 499	1 286 019	436 070	103 411	9	11	7	11
		2000	1 831 782	1 290 966	439 184	101 632	1 743 444	1 226 590	417 950	98 904	9	11	6	9
		1999	1 819 713	1 273 626	417 554	128 533	1 780 661	1 211 531	456 296	112 834	9	11	7	3
		1998	2 034 780	1 390 473	510 148	134 159	1 920 081	1 340 071	444 553	135 457	1	1	1	2
		1997	1 943 338	1 343 638	457 193	142 507	1 803 881	1 225 346	438 106	140 429	X	X	X	X
312140	Distilleries	2001	1 816 952	1 318 404	403 068	95 481	1 825 499	1 286 019	436 070	103 411	9	11	7	11
		2000	1 831 782	1 290 966	439 184	101 632	1 743 444	1 226 590	417 950	98 904	9	11	6	9
		1999	1 819 713	1 273 626	417 554	128 533	1 780 661	1 211 531	456 296	112 834	9	11	7	3
		1998	2 034 780	1 390 473	510 148	134 159	1 920 081	1 340 071	444 553	135 457	1	1	1	2
		1997	1 943 338	1 343 638	457 193	142 507	1 803 881	1 225 346	438 106	140 429	X	X	X	X
3122	Tobacco mfg	2001	5 509 812	768 196	203 640	4 537 976	5 665 610	810 350	222 868	4 632 392	1	3	1	1
		2000	5 659 569	807 467	219 937	4 632 166	6 076 164	767 353	211 539	5 097 272	1	5	1	1
		1999	6 161 352	795 167	207 800	5 158 385	6 498 043	718 778	244 627	5 534 639	1	1	1	1
		1998	6 601 968	743 641	300 402	5 557 925	6 683 198	786 615	334 558	5 562 025	1	1	1	1
		1997	6 565 985	792 639	340 485	5 432 861	6 460 860	708 588	274 206	5 478 066	X	X	X	X
31221	Tobacco stemming & redrying	2001	441 154	245 574	105 065	90 515	492 007	287 491	117 431	87 085	1	1	1	1
		2000	488 197	285 605	115 774	86 818	507 393	263 466	100 993	142 934	1	1	1	1
		1999	595 714	291 159	100 975	203 580	513 728	252 919	136 352	124 457	1	1	1	1
		1998	558 176	246 628	183 882	127 666	661 352	295 945	204 010	161 397	1	1	1	1
		1997	600 142	302 522	205 966	91 654	521 387	263 696	134 544	123 147	X	X	X	X
312210	Tobacco stemming & redrying	2001	441 154	245 574	105 065	90 515	492 007	287 491	117 431	87 085	1	1	1	1
		2000	488 197	285 605	115 774	86 818	507 393	263 466	100 993	142 934	1	1	1	1
		1999	595 714	291 159	100 975	203 580	513 728	252 919	136 352	124 457	1	1	1	1
		1998	558 176	246 628	183 882	127 666	661 352	295 945	204 010	161 397	1	1	1	1
		1997	600 142	302 522	205 966	91 654	521 387	263 696	134 544	123 147	X	X	X	X
31222	Tobacco product mfg	2001	5 068 658	522 622	98 575	4 447 461	5 173 603	522 859	105 437	4 545 307	1	5	2	1
		2000	5 171 372	521 862	104 163	4 545 348	5 568 771	503 887	110 546	4 954 338	1	8	2	1
		1999	5 565 638	504 008	106 825	4 954 805	5 984 315	465 859	108 275	5 410 182	1	2	2	1
		1998	6 043 792	497 013	116 520	5 430 259	6 021 846	490 670	130 548	5 400 628	1	1	1	1
		1997	5 965 843	490 117	134 519	5 341 207	5 939 473	444 892	139 662	5 354 919	X	X	X	X
312221	Cigarette mfg	2001	4 508 055	431 165	62 924	4 013 966	4 596 959	389 927	69 991	4 137 041	1	1	1	1
		2000	4 592 205	387 750	67 349	4 137 106	5 055 251	406 824	74 194	4 574 233	1	1	1	1
		1999	5 051 911	406 856	70 459	4 574 596	5 467 078	367 509	73 157	5 026 412	1	1	1	1
		1998	5 471 695	367 952	73 320	5 030 423	5 504 339	392 744	91 637	5 019 958	1	1	1	1
		1997	5 504 339	392 744	91 637	5 019 958	5 502 531	372 439	103 878	5 026 214	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
312	Beverage & tobacco product mfg—Con.													
3122	Tobacco mfg—Con.													
31222	Tobacco product mfg—Con.													
312229	Other tobacco product mfg	2001	560 603	91 457	35 651	433 495	576 644	132 932	35 446	408 266	7	27	7	3
		2000	579 167	134 112	36 814	408 242	513 520	97 063	36 352	380 105	9	29	6	3
		1999	513 727	97 152	36 366	380 209	517 237	98 350	35 118	383 770	3	9	6	1
		1998	572 097	129 061	43 200	399 836	517 507	97 926	38 911	380 670	1	1	1	1
		1997	461 504	97 373	42 882	321 249	436 942	72 453	35 784	328 705	X	X	X	X
313	Textile mills	2001	5 411 430	2 394 175	1 391 888	1 625 368	6 067 154	2 665 732	1 552 749	1 848 674	2	2	2	5
		2000	6 243 420	2 705 041	1 613 187	1 925 193	6 560 278	2 844 956	1 720 907	1 994 416	2	2	2	4
		1999	6 647 716	2 879 847	1 725 988	2 041 881	6 683 638	2 839 544	1 796 284	2 047 811	2	3	1	4
		1998	6 708 102	2 829 060	1 827 058	2 051 984	6 600 394	2 561 833	1 905 599	2 132 962	1	2	1	2
		1997	6 640 225	2 580 798	1 842 741	2 216 686	6 678 254	2 633 117	1 923 976	2 121 161	X	X	X	X
3131	Fiber, yarn, & thread mills	2001	882 987	385 386	167 197	330 405	1 166 141	549 449	237 967	378 725	12	9	7	20
		2000	1 150 489	550 890	226 444	373 155	1 202 127	586 147	227 516	388 464	9	8	4	17
		1999	1 218 250	588 311	230 849	399 090	1 222 926	581 244	224 930	416 752	12	14	3	14
		1998	1 078 639	479 594	237 315	361 731	1 037 971	367 386	223 347	447 238	1	2	1	2
		1997	1 082 047	376 233	239 253	466 561	1 087 945	410 391	264 620	412 934	X	X	X	X
31311	Fiber, yarn, & thread mills	2001	882 987	385 386	167 197	330 405	1 166 141	549 449	237 967	378 725	12	9	7	20
		2000	1 150 489	550 890	226 444	373 155	1 202 127	586 147	227 516	388 464	9	8	4	17
		1999	1 218 250	588 311	230 849	399 090	1 222 926	581 244	224 930	416 752	12	14	3	14
		1998	1 078 639	479 594	237 315	361 731	1 037 971	367 386	223 347	447 238	1	2	1	2
		1997	1 082 047	376 233	239 253	466 561	1 087 945	410 391	264 620	412 934	X	X	X	X
313111	Yarn spinning mills	2001	427 877	196 924	95 194	135 758	584 002	291 034	126 985	165 983	5	5	7	9
		2000	604 988	307 882	119 586	177 520	610 451	287 523	135 642	187 286	4	7	6	5
		1999	629 643	295 966	138 921	194 756	665 819	301 789	146 100	217 930	2	3	4	4
		1998	682 399	302 014	158 148	222 236	635 920	239 126	146 881	249 913	1	2	2	3
		1997	679 572	244 580	161 355	273 637	702 934	257 057	189 701	256 176	X	X	X	X
313112	Yarn texturing, throwing, & twisting mills	2001	410 781	170 473	53 896	186 412	533 215	235 815	94 194	203 206	24	20	16	35
		2000	497 797	220 837	91 139	185 821	550 431	277 533	80 754	192 144	21	17	6	33
		1999	546 806	270 964	80 634	195 208	515 458	259 108	66 840	189 511	26	30	3	29
		1998	345 100	156 933	62 207	125 959	348 257	106 234	58 026	183 997	2	5	1	2
		1997	350 768	110 475	60 734	179 559	333 589	133 795	56 927	142 867	X	X	X	X
313113	Thread mills	2001	44 330	17 989	18 107	8 235	48 925	22 601	16 788	9 536	2	2	2	6
		2000	47 704	22 171	15 719	9 814	41 244	21 091	11 120	9 034	2	2	1	4
		1999	41 801	21 381	11 294	9 126	41 649	20 347	11 990	9 312	2	2	2	5
		1998	51 141	20 646	16 959	13 536	53 795	22 027	18 441	13 327	1	1	1	1
		1997	51 707	21 178	17 164	13 365	51 422	19 539	17 992	13 891	X	X	X	X
3132	Fabric mills	2001	3 021 808	1 368 231	857 856	795 721	3 403 154	1 508 925	971 010	923 219	2	2	2	5
		2000	3 524 531	1 528 647	1 027 270	968 614	3 741 351	1 618 955	1 103 479	1 018 918	2	2	2	3
		1999	3 780 963	1 633 780	1 116 077	1 031 106	3 800 865	1 575 398	1 188 430	1 037 037	1	1	1	3
		1998	3 880 203	1 629 054	1 192 382	1 058 767	3 899 428	1 540 026	1 256 119	1 103 283	1	2	1	1
		1997	3 878 967	1 563 256	1 219 247	1 096 464	3 957 608	1 586 208	1 275 143	1 096 257	X	X	X	X
31321	Broadwoven fabric mills	2001	1 881 053	906 370	593 222	381 461	2 141 495	983 600	699 866	458 028	2	3	3	4
		2000	2 208 299	981 603	744 585	482 110	2 375 852	1 064 553	798 044	513 255	2	2	3	3
		1999	2 410 475	1 094 714	796 834	518 928	2 429 864	1 021 613	851 833	556 418	1	1	2	2
		1998	2 454 507	1 024 730	847 717	582 061	2 399 645	947 739	874 965	576 940	1	2	1	1
		1997	2 381 334	965 082	830 610	585 642	2 511 797	1 009 921	887 846	614 030	X	X	X	X
313210	Broadwoven fabric mills	2001	1 881 053	906 370	593 222	381 461	2 141 495	983 600	699 866	458 028	2	3	3	4
		2000	2 208 299	981 603	744 585	482 110	2 375 852	1 064 553	798 044	513 255	2	2	3	3
		1999	2 410 475	1 094 714	796 834	518 928	2 429 864	1 021 613	851 833	556 418	1	1	2	2
		1998	2 454 507	1 024 730	847 717	582 061	2 399 645	947 739	874 965	576 940	1	2	1	1
		1997	2 381 334	965 082	830 610	585 642	2 511 797	1 009 921	887 846	614 030	X	X	X	X
31322	Narrow fabric mills & schiffli machine embroidery	2001	311 754	111 179	66 002	134 573	305 258	113 656	61 808	129 794	10	5	6	23
		2000	313 649	118 331	64 109	131 209	325 686	124 161	66 469	135 056	9	4	4	22
		1999	329 510	119 796	75 122	134 592	306 528	112 005	71 990	122 533	9	3	4	21
		1998	275 054	114 439	69 820	90 794	283 742	114 436	75 437	93 868	4	6	3	4
		1997	283 938	114 621	75 314	94 003	272 529	110 244	78 942	83 343	X	X	X	X
313221	Narrow fabric mills	2001	264 290	102 551	63 258	98 481	257 652	104 079	58 438	95 135	3	4	7	6
		2000	266 011	108 738	60 734	96 539	277 595	114 454	63 292	99 848	3	4	4	6
		1999	279 267	111 966	68 599	98 702	257 947	103 998	65 035	88 914	3	2	4	4
		1998	247 425	101 654	63 485	82 286	253 732	100 336	68 568	84 827	5	6	3	5
		1997	253 760	100 406	68 474	84 880	240 676	96 603	71 711	72 362	X	X	X	X
313222	Schiffli machine embroidery	2001	47 464	8 628	2 744	36 092	47 605	9 577	3 370	34 659	64	32	14	84
		2000	47 637	9 593	3 375	34 670	48 092	9 707	3 177	35 207	60	27	17	82
		1999	50 243	7 830	6 524	35 890	48 580	8 007	6 955	33 619	57	19	6	79
		1998	27 628	12 786	6 335	8 508	30 010	14 100	6 869	9 041	9	18	6	5
		1997	30 178	14 215	6 840	9 123	31 853	13 641	7 231	10 981	X	X	X	X
31323	Nonwoven fabric mills	2001	546 647	268 196	106 155	172 295	581 499	310 517	89 086	181 896	3	4	5	5
		2000	595 825	318 786	91 814	185 224	589 338	306 162	93 586	189 589	3	5	4	3
		1999	558 106	280 174	92 213	185 719	569 953	299 147	97 182	173 624	2	3	3	3
		1998	582 582	306 448	94 584	181 550	611 941	304 408	109 976	197 558	1	2	1	3
		1997	596 244	309 471	113 595	173 178	570 189	292 433	100 923	176 833	X	X	X	X
313230	Nonwoven fabric mills	2001	546 647	268 196	106 155	172 295	581 499	310 517	89 086	181 896	3	4	5	5
		2000	595 825	318 786	91 814	185 224	589 338	306 162	93 586	189 589	3	5	4	3
		1999	558 106	280 174	92 213	185 719	569 953	299 147	97 182	173 624	2	3	3	3
		1998	582 582	306 448	94 584	181 550	611 941	304 408	109 976	197 558	1	2	1	3
		1997	596 244	309 471	113 595	173 178	570 189	292 433	100 923	176 833	X	X	X	X
31324	Knit fabric mills	2001	282 354	82 486	92 476	107 392	374 903	101 152	120 249	153 501	6	11	7	7
		2000	406 759	109 926	126 762	170 071	450 476	124 078	145 380	181 017	4	8	4	3
		1999	482 872	139 096	151 909	191 867	494 520	142 633	167 425	184 462	4	7	4	4
		1998	568 060	183 436	180 261	204 363	604 100	173 442	195 741	234 917	3	9	1	1
		1997	617 451	174 082	199 728	243 641	603 093	173 610	207 432	222 051	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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.													
3132	Fabric mills—Con.													
31324	Knit fabric mills—Con.													
313241	Weft knit fabric mills	2001	110 806	27 157	32 937	50 712	149 920	36 174	42 683	71 063	10	20	11	11
		2000	182 228	44 726	50 077	87 425	198 820	53 063	55 703	90 054	5	11	7	5
		1999	208 692	58 073	59 977	90 642	217 104	62 651	64 732	89 721	5	12	6	5
		1998	256 532	86 174	70 853	99 505	286 889	73 979	87 982	124 928	6	18	1	3
		1997	282 194	68 788	87 148	126 258	264 935	72 827	88 427	103 681	X	X	X	X
313249	Other knit fabric & lace mills	2001	171 548	55 329	59 539	56 680	224 983	64 978	77 567	82 438	8	13	9	9
		2000	224 530	65 200	76 685	82 646	251 655	71 015	89 677	90 964	6	11	5	4
		1999	274 180	81 023	91 932	101 225	277 416	79 982	102 693	94 741	6	9	5	6
		1998	311 528	97 262	109 408	104 858	317 211	99 464	107 759	109 988	1	1	1	1
		1997	335 257	105 294	112 580	117 383	338 158	100 783	119 005	118 370	X	X	X	X
3133	Textile & fabric finishing & fabric coating mills	2001	1 506 635	640 557	366 836	499 242	1 497 859	607 358	343 771	546 730	4	5	5	6
		2000	1 568 401	625 504	359 473	583 423	1 616 800	639 854	389 912	587 034	4	4	4	7
		1999	1 648 503	657 755	379 061	611 686	1 659 847	682 902	382 924	594 021	3	3	3	6
		1998	1 749 261	720 413	397 361	631 487	1 662 995	654 421	426 132	582 442	4	5	3	5
		1997	1 679 211	641 309	384 241	653 661	1 632 701	636 518	384 213	611 970	X	X	X	X
31331	Textile & fabric finishing mills	2001	1 168 871	484 260	325 995	358 616	1 177 577	464 940	303 671	408 967	4	6	5	8
		2000	1 233 693	477 019	317 665	439 010	1 302 980	503 769	349 342	449 870	4	5	5	9
		1999	1 333 628	519 727	342 530	471 370	1 323 890	537 666	343 339	442 885	4	4	3	8
		1998	1 422 340	584 008	353 090	485 242	1 332 831	505 853	379 520	447 458	4	6	3	7
		1997	1 342 426	490 029	335 956	516 441	1 291 279	486 394	337 425	467 460	X	X	X	X
313311	Broadwoven fabric finishing mills	2001	826 114	352 402	234 650	239 062	787 238	322 573	197 061	267 604	5	9	6	9
		2000	827 104	329 276	209 573	288 255	903 699	349 857	260 234	293 607	4	8	6	7
		1999	919 349	361 297	254 622	303 430	952 523	381 944	255 246	315 333	4	6	4	6
		1998	1 025 256	432 996	261 886	330 374	944 748	353 057	278 128	313 563	6	8	4	7
		1997	952 919	332 412	236 041	384 466	925 418	347 350	241 164	336 904	X	X	X	X
313312	Textile & fabric finishing mills	2001	342 758	131 859	91 344	119 555	390 339	142 366	106 610	141 363	8	5	9	17
		2000	406 590	147 743	108 092	150 755	399 281	153 911	89 108	156 262	10	4	9	22
		1999	414 279	158 431	87 909	167 940	371 367	155 722	88 093	127 552	8	3	7	20
		1998	397 084	151 012	91 204	154 868	388 084	152 797	101 392	133 895	6	1	3	15
		1997	389 507	157 617	99 915	131 975	365 861	139 044	96 261	130 556	X	X	X	X
31332	Fabric coating mills	2001	337 763	156 297	40 841	140 625	320 282	142 418	40 101	137 763	5	6	13	6
		2000	334 707	148 485	41 809	144 414	313 820	136 085	40 570	137 165	5	5	10	6
		1999	314 875	138 028	36 531	140 316	335 957	145 236	39 585	151 136	4	5	10	4
		1998	326 921	136 405	44 271	146 245	330 164	148 568	46 612	134 984	5	9	6	6
		1997	336 785	151 280	48 285	137 220	341 422	150 124	46 788	144 510	X	X	X	X
313320	Fabric coating mills	2001	337 763	156 297	40 841	140 625	320 282	142 418	40 101	137 763	5	6	13	6
		2000	334 707	148 485	41 809	144 414	313 820	136 085	40 570	137 165	5	5	10	6
		1999	314 875	138 028	36 531	140 316	335 957	145 236	39 585	151 136	4	5	10	4
		1998	326 921	136 405	44 271	146 245	330 164	148 568	46 612	134 984	5	9	6	6
		1997	336 785	151 280	48 285	137 220	341 422	150 124	46 788	144 510	X	X	X	X
314	Textile product mills	2001	4 648 342	2 205 124	749 295	1 693 923	4 651 559	2 128 581	810 266	1 712 712	1	2	2	2
		2000	4 698 284	2 134 208	834 903	1 729 173	4 073 591	1 871 493	776 943	1 425 155	1	2	2	2
		1999	4 218 776	1 928 774	807 096	1 482 906	4 024 002	1 806 254	770 208	1 447 540	1	2	1	2
		1998	4 413 568	2 000 499	821 811	1 591 257	4 275 294	1 941 401	805 901	1 527 991	1	1	2	2
		1997	4 330 993	1 960 918	828 680	1 541 395	4 063 504	1 779 294	777 510	1 506 700	X	X	X	X
3141	Textile furnishings mills	2001	3 371 767	1 604 195	575 206	1 192 366	3 326 788	1 536 645	628 239	1 161 904	1	2	1	1
		2000	3 308 143	1 526 401	629 803	1 151 938	2 754 185	1 290 709	585 850	877 626	1	2	1	2
		1999	2 779 862	1 291 042	589 398	899 423	2 637 030	1 197 833	557 700	881 497	1	2	1	2
		1998	3 003 221	1 396 942	629 007	977 272	2 857 309	1 348 192	603 325	905 791	1	1	2	2
		1997	2 908 180	1 356 220	616 369	935 591	2 699 290	1 198 288	584 914	916 088	X	X	X	X
31411	Carpet & rug mills	2001	1 873 972	829 330	326 054	718 589	1 741 197	763 085	346 380	631 731	1	3	1	1
		2000	1 654 313	720 655	331 726	601 932	1 215 324	540 746	281 889	392 689	1	3	1	1
		1999	1 216 153	539 587	283 241	393 324	1 215 306	530 440	263 499	421 366	1	1	1	1
		1998	1 455 485	681 738	309 724	464 023	1 384 459	647 861	292 123	444 474	1	1	1	1
		1997	1 451 219	678 719	299 834	472 666	1 388 259	610 900	324 434	452 925	X	X	X	X
314110	Carpet & rug mills	2001	1 873 972	829 330	326 054	718 589	1 741 197	763 085	346 380	631 731	1	3	1	1
		2000	1 654 313	720 655	331 726	601 932	1 215 324	540 746	281 889	392 689	1	3	1	1
		1999	1 216 153	539 587	283 241	393 324	1 215 306	530 440	263 499	421 366	1	1	1	1
		1998	1 455 485	681 738	309 724	464 023	1 384 459	647 861	292 123	444 474	1	1	1	1
		1997	1 451 219	678 719	299 834	472 666	1 388 259	610 900	324 434	452 925	X	X	X	X
31412	Curtain & linen mills	2001	1 497 794	774 865	249 152	473 777	1 585 591	773 560	281 859	530 173	2	3	3	4
		2000	1 653 830	805 746	298 077	550 006	1 538 860	749 963	303 961	484 936	2	2	3	3
		1999	1 563 709	751 455	306 156	506 098	1 421 724	667 392	294 201	460 130	2	3	2	3
		1998	1 547 736	715 204	319 283	513 250	1 472 850	700 331	311 202	461 317	3	2	4	4
		1997	1 456 961	677 501	316 535	462 925	1 311 031	587 388	260 480	463 163	X	X	X	X
314121	Curtain & drapery mills	2001	246 542	121 109	25 614	99 818	255 275	95 566	30 463	129 247	7	9	11	8
		2000	259 809	99 095	30 933	129 781	232 287	86 233	29 287	116 767	7	7	10	8
		1999	238 639	88 785	28 775	121 079	233 479	89 091	41 809	102 578	4	7	6	5
		1998	286 190	106 281	45 500	134 409	273 152	94 674	51 642	126 835	3	6	10	4
		1997	265 520	90 388	51 619	123 513	249 845	81 329	47 941	120 575	X	X	X	X
314129	Other household textile product mills	2001	1 251 253	653 757	223 537	373 959	1 330 316	677 994	251 396	400 926	3	3	3	4
		2000	1 394 020	706 651	267 144	420 225	1 306 573	663 730	274 673	368 170	2	2	3	3
		1999	1 325 070	662 670	277 381	385 019	1 188 245	578 301	252 392	357 552	2	3	3	4
		1998	1 261 547	608 922	273 783	378 841	1 199 698	605 657	259 559	334 482	3	2	4	5
		1997	1 191 441	587 113	264 916	339 412	1 061 186	506 059	212 539	342 588	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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
314	Textile product mills—Con.													
3149	Other textile product mills	2001	1 276 575	600 929	174 089	501 557	1 324 772	591 936	182 028	550 808	4	4	6	4
		2000	1 390 141	607 807	205 099	577 235	1 319 406	580 784	191 092	547 529	3	3	5	4
		1999	1 438 914	637 732	217 699	583 483	1 386 972	608 421	212 508	566 043	2	3	3	3
		1998	1 410 347	603 557	192 804	613 985	1 417 985	593 209	202 576	622 200	2	3	4	3
		1997	1 422 813	604 698	212 311	605 804	1 364 214	581 006	192 596	590 612	X	X	X	X
31491	Textile bag & canvas mills	2001	317 118	124 108	42 709	150 301	328 280	128 037	46 806	153 436	5	10	7	6
		2000	324 656	118 828	48 658	157 170	317 666	116 872	47 195	153 599	4	5	6	5
		1999	327 764	122 263	48 664	156 837	331 038	121 263	48 770	161 006	3	4	5	4
		1998	330 673	127 196	46 010	157 466	350 193	127 591	50 692	171 909	3	3	5	4
		1997	350 059	127 399	51 618	171 042	322 220	117 913	46 895	157 412	X	X	X	X
314911	Textile bag mills	2001	122 193	51 668	12 856	57 669	126 031	51 261	13 954	60 815	11	21	15	10
		2000	122 093	42 507	14 294	65 291	114 496	41 702	14 007	58 786	6	8	10	7
		1999	122 344	44 284	15 512	62 549	126 840	42 356	16 932	67 552	6	7	11	7
		1998	143 611	49 905	18 666	75 041	153 807	51 172	20 933	81 702	2	3	3	3
		1997	153 995	50 964	21 003	82 028	135 812	44 055	16 693	75 064	X	X	X	X
314912	Canvas & related product mills	2001	194 926	72 440	29 853	92 633	202 249	76 776	32 852	92 621	5	7	8	8
		2000	202 563	76 321	34 363	91 879	203 170	75 170	33 188	94 813	5	6	7	7
		1999	205 420	77 979	33 152	94 288	204 198	78 906	31 838	93 454	3	4	5	4
		1998	187 062	77 292	27 345	82 425	196 386	76 420	29 759	90 207	5	4	8	8
		1997	196 064	76 435	30 615	89 014	186 408	73 858	30 202	82 348	X	X	X	X
31499	All other textile product mills	2001	959 457	476 821	131 381	351 255	996 492	463 898	135 222	397 372	5	5	8	5
		2000	1 065 485	488 979	156 442	420 065	1 001 739	463 912	143 897	393 930	4	3	6	5
		1999	1 111 149	515 469	169 034	426 646	1 055 934	487 158	163 739	405 037	3	3	4	4
		1998	1 079 674	476 361	146 794	456 519	1 067 792	465 618	151 884	450 290	3	4	5	3
		1997	1 072 754	477 299	160 693	434 762	1 041 994	463 093	145 701	433 200	X	X	X	X
314991	Rope, cordage, & twine mills	2001	138 112	82 239	24 942	30 931	142 007	88 966	20 257	32 785	7	7	10	19
		2000	142 595	87 785	21 101	33 710	141 619	85 029	21 621	34 969	6	5	4	18
		1999	144 862	86 242	23 903	34 717	141 234	86 465	22 454	32 316	6	4	4	17
		1998	135 975	73 863	21 226	40 887	158 409	86 095	24 620	47 694	11	10	22	11
		1997	157 789	84 986	24 255	48 548	141 534	80 631	16 636	44 267	X	X	X	X
314992	Tire cord & tire fabric mills	2001	115 933	67 590	17 887	30 456	120 957	65 532	22 653	32 772	1	1	1	1
		2000	155 952	78 902	32 759	44 291	142 891	72 692	30 190	40 009	1	1	1	1
		1999	138 875	68 281	29 704	40 890	153 059	63 982	33 460	55 617	1	1	1	1
		1998	138 800	57 775	27 338	53 688	133 577	59 965	26 288	47 324	3	1	2	7
		1997	133 577	59 965	26 288	47 324	121 983	55 446	26 783	39 754	X	X	X	X
314999	All other miscellaneous textile product mills	2001	705 412	326 992	88 551	289 869	733 527	309 400	92 312	331 815	6	7	11	6
		2000	766 938	322 292	102 582	342 064	717 230	306 191	92 086	318 953	5	5	9	5
		1999	827 412	360 946	115 428	351 039	761 641	336 712	107 825	317 104	4	4	5	5
		1998	804 898	344 723	98 231	361 944	775 807	319 558	100 977	355 272	3	5	6	3
		1997	781 388	332 348	110 150	338 890	778 477	327 016	102 282	349 179	X	X	X	X
315	Apparel mfg	2001	7 363 372	4 084 501	1 385 802	1 893 068	8 165 036	4 250 233	1 691 440	2 223 363	2	2	3	3
		2000	9 169 675	4 918 672	1 856 233	2 394 770	8 822 782	4 631 770	1 779 567	2 411 444	1	1	2	2
		1999	9 454 091	4 940 172	1 936 038	2 577 881	9 114 090	4 661 570	1 817 572	2 634 948	1	2	1	2
		1998	9 575 323	4 866 890	2 034 348	2 674 086	9 533 203	4 748 810	2 032 143	2 752 250	1	1	1	2
		1997	9 266 744	4 465 689	2 010 164	2 790 891	8 856 417	4 204 660	1 825 616	2 826 141	X	X	X	X
3151	Apparel knitting mills	2001	975 764	464 663	282 976	228 125	1 097 359	482 650	356 694	258 016	4	4	7	5
		2000	1 136 876	489 771	389 355	257 750	1 061 945	461 788	364 422	235 735	2	3	3	4
		1999	1 080 298	468 016	373 215	239 067	1 013 768	457 117	326 827	229 824	2	3	3	3
		1998	1 084 429	464 697	383 067	236 665	1 022 632	414 989	353 620	254 023	2	2	6	2
		1997	1 065 481	449 805	343 241	272 435	1 100 884	465 692	351 924	283 268	X	X	X	X
31511	Hosiery & sock mills	2001	552 029	247 510	179 259	125 260	595 520	250 145	207 346	138 029	3	5	5	8
		2000	611 228	254 518	215 403	141 307	572 929	240 953	211 431	120 546	3	4	3	6
		1999	568 889	238 870	208 819	121 200	547 416	237 759	193 553	116 104	3	4	4	5
		1998	575 285	240 019	212 297	122 969	593 903	256 672	200 784	136 447	1	2	2	3
		1997	594 831	264 093	193 766	136 972	595 820	252 620	209 657	133 543	X	X	X	X
315111	Sheer hosiery mills	2001	242 231	95 117	101 207	45 907	245 882	91 649	101 205	53 028	3	4	4	7
		2000	248 853	93 247	102 046	53 560	217 772	77 638	97 631	42 503	3	4	4	4
		1999	214 957	77 013	96 396	41 547	240 663	101 812	97 904	40 947	3	4	4	6
		1998	248 612	103 044	101 489	44 080	238 557	97 676	91 801	49 080	1	3	2	5
		1997	250 891	104 339	95 743	50 809	264 670	106 129	109 550	48 991	X	X	X	X
315119	Other hosiery & sock mills	2001	309 797	152 392	78 052	79 353	349 638	158 496	106 141	85 001	5	7	9	12
		2000	362 375	161 271	113 357	87 747	355 157	163 315	113 800	78 043	4	6	6	10
		1999	353 932	161 857	112 422	79 653	306 753	135 947	95 649	75 158	4	6	7	7
		1998	326 673	136 975	110 809	78 889	355 346	158 996	108 983	87 367	2	3	2	3
		1997	343 940	159 754	98 023	86 163	331 150	146 491	100 107	84 552	X	X	X	X
31519	Other apparel knitting mills	2001	423 735	217 153	103 717	102 865	501 839	232 504	149 348	119 987	9	7	18	7
		2000	525 648	235 253	173 952	116 443	489 016	220 836	152 992	115 189	4	3	5	4
		1999	511 409	229 146	164 397	117 867	466 352	219 358	133 274	113 720	2	2	3	3
		1998	509 144	224 678	170 770	113 696	428 729	158 317	152 836	117 576	4	4	14	2
		1997	470 650	185 712	149 475	135 463	505 064	213 072	142 267	149 725	X	X	X	X
315191	Outerwear knitting mills	2001	363 169	187 629	87 473	88 067	441 213	213 298	123 821	104 094	11	8	22	8
		2000	464 791	216 047	148 362	100 382	416 644	188 841	130 756	97 048	4	4	5	4
		1999	419 963	189 826	133 324	96 814	381 889	179 738	109 622	92 529	3	3	4	3
		1998	397 018	185 100	117 268	94 649	338 530	112 435	126 310	99 786	2	2	4	2
		1997	351 513	117 085	122 834	111 594	389 305	146 694	118 245	124 366	X	X	X	X
315192	Underwear & nightwear knitting mills	2001	60 566	29 524	16 244	14 798	60 626	19 206	25 527	15 892	6	6	8	9
		2000	60 857	19 206	25 590	16 060	72 372	31 995	22 236	18 141	6	9	5	8
		1999	91 446	39 320	31 073	21 053	84 463	39 620	23 652	21 191	3	4	4	3
		1998	112 126	39 577	53 501	19 047	90 199	45 882	26 526	17 791	15	18	45	1
		1997	119 137	68 627	26 641	23 869	115 759	66 378	24 022	25 359	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3152	Cut & sew apparel mfg	2001	5 752 388	3 294 700	1 026 080	1 431 608	6 423 687	3 446 797	1 258 491	1 718 398	2	3	3	3
		2000	7 331 790	4 086 976	1 381 145	1 863 670	7 081 558	3 828 013	1 337 609	1 915 937	1	2	2	2
		1999	7 679 991	4 127 201	1 482 639	2 070 151	7 408 183	3 864 287	1 413 989	2 129 908	2	2	2	2
		1998	7 703 624	3 994 488	1 560 569	2 148 567	7 757 892	3 960 849	1 584 434	2 212 609	1	2	1	2
		1997	7 470 432	3 648 596	1 571 462	2 250 374	7 045 138	3 369 907	1 382 682	2 292 549	X	X	X	X
31521	Cut & sew apparel contractors	2001	223 649	100 720	65 306	57 624	256 732	81 292	58 629	116 811	24	27	21	50
		2000	288 645	92 994	70 349	125 302	293 142	83 031	58 202	151 909	18	28	19	22
		1999	349 658	111 775	69 366	168 517	379 057	146 538	71 065	161 454	14	21	19	15
		1998	451 360	96 090	84 292	270 977	494 918	132 497	98 556	263 865	4	11	5	4
		1997	506 194	107 151	104 397	294 646	538 250	112 142	79 221	346 887	X	X	X	X
315211	Men's & boys' cut & sew apparel contractors	2001	117 122	41 759	29 157	46 205	114 479	35 726	31 878	46 876	11	19	18	11
		2000	118 191	38 757	33 025	46 408	99 956	29 788	27 306	42 862	10	16	16	9
		1999	106 830	29 879	28 994	47 957	124 502	64 965	27 264	32 273	7	12	12	7
		1998	110 922	26 606	36 552	47 765	135 742	52 604	46 466	36 671	5	8	2	8
		1997	93 041	15 408	42 820	34 813	124 514	42 615	37 080	44 819	X	X	X	X
315212	Women's, girls', & infants' cut & sew apparel contractors	2001	106 528	58 960	36 149	11 419	142 253	45 566	26 752	69 935	49	43	35	A
		2000	170 454	54 236	37 324	78 894	193 186	53 242	30 896	109 047	30	46	33	34
		1999	242 828	81 896	40 372	120 561	254 555	81 573	43 801	129 181	20	28	31	21
		1998	340 437	69 485	47 740	223 213	359 176	79 893	52 090	227 194	5	14	8	5
		1997	413 153	91 743	61 577	259 833	413 736	69 527	42 141	302 068	X	X	X	X
31522	Men's & boys' cut & sew apparel mfg	2001	2 375 502	1 445 411	378 855	551 237	2 763 861	1 589 594	497 759	676 508	3	4	4	5
		2000	2 775 774	1 578 951	517 657	679 165	2 930 034	1 641 827	564 636	723 571	2	3	3	3
		1999	2 989 636	1 648 017	590 469	751 150	2 902 758	1 482 065	577 683	843 010	3	5	2	3
		1998	2 901 613	1 493 430	596 876	811 307	2 833 706	1 465 165	602 168	766 373	1	1	1	1
		1997	2 876 604	1 480 167	625 838	770 599	2 652 250	1 350 191	532 773	769 286	X	X	X	X
315221	Men's & boys' cut & sew underwear & nightwear mfg	2001	87 036	55 658	5 602	25 776	154 773	115 874	20 427	18 473	24	25	79	18
		2000	212 709	156 667	32 978	23 064	166 516	98 440	32 279	35 797	5	3	13	10
		1999	177 880	104 649	35 108	38 123	209 664	137 844	31 421	40 399	6	5	12	6
		1998	103 687	43 008	22 937	37 743	100 617	43 516	23 171	33 930	2	2	2	2
		1997	135 072	71 935	30 121	33 016	121 332	57 198	30 139	33 995	X	X	X	X
315222	Men's & boys' cut & sew suit, coat, & overcoat mfg	2001	316 955	182 304	58 396	76 254	374 273	204 848	67 581	101 844	13	17	10	17
		2000	385 566	212 808	68 503	104 256	478 132	270 957	76 759	130 416	6	10	7	6
		1999	468 396	263 346	77 030	128 020	377 781	178 738	85 830	113 213	20	29	4	13
		1998	380 998	189 610	77 533	113 855	366 247	170 554	86 323	109 370	2	3	3	1
		1997	433 246	214 100	107 759	111 387	400 738	192 726	80 776	127 236	X	X	X	X
315223	Men's & boys' cut & sew shirt (exc work shirt) mfg	2001	732 232	473 546	120 256	138 430	796 889	496 631	146 331	153 928	3	3	7	7
		2000	797 475	486 435	147 982	163 059	915 306	571 287	178 472	165 546	3	3	5	7
		1999	877 076	520 744	184 697	171 635	784 682	406 778	166 496	211 408	2	3	4	5
		1998	943 350	567 641	185 695	190 015	914 617	563 368	175 288	175 961	2	2	4	3
		1997	854 696	508 979	173 500	172 217	830 484	493 424	158 668	178 392	X	X	X	X
315224	Men's & boys' cut & sew trouser, slack, & jean mfg	2001	594 626	330 096	112 047	152 483	750 418	372 747	171 218	206 453	6	7	9	3
		2000	707 688	334 690	179 389	193 609	715 170	348 001	183 127	184 042	5	6	6	4
		1999	785 546	390 140	200 540	194 867	801 819	385 953	191 871	223 995	2	4	2	2
		1998	781 474	362 487	201 448	217 539	799 415	379 640	207 968	211 808	1	1	1	1
		1997	746 677	344 998	197 084	204 595	645 255	306 079	153 920	185 256	X	X	X	X
315225	Men's & boys' cut & sew work clothing mfg	2001	366 460	220 234	48 724	97 502	383 560	215 039	54 226	114 295	9	14	5	7
		2000	357 217	201 669	47 282	108 266	316 723	158 792	49 244	108 687	6	11	5	5
		1999	321 080	164 395	44 846	111 838	320 498	161 353	45 498	113 647	7	12	4	4
		1998	314 167	137 193	52 499	124 475	282 983	124 252	48 719	110 012	5	6	6	6
		1997	289 087	127 571	54 426	107 090	248 709	107 608	40 889	100 212	X	X	X	X
315228	Men's & boys' cut & sew other outerwear mfg	2001	278 194	183 573	33 829	60 792	303 947	184 455	37 977	81 516	13	13	12	31
		2000	315 119	186 683	41 524	86 911	338 187	194 349	44 755	99 083	9	10	9	15
		1999	359 657	204 742	48 247	106 667	408 314	211 400	56 567	140 347	8	10	8	15
		1998	377 936	193 491	56 765	127 680	369 826	183 835	60 699	125 292	2	2	2	3
		1997	417 826	212 584	62 948	142 294	405 732	193 156	68 381	144 195	X	X	X	X
31523	Women's & girls' cut & sew apparel mfg	2001	2 810 714	1 543 762	539 217	727 735	3 078 434	1 598 133	651 369	828 932	3	3	4	3
		2000	3 893 474	2 210 705	730 952	951 817	3 473 790	1 891 506	649 931	932 354	2	2	4	2
		1999	3 913 503	2 140 296	745 643	1 027 564	3 752 386	2 043 394	695 112	1 013 880	2	2	2	2
		1998	3 911 823	2 116 647	798 702	996 474	3 996 604	2 133 842	810 301	1 052 461	1	1	1	1
		1997	3 634 683	1 804 520	769 133	1 061 030	3 441 107	1 684 410	699 744	1 056 953	X	X	X	X
315231	Women's & girls' cut/sew lingerie & nightwear mfg	2001	456 285	232 392	76 061	147 832	498 238	229 467	97 051	171 720	7	11	5	7
		2000	511 883	214 772	99 712	197 399	470 297	201 799	79 698	188 799	7	11	6	4
		1999	568 464	263 957	94 334	210 173	616 755	310 696	93 315	212 744	6	10	7	4
		1998	667 748	367 933	101 698	198 117	718 985	396 470	115 729	206 786	3	3	5	3
		1997	747 553	410 857	115 685	221 011	828 593	472 517	119 744	236 332	X	X	X	X
315232	Women's & girls' cut & sew blouse & shirt mfg	2001	676 226	410 333	141 615	124 278	780 751	471 346	164 161	145 244	6	6	9	10
		2000	1 103 185	789 179	168 619	145 387	896 703	599 994	149 811	146 898	3	2	8	9
		1999	1 020 383	667 805	170 699	181 879	957 784	616 106	152 116	189 562	2	2	6	5
		1998	987 296	659 658	163 872	163 766	984 720	613 307	174 239	197 174	1	1	1	3
		1997	569 027	268 653	131 971	168 403	505 723	225 244	111 395	169 084	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
315	Apparel mfg—Con.													
3152	Cut & sew apparel mfg—Con.													
31523	Women's & girls' cut & sew apparel mfg—Con.													
315233	Women's & girls' cut & sew dress mfg	2001	482 797	194 870	122 411	165 517	537 050	213 136	147 519	176 394	5	7	9	5
		2000	645 160	280 805	164 951	199 403	639 725	287 720	154 657	197 348	5	4	12	4
		1999	647 084	295 117	154 920	197 047	619 442	273 328	154 856	191 259	4	7	2	3
		1998	616 700	269 337	149 042	198 321	645 976	273 017	157 764	215 195	1	1	2	3
		1997	609 885	239 569	165 955	204 361	562 077	200 176	144 184	217 717	X	X	X	X
315234	Women's & girls' cut & sew suit, coat, skirt mfg	2001	216 829	101 062	40 148	75 619	266 274	123 682	48 323	94 269	13	19	15	14
		2000	273 067	124 833	51 919	96 315	289 589	132 110	48 797	108 683	10	12	10	12
		1999	318 256	147 051	56 322	114 883	307 761	146 215	46 941	114 605	8	9	10	8
		1998	626 436	308 565	158 166	159 705	654 485	337 620	162 343	154 522	2	2	1	3
		1997	632 039	349 737	115 626	166 676	549 963	284 258	101 967	163 738	X	X	X	X
315239	Women's & girls' cut & sew other outerwear mfg	2001	978 576	605 105	158 983	214 488	996 121	560 503	194 314	241 304	5	5	5	5
		2000	1 360 180	801 117	245 751	313 312	1 177 476	669 883	216 967	290 625	3	3	3	3
		1999	1 359 316	766 366	269 368	323 581	1 250 643	697 048	247 885	305 710	2	2	3	3
		1998	1 013 642	511 154	225 925	276 564	992 437	513 428	200 226	278 783	1	2	2	3
		1997	1 076 179	535 704	239 896	300 579	994 751	502 215	222 454	270 082	X	X	X	X
31529	Other cut & sew apparel mfg	2001	342 523	204 807	42 703	95 013	324 660	177 778	50 734	96 148	6	6	5	8
		2000	373 898	204 326	62 187	107 386	384 592	211 649	64 840	108 104	4	5	3	7
		1999	427 194	227 112	77 162	122 920	373 982	192 290	70 129	111 563	8	9	5	8
		1998	438 828	288 321	80 698	69 809	432 664	229 345	73 409	129 911	8	22	10	66
		1997	452 951	256 758	72 094	124 099	413 531	223 164	70 944	119 423	X	X	X	X
315291	Infants' cut & sew apparel mfg	2001	44 337	25 443	8 534	10 360	59 545	28 830	16 037	14 678	17	18	4	33
		2000	102 143	50 806	26 673	24 664	133 297	70 951	31 552	30 794	6	8	1	12
		1999	167 412	79 672	42 022	45 718	127 859	54 047	38 832	34 981	18	24	8	18
		1998	141 538	67 357	36 778	37 404	170 829	94 780	38 933	37 116	15	22	4	14
		1997	99 677	37 322	33 350	29 005	97 838	41 681	29 149	27 008	X	X	X	X
315292	Fur & leather apparel mfg	2001	57 377	32 290	6 540	18 547	48 985	23 069	7 188	18 729	13	10	13	28
		2000	52 080	26 300	7 658	18 122	48 663	21 706	7 356	19 602	16	11	16	35
		1999	48 560	23 332	7 818	17 410	46 827	20 071	7 945	18 811	12	10	12	32
		1998	35 837	20 944	6 443	8 450	35 497	19 077	7 381	9 038	3	5	7	3
		1997	36 738	20 232	7 535	8 971	37 255	19 320	7 506	10 429	X	X	X	X
315299	All other cut & sew apparel mfg	2001	240 810	147 074	27 629	66 107	216 130	125 879	27 509	62 741	7	8	7	7
		2000	219 675	127 220	27 857	64 599	202 632	118 992	25 932	57 708	6	7	5	5
		1999	211 222	124 108	27 322	59 793	199 296	118 173	23 352	57 771	4	5	5	4
		1998	261 453	200 020	37 478	23 955	226 339	115 488	27 095	83 757	10	31	21	A
		1997	316 536	199 204	31 209	86 123	278 438	162 163	34 289	81 986	X	X	X	X
3159	Apparel accessories & other apparel mfg	2001	635 219	325 139	76 746	233 334	643 990	320 786	76 255	246 949	3	4	5	5
		2000	701 009	341 926	85 732	273 351	679 278	341 969	77 536	259 773	2	3	4	4
		1999	693 802	344 955	80 184	268 663	692 139	340 167	76 756	275 216	2	4	3	4
		1998	787 271	407 705	90 712	288 854	752 679	372 971	94 089	285 618	1	1	1	2
		1997	730 831	367 288	95 461	268 082	710 395	369 061	91 010	250 324	X	X	X	X
31599	Apparel accessories & other apparel mfg	2001	635 219	325 139	76 746	233 334	643 990	320 786	76 255	246 949	3	4	5	5
		2000	701 009	341 926	85 732	273 351	679 278	341 969	77 536	259 773	2	3	4	4
		1999	693 802	344 955	80 184	268 663	692 139	340 167	76 756	275 216	2	4	3	4
		1998	787 271	407 705	90 712	288 854	752 679	372 971	94 089	285 618	1	1	1	2
		1997	730 831	367 288	95 461	268 082	710 395	369 061	91 010	250 324	X	X	X	X
315991	Hat, cap, & millinery mfg	2001	161 377	72 087	20 204	69 085	170 245	71 400	23 472	75 373	7	9	13	8
		2000	170 788	71 569	23 714	75 504	180 998	82 397	21 882	76 719	7	10	9	9
		1999	182 937	82 987	21 393	78 557	191 862	84 470	22 841	84 551	6	8	8	8
		1998	192 640	90 010	23 419	79 210	176 434	82 396	24 296	69 742	2	3	1	4
		1997	186 120	87 397	24 582	74 141	194 941	93 786	23 865	77 290	X	X	X	X
315992	Glove & mitten mfg	2001	89 003	55 944	10 108	22 951	96 611	59 518	10 562	26 530	3	4	6	7
		2000	100 702	63 000	11 767	25 936	97 132	60 083	11 906	25 143	3	4	4	5
		1999	96 655	59 884	11 836	24 935	99 164	59 639	10 703	28 821	3	4	4	5
		1998	139 445	86 349	15 663	37 432	140 069	86 310	15 867	37 892	1	1	2	A
		1997	130 738	83 304	15 224	32 210	124 765	81 068	16 560	27 137	X	X	X	X
315993	Men's & boys' neckwear mfg	2001	58 203	34 336	4 981	18 886	64 622	39 888	5 461	19 273	12	9	36	17
		2000	65 207	40 247	5 544	19 416	69 449	42 283	5 057	22 110	11	7	32	20
		1999	75 308	45 617	5 968	23 723	88 437	54 580	8 336	25 521	7	5	28	11
		1998	101 755	63 906	10 501	27 349	91 120	51 652	11 799	27 669	2	1	7	3
		1997	91 176	51 830	11 697	27 649	89 329	49 276	12 173	27 880	X	X	X	X
315999	Other apparel accessories & other apparel mfg	2001	326 637	162 771	41 453	122 413	312 513	149 980	36 760	125 773	3	6	3	7
		2000	364 312	167 110	44 707	152 495	331 699	157 207	38 691	135 802	2	5	2	5
		1999	338 901	156 468	40 986	141 447	312 677	141 478	34 876	136 323	2	6	3	4
		1998	353 431	167 440	41 129	144 863	345 056	152 614	42 127	150 316	2	3	1	2
		1997	322 797	144 757	43 958	134 082	301 360	144 931	38 412	118 017	X	X	X	X
316	Leather & allied product mfg	2001	1 478 597	840 132	224 675	413 790	1 548 435	865 331	246 026	437 077	5	6	3	8
		2000	1 634 437	919 220	268 945	446 272	1 634 464	904 118	267 584	462 762	5	6	2	7
		1999	1 675 443	939 360	275 754	460 328	1 666 831	914 157	273 298	479 376	5	6	2	6
		1998	1 744 860	965 287	278 455	501 119	1 717 487	904 127	304 702	508 658	2	2	3	3
		1997	1 717 650	878 447	316 199	523 004	1 676 961	857 036	325 592	494 333	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 & allied product mfg—Con.													
3161	Leather & hide tanning & finishing	2001	305 808	114 367	121 808	69 634	345 535	130 006	141 492	74 037	5	3	4	18
		2000	375 208	140 224	150 802	84 182	357 933	130 648	141 967	85 318	5	5	2	18
		1999	348 003	129 472	143 257	75 274	367 748	135 515	153 046	79 187	2	5	2	1
		1998	366 955	136 423	149 060	81 472	369 811	124 306	162 040	83 465	4	9	3	7
		1997	390 223	128 150	169 238	92 835	409 247	132 610	175 691	100 946	X	X	X	X
31611	Leather & hide tanning & finishing	2001	305 808	114 367	121 808	69 634	345 535	130 006	141 492	74 037	5	3	4	18
		2000	375 208	140 224	150 802	84 182	357 933	130 648	141 967	85 318	5	5	2	18
		1999	348 003	129 472	143 257	75 274	367 748	135 515	153 046	79 187	2	5	2	1
		1998	366 955	136 423	149 060	81 472	369 811	124 306	162 040	83 465	4	9	3	7
		1997	390 223	128 150	169 238	92 835	409 247	132 610	175 691	100 946	X	X	X	X
316110	Leather & hide tanning & finishing	2001	305 808	114 367	121 808	69 634	345 535	130 006	141 492	74 037	5	3	4	18
		2000	375 208	140 224	150 802	84 182	357 933	130 648	141 967	85 318	5	5	2	18
		1999	348 003	129 472	143 257	75 274	367 748	135 515	153 046	79 187	2	5	2	1
		1998	366 955	136 423	149 060	81 472	369 811	124 306	162 040	83 465	4	9	3	7
		1997	390 223	128 150	169 238	92 835	409 247	132 610	175 691	100 946	X	X	X	X
3162	Footwear mfg	2001	761 612	511 888	58 673	191 051	772 704	516 180	59 062	197 462	10	9	9	14
		2000	791 064	540 226	58 046	192 792	808 459	545 300	62 701	200 457	11	11	8	12
		1999	845 858	566 192	69 786	209 879	785 847	501 489	68 195	216 163	10	10	7	12
		1998	801 627	517 012	67 121	217 494	837 467	529 589	77 827	230 051	4	4	8	7
		1997	818 616	500 945	82 129	235 542	782 364	473 584	82 408	226 372	X	X	X	X
31621	Footwear mfg	2001	761 612	511 888	58 673	191 051	772 704	516 180	59 062	197 462	10	9	9	14
		2000	791 064	540 226	58 046	192 792	808 459	545 300	62 701	200 457	11	11	8	12
		1999	845 858	566 192	69 786	209 879	785 847	501 489	68 195	216 163	10	10	7	12
		1998	801 627	517 012	67 121	217 494	837 467	529 589	77 827	230 051	4	4	8	7
		1997	818 616	500 945	82 129	235 542	782 364	473 584	82 408	226 372	X	X	X	X
316211	Rubber & plastics footwear mfg	2001	202 663	160 948	15 709	26 006	204 392	159 353	14 924	30 115	12	9	19	29
		2000	214 563	171 608	15 210	27 745	205 413	158 801	17 843	28 769	11	8	19	24
		1999	215 102	167 129	18 158	29 815	168 845	120 197	17 058	31 591	11	8	15	23
		1998	217 992	151 334	20 118	46 540	214 979	150 126	21 072	43 781	2	1	2	9
		1997	177 316	112 667	20 938	43 711	162 484	105 831	18 996	37 657	X	X	X	X
316212	House slipper mfg	2001	39 594	26 841	1 291	11 462	42 464	28 343	1 514	12 607	1	1	1	1
		2000	46 807	27 519	1 386	17 902	49 098	27 380	1 586	20 132	1	1	1	1
		1999	45 703	26 527	1 338	17 838	51 671	27 178	2 414	22 079	1	1	1	1
		1998	55 345	25 548	3 160	26 637	58 806	32 683	3 445	22 679	1	2	3	1
		1997	65 207	36 525	6 164	22 518	55 172	27 913	5 538	21 721	X	X	X	X
316213	Men's footwear (except athletic) mfg	2001	436 799	283 123	27 961	125 716	451 846	292 403	30 098	129 344	16	15	9	20
		2000	443 306	293 105	28 320	121 880	471 128	316 839	29 185	125 104	18	19	9	19
		1999	476 926	319 526	30 272	127 128	462 320	301 960	31 902	128 458	17	16	8	19
		1998	432 312	293 719	27 693	110 900	436 922	284 843	31 514	120 565	4	3	12	8
		1997	451 677	291 596	33 032	127 049	425 138	269 717	34 601	120 820	X	X	X	X
316214	Women's footwear (except athletic) mfg	2001	60 320	31 207	10 072	19 040	52 835	27 266	8 623	16 946	18	14	30	22
		2000	60 584	34 384	9 757	16 443	58 793	30 650	10 251	17 892	18	13	30	23
		1999	73 537	33 761	15 262	24 514	66 189	32 151	11 483	22 556	14	12	19	15
		1998	47 949	22 075	9 130	16 745	85 207	38 930	16 779	29 498	60	71	41	60
		1997	84 796	38 738	16 933	29 125	94 204	44 278	18 392	31 534	X	X	X	X
316219	Other footwear mfg	2001	22 236	9 769	3 640	8 827	21 166	8 814	3 903	8 449	14	17	20	15
		2000	25 805	13 609	3 374	8 822	24 028	11 631	3 837	8 560	15	23	8	11
		1999	34 590	19 249	4 757	10 584	36 822	20 004	5 339	11 479	8	8	9	10
		1998	48 028	24 337	7 019	16 672	41 553	23 008	5 017	13 529	11	5	27	15
		1997	39 620	21 419	5 062	13 139	45 366	25 845	4 881	14 640	X	X	X	X
3169	Other leather & allied product mfg	2001	411 177	213 878	44 194	153 105	430 196	219 146	45 472	165 578	4	4	7	6
		2000	468 165	238 770	60 096	169 298	468 072	228 170	62 916	176 987	2	3	3	4
		1999	481 582	243 696	62 711	175 175	513 236	277 153	52 056	184 027	2	1	3	3
		1998	576 279	311 852	62 275	202 153	510 209	250 232	64 835	195 142	1	1	3	2
		1997	508 811	249 352	64 832	194 627	485 350	250 842	67 493	167 015	X	X	X	X
31699	Other leather & allied product mfg	2001	411 177	213 878	44 194	153 105	430 196	219 146	45 472	165 578	4	4	7	6
		2000	468 165	238 770	60 096	169 298	468 072	228 170	62 916	176 987	2	3	3	4
		1999	481 582	243 696	62 711	175 175	513 236	277 153	52 056	184 027	2	1	3	3
		1998	576 279	311 852	62 275	202 153	510 209	250 232	64 835	195 142	1	1	3	2
		1997	508 811	249 352	64 832	194 627	485 350	250 842	67 493	167 015	X	X	X	X
316991	Luggage mfg	2001	168 141	108 656	8 363	51 122	179 243	104 565	9 806	64 872	7	3	25	16
		2000	200 730	114 945	12 553	73 233	197 060	114 431	13 450	69 178	3	5	9	8
		1999	220 315	138 920	13 581	67 814	232 278	147 895	13 516	70 866	3	2	9	6
		1998	253 868	157 559	17 614	78 695	214 746	111 589	21 393	81 764	1	1	2	1
		1997	211 261	111 652	19 941	79 668	207 263	104 360	25 985	76 918	X	X	X	X
316992	Women's handbag & purse mfg	2001	53 278	17 549	7 285	28 444	49 206	15 428	6 598	27 180	5	7	8	4
		2000	39 370	21 177	5 603	12 590	54 096	16 315	6 849	30 931	1	1	3	1
		1999	52 404	16 826	6 959	28 619	56 392	15 647	7 206	33 538	1	1	2	1
		1998	69 000	25 924	8 232	34 844	59 278	24 003	7 614	27 661	2	3	6	1
		1997	59 612	24 212	7 766	27 634	44 913	26 763	4 079	14 071	X	X	X	X
316993	Personal leather good (except women's handbag & purse) mfg	2001	60 808	30 948	5 150	24 710	65 120	39 422	4 727	20 971	3	4	4	3
		2000	62 535	37 739	4 492	20 304	62 416	33 745	5 484	23 187	3	4	3	3
		1999	61 868	33 787	5 267	22 813	61 112	32 657	5 726	22 730	4	5	4	5
		1998	73 391	31 997	9 202	32 191	74 289	33 771	9 046	31 471	2	1	7	1
		1997	77 060	33 164	11 144	32 752	80 240	37 281	10 396	32 563	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 & allied product mfg—Con.													
3169	Other leather & allied product mfg—Con.													
31699	Other leather & allied product mfg—Con.													
316999	All other leather good mfg	2001	128 950	56 725	23 396	48 829	136 627	59 731	24 341	52 554	8	12	10	7
		2000	165 529	64 910	37 449	63 171	154 501	63 678	37 133	53 690	5	9	3	4
		1999	146 996	54 164	36 903	55 928	163 454	80 953	25 608	56 893	3	3	3	3
		1998	180 020	96 371	27 226	56 423	161 897	80 868	26 782	54 246	1	4	7	6
		1997	160 878	80 324	25 981	54 573	152 934	82 438	27 033	43 463	X	X	X	X
321	Wood product mfg	2001	9 663 803	3 757 852	1 936 930	3 969 022	10 192 965	4 027 927	2 054 500	4 110 539	1	2	3	2
		2000	10 329 627	4 086 513	2 071 837	4 171 276	10 281 180	3 777 964	2 132 769	4 370 447	1	2	3	2
		1999	10 288 494	3 816 246	2 075 060	4 397 188	9 684 563	3 568 491	1 963 682	4 152 390	1	2	2	1
		1998	9 407 080	3 434 621	1 915 170	4 057 289	9 465 480	3 451 777	1 917 779	4 095 924	1	2	2	2
		1997	9 441 249	3 448 730	1 910 005	4 082 514	8 822 850	3 222 245	1 814 025	3 786 580	X	X	X	X
3211	Sawmills & wood preservation	2001	3 565 839	1 660 333	853 275	1 052 231	3 786 708	1 747 814	899 109	1 139 785	3	3	5	5
		2000	3 873 737	1 801 396	912 376	1 159 966	3 805 163	1 623 419	902 659	1 279 084	2	3	4	5
		1999	3 819 493	1 653 694	877 341	1 288 458	3 674 388	1 576 902	849 579	1 247 907	2	2	3	4
		1998	3 548 062	1 552 397	843 515	1 152 151	3 729 709	1 594 638	891 108	1 243 963	3	4	5	4
		1997	3 719 714	1 600 313	874 310	1 245 091	3 443 319	1 482 817	814 055	1 146 447	X	X	X	X
32111	Sawmills & wood preservation	2001	3 565 839	1 660 333	853 275	1 052 231	3 786 708	1 747 814	899 109	1 139 785	3	3	5	5
		2000	3 873 737	1 801 396	912 376	1 159 966	3 805 163	1 623 419	902 659	1 279 084	2	3	4	5
		1999	3 819 493	1 653 694	877 341	1 288 458	3 674 388	1 576 902	849 579	1 247 907	2	2	3	4
		1998	3 548 062	1 552 397	843 515	1 152 151	3 729 709	1 594 638	891 108	1 243 963	3	4	5	4
		1997	3 719 714	1 600 313	874 310	1 245 091	3 443 319	1 482 817	814 055	1 146 447	X	X	X	X
321113	Sawmills	2001	3 013 031	1 285 827	744 176	983 028	3 156 755	1 300 346	784 141	1 072 268	3	4	6	5
		2000	3 221 457	1 338 421	796 080	1 086 956	3 168 596	1 184 515	777 048	1 207 033	3	3	4	5
		1999	3 155 267	1 198 453	751 481	1 205 333	3 036 374	1 169 392	706 609	1 160 372	2	2	3	4
		1998	2 943 212	1 147 567	696 611	1 099 035	3 119 643	1 191 968	757 352	1 170 322	3	5	5	4
		1997	3 109 215	1 195 244	741 481	1 172 490	2 894 784	1 125 803	694 839	1 074 142	X	X	X	X
321114	Wood preservation	2001	552 808	374 506	109 099	69 203	629 953	447 467	114 969	67 517	4	5	10	8
		2000	652 281	462 975	116 296	73 009	636 566	438 904	125 611	72 051	5	6	9	11
		1999	664 226	455 240	125 860	83 125	638 014	407 509	142 970	87 535	5	5	7	10
		1998	604 850	404 830	146 905	53 116	610 067	402 669	133 756	73 641	6	6	17	29
		1997	610 499	405 069	132 829	72 601	548 535	357 014	119 216	72 305	X	X	X	X
3212	Veneer, plywood, & engineered wood product mfg	2001	1 748 057	691 170	185 666	871 220	1 868 431	724 987	237 088	906 355	2	4	9	2
		2000	1 924 603	736 235	243 009	945 360	1 863 285	675 186	247 820	940 279	2	3	10	2
		1999	1 843 568	649 491	242 828	951 249	1 733 401	605 209	216 067	912 125	2	4	9	2
		1998	1 702 099	610 163	189 854	902 082	1 703 949	627 991	167 392	908 566	2	1	4	3
		1997	1 721 182	627 708	183 693	909 781	1 583 769	568 289	175 990	839 490	X	X	X	X
32121	Veneer, plywood, & engineered wood product mfg	2001	1 748 057	691 170	185 666	871 220	1 868 431	724 987	237 088	906 355	2	4	9	2
		2000	1 924 603	736 235	243 009	945 360	1 863 285	675 186	247 820	940 279	2	3	10	2
		1999	1 843 568	649 491	242 828	951 249	1 733 401	605 209	216 067	912 125	2	4	9	2
		1998	1 702 099	610 163	189 854	902 082	1 703 949	627 991	167 392	908 566	2	1	4	3
		1997	1 721 182	627 708	183 693	909 781	1 583 769	568 289	175 990	839 490	X	X	X	X
321211	Hardwood veneer & plywood mfg	2001	494 126	247 853	56 286	189 987	519 101	239 211	67 775	212 116	5	7	13	7
		2000	532 834	247 007	70 501	215 326	460 460	210 182	63 337	186 941	4	6	13	5
		1999	443 264	187 176	63 313	192 775	439 681	192 651	57 539	189 492	3	3	12	5
		1998	415 270	180 396	51 453	183 421	423 284	163 090	43 522	216 672	7	2	12	17
		1997	424 786	163 108	44 209	217 469	394 217	158 413	37 277	198 527	X	X	X	X
321212	Softwood veneer & plywood mfg	2001	347 041	97 113	62 964	186 963	401 149	118 338	86 615	196 196	5	2	24	2
		2000	417 350	123 972	90 988	202 389	418 154	106 037	101 360	210 757	5	1	25	2
		1999	410 003	101 596	101 001	207 406	367 877	85 950	87 518	194 409	5	2	20	2
		1998	362 307	81 597	72 276	208 434	383 828	118 323	62 213	203 292	2	7	4	2
		1997	405 576	123 879	78 084	203 613	385 158	116 275	79 817	189 066	X	X	X	X
321213	Engineered wood member (except truss) mfg	2001	166 170	89 798	16 589	59 783	155 803	77 371	22 859	55 573	10	25	14	14
		2000	155 803	77 371	22 859	55 573	181 193	95 141	21 748	64 305	8	25	9	17
		1999	181 926	96 961	20 141	64 824	149 774	74 571	15 944	59 259	5	21	7	20
		1998	154 374	92 232	14 073	48 069	158 194	88 096	14 338	55 760	1	1	8	1
		1997	158 227	88 111	14 341	55 775	124 192	71 515	11 166	41 511	X	X	X	X
321214	Truss mfg	2001	314 287	91 118	19 526	203 642	324 987	102 272	20 858	201 857	3	6	11	5
		2000	328 099	89 841	21 398	216 861	334 333	91 346	25 151	217 836	3	6	10	4
		1999	341 618	90 629	25 602	225 387	309 512	84 626	25 087	199 798	4	6	22	5
		1998	303 108	85 648	19 405	198 055	283 750	79 943	16 515	187 293	3	7	8	3
		1997	276 197	74 516	16 093	185 588	255 489	68 720	15 258	171 511	X	X	X	X
321219	Reconstituted wood product mfg	2001	426 433	165 288	30 302	230 844	467 391	187 796	38 981	240 613	3	3	5	4
		2000	490 518	198 044	37 262	255 211	469 145	172 480	36 224	260 441	2	2	3	2
		1999	466 758	173 129	32 772	260 857	466 556	167 410	29 980	269 165	2	2	3	2
		1998	467 040	170 290	32 646	264 103	454 893	178 539	30 804	245 549	1	1	2	1
		1997	456 396	178 094	30 966	247 336	424 713	153 366	32 472	238 875	X	X	X	X
3219	Other wood product mfg	2001	4 349 907	1 406 349	897 988	2 045 571	4 537 827	1 555 126	918 302	2 064 399	2	3	3	3
		2000	4 531 286	1 548 882	916 453	2 065 951	4 612 732	1 479 358	982 290	2 151 083	2	4	3	2
		1999	4 625 433	1 513 062	954 891	2 157 480	4 276 774	1 386 381	898 035	1 992 358	2	3	4	2
		1998	4 156 919	1 272 062	881 801	2 003 056	4 031 822	1 229 149	859 279	1 943 395	1	2	2	1
		1997	4 000 353	1 220 709	852 002	1 927 642	3 795 762	1 171 139	823 980	1 800 643	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
321	Wood product mfg—Con.													
3219	Other wood product mfg—Con.													
32191	Millwork	2001	2 590 754	818 808	583 233	1 188 713	2 702 977	879 042	617 956	1 205 979	2	4	3	3
		2000	2 683 765	869 551	612 262	1 201 952	2 663 319	798 809	634 788	1 229 722	2	6	3	3
		1999	2 644 167	820 294	603 255	1 220 618	2 505 197	772 223	593 768	1 139 206	2	5	3	2
		1998	2 479 805	746 840	598 154	1 134 810	2 486 360	750 320	598 980	1 137 061	1	3	2	2
		1997	2 451 993	741 041	592 722	1 118 230	2 323 679	708 210	571 020	1 044 449	X	X	X	X
321911	Wood window & door mfg	2001	1 028 277	250 124	209 280	568 874	1 104 815	317 358	213 015	574 442	3	9	5	5
		2000	1 098 376	317 348	207 609	573 419	1 147 020	297 173	234 595	615 251	4	12	4	4
		1999	1 083 709	295 028	205 032	583 649	1 013 816	258 774	213 117	541 925	3	11	4	4
		1998	1 022 781	230 809	241 986	549 987	1 022 792	221 471	241 318	560 004	1	3	2	1
		1997	1 008 225	219 029	238 065	551 131	995 380	221 290	250 771	523 319	X	X	X	X
321912	Cut stock, resawing lumber, & planing	2001	766 920	320 398	194 700	251 822	831 653	326 960	217 761	286 931	5	7	6	6
		2000	838 197	322 811	222 174	293 212	816 141	298 345	215 779	302 017	4	7	7	6
		1999	823 684	310 054	207 750	305 880	769 927	290 572	200 640	278 715	3	6	6	4
		1998	802 210	328 147	190 492	283 571	824 296	347 168	183 971	293 156	3	6	5	4
		1997	818 187	342 467	182 078	293 642	768 544	329 991	168 424	270 129	X	X	X	X
321918	Other millwork (including flooring)	2001	795 557	248 287	179 253	368 017	766 510	234 724	187 180	344 606	3	6	5	4
		2000	747 192	229 392	182 479	335 322	700 158	203 291	184 413	312 454	4	6	4	6
		1999	736 775	215 213	190 474	331 088	721 454	222 878	180 011	318 566	3	5	4	5
		1998	654 813	187 885	165 677	301 252	639 273	181 681	173 691	283 901	2	2	2	3
		1997	625 581	179 545	172 579	273 457	559 755	156 929	151 825	251 001	X	X	X	X
32192	Wood container & pallet mfg	2001	445 793	144 301	93 416	208 076	443 283	149 360	70 397	223 526	3	6	5	5
		2000	461 820	164 917	70 962	225 941	463 384	159 183	77 120	227 081	5	10	9	4
		1999	478 666	164 044	78 143	236 479	428 582	146 459	73 038	209 085	5	12	8	4
		1998	387 437	109 011	60 046	218 380	357 002	91 326	61 704	203 972	2	5	2	1
		1997	357 877	92 038	61 437	204 402	332 410	88 060	59 612	184 738	X	X	X	X
321920	Wood container & pallet mfg	2001	445 793	144 301	93 416	208 076	443 283	149 360	70 397	223 526	3	6	5	5
		2000	461 820	164 917	70 962	225 941	463 384	159 183	77 120	227 081	5	10	9	4
		1999	478 666	164 044	78 143	236 479	428 582	146 459	73 038	209 085	5	12	8	4
		1998	387 437	109 011	60 046	218 380	357 002	91 326	61 704	203 972	2	5	2	1
		1997	357 877	92 038	61 437	204 402	332 410	88 060	59 612	184 738	X	X	X	X
32199	All other wood product mfg	2001	1 313 360	443 239	221 339	648 781	1 391 567	526 723	229 949	634 894	4	5	7	5
		2000	1 385 701	514 415	233 229	638 057	1 486 029	521 366	270 382	694 281	3	4	8	2
		1999	1 502 600	528 723	273 493	700 384	1 342 996	467 698	231 229	644 068	4	5	11	2
		1998	1 289 677	416 210	223 601	649 866	1 188 460	387 503	198 595	602 362	1	1	5	1
		1997	1 190 483	387 630	197 843	605 010	1 139 673	374 869	193 348	571 456	X	X	X	X
321991	Manufactured home (mobile home) mfg	2001	307 604	55 765	53 707	198 133	380 711	104 185	53 959	222 567	4	18	5	3
		2000	379 317	101 929	57 170	220 218	482 155	140 450	68 676	273 029	5	15	3	2
		1999	487 864	143 523	69 294	275 047	433 680	103 394	66 721	263 565	5	14	3	2
		1998	411 380	76 759	66 840	267 782	370 091	60 558	58 854	250 679	1	3	2	1
		1997	369 809	61 150	58 750	249 909	353 238	60 927	53 288	239 023	X	X	X	X
321992	Prefabricated wood building mfg	2001	338 920	89 430	52 310	197 180	309 577	92 960	49 143	167 475	9	7	8	15
		2000	307 023	87 297	48 581	171 146	306 778	78 575	51 610	176 593	4	6	7	4
		1999	316 722	80 585	53 115	183 022	283 597	72 973	45 045	165 580	3	6	7	3
		1998	291 623	72 091	40 945	178 587	261 974	67 110	36 839	158 025	3	4	5	4
		1997	262 136	66 889	36 544	158 703	263 351	68 004	36 774	158 573	X	X	X	X
321999	All other miscellaneous wood product mfg	2001	666 835	298 045	115 322	253 468	701 278	329 579	126 848	244 852	5	6	14	6
		2000	699 360	325 189	127 478	246 694	697 097	302 341	150 096	244 660	5	5	14	5
		1999	698 013	304 615	151 084	242 315	625 719	291 332	119 463	214 923	7	6	20	5
		1998	586 673	267 361	115 816	203 497	556 395	259 835	102 902	193 658	2	2	9	3
		1997	558 538	259 591	102 549	196 398	523 084	245 938	103 286	173 860	X	X	X	X
322	Paper mfg	2001	14 950 161	6 533 874	1 327 791	7 088 496	15 255 548	6 444 285	1 383 310	7 427 953	1	1	1	1
		2000	15 205 549	6 427 669	1 346 842	7 431 038	14 873 412	6 153 452	1 355 900	7 364 060	1	1	1	1
		1999	15 033 034	6 253 876	1 364 320	7 414 838	14 688 914	6 344 938	1 327 392	7 016 583	1	1	1	1
		1998	15 345 406	6 559 318	1 389 878	7 396 210	15 040 034	6 228 824	1 433 717	7 377 493	1	1	1	2
		1997	15 041 523	6 222 299	1 463 712	7 355 512	14 892 766	6 034 467	1 457 681	7 400 618	X	X	X	X
3221	Pulp, paper, & paperboard mills	2001	6 942 238	3 100 455	528 557	3 313 226	6 818 983	2 956 105	502 733	3 360 144	1	1	2	1
		2000	6 800 352	2 928 390	495 552	3 376 411	6 636 032	2 749 440	504 932	3 381 661	1	1	1	1
		1999	6 671 567	2 762 953	508 302	3 400 312	6 778 451	2 948 681	503 647	3 326 124	1	1	1	1
		1998	7 051 210	3 058 908	558 084	3 434 218	6 817 096	2 832 873	572 649	3 411 574	1	1	3	1
		1997	6 850 669	2 828 538	606 623	3 415 508	6 981 686	2 802 532	607 302	3 571 852	X	X	X	X
32211	Pulp mills	2001	419 647	219 395	18 315	181 937	406 506	188 206	26 813	191 487	1	1	3	2
		2000	404 036	186 871	26 715	190 450	362 518	163 251	21 154	178 113	1	1	1	2
		1999	361 830	163 389	21 266	177 175	389 400	197 084	22 615	169 701	1	1	2	1
		1998	407 286	204 784	23 457	179 044	392 449	204 532	21 588	166 330	2	2	2	2
		1997	394 275	205 504	21 599	167 172	472 894	243 223	45 737	183 934	X	X	X	X
322110	Pulp mills	2001	419 647	219 395	18 315	181 937	406 506	188 206	26 813	191 487	1	1	3	2
		2000	404 036	186 871	26 715	190 450	362 518	163 251	21 154	178 113	1	1	1	2
		1999	361 830	163 389	21 266	177 175	389 400	197 084	22 615	169 701	1	1	2	1
		1998	407 286	204 784	23 457	179 044	392 449	204 532	21 588	166 330	2	2	2	2
		1997	394 275	205 504	21 599	167 172	472 894	243 223	45 737	183 934	X	X	X	X
32212	Paper mills	2001	4 947 754	2 332 790	453 948	2 161 016	4 938 863	2 268 632	423 975	2 246 255	1	1	2	1
		2000	4 885 339	2 228 917	412 398	2 244 025	4 798 661	2 134 780	434 370	2 229 512	1	1	1	1
		1999	4 853 532	2 152 695	437 668	2 263 169	4 892 830	2 260 386	435 725	2 196 719	1	1	1	1
		1998	5 101 286	2 345 501	489 532	2 266 253	4 890 109	2 132 824	498 769	2 258 516	1	1	3	1
		1997	4 930 751	2 129 399	533 085	2 268 267	4 952 255	2 115 380	486 320	2 350 555	X	X	X	X
322121	Paper (except newsprint) mills	2001	4 646 267	2 267 653	450 174	1 928 440	4 656 272	2 217 445	421 664	2 017 162	1	1	2	1
		2000	4 591 724	2 174 258	409 047	2 008 419	4 494 662	2 072 884	430 629	1 991 149	1	1	1	1
		1999	4 549 200	2 090 670	433 912	2 024 618	4 586 047	2 192 246	428 619	1 965 181	1	1	1	1
		1998	4 746 728	2 271 797	482 357	1 992 574	4 534 292	2 050 918	489 653	1 993 721	1	1	3	1
		1997	4 571 287	2 047 490	522 415	2 001 382	4 553 876	2 014 891	477 603	2 061 382	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3221	Pulp, paper, & paperboard mills—Con.													
32212	Paper mills—Con.													
322122	Newsprint mills	2001	301 487	65 137	3 774	232 576	282 591	51 187	2 311	229 093	2	2	22	2
		2000	293 615	54 659	3 350	235 606	303 999	61 896	3 741	238 362	2	1	24	2
		1999	304 332	62 025	3 756	238 551	306 783	68 141	7 105	231 537	2	1	22	2
		1998	354 558	73 704	7 175	273 679	355 817	81 905	9 116	264 795	2	4	8	2
		1997	359 464	81 909	10 670	266 885	398 379	100 489	8 717	289 173	X	X	X	X
32213	Paperboard mills	2001	1 574 838	548 271	56 294	970 273	1 473 614	499 267	51 945	922 402	1	1	1	1
		2000	1 510 977	512 601	56 439	941 937	1 474 854	451 409	49 409	974 037	1	1	1	1
		1999	1 456 205	446 869	49 368	959 967	1 496 221	491 211	45 307	959 704	1	1	1	1
		1998	1 542 638	508 622	45 095	988 921	1 534 538	495 518	52 292	986 728	1	1	1	1
		1997	1 525 643	493 635	51 939	980 069	1 556 537	443 929	75 245	1 037 363	X	X	X	X
322130	Paperboard mills	2001	1 574 838	548 271	56 294	970 273	1 473 614	499 267	51 945	922 402	1	1	1	1
		2000	1 510 977	512 601	56 439	941 937	1 474 854	451 409	49 409	974 037	1	1	1	1
		1999	1 456 205	446 869	49 368	959 967	1 496 221	491 211	45 307	959 704	1	1	1	1
		1998	1 542 638	508 622	45 095	988 921	1 534 538	495 518	52 292	986 728	1	1	1	1
		1997	1 525 643	493 635	51 939	980 069	1 556 537	443 929	75 245	1 037 363	X	X	X	X
3222	Converted paper product mfg	2001	8 007 922	3 433 418	799 234	3 775 270	8 436 565	3 488 180	880 576	4 067 809	1	2	2	1
		2000	8 405 197	3 499 279	851 291	4 054 627	8 237 380	3 404 013	850 968	3 982 399	1	1	2	1
		1999	8 361 467	3 490 923	856 018	4 014 526	7 910 462	3 396 258	823 745	3 690 460	1	1	2	1
		1998	8 294 196	3 500 410	831 794	3 961 992	8 222 938	3 395 950	861 069	3 965 920	2	2	1	3
		1997	8 190 854	3 393 761	857 089	3 940 004	7 911 080	3 231 935	850 379	3 828 766	X	X	X	X
32221	Paperboard container mfg	2001	4 152 937	1 565 140	332 309	2 255 488	4 408 895	1 621 638	356 210	2 431 046	2	2	2	2
		2000	4 407 700	1 631 176	357 452	2 419 072	4 225 589	1 558 884	355 865	2 310 839	1	2	2	2
		1999	4 313 853	1 617 087	361 850	2 334 916	3 921 041	1 527 665	328 525	2 064 850	1	2	2	1
		1998	4 174 374	1 586 364	334 763	2 253 246	4 036 862	1 486 329	347 757	2 202 776	3	3	3	4
		1997	4 029 927	1 486 719	347 554	2 195 654	3 976 715	1 450 895	349 469	2 176 351	X	X	X	X
322211	Corrugated & solid fiber box mfg	2001	2 468 742	710 683	130 078	1 627 980	2 619 527	741 310	139 737	1 738 480	2	2	4	3
		2000	2 620 234	742 921	140 533	1 736 780	2 428 815	657 456	137 175	1 634 185	2	2	3	2
		1999	2 492 243	692 279	140 140	1 659 824	2 128 646	607 304	108 376	1 412 966	1	2	3	2
		1998	2 264 685	665 379	110 074	1 489 231	2 211 842	596 465	122 631	1 492 746	3	5	5	3
		1997	2 205 249	597 476	122 677	1 485 096	2 163 016	573 265	123 991	1 465 760	X	X	X	X
322212	Folding paperboard box mfg	2001	981 843	549 938	151 198	280 707	1 068 522	572 110	166 704	329 708	2	2	2	2
		2000	1 064 105	577 802	168 020	318 283	1 100 582	585 370	170 050	345 162	1	2	2	2
		1999	1 092 189	574 923	174 192	343 075	1 060 347	568 322	172 286	319 738	1	2	2	2
		1998	1 102 507	590 404	166 797	345 306	1 123 190	590 015	177 114	356 061	1	2	3	2
		1997	1 131 761	593 900	178 334	359 527	1 144 980	599 415	181 395	364 170	X	X	X	X
322213	Setup paperboard box mfg	2001	66 842	28 926	7 831	30 086	68 560	31 586	7 949	29 025	14	17	12	14
		2000	69 891	32 351	8 066	29 474	67 948	33 234	8 698	26 016	12	12	11	12
		1999	63 047	31 246	7 474	24 326	72 831	33 614	9 711	29 506	6	7	7	7
		1998	S	S	S	S	S	S	S	S	X	X	X	X
		1997	78 276	35 821	9 187	33 268	77 735	31 125	9 953	36 657	X	X	X	X
322214	Fiber can, tube, drum, & similar products mfg	2001	180 619	48 234	8 446	123 940	191 601	49 502	9 151	132 948	6	9	19	7
		2000	191 737	49 982	8 350	133 405	189 257	49 075	8 332	131 850	8	8	19	9
		1999	187 099	47 912	8 113	131 074	171 446	42 209	7 479	121 758	4	5	20	5
		1998	175 754	44 104	11 307	120 343	175 141	42 270	9 837	123 034	4	11	18	3
		1997	176 401	42 078	10 159	124 164	180 618	43 751	8 985	127 882	X	X	X	X
322215	Nonfolding sanitary food container mfg	2001	454 891	227 360	34 756	192 775	460 685	227 131	32 668	200 886	7	14	2	2
		2000	461 734	228 119	32 484	201 131	438 987	233 750	31 611	173 626	7	14	2	2
		1999	479 275	270 727	31 931	176 616	487 770	276 216	30 672	180 882	8	13	2	2
		1998	420 891	210 504	27 767	182 620	436 662	217 278	27 173	192 211	2	3	1	2
		1997	438 240	217 444	27 197	193 599	410 366	203 339	25 145	181 882	X	X	X	X
32222	Paper bag & coated & treated paper mfg	2001	1 977 099	859 816	344 345	772 938	2 155 617	888 548	397 722	869 347	2	2	2	2
		2000	2 089 969	877 730	356 927	855 313	2 156 700	882 448	364 139	910 113	1	2	2	2
		1999	2 170 412	888 490	363 586	918 336	2 154 483	873 461	361 934	919 087	1	1	2	2
		1998	2 225 159	891 664	371 036	962 459	2 258 497	874 485	382 732	1 001 279	1	1	1	2
		1997	2 250 124	871 145	385 061	993 918	2 185 130	854 475	363 482	967 173	X	X	X	X
322221	Coated & laminated packaging paper & plastics film mfg	2001	192 380	85 409	22 731	84 241	197 324	84 513	27 971	84 839	3	2	6	8
		2000	197 779	86 020	28 958	82 801	200 702	85 592	30 750	84 361	5	2	4	9
		1999	206 145	83 355	29 661	93 129	204 826	84 793	28 720	91 314	3	2	9	3
		1998	171 911	82 144	20 836	68 932	187 802	83 526	22 457	81 819	9	4	15	21
		1997	188 442	83 535	22 372	82 535	175 013	78 595	20 472	75 946	X	X	X	X
322222	Coated & laminated paper mfg	2001	1 110 594	476 551	247 437	386 607	1 263 119	527 341	290 514	445 265	3	4	2	3
		2000	1 188 747	510 962	249 067	428 719	1 193 616	499 184	254 479	439 952	2	3	2	3
		1999	1 203 580	506 361	253 058	444 162	1 236 416	503 885	257 832	474 699	2	2	2	2
		1998	1 294 723	513 433	267 497	513 793	1 282 806	493 849	270 103	518 854	1	1	1	1
		1997	1 284 652	492 856	274 268	517 528	1 253 733	499 646	258 404	495 683	X	X	X	X
322223	Plastics, foil, & coated paper bag mfg	2001	44 967	21 561	4 239	19 167	45 793	18 378	4 035	23 380	2	3	17	4
		2000	46 918	18 921	4 080	23 917	53 077	23 698	4 169	25 210	2	3	18	3
		1999	52 098	22 953	4 309	24 837	53 301	23 651	3 010	26 640	2	3	17	3
		1998	61 134	26 117	4 871	30 147	63 130	29 061	6 566	27 503	2	2	15	3
		1997	63 058	28 879	6 852	27 327	62 888	28 140	6 181	28 567	X	X	X	X
322224	Uncoated paper & multiwall bag mfg	2001	351 157	148 403	24 356	178 398	382 693	149 238	35 354	198 100	2	3	9	2
		2000	388 954	152 340	35 402	201 211	417 270	153 933	32 036	231 301	2	3	6	4
		1999	414 225	154 702	33 095	226 428	382 398	140 986	30 539	210 874	2	2	8	4
		1998	397 744	149 419	31 366	216 959	421 946	146 690	34 762	240 494	1	1	1	1
		1997	415 233	144 422	34 654	236 157	401 445	139 048	31 589	230 808	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3222	Converted paper product mfg—Con.													
32222	Paper bag & coated & treated paper mfg—Con.													
322225	Laminated aluminum foil mfg for flexible packaging uses	2001	198 775	92 375	40 562	65 838	191 194	80 562	34 427	76 205	1	1	2	2
		2000	190 901	80 435	34 378	76 088	206 966	88 625	36 331	82 011	1	2	2	2
		1999	209 184	89 655	37 081	82 448	201 146	84 802	36 558	79 786	1	1	2	2
		1998	218 662	87 238	38 606	92 818	222 075	91 247	39 431	91 397	2	1	1	4
		1997	217 605	91 204	37 315	89 086	209 036	78 726	37 677	92 633	X	X	X	X
322226	Surface-coated paperboard mfg	2001	79 226	35 517	5 020	38 688	75 495	28 516	5 422	41 558	2	2	4	3
		2000	76 670	29 052	5 042	42 577	85 069	31 417	6 374	47 278	2	2	3	3
		1999	85 180	31 465	6 382	47 333	76 396	35 345	5 276	35 776	2	2	2	2
		1998	80 985	33 313	7 861	39 811	80 738	30 113	9 413	41 212	3	4	1	3
		1997	81 134	30 249	9 600	41 285	83 015	30 320	9 159	43 536	X	X	X	X
32223	Stationery product mfg	2001	984 117	595 361	60 138	328 618	989 453	586 519	60 192	342 743	2	2	6	3
		2000	998 370	591 671	60 919	345 780	978 284	574 255	67 186	336 843	1	2	6	3
		1999	988 518	583 836	66 154	338 527	974 920	590 863	68 360	315 697	1	2	6	2
		1998	952 305	550 984	65 157	336 163	999 929	563 446	73 896	362 587	1	1	4	3
		1997	995 268	570 422	71 512	353 334	818 531	428 360	81 084	309 087	X	X	X	X
322231	Die-cut paper & paperboard office supplies mfg	2001	250 652	147 458	14 737	88 458	231 816	126 631	16 713	88 472	4	4	21	6
		2000	235 478	128 490	17 101	89 886	241 436	128 290	21 090	92 057	4	3	18	8
		1999	243 236	132 132	20 343	90 761	228 906	125 369	24 884	78 652	3	2	16	8
		1998	234 953	123 284	22 346	89 323	244 550	134 142	23 262	87 146	2	1	7	6
		1997	241 005	136 337	23 088	81 580	187 819	93 316	28 187	66 316	X	X	X	X
322232	Envelope mfg	2001	339 235	186 468	23 323	129 443	363 430	195 872	25 327	142 231	3	3	5	3
		2000	366 687	197 585	25 534	143 568	362 686	204 039	26 620	132 027	2	2	5	2
		1999	360 330	201 000	26 182	133 147	349 679	194 759	25 289	129 631	1	2	4	3
		1998	353 447	182 913	26 119	144 416	376 088	184 764	29 745	161 580	2	2	7	4
		1997	374 132	187 059	27 925	159 148	357 526	167 644	33 187	156 695	X	X	X	X
322233	Stationery, tablet, & related product mfg	2001	394 230	261 436	22 078	110 717	394 208	264 017	18 151	112 040	2	4	7	7
		2000	396 205	265 596	18 283	112 326	374 163	241 927	19 477	112 759	1	3	6	6
		1999	384 952	250 704	19 629	114 619	396 335	270 735	18 187	107 413	2	4	5	2
		1998	363 904	244 787	16 693	102 424	379 290	244 540	20 889	113 861	2	2	8	6
		1997	380 131	247 026	20 499	112 606	273 186	167 400	19 710	86 076	X	X	X	X
32229	Other converted paper product mfg	2001	893 770	413 101	62 443	418 226	882 599	391 474	66 452	424 673	5	6	12	6
		2000	909 158	398 703	75 993	434 462	876 807	388 425	63 777	424 605	5	7	13	5
		1999	888 685	401 510	64 429	422 746	860 019	404 268	64 926	390 825	5	7	16	4
		1998	942 359	471 397	60 838	410 124	927 651	471 690	56 683	399 277	6	10	5	9
		1997	915 535	465 475	52 962	397 098	930 704	498 205	56 344	376 155	X	X	X	X
322291	Sanitary paper product mfg	2001	412 675	226 975	21 457	164 243	384 691	193 596	17 806	173 288	8	8	11	9
		2000	382 164	190 897	17 323	173 943	420 004	198 101	13 696	208 207	9	10	11	8
		1999	418 757	200 782	13 741	204 234	402 517	216 145	16 401	169 971	8	9	14	8
		1998	525 278	288 585	21 173	215 520	494 872	261 173	18 517	215 182	2	3	5	1
		1997	483 062	249 581	17 628	215 853	508 611	272 743	19 749	216 119	X	X	X	X
322299	All other converted paper product mfg	2001	481 095	186 126	40 985	253 983	497 909	197 878	48 646	251 385	7	10	17	8
		2000	526 994	207 806	58 670	260 518	456 803	190 324	50 081	216 398	7	10	16	6
		1999	469 928	200 728	50 688	218 512	457 501	188 123	48 525	220 853	5	10	20	4
		1998	417 081	182 812	39 665	194 604	432 779	210 518	38 166	184 095	13	26	8	18
		1997	432 473	215 894	35 334	181 245	422 093	225 462	36 595	160 036	X	X	X	X
323	Printing & related support activities	2001	6 046 273	1 571 620	1 625 565	2 849 088	6 389 163	1 641 327	1 786 189	2 961 647	3	2	3	3
		2000	6 445 005	1 694 488	1 782 750	2 967 768	6 332 913	1 582 518	1 816 319	2 934 075	2	3	3	3
		1999	6 393 740	1 609 867	1 811 359	2 972 515	6 212 421	1 591 307	1 766 630	2 854 484	2	3	3	3
		1998	6 625 327	1 624 583	1 866 721	3 134 024	6 642 088	1 590 265	1 852 925	3 198 899	1	2	1	1
		1997	6 621 144	1 542 988	1 860 779	3 217 377	6 396 004	1 486 219	1 790 092	3 119 693	X	X	X	X
3231	Printing & related support activities	2001	6 046 273	1 571 620	1 625 565	2 849 088	6 389 163	1 641 327	1 786 189	2 961 647	3	2	3	3
		2000	6 445 005	1 694 488	1 782 750	2 967 768	6 332 913	1 582 518	1 816 319	2 934 075	2	3	3	3
		1999	6 393 740	1 609 867	1 811 359	2 972 515	6 212 421	1 591 307	1 766 630	2 854 484	2	3	3	3
		1998	6 625 327	1 624 583	1 866 721	3 134 024	6 642 088	1 590 265	1 852 925	3 198 899	1	2	1	1
		1997	6 621 144	1 542 988	1 860 779	3 217 377	6 396 004	1 486 219	1 790 092	3 119 693	X	X	X	X
32311	Printing	2001	5 744 012	1 507 788	1 491 011	2 745 213	6 063 097	1 577 575	1 632 891	2 852 631	3	2	4	3
		2000	6 110 534	1 630 019	1 625 188	2 855 327	5 997 087	1 519 425	1 656 918	2 820 743	3	3	3	3
		1999	6 048 907	1 544 919	1 648 313	2 855 674	5 876 753	1 522 972	1 618 241	2 735 540	2	3	3	3
		1998	6 260 467	1 550 067	1 699 912	3 010 488	6 285 633	1 517 612	1 693 441	3 074 581	1	3	1	1
		1997	6 254 827	1 470 399	1 693 841	3 090 587	6 022 268	1 408 458	1 624 751	2 989 059	X	X	X	X
323110	Commercial lithographic printing	2001	2 734 864	441 258	847 125	1 446 481	2 963 448	460 237	942 804	1 560 406	5	5	6	6
		2000	2 968 029	505 242	931 551	1 531 236	2 909 994	472 863	938 634	1 498 497	5	10	5	6
		1999	2 909 653	472 681	936 322	1 500 651	2 815 182	470 211	928 371	1 416 601	5	11	5	6
		1998	2 997 253	427 413	974 444	1 595 396	3 045 280	446 127	972 368	1 626 785	1	4	2	1
		1997	3 041 671	413 116	987 254	1 641 301	2 884 609	375 922	928 333	1 580 354	X	X	X	X
323111	Commercial gravure printing	2001	248 410	59 340	83 359	105 711	254 381	63 141	84 067	107 173	4	9	3	4
		2000	284 047	67 256	95 727	121 064	302 057	61 324	108 419	132 314	3	6	3	4
		1999	304 093	60 235	110 397	133 461	301 235	59 847	111 965	129 423	2	5	2	2
		1998	328 428	62 953	117 344	148 131	285 384	52 594	108 442	124 347	7	11	2	9
		1997	287 978	55 382	108 752	123 844	290 583	46 413	115 252	128 918	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
323	Printing & related support activities—Con.													
3231	Printing & related support activities—Con.													
32311	Printing—Con.													
323112	Commercial flexographic printing	2001	398 052	151 447	71 764	174 841	419 088	157 239	83 943	177 905	4	6	6	4
		2000	414 518	155 860	80 969	177 689	408 482	144 010	81 199	183 273	4	6	5	4
		1999	429 531	150 850	86 576	192 105	402 347	136 804	85 531	180 012	3	5	4	4
		1998	394 499	125 363	84 361	184 775	378 862	114 805	80 816	183 242	2	3	2	2
		1997	384 894	116 714	80 859	187 321	354 342	114 925	60 617	178 800	X	X	X	X
323113	Commercial screen printing	2001	609 283	190 687	122 950	295 645	557 371	198 092	104 733	254 546	4	6	6	5
		2000	598 978	213 013	105 946	280 019	611 887	225 309	121 051	265 528	3	5	4	4
		1999	585 150	230 108	95 789	259 253	602 580	239 446	93 503	269 631	3	4	5	4
		1998	660 185	257 295	102 501	300 389	652 907	258 167	99 655	295 084	2	2	4	4
		1997	665 918	264 227	102 397	299 294	640 152	271 501	104 617	264 034	X	X	X	X
323114	Quick printing	2001	177 178	35 435	40 328	101 415	190 437	37 820	45 450	107 168	9	27	11	8
		2000	192 261	37 562	44 925	109 773	179 839	33 446	44 202	102 190	8	25	9	9
		1999	199 812	36 313	50 365	113 134	179 959	37 182	43 424	99 354	6	24	5	6
		1998	219 175	50 057	54 036	115 082	224 490	44 213	58 159	122 119	2	5	3	2
		1997	210 543	43 451	54 726	112 366	211 217	37 038	58 759	115 420	X	X	X	X
323115	Digital printing	2001	26 001	3 752	5 536	16 713	24 843	4 049	6 177	14 617	14	11	10	18
		2000	28 937	6 219	6 114	16 604	24 164	5 608	4 880	13 676	13	32	18	11
		1999	22 458	5 332	4 393	12 733	21 364	5 264	4 232	11 868	9	36	10	5
		1998	26 868	5 629	6 262	14 977	24 091	5 158	5 945	12 988	2	2	2	3
		1997	22 380	4 674	5 454	12 252	22 829	4 578	6 091	12 160	X	X	X	X
323116	Manifold business form printing	2001	684 181	367 698	68 128	248 355	720 671	395 948	72 144	252 579	4	6	7	5
		2000	699 912	385 176	69 980	244 757	646 985	320 906	75 990	250 089	3	5	6	4
		1999	676 544	331 297	79 969	265 278	684 720	338 417	85 121	261 182	2	3	5	4
		1998	690 816	337 669	84 896	268 252	779 303	379 257	95 841	304 205	3	6	4	4
		1997	754 307	361 383	84 192	308 732	740 098	358 232	84 637	297 229	X	X	X	X
323117	Book printing	2001	337 638	23 508	151 866	162 263	399 316	29 733	190 391	179 192	4	15	3	5
		2000	395 235	30 625	184 453	180 157	389 470	31 946	178 917	178 607	4	9	3	6
		1999	392 786	31 921	180 841	180 023	367 611	32 473	166 642	168 496	3	7	3	4
		1998	378 334	32 405	167 543	178 386	385 213	32 924	165 676	186 613	1	2	2	2
		1997	387 371	33 841	162 744	190 786	386 515	30 027	165 820	190 668	X	X	X	X
323118	Blankbook, looseleaf binder, & device mfg	2001	271 153	144 781	45 285	81 087	269 115	142 250	44 714	82 151	3	3	6	3
		2000	273 093	143 572	46 167	83 353	277 346	144 746	44 450	88 150	3	3	6	3
		1999	282 740	148 292	45 697	88 751	272 356	131 528	46 938	93 890	2	3	3	2
		1998	281 980	151 848	45 793	84 339	248 309	104 045	44 793	99 471	8	16	3	4
		1997	246 838	104 662	43 793	98 383	237 982	103 123	38 932	95 927	X	X	X	X
323119	Other commercial printing	2001	257 253	89 881	54 670	112 701	264 428	89 067	58 469	116 892	5	7	10	6
		2000	255 525	85 493	59 357	110 675	246 862	79 267	59 175	108 420	5	8	9	5
		1999	246 141	77 891	57 965	110 285	229 399	71 801	52 515	105 083	4	7	9	5
		1998	282 930	99 435	62 733	120 762	261 793	80 322	61 745	119 726	5	14	4	2
		1997	252 927	72 949	63 670	116 308	253 941	66 699	61 693	125 549	X	X	X	X
32312	Support activities for printing	2001	302 260	63 832	134 553	103 875	326 066	63 752	153 298	109 017	4	10	5	5
		2000	334 471	64 468	157 561	112 441	335 826	63 093	159 401	113 332	3	8	4	7
		1999	344 833	64 947	163 045	116 840	335 668	68 335	148 388	118 944	3	8	3	6
		1998	364 860	74 516	166 808	123 535	356 455	72 653	159 484	124 317	3	10	4	3
		1997	366 317	72 589	166 938	126 790	373 736	77 761	165 341	130 634	X	X	X	X
323121	Tradebinding & related work	2001	139 409	53 330	31 713	54 366	148 365	52 783	37 378	58 203	8	12	11	8
		2000	154 254	53 521	39 509	61 224	150 409	51 532	39 471	59 406	6	9	10	11
		1999	153 562	52 318	40 141	61 102	151 798	55 453	35 533	60 812	6	10	7	11
		1998	155 722	57 027	38 252	60 443	158 871	56 581	40 147	62 143	3	3	4	4
		1997	161 641	56 476	40 290	64 875	164 947	57 288	41 440	66 219	X	X	X	X
323122	Prepress services	2001	162 851	10 501	102 841	49 509	177 701	10 968	115 920	50 813	5	9	5	7
		2000	180 216	10 947	118 053	51 217	185 417	11 562	119 930	53 926	4	9	4	7
		1999	191 271	12 629	122 904	55 738	183 869	12 882	112 855	58 132	3	8	3	6
		1998	209 137	17 489	128 556	63 092	197 584	16 073	119 337	62 174	5	39	5	5
		1997	204 676	16 113	126 648	61 915	208 789	20 473	123 901	64 415	X	X	X	X
324	Petroleum & coal products mfg	2001	12 478 586	5 639 192	3 086 239	3 753 155	13 206 724	6 255 644	3 287 857	3 663 223	1	1	2	2
		2000	12 838 927	6 198 009	3 274 605	3 366 313	11 378 004	4 980 476	2 838 692	3 558 837	1	1	2	3
		1999	11 374 248	4 962 682	2 844 612	3 566 954	9 101 581	4 156 195	2 228 745	2 716 640	2	1	2	4
		1998	9 194 929	4 164 926	2 267 407	2 762 596	11 940 951	5 458 963	2 997 721	3 484 267	1	1	1	1
		1997	11 492 679	5 152 940	2 848 099	3 491 640	12 009 719	5 604 457	2 668 928	3 736 334	X	X	X	X
3241	Petroleum & coal products mfg	2001	12 478 586	5 639 192	3 086 239	3 753 155	13 206 724	6 255 644	3 287 857	3 663 223	1	1	2	2
		2000	12 838 927	6 198 009	3 274 605	3 366 313	11 378 004	4 980 476	2 838 692	3 558 837	1	1	2	3
		1999	11 374 248	4 962 682	2 844 612	3 566 954	9 101 581	4 156 195	2 228 745	2 716 640	2	1	2	4
		1998	9 194 929	4 164 926	2 267 407	2 762 596	11 940 951	5 458 963	2 997 721	3 484 267	1	1	1	1
		1997	11 492 679	5 152 940	2 848 099	3 491 640	12 009 719	5 604 457	2 668 928	3 736 334	X	X	X	X
32411	Petroleum refineries	2001	11 110 716	4 930 375	2 982 862	3 197 479	11 869 643	5 546 398	3 210 662	3 112 583	1	1	2	2
		2000	11 483 677	5 477 319	3 198 108	2 808 250	10 034 996	4 277 031	2 763 913	2 994 052	1	1	2	3
		1999	10 006 505	4 250 714	2 769 199	2 986 592	7 802 152	3 505 547	2 162 082	2 134 523	2	1	2	5
		1998	7 846 209	3 516 327	2 157 379	2 172 503	10 422 796	4 734 366	2 872 921	2 815 509	1	1	1	1
		1997	10 015 426	4 447 686	2 735 833	2 831 907	10 512 430	4 860 349	2 557 235	3 094 846	X	X	X	X
324110	Petroleum refineries	2001	11 110 716	4 930 375	2 982 862	3 197 479	11 869 643	5 546 398	3 210 662	3 112 583	1	1	2	2
		2000	11 483 677	5 477 319	3 198 108	2 808 250	10 034 996	4 277 031	2 763 913	2 994 052	1	1	2	3
		1999	10 006 505	4 250 714	2 769 199	2 986 592	7 802 152	3 505 547	2 162 082	2 134 523	2	1	2	5
		1998	7 846 209	3 516 327	2 157 379	2 172 503	10 422 796	4 734 366	2 872 921	2 815 509	1	1	1	1
		1997	10 015 426	4 447 686	2 735 833	2 831 907	10 512 430	4 860 349	2 557 235	3 094 846	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 & coal products mfg—Con.													
3241	Petroleum & coal products mfg—Con.													
32412	Asphalt paving, roofing, & saturated materials mfg	2001	687 742	395 423	17 712	274 607	666 979	391 148	15 550	260 281	3	4	66	3
		2000	667 750	390 858	13 704	263 187	666 719	388 389	16 483	261 847	4	5	84	4
		1999	677 718	390 651	19 872	267 195	628 751	356 755	16 669	255 327	3	3	59	4
		1998	649 215	331 457	47 384	270 374	740 512	366 288	58 413	315 810	3	2	2	7
		1997	711 810	359 507	43 930	308 373	710 417	370 422	38 095	301 900	X	X	X	X
324121	Asphalt paving mixture & block mfg	2001	332 701	146 343	9 498	176 860	335 010	164 349	9 971	160 690	5	10	A	4
		2000	334 954	163 717	7 967	163 270	294 688	133 223	6 725	154 740	7	12	A	7
		1999	306 136	137 569	9 730	158 837	273 109	121 361	7 342	144 405	5	9	A	6
		1998	287 751	99 071	39 137	149 543	346 974	109 807	49 630	187 537	7	4	2	13
		1997	331 162	110 089	37 027	184 046	320 689	131 262	31 787	157 640	X	X	X	X
324122	Asphalt shingle & coating materials mfg	2001	355 041	249 080	8 214	97 747	331 969	226 799	5 579	99 592	3	3	18	5
		2000	332 795	227 141	5 737	99 917	372 031	255 166	9 758	107 107	3	3	12	5
		1999	371 582	253 082	10 142	108 358	355 642	235 394	9 327	110 921	2	2	13	4
		1998	361 464	232 386	8 247	120 831	393 537	256 481	8 783	128 273	2	2	6	1
		1997	380 648	249 418	6 903	124 327	389 728	239 160	6 308	144 260	X	X	X	X
32419	Other petroleum & coal products mfg	2001	680 128	313 394	85 665	281 069	670 102	318 098	61 645	290 359	5	3	3	11
		2000	687 501	329 833	62 793	294 875	676 289	315 056	58 295	302 938	3	2	2	6
		1999	690 025	321 317	55 541	313 167	670 678	293 894	49 994	326 790	3	2	2	6
		1998	699 505	317 142	62 644	319 718	777 644	358 310	66 387	352 947	2	2	3	2
		1997	765 443	345 747	68 336	351 360	786 872	373 686	73 598	339 588	X	X	X	X
324191	Petroleum lubricating oil & grease mfg	2001	451 997	251 807	42 832	157 357	467 342	251 229	44 450	171 663	5	3	5	9
		2000	481 944	262 431	45 514	173 999	484 806	267 847	39 695	177 264	3	2	3	5
		1999	506 963	276 062	41 273	189 628	460 797	244 497	38 058	178 243	2	2	3	3
		1998	520 441	264 165	45 335	210 942	575 883	300 283	50 468	225 132	2	2	2	2
		1997	560 838	285 795	52 250	222 793	572 672	313 002	52 990	206 680	X	X	X	X
324199	All other petroleum & coal products mfg	2001	228 131	61 587	42 832	123 711	202 760	66 869	17 196	118 696	13	5	1	23
		2000	205 557	67 401	17 280	120 877	191 482	47 209	18 600	125 674	8	5	1	12
		1999	183 062	45 255	14 268	123 539	209 880	49 396	11 937	148 547	10	3	2	14
		1998	179 064	52 978	17 309	108 777	201 761	58 027	15 919	127 815	3	5	11	5
		1997	204 605	59 952	16 086	128 567	214 200	60 684	20 608	132 908	X	X	X	X
325	Chemical mfg	2001	50 051 671	24 295 756	8 801 535	16 954 379	50 561 943	24 866 729	8 750 872	16 944 342	1	1	2	2
		2000	51 623 361	25 414 585	8 982 110	17 226 665	47 634 746	23 056 052	8 372 925	16 205 769	1	1	1	2
		1999	47 806 082	23 198 886	8 644 650	15 962 546	44 943 264	21 683 615	7 913 595	15 346 053	1	1	1	1
		1998	46 773 576	22 514 779	8 016 915	16 241 882	45 479 125	22 077 144	7 972 360	15 429 621	1	1	1	1
		1997	44 691 476	21 722 967	7 765 327	15 203 182	42 704 411	20 930 459	7 290 211	14 483 741	X	X	X	X
3251	Basic chemical mfg	2001	10 600 062	6 062 626	997 806	3 539 629	11 497 686	6 694 795	1 109 142	3 693 748	1	2	2	1
		2000	11 566 821	6 655 707	1 155 857	3 755 257	10 742 132	5 827 467	1 184 141	3 730 524	1	1	2	1
		1999	10 840 812	5 939 396	1 164 643	3 736 773	10 755 850	6 014 018	1 098 335	3 643 497	1	1	2	1
		1998	10 890 160	6 099 152	1 080 025	3 710 982	11 243 735	6 139 593	1 323 124	3 781 017	1	1	1	2
		1997	11 063 060	6 080 056	1 312 650	3 670 354	10 898 310	6 075 500	1 305 272	3 517 538	X	X	X	X
32511	Petrochemical mfg	2001	841 138	412 005	76 204	352 929	860 999	436 078	94 839	330 081	1	2	1	1
		2000	878 959	444 060	95 536	339 362	738 500	343 913	83 907	310 679	1	2	1	1
		1999	885 190	424 882	86 589	373 718	1 110 144	659 365	99 243	351 536	1	2	1	1
		1998	944 292	479 097	73 002	392 194	1 046 531	490 593	91 827	464 111	1	1	1	1
		1997	1 131 043	598 132	92 143	440 768	1 044 687	529 575	76 882	438 230	X	X	X	X
325110	Petrochemical mfg	2001	841 138	412 005	76 204	352 929	860 999	436 078	94 839	330 081	1	2	1	1
		2000	878 959	444 060	95 536	339 362	738 500	343 913	83 907	310 679	1	2	1	1
		1999	885 190	424 882	86 589	373 718	1 110 144	659 365	99 243	351 536	1	2	1	1
		1998	944 292	479 097	73 002	392 194	1 046 531	490 593	91 827	464 111	1	1	1	1
		1997	1 131 043	598 132	92 143	440 768	1 044 687	529 575	76 882	438 230	X	X	X	X
32512	Industrial gas mfg	2001	283 488	147 695	45 801	89 992	310 952	170 633	54 566	85 752	2	2	8	1
		2000	310 934	171 306	54 667	84 960	261 778	136 485	49 232	76 061	3	2	17	1
		1999	327 845	185 622	50 288	91 935	334 956	185 642	48 284	101 031	3	2	20	2
		1998	328 149	189 290	34 366	104 494	295 050	171 199	30 947	92 904	2	3	1	1
		1997	298 995	174 318	30 534	94 143	308 832	182 471	34 757	91 604	X	X	X	X
325120	Industrial gas mfg	2001	283 488	147 695	45 801	89 992	310 952	170 633	54 566	85 752	2	2	8	1
		2000	310 934	171 306	54 667	84 960	261 778	136 485	49 232	76 061	3	2	17	1
		1999	327 845	185 622	50 288	91 935	334 956	185 642	48 284	101 031	3	2	20	2
		1998	328 149	189 290	34 366	104 494	295 050	171 199	30 947	92 904	2	3	1	1
		1997	298 995	174 318	30 534	94 143	308 832	182 471	34 757	91 604	X	X	X	X
32513	Dye & pigment mfg	2001	1 263 946	631 691	123 774	508 482	1 234 279	641 586	125 054	467 639	5	5	3	6
		2000	1 259 772	646 985	133 331	479 456	1 266 069	612 653	131 088	522 328	4	4	3	4
		1999	1 197 888	595 944	126 353	475 591	1 144 774	557 084	112 017	475 672	3	3	5	4
		1998	1 092 290	532 974	111 759	447 557	1 028 607	506 178	121 660	400 769	1	1	3	1
		1997	1 010 051	482 773	120 557	406 721	1 092 489	511 905	129 674	450 910	X	X	X	X
325131	Inorganic dye & pigment mfg	2001	766 624	334 396	50 385	381 843	680 875	291 606	55 170	334 099	7	8	7	8
		2000	690 450	291 497	56 512	342 442	693 231	297 698	51 283	344 250	6	7	5	5
		1999	670 072	288 308	49 235	332 530	629 561	253 909	50 574	325 078	6	7	5	6
		1998	596 945	243 505	47 937	305 503	560 539	254 921	51 717	253 901	1	1	1	1
		1997	540 213	234 404	48 114	257 695	573 604	245 066	41 760	286 778	X	X	X	X
325132	Synthetic organic dye & pigment mfg	2001	497 322	297 295	73 388	126 639	553 404	349 980	69 884	133 539	5	6	2	5
		2000	569 322	355 488	76 820	137 014	572 838	314 955	79 805	178 077	4	5	2	6
		1999	527 816	307 636	77 118	143 061	515 213	303 176	61 444	150 594	3	2	7	4
		1998	495 345	289 469	63 822	142 054	468 068	251 257	69 943	146 868	2	2	5	1
		1997	469 838	248 369	72 443	149 026	518 885	266 839	87 914	164 132	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
325	Chemical mfg—Con.													
3251	Basic chemical mfg—Con.													
32518	Other basic inorganic chemical mfg	2001	1 890 329	950 329	258 048	681 953	1 918 590	970 706	243 576	704 308	2	3	4	2
		2000	1 867 290	920 286	223 100	723 904	2 045 368	974 856	347 597	722 914	2	3	5	2
		1999	2 021 238	919 636	352 271	749 332	1 942 630	940 012	278 493	724 126	2	3	3	1
		1998	2 128 677	1 132 817	245 917	749 943	2 048 878	1 087 138	226 671	735 069	2	4	2	3
		1997	1 892 208	919 966	222 248	749 994	1 885 403	933 090	241 833	710 480	X	X	X	X
325181	Alkalies & chlorine mfg	2001	155 567	62 169	1 416	91 982	224 162	113 334	5 015	105 813	1	1	2	1
		2000	218 134	108 218	5 523	104 393	197 180	90 602	6 813	99 765	1	1	1	1
		1999	198 555	91 323	6 841	100 391	239 217	133 770	2 003	103 445	1	1	1	1
		1998	227 820	132 351	2 259	93 210	240 728	145 517	1 562	93 649	1	1	1	1
		1997	240 152	144 957	1 564	93 631	215 749	123 443	1 715	90 591	X	X	X	X
325182	Carbon black mfg	2001	118 479	68 799	–	49 680	114 577	60 624	13	53 940	3	4	1	2
		2000	112 215	59 770	13	52 432	107 060	52 497	224	54 339	2	2	1	3
		1999	107 060	52 497	224	54 339	89 044	54 087	–	34 957	3	4	1	3
		1998	91 347	54 134	–	37 213	87 816	55 745	–	32 071	4	1	X	7
		1997	87 816	55 745	–	32 071	83 376	52 877	440	30 059	X	X	X	X
325188	All other basic inorganic chemical mfg	2001	1 616 283	819 360	256 632	540 290	1 579 851	796 748	238 548	544 555	2	4	4	2
		2000	1 536 941	752 298	217 564	567 079	1 741 127	831 757	340 560	568 810	2	4	5	3
		1999	1 715 623	775 815	345 206	594 601	1 614 369	752 155	276 490	585 724	2	3	3	2
		1998	1 809 510	946 332	243 658	619 520	1 720 334	885 876	225 109	609 349	3	4	2	4
		1997	1 564 240	719 264	220 684	624 292	1 586 278	756 770	239 678	589 830	X	X	X	X
32519	Other basic organic chemical mfg	2001	6 321 160	3 920 907	493 979	1 906 274	7 172 866	4 475 791	591 107	2 105 968	2	3	2	2
		2000	7 249 866	4 473 070	649 223	2 127 573	6 430 418	3 759 560	572 316	2 098 542	1	2	3	2
		1999	6 408 650	3 813 313	549 141	2 046 196	6 223 346	3 671 915	560 298	1 991 132	2	2	2	2
		1998	6 396 752	3 764 975	614 982	2 016 795	6 824 668	3 884 485	852 019	2 088 164	1	1	1	3
		1997	6 730 763	3 904 867	847 168	1 978 728	6 566 899	3 918 459	822 126	1 826 314	X	X	X	X
325191	Gum & wood chemical mfg	2001	130 373	68 799	15 251	46 323	157 829	92 879	15 777	49 173	1	5	2	4
		2000	159 523	95 028	15 544	48 952	132 848	77 326	15 612	39 910	1	1	1	3
		1999	138 918	80 871	15 531	42 516	166 289	97 661	22 421	46 207	1	1	1	1
		1998	156 390	89 539	21 723	45 127	161 512	81 162	28 285	52 065	1	2	1	1
		1997	155 422	84 789	22 996	47 637	146 788	85 915	18 627	42 246	X	X	X	X
325192	Cyclic crude & intermediate mfg	2001	516 112	325 889	19 336	170 887	746 214	496 310	27 758	222 146	6	4	24	9
		2000	775 577	525 343	26 475	223 760	625 831	373 750	21 976	230 105	7	7	23	8
		1999	639 550	385 221	24 616	229 714	572 404	349 774	30 184	192 445	2	4	16	3
		1998	531 794	326 527	34 715	170 552	616 602	385 486	54 346	176 770	1	1	1	1
		1997	617 181	379 985	53 998	183 198	636 136	383 979	50 704	201 453	X	X	X	X
325193	Ethyl alcohol mfg	2001	99 603	64 928	3 175	31 500	87 924	54 804	3 694	29 425	5	4	15	9
		2000	84 956	52 483	3 532	28 940	89 030	53 402	3 479	32 149	4	4	16	7
		1999	88 950	52 205	3 733	33 012	85 972	53 736	3 274	28 962	8	7	14	14
		1998	63 464	40 871	2 321	20 272	76 187	46 424	4 518	25 245	22	18	68	24
		1997	74 630	44 879	4 482	25 269	77 709	45 817	4 882	27 010	X	X	X	X
325199	All other basic organic chemical mfg	2001	5 575 072	3 461 291	456 218	1 657 563	6 180 900	3 831 799	543 877	1 805 224	2	3	2	2
		2000	6 229 810	3 800 216	603 672	1 825 922	5 582 708	3 255 081	531 249	1 796 378	1	2	3	2
		1999	5 541 232	3 295 016	505 261	1 740 955	5 398 681	3 170 745	504 419	1 723 517	2	2	2	2
		1998	5 645 104	3 308 037	556 223	1 780 844	5 970 367	3 371 413	764 870	1 834 084	1	1	1	3
		1997	5 883 530	3 395 214	765 692	1 722 624	5 706 266	3 402 748	747 913	1 555 605	X	X	X	X
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg	2001	6 460 638	4 050 547	719 000	1 691 091	7 349 674	4 762 331	799 173	1 788 170	2	2	4	5
		2000	7 479 426	4 832 271	776 809	1 870 346	6 618 177	4 130 666	690 870	1 796 641	2	2	3	3
		1999	6 748 872	4 209 518	716 369	1 822 986	6 163 130	3 812 495	742 464	1 608 170	2	2	3	5
		1998	6 618 929	4 109 383	732 446	1 777 100	6 761 402	4 161 587	771 889	1 827 925	1	1	1	1
		1997	6 700 946	4 112 074	755 163	1 833 709	6 388 594	3 915 120	715 951	1 757 523	X	X	X	X
32521	Resin & synthetic rubber mfg	2001	5 339 459	3 430 963	543 907	1 364 590	6 064 676	4 034 139	600 382	1 430 155	2	2	5	6
		2000	6 191 973	4 100 223	575 948	1 515 802	5 465 863	3 509 094	497 991	1 458 778	2	2	3	3
		1999	5 479 363	3 526 104	489 706	1 463 552	4 738 443	3 009 866	483 723	1 244 854	3	2	4	6
		1998	5 126 011	3 284 638	464 638	1 376 734	5 280 293	3 381 382	518 618	1 380 292	1	1	1	1
		1997	5 218 629	3 331 521	502 430	1 384 678	4 978 634	3 177 048	491 556	1 310 030	X	X	X	X
325211	Plastics material & resin mfg	2001	4 506 646	2 893 252	445 121	1 168 273	5 098 806	3 400 181	490 415	1 208 210	3	3	6	7
		2000	5 231 519	3 464 791	468 157	1 298 571	4 643 548	2 972 518	382 850	1 288 180	2	2	2	4
		1999	4 655 835	2 987 771	376 326	1 291 738	3 922 954	2 493 140	383 956	1 045 858	3	2	2	6
		1998	4 361 828	2 799 046	393 515	1 169 267	4 489 963	2 852 729	447 117	1 190 116	1	1	1	1
		1997	4 370 715	2 773 047	427 447	1 170 221	4 146 587	2 642 232	407 487	1 096 868	X	X	X	X
325212	Synthetic rubber mfg	2001	832 813	537 711	98 785	196 317	965 870	633 958	109 967	221 945	3	3	15	2
		2000	960 454	635 431	107 791	217 231	822 315	536 576	115 141	170 598	3	2	16	2
		1999	823 528	538 333	113 380	171 814	815 489	516 726	99 768	198 996	4	3	18	3
		1998	764 183	485 592	71 123	207 467	790 330	528 653	71 501	190 176	1	1	1	1
		1997	847 914	558 474	74 983	214 457	832 047	534 816	84 069	213 162	X	X	X	X
32522	Artificial & synthetic fibers & filaments mfg	2001	1 121 178	619 584	175 094	326 501	1 284 997	728 192	198 791	358 014	2	2	1	3
		2000	1 287 453	732 048	200 861	354 544	1 152 314	621 572	192 879	337 863	2	2	1	3
		1999	1 269 510	683 414	226 663	359 433	1 424 687	802 629	258 741	363 316	2	2	1	3
		1998	1 492 918	824 744	267 808	400 366	1 481 109	780 205	253 271	447 633	1	1	2	1
		1997	1 482 317	780 553	252 733	449 031	1 409 960	738 072	224 395	447 493	X	X	X	X
325221	Cellulosic organic fiber mfg	2001	57 919	25 316	3 252	29 351	59 088	24 281	4 409	30 398	1	1	1	1
		2000	60 710	25 068	4 422	31 220	55 763	24 563	3 194	28 006	1	1	1	1
		1999	77 685	32 204	8 939	36 542	125 936	69 458	9 869	46 609	1	1	1	1
		1998	123 378	69 521	9 888	43 969	134 339	63 997	16 469	53 873	1	1	1	1
		1997	138 502	66 674	16 571	55 257	135 582	61 028	14 458	60 096	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
325	Chemical mfg—Con.													
3252	Resin, syn rubber, & artificial & syn fibers & filaments mfg—Con.													
32522	Artificial & synthetic fibers & filaments mfg—Con.													
325222	Noncellulosic organic fiber mfg	2001	1 063 259	594 268	171 842	297 150	1 225 909	703 911	194 382	327 616	2	2	1	3
		2000	1 226 743	706 980	196 439	323 324	1 096 551	597 009	189 685	309 857	2	2	1	4
		1999	1 191 824	651 209	217 724	322 891	1 298 751	733 171	248 872	316 707	2	2	1	4
		1998	1 369 540	755 223	257 920	356 397	1 346 770	716 208	236 802	393 760	1	1	2	1
		1997	1 343 815	713 879	236 162	393 774	1 274 378	677 044	209 937	387 397	X	X	X	X
3253	Pesticide, fertilizer, & other agricultural chemical mfg	2001	2 788 865	1 274 403	484 059	1 030 404	2 728 362	1 228 211	477 869	1 022 283	2	3	4	2
		2000	2 811 966	1 307 421	465 366	1 039 179	2 630 498	1 109 772	448 359	1 072 368	2	3	4	2
		1999	2 808 977	1 228 562	491 687	1 088 728	2 622 154	1 124 143	449 460	1 048 551	2	5	4	2
		1998	2 676 197	1 146 483	461 932	1 067 782	2 708 649	1 253 696	399 348	1 055 605	1	2	1	1
		1997	2 711 472	1 263 085	396 616	1 051 771	2 452 589	1 144 030	314 188	994 371	X	X	X	X
32531	Fertilizer mfg	2001	1 417 625	644 227	186 191	587 208	1 427 946	667 338	165 648	594 960	3	5	9	2
		2000	1 428 070	667 056	164 303	596 711	1 385 062	617 736	150 040	617 287	3	5	10	2
		1999	1 385 560	612 283	175 273	598 003	1 368 784	608 755	159 724	600 305	2	5	10	2
		1998	1 393 571	647 717	132 022	613 832	1 429 802	719 267	126 863	583 672	1	4	1	2
		1997	1 403 469	704 516	127 512	571 441	1 307 971	642 297	106 010	559 664	X	X	X	X
325311	Nitrogenous fertilizer mfg	2001	473 566	275 525	4 527	193 514	363 101	182 474	4 028	176 599	5	9	16	4
		2000	369 328	183 351	3 676	182 301	371 158	179 519	2 613	189 025	7	15	19	4
		1999	367 779	176 314	2 608	188 857	368 133	163 247	4 017	200 869	7	15	28	6
		1998	394 683	182 331	5 166	207 185	417 736	210 112	6 920	200 704	1	7	1	4
		1997	388 875	189 162	6 659	193 054	349 521	164 686	5 881	178 954	X	X	X	X
325312	Phosphatic fertilizer mfg	2001	507 404	139 498	148 176	219 729	518 508	176 479	114 382	227 647	3	10	1	1
		2000	520 562	178 030	114 631	227 901	522 434	177 046	99 730	245 658	3	8	1	1
		1999	517 063	170 075	101 301	245 687	504 605	170 473	94 355	239 776	1	3	1	1
		1998	451 226	135 259	81 372	234 594	492 672	192 565	76 385	223 722	3	16	2	3
		1997	513 266	207 864	76 333	229 069	458 285	177 111	68 062	213 112	X	X	X	X
325314	Fertilizer (mixing only) mfg	2001	436 655	229 203	33 487	173 965	546 337	308 385	47 238	190 715	6	5	49	7
		2000	538 180	305 675	45 996	186 509	491 471	261 172	47 696	182 603	5	4	35	7
		1999	500 718	265 894	71 365	163 459	496 046	275 035	61 351	159 660	4	3	24	5
		1998	547 663	330 127	45 483	172 053	519 394	316 590	43 558	159 246	2	2	1	5
		1997	501 328	307 490	44 520	149 318	500 165	300 500	32 067	167 598	X	X	X	X
32532	Pesticide & other agricultural chemical mfg	2001	1 371 240	630 176	297 869	443 195	1 300 416	560 873	312 221	427 323	2	2	2	3
		2000	1 383 896	640 365	301 063	442 468	1 245 436	492 035	298 319	455 081	2	3	2	3
		1999	1 423 418	616 279	316 414	490 725	1 253 370	515 388	289 736	448 246	4	9	2	2
		1998	1 282 625	498 766	329 910	453 949	1 278 847	534 429	272 485	471 933	1	2	1	1
		1997	1 308 003	558 569	269 104	480 330	1 144 618	501 733	208 178	434 707	X	X	X	X
325320	Pesticide & other agricultural chemical mfg	2001	1 371 240	630 176	297 869	443 195	1 300 416	560 873	312 221	427 323	2	2	2	3
		2000	1 383 896	640 365	301 063	442 468	1 245 436	492 035	298 319	455 081	2	3	2	3
		1999	1 423 418	616 279	316 414	490 725	1 253 370	515 388	289 736	448 246	4	9	2	2
		1998	1 282 625	498 766	329 910	453 949	1 278 847	534 429	272 485	471 933	1	2	1	1
		1997	1 308 003	558 569	269 104	480 330	1 144 618	501 733	208 178	434 707	X	X	X	X
3254	Pharmaceutical & medicine mfg	2001	18 352 632	6 736 947	5 338 752	6 276 934	16 678 015	5 974 600	5 029 218	5 674 196	3	1	3	5
		2000	17 355 847	6 329 586	5 213 183	5 813 078	15 738 877	6 055 115	4 632 952	5 050 809	2	2	1	6
		1999	15 328 713	5 837 803	4 819 174	4 671 736	13 820 429	4 997 328	4 155 412	4 667 688	1	2	1	3
		1998	13 830 135	4 844 514	4 309 180	4 676 442	12 745 824	4 640 838	4 046 037	4 058 948	1	2	1	3
		1997	12 280 701	4 509 334	3 865 024	3 906 343	11 282 573	4 150 558	3 432 310	3 699 705	X	X	X	X
32541	Pharmaceutical & medicine mfg	2001	18 352 632	6 736 947	5 338 752	6 276 934	16 678 015	5 974 600	5 029 218	5 674 196	3	1	3	5
		2000	17 355 847	6 329 586	5 213 183	5 813 078	15 738 877	6 055 115	4 632 952	5 050 809	2	2	1	6
		1999	15 328 713	5 837 803	4 819 174	4 671 736	13 820 429	4 997 328	4 155 412	4 667 688	1	2	1	3
		1998	13 830 135	4 844 514	4 309 180	4 676 442	12 745 824	4 640 838	4 046 037	4 058 948	1	2	1	3
		1997	12 280 701	4 509 334	3 865 024	3 906 343	11 282 573	4 150 558	3 432 310	3 699 705	X	X	X	X
325411	Medicinal & botanical mfg	2001	1 770 219	716 120	566 144	487 955	1 615 275	607 912	548 751	458 613	4	3	9	4
		2000	1 774 989	736 581	558 668	479 741	1 701 575	764 254	521 162	416 159	4	2	9	3
		1999	1 779 095	758 232	574 782	446 080	1 618 171	628 228	261 104	728 839	3	2	8	3
		1998	2 177 294	677 248	568 894	931 152	1 905 883	631 962	628 958	644 963	2	1	1	3
		1997	1 878 773	624 640	613 198	640 935	1 812 321	619 964	620 332	572 025	X	X	X	X
325412	Pharmaceutical preparation mfg	2001	12 831 352	4 526 601	3 360 402	4 944 348	11 567 390	4 061 366	3 122 364	4 383 660	4	2	4	6
		2000	12 019 280	4 258 431	3 271 260	4 489 589	10 777 163	4 018 488	2 859 180	3 899 495	3	3	1	7
		1999	10 495 890	3 997 445	3 021 247	3 477 198	9 538 505	3 464 558	2 814 133	3 259 815	1	3	1	4
		1998	8 872 518	3 213 319	2 612 497	3 046 703	7 970 245	2 993 135	2 312 623	2 664 487	1	3	1	4
		1997	7 675 658	2 867 875	2 233 779	2 574 004	6 918 204	2 628 443	1 862 998	2 426 763	X	X	X	X
325413	In-vitro diagnostic substance mfg	2001	1 753 866	809 128	472 836	471 902	1 674 327	753 293	431 297	489 737	2	2	2	2
		2000	1 697 695	761 954	440 769	494 972	1 626 718	732 426	424 151	470 142	2	2	2	2
		1999	1 441 354	580 972	392 795	467 588	1 245 643	467 590	361 811	416 242	2	3	2	2
		1998	1 272 264	478 246	384 787	409 230	1 463 802	587 888	415 777	460 137	3	4	2	4
		1997	1 403 327	552 995	409 769	440 563	1 394 982	555 056	400 429	439 497	X	X	X	X
325414	Biological product (except diagnostic) mfg	2001	1 997 195	685 097	939 369	372 728	1 821 022	552 029	926 807	342 187	2	4	2	2
		2000	1 863 883	572 620	942 486	348 776	1 633 420	539 947	828 460	265 014	2	4	2	3
		1999	1 612 374	501 154	830 350	280 870	1 418 109	436 952	718 364	262 793	3	4	3	3
		1998	1 508 059	475 700	743 002	289 357	1 405 894	427 854	688 679	289 361	2	4	1	1
		1997	1 322 943	463 824	608 278	250 841	1 157 066	347 095	548 551	261 420	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3255	Paint, coating, & adhesive mfg	2001	2 587 196	1 441 398	135 038	1 010 760	2 817 496	1 537 253	162 845	1 117 398	2	2	7	3
		2000	2 875 184	1 585 487	163 734	1 125 963	2 873 301	1 548 981	169 413	1 154 906	2	2	6	3
		1999	2 872 496	1 548 462	169 363	1 154 672	2 837 515	1 574 407	149 944	1 113 164	2	2	6	2
		1998	2 864 271	1 550 683	157 474	1 156 114	2 844 410	1 558 249	152 620	1 133 541	2	4	4	1
		1997	2 833 183	1 517 461	155 983	1 159 739	2 673 973	1 459 363	166 227	1 048 383	X	X	X	X
32551	Paint & coating mfg	2001	1 910 356	1 104 569	89 643	716 143	2 110 686	1 203 833	110 540	796 313	2	2	7	3
		2000	2 154 416	1 233 639	109 310	811 467	2 171 572	1 208 990	109 099	853 484	2	2	5	3
		1999	2 190 345	1 217 427	110 503	862 415	2 175 711	1 258 802	95 370	821 539	2	1	4	3
		1998	2 161 097	1 206 229	99 395	855 473	2 145 493	1 223 919	92 224	829 350	3	5	6	2
		1997	2 151 729	1 201 943	95 165	854 621	2 018 336	1 150 802	108 064	759 470	X	X	X	X
325510	Paint & coating mfg	2001	1 910 356	1 104 569	89 643	716 143	2 110 686	1 203 833	110 540	796 313	2	2	7	3
		2000	2 154 416	1 233 639	109 310	811 467	2 171 572	1 208 990	109 099	853 484	2	2	5	3
		1999	2 190 345	1 217 427	110 503	862 415	2 175 711	1 258 802	95 370	821 539	2	1	4	3
		1998	2 161 097	1 206 229	99 395	855 473	2 145 493	1 223 919	92 224	829 350	3	5	6	2
		1997	2 151 729	1 201 943	95 165	854 621	2 018 336	1 150 802	108 064	759 470	X	X	X	X
32552	Adhesive mfg	2001	676 840	336 829	45 394	294 617	706 811	333 420	52 306	321 086	6	6	16	7
		2000	720 768	351 848	54 424	314 496	701 729	339 992	60 314	301 422	5	6	14	6
		1999	682 151	331 034	58 860	292 256	661 804	315 604	54 574	291 625	4	6	14	5
		1998	703 174	344 454	58 078	300 641	698 917	334 330	60 396	304 192	1	1	3	2
		1997	681 454	315 518	60 818	305 118	655 637	308 561	58 163	288 913	X	X	X	X
325520	Adhesive mfg	2001	676 840	336 829	45 394	294 617	706 811	333 420	52 306	321 086	6	6	16	7
		2000	720 768	351 848	54 424	314 496	701 729	339 992	60 314	301 422	5	6	14	6
		1999	682 151	331 034	58 860	292 256	661 804	315 604	54 574	291 625	4	6	14	5
		1998	703 174	344 454	58 078	300 641	698 917	334 330	60 396	304 192	1	1	3	2
		1997	681 454	315 518	60 818	305 118	655 637	308 561	58 163	288 913	X	X	X	X
3256	Soap, cleaning compound, & toilet preparation mfg	2001	4 964 711	2 828 372	310 050	1 826 289	5 062 199	2 751 725	344 258	1 966 217	4	4	6	6
		2000	5 086 972	2 783 800	366 428	1 936 743	4 825 133	2 608 844	332 432	1 883 857	4	4	5	6
		1999	4 916 314	2 631 250	362 741	1 922 324	4 549 445	2 374 095	353 912	1 821 437	3	3	5	5
		1998	5 432 623	2 810 187	346 119	2 276 318	4 830 196	2 509 293	334 442	1 986 462	5	5	1	7
		1997	4 814 861	2 472 290	340 694	2 001 877	4 643 315	2 350 373	367 953	1 924 989	X	X	X	X
32561	Soap & cleaning compound mfg	2001	2 062 134	1 292 291	115 675	654 169	2 197 811	1 315 504	148 733	733 574	3	2	13	3
		2000	2 252 657	1 362 545	154 086	736 026	2 027 445	1 193 614	119 061	714 770	2	2	9	2
		1999	2 094 566	1 196 716	151 932	745 918	1 894 654	1 052 283	138 486	703 885	2	3	9	3
		1998	2 302 751	1 263 273	153 298	886 180	2 269 373	1 264 402	158 603	846 368	1	1	2	1
		1997	2 316 648	1 275 531	162 580	878 537	2 278 248	1 235 755	191 234	851 259	X	X	X	X
325611	Soap & other detergent mfg	2001	877 409	495 374	66 031	316 005	1 031 875	551 547	106 976	373 352	3	2	4	3
		2000	1 033 737	541 474	105 029	387 234	925 477	476 937	78 482	370 058	2	2	3	2
		1999	943 260	480 185	79 646	383 428	834 489	411 769	68 960	353 760	3	3	2	3
		1998	1 136 572	594 458	68 307	473 808	1 204 243	652 633	76 151	475 459	1	2	3	1
		1997	1 236 285	677 133	77 245	481 907	1 176 829	619 540	92 044	465 245	X	X	X	X
325612	Polish & other sanitation good mfg	2001	692 378	445 389	33 877	213 112	620 431	370 685	24 942	224 804	6	6	21	9
		2000	689 691	439 136	31 612	218 943	611 231	379 655	26 075	205 500	5	5	18	6
		1999	605 941	363 605	27 655	214 681	605 188	363 441	29 111	212 637	5	6	16	6
		1998	673 196	379 326	29 622	264 249	549 977	302 106	31 452	216 418	2	2	9	2
		1997	554 751	286 623	32 184	235 944	574 136	308 950	39 440	225 746	X	X	X	X
325613	Surface active agent mfg	2001	492 347	351 528	15 767	125 052	545 505	393 272	16 815	135 418	4	4	79	4
		2000	529 230	381 936	17 445	129 849	490 737	337 021	14 504	139 212	4	4	73	4
		1999	545 366	352 926	44 631	147 809	454 977	277 074	40 415	137 488	4	4	28	4
		1998	492 982	289 489	55 369	148 124	515 153	309 663	51 000	154 490	1	2	1	2
		1997	525 612	311 775	53 151	160 686	527 283	307 265	59 750	160 268	X	X	X	X
32562	Toilet preparation mfg	2001	2 902 577	1 536 082	194 375	1 172 120	2 864 388	1 436 221	195 525	1 232 642	7	7	5	10
		2000	2 834 315	1 421 255	212 342	1 200 718	2 797 688	1 415 230	213 371	1 169 087	7	7	5	10
		1999	2 821 748	1 434 534	210 808	1 176 406	2 654 791	1 321 812	215 427	1 117 552	6	5	6	8
		1998	3 129 873	1 546 913	192 822	1 390 137	2 560 823	1 244 890	175 839	1 140 094	9	8	2	12
		1997	2 498 213	1 196 759	178 114	1 123 340	2 365 067	1 114 618	176 719	1 073 730	X	X	X	X
325620	Toilet preparation mfg	2001	2 902 577	1 536 082	194 375	1 172 120	2 864 388	1 436 221	195 525	1 232 642	7	7	5	10
		2000	2 834 315	1 421 255	212 342	1 200 718	2 797 688	1 415 230	213 371	1 169 087	7	7	5	10
		1999	2 821 748	1 434 534	210 808	1 176 406	2 654 791	1 321 812	215 427	1 117 552	6	5	6	8
		1998	3 129 873	1 546 913	192 822	1 390 137	2 560 823	1 244 890	175 839	1 140 094	9	8	2	12
		1997	2 498 213	1 196 759	178 114	1 123 340	2 365 067	1 114 618	176 719	1 073 730	X	X	X	X
3259	Other chemical product mfg	2001	4 297 567	1 901 465	816 830	1 579 272	4 428 511	1 917 815	828 367	1 682 329	2	2	3	3
		2000	4 447 145	1 920 314	840 733	1 686 099	4 206 628	1 775 206	914 758	1 516 664	2	2	2	2
		1999	4 289 898	1 803 896	920 674	1 565 328	4 194 742	1 787 129	964 068	1 443 545	1	2	2	2
		1998	4 461 260	1 954 378	929 738	1 577 144	4 344 909	1 813 887	944 900	1 586 122	1	2	1	1
		1997	4 287 253	1 768 667	939 197	1 579 389	4 365 057	1 835 515	988 310	1 541 232	X	X	X	X
32591	Printing ink mfg	2001	464 589	259 255	33 055	172 279	496 038	265 075	37 924	193 038	10	7	27	15
		2000	489 109	257 516	38 871	192 721	504 098	267 661	38 368	198 069	11	7	18	15
		1999	510 726	270 658	39 182	200 886	492 516	261 969	40 026	190 521	7	6	10	9
		1998	544 427	315 850	40 773	187 804	470 754	259 888	35 962	174 903	5	9	2	5
		1997	439 398	249 457	35 915	154 026	442 084	236 101	18 140	187 843	X	X	X	X
325910	Printing ink mfg	2001	464 589	259 255	33 055	172 279	496 038	265 075	37 924	193 038	10	7	27	15
		2000	489 109	257 516	38 871	192 721	504 098	267 661	38 368	198 069	11	7	18	15
		1999	510 726	270 658	39 182	200 886	492 516	261 969	40 026	190 521	7	6	10	9
		1998	544 427	315 850	40 773	187 804	470 754	259 888	35 962	174 903	5	9	2	5
		1997	439 398	249 457	35 915	154 026	442 084	236 101	18 140	187 843	X	X	X	X
32592	Explosives mfg	2001	161 610	54 420	46 283	60 906	141 555	46 443	41 372	53 741	5	10	6	5
		2000	152 009	49 360	45 986	56 662	140 769	43 119	43 342	54 309	3	6	4	5
		1999	148 965	47 406	43 172	58 387	147 223	48 197	40 954	58 072	3	6	2	4
		1998	152 405	45 779	42 265	64 361	157 226	46 132	47 577	63 516	4	15	3	1
		1997	164 460	46 718	51 925	65 817	163 679	51 232	55 490	56 957	X	X	X	X
325920	Explosives mfg	2001	161 610	54 420	46 283	60 906	141 555	46 443	41 372	53 741	5	10	6	5
		2000	152 009	49 360	45 986	56 662	140 769	43 119	43 342	54 309	3	6	4	5
		1999	148 965	47 406	43 172	58 387	147 223	48 197	40 954	58 072	3	6	2	4
		1998	152 405	45 779	42 265	64 361	157 226	46 132	47 577	63 516	4	15	3	1
		1997	164 460	46 718	51 925	65 817	163 679	51 232	55 490	56 957	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3259	Other chemical product mfg—Con.													
32599	All other chemical product & preparation mfg	2001	3 671 368	1 587 789	737 492	1 346 087	3 790 918	1 606 297	749 071	1 435 550	2	3	3	3
		2000	3 806 028	1 613 438	755 875	1 436 715	3 561 761	1 464 426	833 049	1 264 286	1	2	2	2
		1999	3 630 207	1 485 833	838 319	1 306 055	3 555 004	1 476 963	883 088	1 194 953	1	2	3	2
		1998	3 764 428	1 592 748	846 701	1 324 979	3 716 930	1 507 867	861 361	1 347 702	1	1	1	1
		1997	3 683 395	1 472 492	851 357	1 359 546	3 759 294	1 548 182	914 680	1 296 432	X	X	X	X
325991	Custom compounding of purchased resin	2001	742 710	359 895	34 792	348 022	816 033	394 127	26 173	395 733	3	3	26	3
		2000	827 177	393 060	32 321	401 797	789 897	382 162	35 065	372 670	2	2	20	3
		1999	788 946	381 461	35 131	372 354	759 408	382 048	27 302	350 058	2	3	12	3
		1998	819 885	417 748	29 859	372 278	776 157	380 833	34 315	361 009	1	1	3	1
		1997	788 266	377 275	37 020	373 971	756 631	376 693	33 599	346 339	X	X	X	X
325992	Photographic film, paper, plate, & chemical mfg	2001	1 424 921	495 100	483 588	446 233	1 425 154	412 932	503 596	508 627	1	1	1	2
		2000	1 438 237	428 221	502 095	507 921	1 243 974	301 460	556 589	385 925	1	1	1	1
		1999	1 306 604	316 084	567 333	423 187	1 376 840	353 712	632 786	390 341	1	1	1	1
		1998	1 411 990	367 001	626 787	418 202	1 467 034	366 216	657 542	443 276	1	1	1	1
		1997	1 477 178	354 729	655 137	467 312	1 621 129	475 895	706 946	438 288	X	X	X	X
325998	All other miscellaneous chemical product & preparation mfg	2001	1 503 738	732 794	219 111	551 832	1 549 731	799 237	219 303	531 190	5	5	7	8
		2000	1 540 614	792 157	221 459	526 998	1 527 890	780 804	241 395	505 692	3	5	7	4
		1999	1 534 656	788 288	235 855	510 514	1 418 756	741 203	223 000	454 553	3	3	9	5
		1998	1 532 553	807 998	190 054	534 500	1 473 739	760 817	169 504	543 418	1	1	2	2
		1997	1 417 951	740 488	159 200	518 263	1 381 534	695 594	174 135	511 805	X	X	X	X
326	Plastics & rubber products mfg	2001	16 523 428	8 120 736	2 079 181	6 323 511	17 636 300	8 535 019	2 207 943	6 893 338	1	1	2	1
		2000	17 780 789	8 625 087	2 221 725	6 933 977	17 029 071	7 976 067	2 212 778	6 840 227	1	1	2	1
		1999	17 019 647	7 898 861	2 268 162	6 852 623	15 999 601	7 443 450	2 221 654	6 334 497	1	1	1	1
		1998	15 931 775	7 368 888	2 241 480	6 321 406	15 892 315	7 203 004	2 226 221	6 463 090	1	1	1	1
		1997	15 979 716	7 260 449	2 190 362	6 528 905	15 574 510	7 159 313	2 109 296	6 305 901	X	X	X	X
3261	Plastics product mfg	2001	13 588 815	6 696 949	1 671 830	5 220 035	14 410 523	6 977 182	1 777 556	5 655 785	1	1	2	1
		2000	14 540 199	7 055 952	1 789 320	5 694 927	13 910 620	6 529 604	1 732 474	5 648 542	1	1	2	1
		1999	13 855 581	6 410 879	1 797 648	5 647 053	12 974 208	6 016 827	1 753 154	5 204 227	1	1	2	1
		1998	12 850 977	5 949 185	1 734 797	5 166 994	12 869 220	5 793 768	1 720 168	5 355 283	1	1	1	1
		1997	12 932 635	5 830 680	1 681 445	5 420 510	12 488 792	5 683 623	1 588 363	5 216 806	X	X	X	X
32611	Unsupported plastics film, sheet, & bag mfg	2001	2 703 933	1 300 334	362 988	1 040 612	2 846 820	1 329 073	380 129	1 137 617	2	2	4	2
		2000	2 838 443	1 348 945	358 973	1 130 526	2 878 806	1 336 984	382 345	1 159 478	1	1	3	2
		1999	2 929 074	1 337 409	420 872	1 170 793	2 726 004	1 227 955	435 018	1 063 031	2	2	4	2
		1998	2 639 216	1 146 808	433 578	1 058 830	2 650 803	1 124 747	415 536	1 110 520	1	1	4	2
		1997	2 695 191	1 159 424	403 091	1 132 676	2 616 518	1 142 621	383 809	1 090 088	X	X	X	X
326111	Unsupported plastics bag mfg	2001	711 505	353 265	85 518	272 722	758 909	370 311	78 147	310 450	2	2	2	4
		2000	763 243	373 974	77 672	311 597	786 953	391 821	71 450	323 683	2	2	2	4
		1999	808 667	401 526	74 650	332 491	697 934	327 781	71 342	298 812	2	1	2	3
		1998	692 747	294 254	77 340	321 153	717 694	288 436	84 572	344 686	2	2	5	2
		1997	720 400	307 300	77 163	335 937	721 484	310 904	65 119	345 461	X	X	X	X
326112	Unsupported plastics packaging film & sheet mfg	2001	432 396	228 969	64 998	138 430	472 051	246 434	65 649	159 967	3	3	5	5
		2000	479 072	249 600	66 681	162 792	470 530	250 061	64 169	156 300	3	3	5	4
		1999	508 832	271 618	67 357	169 858	454 039	234 568	71 658	147 813	5	5	6	5
		1998	415 262	207 190	73 463	134 609	438 227	206 931	71 239	160 057	3	3	4	4
		1997	441 654	209 596	71 927	160 131	440 043	210 526	78 961	150 556	X	X	X	X
326113	Unsupported plastics film & sheet (except packaging) mfg	2001	1 560 032	718 100	212 472	629 460	1 615 860	712 328	236 332	667 200	3	3	6	4
		2000	1 596 127	725 371	214 620	656 137	1 621 323	695 102	246 726	679 495	2	2	4	2
		1999	1 611 575	664 265	278 865	668 445	1 574 031	665 607	292 018	616 406	3	3	5	4
		1998	1 531 206	645 364	282 775	603 067	1 494 883	629 381	259 725	605 777	1	1	6	2
		1997	1 533 137	642 528	254 001	636 608	1 454 991	621 191	239 729	594 071	X	X	X	X
32612	Plastics pipe, pipe fitting, & unsupported profile shape mfg	2001	1 306 270	774 364	106 296	425 610	1 474 619	877 303	118 706	478 610	2	2	4	4
		2000	1 476 664	875 773	125 787	475 104	1 285 515	694 373	108 151	482 991	2	2	3	3
		1999	1 180 569	661 214	73 818	445 537	1 112 873	608 730	88 667	415 476	2	2	6	6
		1998	1 155 638	685 612	90 766	379 260	1 238 100	731 096	89 992	417 011	2	2	2	3
		1997	1 229 333	692 524	100 233	436 576	1 147 877	658 261	89 176	400 440	X	X	X	X
326121	Unsupported plastics profile shape mfg	2001	453 928	197 511	59 195	197 222	459 145	193 030	71 597	194 517	3	3	4	5
		2000	467 026	190 610	81 092	195 323	481 460	190 564	78 864	212 032	3	3	3	6
		1999	371 081	153 556	41 525	175 999	441 752	195 300	47 532	198 920	6	3	6	14
		1998	466 252	235 297	53 171	177 784	444 882	208 990	55 393	180 499	2	3	3	3
		1997	444 815	196 612	60 128	188 075	462 912	211 022	58 812	193 078	X	X	X	X
326122	Plastics pipe & pipe fitting mfg	2001	852 342	576 854	47 100	228 388	1 015 474	684 273	47 109	284 093	2	2	8	5
		2000	1 009 638	685 163	44 695	279 780	804 054	503 809	29 287	270 958	2	2	8	4
		1999	809 489	507 658	32 293	269 538	671 122	413 430	41 135	216 557	2	2	11	4
		1998	689 386	450 315	37 595	201 476	793 217	522 106	34 600	236 511	2	2	4	6
		1997	784 518	495 912	40 105	248 501	684 965	447 239	30 364	207 362	X	X	X	X
32613	Laminated plastics plate, sheet, & shape mfg	2001	303 362	112 983	51 165	139 214	325 351	118 796	47 608	158 947	3	3	6	4
		2000	326 727	121 459	47 712	157 555	337 771	129 112	49 576	159 082	2	2	5	3
		1999	338 808	129 510	51 756	157 543	327 211	126 202	48 741	152 269	2	2	4	2
		1998	335 041	124 950	57 182	152 909	339 315	128 997	61 090	149 228	1	2	5	1
		1997	382 636	152 184	61 254	169 198	374 229	155 400	59 631	159 198	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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
326	Plastics & rubber products mfg—Con.													
3261	Plastics product mfg—Con.													
32613	Laminated plastics plate, sheet, & shape mfg—Con.													
326130	Laminated plastics plate, sheet, & shape mfg	2001	303 362	112 983	51 165	139 214	325 351	118 796	47 608	158 947	3	3	6	4
		2000	326 727	121 459	47 712	157 555	337 771	129 112	49 576	159 082	2	2	5	3
		1999	338 808	129 510	51 756	157 543	327 211	126 202	48 741	152 269	2	2	4	2
		1998	335 041	124 950	57 182	152 909	339 315	128 997	61 090	149 228	1	2	5	1
		1997	382 636	152 184	61 254	169 198	374 229	155 400	59 631	159 198	X	X	X	X
32614	Polystyrene foam product mfg	2001	592 101	342 881	47 766	201 454	615 724	340 251	51 363	224 110	5	6	8	5
		2000	607 560	336 676	52 859	218 025	563 106	295 284	47 551	220 271	3	4	10	4
		1999	547 873	269 016	72 951	205 906	477 197	253 553	50 911	172 733	3	2	22	3
		1998	476 303	245 617	51 874	178 811	463 633	209 488	47 447	206 698	1	1	3	2
		1997	444 041	204 368	46 166	193 507	442 884	211 763	39 587	191 534	X	X	X	X
326140	Polystyrene foam product mfg	2001	592 101	342 881	47 766	201 454	615 724	340 251	51 363	224 110	5	6	8	5
		2000	607 560	336 676	52 859	218 025	563 106	295 284	47 551	220 271	3	4	10	4
		1999	547 873	269 016	72 951	205 906	477 197	253 553	50 911	172 733	3	2	22	3
		1998	476 303	245 617	51 874	178 811	463 633	209 488	47 447	206 698	1	1	3	2
		1997	444 041	204 368	46 166	193 507	442 884	211 763	39 587	191 534	X	X	X	X
32615	Urethane & other foam product (except polystyrene) mfg	2001	475 359	182 172	57 877	235 310	506 164	166 415	63 544	276 205	13	27	11	7
		2000	508 328	173 026	61 492	273 810	532 815	195 108	64 417	273 289	8	21	6	5
		1999	542 961	198 977	68 098	275 885	537 172	169 672	68 269	299 230	8	18	3	5
		1998	487 423	155 826	69 930	261 667	489 162	148 688	69 769	270 705	1	2	2	3
		1997	492 574	148 912	71 086	272 576	462 131	138 698	62 700	260 733	X	X	X	X
326150	Urethane & other foam product (except polystyrene) mfg	2001	475 359	182 172	57 877	235 310	506 164	166 415	63 544	276 205	13	27	11	7
		2000	508 328	173 026	61 492	273 810	532 815	195 108	64 417	273 289	8	21	6	5
		1999	542 961	198 977	68 098	275 885	537 172	169 672	68 269	299 230	8	18	3	5
		1998	487 423	155 826	69 930	261 667	489 162	148 688	69 769	270 705	1	2	2	3
		1997	492 574	148 912	71 086	272 576	462 131	138 698	62 700	260 733	X	X	X	X
32616	Plastics bottle mfg	2001	762 358	407 753	70 073	284 532	755 365	370 300	98 670	286 395	3	3	7	3
		2000	753 006	372 659	98 203	282 144	712 302	342 408	85 785	284 110	2	2	4	2
		1999	675 763	332 881	63 888	278 994	588 820	301 477	61 283	226 060	2	2	4	2
		1998	602 923	298 504	64 467	239 952	568 671	279 402	70 271	218 998	2	2	2	4
		1997	568 465	277 253	67 875	223 337	522 307	266 445	49 014	206 848	X	X	X	X
326160	Plastics bottle mfg	2001	762 358	407 753	70 073	284 532	755 365	370 300	98 670	286 395	3	3	7	3
		2000	753 006	372 659	98 203	282 144	712 302	342 408	85 785	284 110	2	2	4	2
		1999	675 763	332 881	63 888	278 994	588 820	301 477	61 283	226 060	2	2	4	2
		1998	602 923	298 504	64 467	239 952	568 671	279 402	70 271	218 998	2	2	2	4
		1997	568 465	277 253	67 875	223 337	522 307	266 445	49 014	206 848	X	X	X	X
32619	Other plastics product mfg	2001	7 445 430	3 576 461	975 665	2 893 304	7 886 481	3 775 045	1 017 536	3 093 901	1	2	3	2
		2000	8 029 470	3 827 414	1 044 293	3 157 763	7 600 305	3 536 336	994 650	3 069 320	1	2	3	2
		1999	7 640 533	3 481 872	1 046 265	3 112 396	7 204 930	3 329 237	1 000 266	2 875 428	1	2	2	1
		1998	7 154 435	3 291 869	967 001	2 895 565	7 119 536	3 171 350	966 063	2 982 123	1	1	1	1
		1997	7 120 395	3 196 015	931 740	2 992 640	6 922 846	3 110 435	904 446	2 907 965	X	X	X	X
326191	Plastics plumbing fixture mfg	2001	198 457	82 048	20 755	95 654	198 122	87 738	16 842	93 542	8	9	27	9
		2000	205 143	91 503	19 430	94 210	200 206	98 391	15 862	85 954	5	7	14	5
		1999	209 024	97 190	18 459	93 375	180 876	80 688	17 398	82 790	4	7	14	4
		1998	176 228	75 366	14 484	86 377	162 342	65 289	13 920	83 133	2	3	14	1
		1997	159 966	65 011	13 177	81 778	161 854	65 376	17 501	78 977	X	X	X	X
326192	Resilient floor covering mfg	2001	233 961	178 199	14 758	41 004	235 782	178 719	13 698	43 365	2	3	3	3
		2000	234 659	177 816	13 631	43 212	244 787	182 873	14 718	47 196	2	3	3	2
		1999	252 756	180 196	15 265	57 295	250 515	191 459	16 785	42 272	1	1	1	1
		1998	242 859	184 957	15 629	42 273	263 014	197 916	18 241	46 857	1	1	1	1
		1997	250 891	189 490	17 803	43 598	252 444	167 987	18 315	66 142	X	X	X	X
326199	All other plastics product mfg	2001	7 013 012	3 316 214	940 152	2 756 645	7 452 577	3 508 588	986 995	2 956 995	1	2	3	2
		2000	7 589 668	3 558 095	1 011 232	3 020 341	7 155 311	3 255 072	964 070	2 936 170	1	2	3	2
		1999	7 178 754	3 204 486	1 012 541	2 961 726	6 773 539	3 057 090	966 083	2 750 367	1	2	2	1
		1998	6 735 348	3 031 545	936 888	2 766 915	6 694 180	2 908 145	933 902	2 852 133	1	1	2	1
		1997	6 709 538	2 941 514	900 760	2 867 264	6 508 548	2 877 072	868 630	2 762 846	X	X	X	X
3262	Rubber product mfg	2001	2 934 613	1 423 787	407 351	1 103 476	3 225 777	1 557 837	430 387	1 237 553	2	3	3	2
		2000	3 240 590	1 569 135	432 406	1 239 050	3 118 451	1 446 463	480 304	1 191 685	2	3	3	2
		1999	3 164 066	1 487 982	470 514	1 205 570	3 025 393	1 426 624	468 499	1 130 270	1	2	2	2
		1998	3 080 798	1 419 703	506 683	1 154 412	3 023 095	1 409 236	506 052	1 107 807	1	1	2	1
		1997	3 047 081	1 429 769	508 917	1 108 395	3 085 718	1 475 690	520 933	1 089 095	X	X	X	X
32621	Tire mfg	2001	1 179 882	614 462	123 086	442 334	1 314 685	660 212	133 803	520 670	1	1	2	2
		2000	1 314 951	663 502	133 467	517 981	1 275 690	647 995	158 760	468 935	2	1	3	5
		1999	1 249 188	650 691	135 489	463 008	1 157 827	589 125	144 925	423 777	1	1	1	1
		1998	1 183 773	602 950	147 581	433 242	1 168 421	610 342	149 894	408 185	1	1	1	1
		1997	1 164 493	606 442	147 196	410 855	1 194 191	638 344	142 311	413 536	X	X	X	X
326211	Tire mfg (except retreading)	2001	1 071 381	556 584	115 707	399 090	1 223 657	613 349	127 613	482 695	1	1	2	3
		2000	1 224 174	616 669	127 641	479 864	1 189 207	605 269	152 920	431 017	2	1	3	5
		1999	1 157 938	603 162	129 757	425 020	1 068 643	543 067	139 399	386 176	1	1	1	1
		1998	1 075 969	543 074	140 349	392 546	1 060 665	551 523	140 753	368 389	1	1	1	1
		1997	1 057 583	548 520	140 772	368 291	1 086 998	579 451	134 075	373 472	X	X	X	X
326212	Tire retreading	2001	108 501	57 878	7 379	43 244	91 027	46 863	6 190	37 974	8	13	15	5
		2000	90 776	46 833	5 827	38 117	86 483	42 726	5 839	37 918	7	13	11	5
		1999	91 250	47 529	5 732	37 988	89 184	46 058	5 525	37 601	5	9	10	5
		1998	107 804	59 876	7 232	40 696	107 756	58 819	9 141	39 795	3	3	10	6
		1997	106 910	57 922	6 424	42 564	107 193	58 893	8 236	40 064	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
326	Plastics & rubber products mfg—Con.													
3262	Rubber product mfg—Con.													
32622	Rubber & plastics hoses & belting mfg	2001	564 909	314 282	97 227	153 400	575 539	326 542	91 785	157 211	3	4	4	7
		2000	576 566	329 013	91 740	155 814	535 931	301 268	87 616	147 047	3	3	3	6
		1999	541 331	304 480	88 479	148 372	522 442	298 601	84 263	139 578	1	2	3	4
		1998	495 398	283 439	75 527	136 432	495 724	278 459	82 596	134 670	2	3	3	4
		1997	522 042	305 297	89 600	127 145	563 650	334 360	100 573	128 717	X	X	X	X
326220	Rubber & plastics hoses & belting mfg	2001	564 909	314 282	97 227	153 400	575 539	326 542	91 785	157 211	3	4	4	7
		2000	576 566	329 013	91 740	155 814	535 931	301 268	87 616	147 047	3	3	3	6
		1999	541 331	304 480	88 479	148 372	522 442	298 601	84 263	139 578	1	2	3	4
		1998	495 398	283 439	75 527	136 432	495 724	278 459	82 596	134 670	2	3	3	4
		1997	522 042	305 297	89 600	127 145	563 650	334 360	100 573	128 717	X	X	X	X
32629	Other rubber product mfg	2001	1 189 822	495 043	187 037	507 742	1 335 553	571 082	204 799	559 672	4	8	7	3
		2000	1 349 073	576 620	207 198	565 254	1 306 830	497 199	233 928	575 703	4	9	7	3
		1999	1 373 547	532 811	246 546	594 189	1 345 124	538 897	239 312	566 915	3	5	3	3
		1998	1 401 627	533 314	283 574	584 738	1 358 949	520 435	273 563	564 952	1	3	3	2
		1997	1 360 546	518 030	272 121	570 395	1 327 877	502 986	278 049	546 842	X	X	X	X
326291	Rubber product mfg for mechanical use	2001	513 071	201 078	102 599	209 395	551 986	218 631	106 891	226 464	2	3	2	3
		2000	564 321	224 726	108 998	230 598	528 813	196 091	114 835	217 887	2	3	2	3
		1999	538 458	200 831	117 735	219 892	525 975	208 731	107 174	210 069	2	3	3	3
		1998	551 321	208 935	120 425	221 961	528 659	199 267	114 537	214 855	2	3	8	4
		1997	526 332	200 488	111 935	213 909	492 887	177 957	109 809	205 121	X	X	X	X
326299	All other rubber product mfg	2001	676 751	293 965	84 438	298 347	783 568	352 452	97 908	333 207	7	13	15	5
		2000	784 752	351 895	98 200	334 657	778 017	301 109	119 093	357 815	7	14	14	4
		1999	835 088	331 980	128 811	374 298	819 150	330 166	132 137	356 846	5	8	4	5
		1998	850 306	324 380	163 149	362 777	830 290	321 168	159 026	350 097	2	4	2	2
		1997	834 214	317 542	160 186	356 486	834 990	325 029	168 240	341 721	X	X	X	X
327	Nonmetallic mineral product mfg	2001	9 439 794	4 747 593	1 181 837	3 510 364	9 641 275	4 907 336	1 258 612	3 475 327	1	1	3	2
		2000	9 799 024	4 961 239	1 304 496	3 533 289	9 173 749	4 671 100	1 181 309	3 321 340	1	1	2	2
		1999	9 278 702	4 715 279	1 209 836	3 353 588	8 877 249	4 510 452	1 152 085	3 214 712	1	1	1	1
		1998	9 160 204	4 567 991	1 226 746	3 365 468	8 917 196	4 491 537	1 184 798	3 240 860	1	1	1	1
		1997	8 840 326	4 457 304	1 187 891	3 195 131	8 636 639	4 433 370	1 178 562	3 024 707	X	X	X	X
3271	Clay product & refractory mfg	2001	1 324 589	794 233	180 888	349 468	1 376 627	795 882	211 648	369 098	3	3	6	4
		2000	1 391 876	805 500	209 718	376 659	1 297 610	729 854	205 741	362 016	3	3	5	4
		1999	1 346 083	751 530	214 740	379 813	1 356 593	755 584	213 787	387 222	2	2	4	3
		1998	1 497 188	830 620	234 142	432 426	1 479 393	825 084	242 552	411 757	1	2	2	2
		1997	1 496 228	839 849	244 347	412 032	1 465 819	844 388	230 566	390 865	X	X	X	X
32711	Pottery, ceramics, & plumbing fixture mfg	2001	536 932	279 129	114 740	143 063	569 587	289 152	131 542	148 893	4	5	6	4
		2000	573 493	291 313	131 943	150 237	548 120	275 195	135 514	137 410	4	5	5	5
		1999	571 726	284 265	142 187	145 273	567 405	279 377	141 864	146 163	3	4	4	5
		1998	608 736	289 647	152 206	166 883	589 952	280 185	157 081	152 686	1	2	2	5
		1997	581 111	280 055	153 230	147 826	550 349	270 780	141 957	137 612	X	X	X	X
327111	Vitreous china plumbing fixture & bathroom accessories mfg	2001	81 541	48 054	15 926	17 562	88 486	50 664	17 762	20 060	12	16	8	13
		2000	87 927	50 174	17 740	20 014	96 831	61 040	17 581	18 211	11	16	6	11
		1999	95 359	59 470	17 493	18 396	89 450	46 738	19 797	22 915	7	9	4	8
		1998	103 746	58 782	20 015	24 949	99 517	56 638	22 687	20 192	1	1	1	1
		1997	102 233	58 689	23 317	20 227	118 130	71 506	25 743	20 881	X	X	X	X
327112	Vitreous china, fine earthenware, & other pottery product mfg	2001	289 238	162 723	56 273	70 243	306 708	166 989	62 542	77 177	6	7	12	5
		2000	310 397	169 210	62 789	78 397	296 079	160 139	66 175	69 765	6	6	11	7
		1999	314 649	168 504	72 644	73 500	313 359	173 799	72 967	66 593	5	5	6	7
		1998	323 512	174 276	78 096	71 140	330 212	168 837	84 155	77 220	1	1	1	1
		1997	319 444	166 218	79 934	73 292	277 771	144 374	68 474	64 923	X	X	X	X
327113	Porcelain electrical supply mfg	2001	166 152	68 353	42 541	55 259	174 393	71 499	51 238	51 656	4	5	5	5
		2000	175 169	71 929	51 414	51 826	155 210	54 017	51 759	49 434	4	6	5	6
		1999	161 717	56 291	52 050	53 377	164 596	58 841	49 101	56 655	3	6	5	7
		1998	181 478	56 588	54 095	70 794	160 223	54 710	50 239	55 274	4	8	6	11
		1997	159 434	55 148	49 979	54 307	154 448	54 900	47 740	51 808	X	X	X	X
32712	Clay building material & refractories mfg	2001	787 657	515 104	66 148	206 405	807 040	506 730	80 105	220 205	4	4	13	7
		2000	818 383	514 187	77 775	226 421	749 490	454 658	70 226	224 605	4	3	10	6
		1999	774 357	467 265	72 553	234 539	789 188	476 207	71 922	241 059	3	3	11	4
		1998	888 452	540 973	81 936	265 542	889 441	544 898	85 472	259 071	2	3	1	2
		1997	915 117	559 794	91 117	264 206	915 470	573 608	88 609	253 253	X	X	X	X
327121	Brick & structural clay tile mfg	2001	300 842	236 496	13 753	50 592	268 935	197 948	15 220	55 766	5	5	7	6
		2000	269 105	199 048	11 844	58 214	223 430	159 503	11 578	52 349	3	4	4	5
		1999	233 696	167 034	11 808	54 854	255 305	189 228	10 368	55 709	3	3	4	3
		1998	259 195	194 469	10 540	54 185	267 007	206 055	10 195	50 757	2	2	4	3
		1997	268 056	206 778	10 275	51 003	268 198	210 049	9 645	48 504	X	X	X	X
327122	Ceramic wall & floor tile mfg	2001	173 765	109 749	8 450	55 566	183 039	121 234	11 128	50 677	6	6	34	9
		2000	182 808	121 067	11 138	50 603	163 893	109 783	9 225	44 884	6	7	8	5
		1999	166 726	114 027	9 183	43 516	143 170	97 550	9 164	36 456	4	5	8	5
		1998	192 590	146 884	10 239	35 467	183 560	132 936	11 877	38 746	6	12	6	13
		1997	187 820	135 250	11 532	41 038	177 657	127 749	15 613	34 295	X	X	X	X
327123	Other structural clay product mfg	2001	27 333	19 831	2 244	5 258	28 520	21 000	2 643	4 877	6	6	5	6
		2000	28 841	21 239	2 662	4 940	21 356	15 509	2 039	3 808	3	4	3	3
		1999	21 355	15 505	2 064	3 787	21 574	16 551	1 348	3 674	5	5	4	4
		1998	22 926	17 246	1 679	4 001	21 736	16 513	1 359	3 864	1	1	1	1
		1997	21 685	16 550	1 513	3 622	24 827	17 920	1 807	5 100	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3271	Clay product & refractory mfg—Con.													
32712	Clay building material & refractories mfg—Con.													
327124	Clay refractory mfg	2001	97 083	47 731	7 867	41 485	109 752	57 146	8 350	44 257	21	17	A	19
		2000	116 340	60 307	9 286	46 747	117 404	57 746	11 836	47 821	18	14	84	17
		1999	109 185	53 872	11 105	44 208	116 857	52 687	12 789	51 381	18	14	69	17
		1998	160 242	66 036	23 557	70 648	172 815	73 037	27 057	72 721	3	5	3	3
		1997	171 621	72 588	27 398	71 635	165 474	79 194	19 836	66 444	X	X	X	X
327125	Nonclay refractory mfg	2001	188 635	101 297	33 834	53 504	216 794	109 403	42 764	64 627	11	11	5	21
		2000	221 289	112 527	42 845	65 917	223 408	112 118	35 548	75 742	9	9	4	17
		1999	243 395	116 827	38 393	88 175	252 284	120 191	38 254	93 839	4	6	4	4
		1998	253 499	116 338	35 920	101 241	244 323	116 357	34 983	92 983	1	1	1	2
		1997	265 935	128 628	40 399	96 908	279 314	138 696	41 708	98 910	X	X	X	X
3272	Glass & glass product mfg	2001	2 903 322	1 668 821	362 724	871 778	3 078 233	1 794 177	388 624	895 432	1	2	3	2
		2000	3 078 130	1 792 658	390 905	894 567	2 896 195	1 702 359	383 488	810 348	1	1	2	2
		1999	2 916 643	1 712 793	386 436	817 415	2 798 006	1 675 921	344 073	778 012	1	1	1	2
		1998	2 834 763	1 696 073	339 079	799 611	2 721 121	1 593 353	346 798	780 970	1	1	1	3
		1997	2 722 613	1 590 735	350 836	781 042	2 634 864	1 568 971	317 795	748 098	X	X	X	X
32721	Glass & glass product mfg	2001	2 903 322	1 668 821	362 724	871 778	3 078 233	1 794 177	388 624	895 432	1	2	3	2
		2000	3 078 130	1 792 658	390 905	894 567	2 896 195	1 702 359	383 488	810 348	1	1	2	2
		1999	2 916 643	1 712 793	386 436	817 415	2 798 006	1 675 921	344 073	778 012	1	1	1	2
		1998	2 834 763	1 696 073	339 079	799 611	2 721 121	1 593 353	346 798	780 970	1	1	1	3
		1997	2 722 613	1 590 735	350 836	781 042	2 634 864	1 568 971	317 795	748 098	X	X	X	X
327211	Flat glass mfg	2001	302 878	204 989	34 592	63 298	288 706	187 523	41 237	59 946	1	1	1	1
		2000	291 148	186 046	43 957	61 145	270 434	163 223	48 235	58 976	1	2	1	1
		1999	270 619	163 359	48 243	59 017	273 374	182 624	32 541	58 210	1	2	1	1
		1998	275 652	188 379	32 556	54 716	299 831	201 400	40 829	57 602	1	1	1	1
		1997	299 831	201 400	40 829	57 602	283 963	181 148	41 078	61 737	X	X	X	X
327212	Other pressed & blown glass & glassware mfg	2001	951 815	562 003	110 008	279 804	1 001 987	582 161	137 916	281 911	1	2	2	2
		2000	1 009 670	587 019	138 459	284 192	903 201	556 521	122 320	224 360	1	2	2	2
		1999	910 535	561 318	123 113	226 104	913 183	590 102	107 519	215 562	1	2	2	2
		1998	970 202	613 489	104 490	252 224	894 721	556 418	112 768	225 535	2	2	1	5
		1997	890 018	554 897	111 933	223 188	822 107	514 819	95 715	211 573	X	X	X	X
327213	Glass container mfg	2001	629 399	516 672	1 050	111 677	734 873	603 511	948	130 414	3	4	1	1
		2000	735 153	603 936	940	130 277	707 369	588 589	1 694	117 085	2	3	12	1
		1999	708 590	589 108	1 696	117 785	683 686	565 091	1 820	116 775	2	2	7	2
		1998	674 517	555 799	1 915	116 803	622 189	501 654	1 927	118 608	1	1	1	1
		1997	622 189	501 654	1 927	118 608	677 460	553 013	1 581	122 866	X	X	X	X
327215	Glass product mfg made of purchased glass	2001	1 019 229	385 157	217 074	416 999	1 052 666	420 983	208 523	423 160	3	4	5	5
		2000	1 042 158	415 657	207 548	418 953	1 015 192	394 026	211 238	409 927	2	3	3	4
		1999	1 026 899	399 008	213 383	414 508	927 762	338 104	202 193	387 465	2	3	2	3
		1998	914 392	338 405	200 119	375 868	904 379	333 881	191 274	379 224	2	1	2	5
		1997	910 575	332 784	196 147	381 644	851 334	319 991	179 421	351 922	X	X	X	X
3273	Cement & concrete product mfg	2001	3 301 703	1 538 664	332 474	1 430 564	3 256 924	1 554 761	356 058	1 346 105	2	3	7	3
		2000	3 262 901	1 569 417	352 747	1 340 737	2 921 069	1 420 894	270 242	1 229 933	2	3	4	3
		1999	2 956 236	1 438 929	278 344	1 238 963	2 735 485	1 328 339	262 848	1 144 298	2	3	3	2
		1998	2 820 280	1 282 628	279 865	1 257 787	2 733 658	1 283 879	215 003	1 234 776	2	3	3	2
		1997	2 651 856	1 261 923	208 999	1 180 934	2 573 632	1 220 059	239 133	1 114 440	X	X	X	X
32731	Cement mfg	2001	1 065 786	265 563	181 812	618 410	1 101 685	295 497	206 744	599 444	1	2	2	2
		2000	1 074 741	288 902	203 161	582 678	924 481	225 243	146 094	553 144	1	2	3	1
		1999	923 113	224 963	150 193	547 957	849 477	202 432	113 144	533 902	1	2	2	1
		1998	860 352	186 403	124 857	549 092	839 603	211 926	100 288	527 390	3	6	5	2
		1997	831 670	214 752	104 931	511 987	845 233	220 055	133 074	492 104	X	X	X	X
327310	Cement mfg	2001	1 065 786	265 563	181 812	618 410	1 101 685	295 497	206 744	599 444	1	2	2	2
		2000	1 074 741	288 902	203 161	582 678	924 481	225 243	146 094	553 144	1	2	3	1
		1999	923 113	224 963	150 193	547 957	849 477	202 432	113 144	533 902	1	2	2	1
		1998	860 352	186 403	124 857	549 092	839 603	211 926	100 288	527 390	3	6	5	2
		1997	831 670	214 752	104 931	511 987	845 233	220 055	133 074	492 104	X	X	X	X
32732	Ready-mix concrete mfg	2001	648 943	164 955	15 839	468 148	575 212	163 846	18 921	392 445	8	12	14	10
		2000	587 795	167 763	19 505	400 527	546 466	181 498	13 981	350 987	8	12	12	10
		1999	564 590	184 719	15 090	364 781	546 753	200 198	17 559	328 996	7	13	13	7
		1998	635 489	182 556	27 463	425 471	649 586	191 408	19 180	438 998	4	10	3	3
		1997	576 894	157 252	17 287	402 355	559 430	174 466	20 855	364 109	X	X	X	X
327320	Ready-mix concrete mfg	2001	648 943	164 955	15 839	468 148	575 212	163 846	18 921	392 445	8	12	14	10
		2000	587 795	167 763	19 505	400 527	546 466	181 498	13 981	350 987	8	12	12	10
		1999	564 590	184 719	15 090	364 781	546 753	200 198	17 559	328 996	7	13	13	7
		1998	635 489	182 556	27 463	425 471	649 586	191 408	19 180	438 998	4	10	3	3
		1997	576 894	157 252	17 287	402 355	559 430	174 466	20 855	364 109	X	X	X	X
32733	Concrete pipe, brick, & block mfg	2001	797 283	649 724	22 850	124 709	812 386	655 022	29 327	128 036	4	5	14	5
		2000	819 250	662 633	29 235	127 382	746 440	594 556	29 126	122 758	6	6	13	8
		1999	762 654	609 968	29 718	122 969	719 686	547 590	58 825	113 271	5	6	12	6
		1998	688 278	515 328	57 303	115 646	646 669	518 143	23 272	105 254	4	5	2	6
		1997	637 604	509 048	23 674	104 882	593 069	469 933	26 270	96 866	X	X	X	X
327331	Concrete block & brick mfg	2001	489 183	411 271	5 600	72 312	499 983	419 187	6 289	74 507	6	7	48	8
		2000	497 973	417 280	6 581	74 112	444 439	366 029	5 325	73 085	9	9	42	13
		1999	456 085	377 648	5 814	72 624	429 268	355 079	6 509	67 680	8	9	47	9
		1998	387 636	313 086	13 625	60 924	351 633	290 499	8 878	52 256	5	5	3	6
		1997	343 109	282 027	9 300	51 782	315 474	259 111	5 475	50 888	X	X	X	X
327332	Concrete pipe mfg	2001	308 100	238 453	17 250	52 397	312 403	235 836	23 039	53 529	4	5	9	6
		2000	321 277	245 354	22 654	53 269	302 001	228 527	23 801	49 673	4	5	12	5
		1999	306 569	232 320	23 904	50 345	290 419	192 512	52 316	45 591	4	4	10	5
		1998	300 642	202 242	43 678	54 722	295 036	227 644	14 394	52 998	6	8	3	11
		1997	294 495	227 021	14 374	53 100	277 595	210 822	20 795	45 978	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3273	Cement & concrete product mfg—Con.													
32739	Other concrete product mfg	2001	789 691	458 422	111 973	219 296	767 641	440 396	101 065	226 181	6	5	20	7
		2000	781 114	450 118	100 846	230 151	703 681	419 596	81 041	203 045	4	4	11	6
		1999	705 879	419 280	83 344	203 255	619 569	378 119	73 320	168 129	3	3	8	4
		1998	636 160	398 341	70 242	167 578	597 800	362 402	72 264	163 134	2	3	7	2
		1997	605 688	380 871	63 107	161 710	575 900	355 605	58 934	161 361	X	X	X	X
327390	Other concrete product mfg	2001	789 691	458 422	111 973	219 296	767 641	440 396	101 065	226 181	6	5	20	7
		2000	781 114	450 118	100 846	230 151	703 681	419 596	81 041	203 045	4	4	11	6
		1999	705 879	419 280	83 344	203 255	619 569	378 119	73 320	168 129	3	3	8	4
		1998	636 160	398 341	70 242	167 578	597 800	362 402	72 264	163 134	2	3	7	2
		1997	605 688	380 871	63 107	161 710	575 900	355 605	58 934	161 361	X	X	X	X
3274	Lime & gypsum product mfg	2001	373 410	97 383	22 059	253 967	379 774	90 375	19 937	269 461	6	5	15	7
		2000	416 854	94 513	20 798	301 543	415 308	89 069	19 002	307 236	4	5	8	6
		1999	417 511	88 177	19 202	310 133	384 903	77 085	19 860	287 958	4	5	6	5
		1998	375 099	67 764	24 430	282 906	378 595	89 920	23 235	265 439	4	23	5	2
		1997	362 397	85 742	23 236	253 419	351 787	90 730	25 423	235 634	X	X	X	X
32741	Lime mfg	2001	121 828	25 542	10 704	85 581	133 918	27 204	9 162	97 552	5	7	14	7
		2000	133 204	27 042	9 193	96 970	140 266	26 873	7 502	105 891	4	6	13	5
		1999	145 028	26 990	7 659	110 379	144 277	25 134	9 506	109 637	4	6	12	5
		1998	146 282	19 224	14 668	112 390	142 305	18 640	13 045	110 621	1	10	8	2
		1997	133 859	15 070	12 881	105 908	125 167	18 441	14 287	92 439	X	X	X	X
327410	Lime mfg	2001	121 828	25 542	10 704	85 581	133 918	27 204	9 162	97 552	5	7	14	7
		2000	133 204	27 042	9 193	96 970	140 266	26 873	7 502	105 891	4	6	13	5
		1999	145 028	26 990	7 659	110 379	144 277	25 134	9 506	109 637	4	6	12	5
		1998	146 282	19 224	14 668	112 390	142 305	18 640	13 045	110 621	1	10	8	2
		1997	133 859	15 070	12 881	105 908	125 167	18 441	14 287	92 439	X	X	X	X
32742	Gypsum product mfg	2001	251 582	71 840	11 355	168 386	245 856	63 171	10 775	171 909	8	7	26	10
		2000	283 650	67 471	11 605	204 574	275 042	62 196	11 501	201 345	6	7	10	8
		1999	272 484	61 186	11 543	199 754	240 626	51 951	10 354	178 321	6	7	6	8
		1998	228 817	48 540	9 761	170 516	236 290	71 281	10 190	154 819	7	32	6	4
		1997	228 538	70 672	10 355	147 511	226 620	72 289	11 136	143 195	X	X	X	X
327420	Gypsum product mfg	2001	251 582	71 840	11 355	168 386	245 856	63 171	10 775	171 909	8	7	26	10
		2000	283 650	67 471	11 605	204 574	275 042	62 196	11 501	201 345	6	7	10	8
		1999	272 484	61 186	11 543	199 754	240 626	51 951	10 354	178 321	6	7	6	8
		1998	228 817	48 540	9 761	170 516	236 290	71 281	10 190	154 819	7	32	6	4
		1997	228 538	70 672	10 355	147 511	226 620	72 289	11 136	143 195	X	X	X	X
3279	Other nonmetallic mineral product mfg	2001	1 536 771	648 492	283 692	604 587	1 549 717	672 140	282 346	595 231	3	4	4	4
		2000	1 649 263	699 151	330 329	619 783	1 643 568	728 925	302 836	611 806	2	3	4	3
		1999	1 642 229	723 851	311 113	607 265	1 602 262	673 523	311 516	617 223	2	3	3	3
		1998	1 632 875	690 906	349 230	592 739	1 604 429	699 301	357 210	547 918	2	2	3	2
		1997	1 607 232	679 055	360 473	567 704	1 610 537	709 222	365 645	535 670	X	X	X	X
32791	Abrasive product mfg	2001	492 693	155 172	172 370	165 151	529 310	179 365	164 876	185 070	5	7	5	7
		2000	617 761	203 272	209 691	204 798	649 602	251 161	189 158	209 283	3	6	4	6
		1999	651 387	251 643	189 255	210 489	629 187	223 629	188 418	217 140	3	5	4	5
		1998	676 737	231 560	227 884	217 293	709 725	258 770	242 918	208 037	2	5	4	3
		1997	696 662	247 768	243 225	205 669	718 809	262 571	254 967	201 271	X	X	X	X
327910	Abrasive product mfg	2001	492 693	155 172	172 370	165 151	529 310	179 365	164 876	185 070	5	7	5	7
		2000	617 761	203 272	209 691	204 798	649 602	251 161	189 158	209 283	3	6	4	6
		1999	651 387	251 643	189 255	210 489	629 187	223 629	188 418	217 140	3	5	4	5
		1998	676 737	231 560	227 884	217 293	709 725	258 770	242 918	208 037	2	5	4	3
		1997	696 662	247 768	243 225	205 669	718 809	262 571	254 967	201 271	X	X	X	X
32799	All other nonmetallic mineral product mfg	2001	1 044 077	493 320	111 321	439 436	1 020 407	492 775	117 470	410 161	3	4	6	5
		2000	1 031 502	495 879	120 638	414 986	993 965	477 763	113 678	402 523	3	3	8	4
		1999	990 842	472 207	121 859	396 776	973 075	449 895	123 098	400 082	3	3	6	4
		1998	956 138	459 346	121 346	375 446	894 703	440 531	114 291	339 881	2	3	4	3
		1997	910 570	431 287	117 248	362 035	891 728	446 651	110 678	334 399	X	X	X	X
327991	Cut stone & stone product mfg	2001	212 782	97 494	36 422	78 867	188 847	82 787	36 287	69 772	7	9	12	10
		2000	190 744	82 340	37 565	70 839	184 280	77 843	33 415	73 022	7	7	13	10
		1999	189 257	80 573	37 149	71 535	187 397	78 536	41 988	66 874	8	9	12	11
		1998	166 859	89 826	33 745	43 288	150 344	82 394	27 136	40 814	7	11	12	10
		1997	152 745	77 773	30 413	44 559	150 680	84 763	26 194	39 723	X	X	X	X
327992	Ground or treated mineral & earth mfg	2001	277 592	97 201	32 104	148 287	264 845	98 271	37 189	129 385	5	6	10	8
		2000	271 152	100 442	38 265	132 446	245 957	92 116	33 492	120 349	5	6	15	8
		1999	249 523	93 173	32 875	123 475	249 420	81 278	31 515	136 627	5	5	11	9
		1998	246 194	84 945	32 346	128 903	222 869	79 736	31 827	111 305	5	7	3	6
		1997	264 046	93 556	40 168	130 322	256 701	87 199	38 017	131 485	X	X	X	X
327993	Mineral wool mfg	2001	355 325	202 082	25 859	127 384	359 885	212 363	24 407	123 114	7	8	10	12
		2000	363 433	213 310	25 164	124 959	370 049	213 597	26 821	129 631	5	5	12	6
		1999	370 896	211 962	31 000	127 933	363 984	205 450	31 896	126 638	4	6	10	2
		1998	343 434	193 726	25 388	124 320	334 083	192 692	22 277	119 113	1	1	5	2
		1997	323 673	184 853	22 951	115 869	327 514	201 793	23 566	102 155	X	X	X	X
327999	All other miscellaneous nonmetallic mineral product mfg	2001	198 378	96 543	16 936	84 899	206 831	99 354	19 587	87 890	8	7	23	10
		2000	206 172	99 787	19 644	86 742	193 679	94 208	19 950	79 522	8	8	22	10
		1999	181 167	86 500	20 834	73 832	172 273	84 631	17 698	69 943	5	4	16	9
		1998	199 651	90 849	29 867	78 935	187 407	85 708	33 050	68 649	2	3	3	6
		1997	170 106	75 105	23 716	71 285	156 833	72 896	22 901	61 036	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
331	Primary metal mfg	2001	19 501 647	6 297 516	6 457 837	6 746 294	22 151 215	7 016 050	7 631 282	7 503 883	1	1	1	1
		2000	22 198 548	7 020 688	7 692 305	7 485 555	22 098 357	6 762 136	7 589 464	7 746 758	1	1	1	1
		1999	22 309 142	6 767 633	7 753 046	7 788 463	22 304 839	6 824 957	7 491 460	7 988 422	1	1	1	1
		1998	22 829 883	7 077 753	7 776 168	7 975 962	22 807 190	6 972 044	8 018 290	7 816 856	1	1	1	1
		1997	22 727 686	6 938 459	8 024 117	7 765 110	22 339 511	6 737 495	8 250 057	7 351 959	X	X	X	X
3311	Iron & steel mills & ferroalloy mfg	2001	8 039 940	2 880 188	2 558 403	2 601 349	9 523 084	3 245 166	3 291 556	2 986 363	1	1	1	2
		2000	9 478 379	3 232 132	3 280 400	2 965 847	9 348 769	3 071 831	3 172 612	3 104 326	1	1	1	1
		1999	9 295 009	3 043 391	3 170 124	3 081 494	9 709 751	3 200 345	3 198 413	3 310 993	1	1	1	1
		1998	9 633 418	3 305 266	3 084 227	3 243 924	9 509 994	3 204 362	3 158 252	3 147 380	1	1	1	1
		1997	9 468 093	3 199 415	3 158 582	3 110 096	9 204 289	3 080 015	3 054 604	3 069 670	X	X	X	X
33111	Iron & steel mills & ferroalloy mfg	2001	8 039 940	2 880 188	2 558 403	2 601 349	9 523 084	3 245 166	3 291 556	2 986 363	1	1	1	2
		2000	9 478 379	3 232 132	3 280 400	2 965 847	9 348 769	3 071 831	3 172 612	3 104 326	1	1	1	1
		1999	9 295 009	3 043 391	3 170 124	3 081 494	9 709 751	3 200 345	3 198 413	3 310 993	1	1	1	1
		1998	9 633 418	3 305 266	3 084 227	3 243 924	9 509 994	3 204 362	3 158 252	3 147 380	1	1	1	1
		1997	9 468 093	3 199 415	3 158 582	3 110 096	9 204 289	3 080 015	3 054 604	3 069 670	X	X	X	X
331111	Iron & steel mills	2001	7 861 763	2 824 087	2 504 377	2 533 299	9 324 338	3 182 216	3 240 662	2 901 460	1	1	1	2
		2000	9 290 055	3 173 156	3 229 492	2 887 406	9 126 692	2 996 606	3 121 123	3 008 963	1	1	1	1
		1999	9 114 068	2 980 946	3 114 340	3 018 782	9 519 383	3 139 091	3 140 690	3 239 602	1	1	1	1
		1998	9 376 440	3 207 524	3 020 496	3 148 419	9 252 276	3 106 785	3 095 140	3 050 351	1	1	1	1
		1997	9 210 486	3 101 897	3 095 490	3 013 099	8 981 147	2 995 903	3 002 714	2 982 530	X	X	X	X
331112	Electrometallurgical ferroalloy product mfg	2001	178 177	56 101	54 026	68 050	198 746	62 950	50 894	84 903	1	2	3	4
		2000	188 324	58 976	50 908	78 441	222 077	75 225	51 489	95 363	2	4	4	3
		1999	180 941	62 445	55 784	62 712	190 368	61 253	57 723	71 391	1	1	3	4
		1998	256 978	97 742	63 731	95 505	257 718	97 577	63 112	97 029	1	1	1	1
		1997	257 607	97 518	63 092	96 997	223 142	84 112	51 890	87 140	X	X	X	X
3312	Steel product mfg from purchased steel	2001	2 580 743	935 135	716 925	928 682	3 162 136	1 080 174	909 626	1 172 337	2	3	2	3
		2000	3 145 557	1 073 302	912 871	1 159 383	2 980 200	985 343	891 811	1 103 045	1	2	2	2
		1999	3 058 061	994 372	912 666	1 151 024	2 944 728	949 022	857 605	1 138 101	1	2	2	2
		1998	3 115 574	1 001 137	831 463	1 282 973	3 103 970	1 032 138	864 237	1 207 596	1	1	1	2
		1997	3 066 059	1 019 181	856 108	1 190 770	2 941 873	969 567	843 128	1 129 178	X	X	X	X
33121	Iron & steel pipes & tubes mfg from purchased steel	2001	1 172 569	460 036	217 470	495 063	1 415 950	505 291	283 741	626 918	3	5	4	3
		2000	1 397 921	510 316	286 616	600 989	1 261 544	449 890	270 953	540 701	3	4	7	3
		1999	1 340 352	463 432	293 779	583 141	1 305 843	436 294	276 160	593 389	3	4	7	3
		1998	1 264 577	424 682	233 526	606 369	1 203 495	432 743	253 465	517 288	1	2	2	2
		1997	1 205 112	442 343	251 260	511 509	1 157 385	432 985	227 121	497 279	X	X	X	X
331210	Iron & steel pipes & tubes mfg from purchased steel	2001	1 172 569	460 036	217 470	495 063	1 415 950	505 291	283 741	626 918	3	5	4	3
		2000	1 397 921	510 316	286 616	600 989	1 261 544	449 890	270 953	540 701	3	4	7	3
		1999	1 340 352	463 432	293 779	583 141	1 305 843	436 294	276 160	593 389	3	4	7	3
		1998	1 264 577	424 682	233 526	606 369	1 203 495	432 743	253 465	517 288	1	2	2	2
		1997	1 205 112	442 343	251 260	511 509	1 157 385	432 985	227 121	497 279	X	X	X	X
33122	Rolling & drawing of purchased steel	2001	1 408 174	475 099	499 455	433 620	1 746 186	574 883	625 885	545 419	2	2	2	4
		2000	1 747 636	562 986	626 255	558 394	1 718 656	535 453	620 858	562 344	1	1	1	3
		1999	1 717 709	530 940	618 887	567 882	1 638 885	512 728	581 445	544 712	1	1	1	3
		1998	1 850 997	576 455	597 938	676 604	1 900 475	599 395	610 772	690 308	1	2	1	3
		1997	1 860 947	576 838	604 848	679 261	1 784 488	536 582	616 007	631 899	X	X	X	X
331221	Cold-rolled steel shape mfg	2001	736 519	207 252	377 485	151 781	997 222	291 069	487 298	218 854	3	4	2	11
		2000	1 025 630	295 252	494 598	235 779	1 034 723	293 572	497 613	243 539	2	2	1	6
		1999	1 021 325	285 788	494 434	241 104	958 455	268 805	454 998	234 652	2	2	1	7
		1998	1 182 034	332 121	475 719	374 194	1 183 008	331 837	484 738	366 433	1	2	1	4
		1997	1 169 746	330 397	482 843	356 506	1 159 671	303 311	491 244	365 116	X	X	X	X
331222	Steel wire drawing	2001	671 655	267 847	121 970	281 838	748 964	283 813	138 586	326 564	2	2	3	3
		2000	722 006	267 734	131 657	322 615	683 932	241 881	123 246	318 805	1	2	2	2
		1999	696 384	245 152	124 453	326 778	680 430	243 923	126 447	310 060	1	2	2	2
		1998	668 963	244 334	122 219	302 411	717 467	267 558	126 034	323 875	2	4	3	3
		1997	691 201	246 441	122 005	322 755	624 817	233 271	124 763	266 783	X	X	X	X
3313	Alumina & aluminum production & processing	2001	3 019 709	681 862	907 101	1 430 745	3 334 742	789 219	1 091 100	1 454 423	1	2	1	1
		2000	3 344 762	810 278	1 070 404	1 464 080	3 511 114	864 670	1 067 382	1 579 062	1	2	1	1
		1999	3 502 305	856 604	1 060 448	1 585 252	3 498 959	851 227	1 025 852	1 621 880	1	1	1	1
		1998	3 525 674	855 617	1 211 151	1 458 906	3 692 595	884 902	1 315 557	1 492 137	1	1	1	1
		1997	3 680 382	863 933	1 325 748	1 490 701	3 693 620	823 504	1 557 769	1 312 347	X	X	X	X
33131	Alumina & aluminum production & processing	2001	3 019 709	681 862	907 101	1 430 745	3 334 742	789 219	1 091 100	1 454 423	1	2	1	1
		2000	3 344 762	810 278	1 070 404	1 464 080	3 511 114	864 670	1 067 382	1 579 062	1	2	1	1
		1999	3 502 305	856 604	1 060 448	1 585 252	3 498 959	851 227	1 025 852	1 621 880	1	1	1	1
		1998	3 525 674	855 617	1 211 151	1 458 906	3 692 595	884 902	1 315 557	1 492 137	1	1	1	1
		1997	3 680 382	863 933	1 325 748	1 490 701	3 693 620	823 504	1 557 769	1 312 347	X	X	X	X
331311	Alumina refining	2001	158 048	30 496	52 066	75 486	154 269	31 904	50 913	71 452	1	1	1	1
		2000	153 827	31 849	50 815	71 163	162 067	30 560	48 518	82 989	1	1	1	1
		1999	161 511	30 491	48 394	82 626	179 092	35 541	58 373	85 178	1	1	1	1
		1998	178 962	38 004	56 972	83 986	197 159	38 868	55 424	102 867	1	1	1	1
		1997	185 706	26 872	55 102	103 732	210 551	24 393	130 718	55 440	X	X	X	X
331312	Primary aluminum production	2001	562 599	59 808	193 743	309 048	583 058	80 408	196 345	306 305	1	1	1	1
		2000	578 583	95 387	180 276	302 920	604 298	102 335	180 082	321 881	1	1	1	1
		1999	605 243	100 778	180 185	324 280	657 520	113 083	180 607	363 830	1	1	1	1
		1998	657 419	124 099	104 445	428 875	683 363	127 288	100 791	455 284	1	1	1	1
		1997	677 119	126 579	95 502	455 038	721 611	97 227	209 642	414 742	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
331	Primary metal mfg—Con.													
3313	Alumina & aluminum production & processing—Con.													
33131	Alumina & aluminum production & processing—Con.													
331314	Secondary smelting & alloying of aluminum	2001	231 793	117 483	16 092	98 217	271 757	136 109	19 288	116 360	5	7	10	7
		2000	279 839	141 802	20 632	117 406	307 579	148 765	30 950	127 864	5	7	8	6
		1999	308 272	143 123	31 112	134 038	297 715	134 478	25 607	137 630	3	4	5	3
		1998	294 833	125 624	30 188	139 021	284 662	119 089	26 154	139 419	2	3	7	1
		1997	286 008	120 542	25 934	139 532	253 200	104 986	41 129	107 085	X	X	X	X
331315	Aluminum sheet, plate, & foil mfg	2001	1 457 132	312 835	470 131	674 166	1 613 407	356 489	626 282	630 637	1	1	2	1
		2000	1 622 950	357 414	622 294	643 243	1 717 520	395 362	611 671	710 487	1	1	1	1
		1999	1 706 553	392 897	605 695	707 961	1 666 541	375 945	552 676	737 920	1	1	1	1
		1998	1 706 770	387 676	795 491	523 604	1 763 559	378 643	902 201	482 715	1	1	1	1
		1997	1 782 025	374 908	924 951	482 166	1 834 710	418 471	966 527	449 712	X	X	X	X
331316	Aluminum extruded product mfg	2001	509 386	128 816	150 659	229 911	561 625	141 152	154 943	265 530	4	7	3	5
		2000	559 315	141 065	153 454	264 795	576 072	148 158	154 974	272 940	5	6	4	6
		1999	576 700	147 978	154 804	273 918	552 928	148 879	166 733	237 316	3	4	3	4
		1998	529 771	128 310	181 270	220 192	608 318	157 271	199 716	251 331	2	4	3	3
		1997	597 618	152 869	193 653	251 096	537 741	132 459	173 089	232 193	X	X	X	X
331319	Other aluminum rolling & drawing	2001	100 752	32 424	24 410	43 918	150 626	43 157	43 329	64 139	5	11	3	4
		2000	150 249	42 761	42 934	64 554	143 578	39 490	41 187	62 901	4	8	1	4
		1999	144 026	41 338	40 259	62 429	145 162	43 301	41 854	60 007	2	5	1	3
		1998	157 919	51 905	42 786	63 228	155 534	63 743	31 270	60 521	1	4	1	1
		1997	151 906	62 163	30 606	59 137	135 807	45 968	36 664	53 175	X	X	X	X
3314	Nonferrous metal (except aluminum) production & processing	2001	3 070 027	780 962	1 442 580	846 485	3 216 976	854 609	1 446 569	915 798	2	4	3	3
		2000	3 316 806	862 926	1 535 292	918 587	3 407 030	830 199	1 592 393	984 437	1	3	2	3
		1999	3 575 245	865 584	1 727 501	982 160	3 356 257	873 437	1 544 409	938 411	1	3	1	2
		1998	3 724 580	953 602	1 711 329	1 059 648	3 742 625	923 058	1 783 105	1 036 462	1	1	1	1
		1997	3 743 377	919 133	1 782 592	1 041 652	3 840 677	958 013	1 923 247	959 417	X	X	X	X
33141	Nonferrous metal (except aluminum) smelting & refining	2001	704 002	131 856	354 158	217 988	681 964	182 629	286 763	212 572	2	7	2	5
		2000	809 596	196 132	395 493	217 971	835 244	173 207	397 282	264 755	2	6	2	5
		1999	897 528	184 492	466 348	246 688	808 816	176 136	418 910	213 769	1	6	1	3
		1998	869 250	190 552	441 295	237 403	888 284	184 288	462 329	241 667	1	3	1	2
		1997	874 703	178 849	458 482	237 372	975 813	194 264	540 705	240 844	X	X	X	X
331411	Primary smelting & refining of copper	2001	307 021	27 139	211 465	68 418	227 232	19 541	140 183	67 508	1	3	1	3
		2000	355 012	34 185	248 628	72 199	363 271	21 236	238 109	103 927	1	2	1	2
		1999	412 928	27 943	305 323	79 662	344 225	41 942	250 866	51 417	1	2	1	2
		1998	391 154	69 539	262 298	59 317	428 272	74 246	284 907	69 119	1	1	1	1
		1997	428 272	74 246	284 907	69 119	527 278	90 582	357 113	79 583	X	X	X	X
331419	Other nonferrous metal primary smelting & refining	2001	396 981	104 717	142 693	149 571	454 732	163 088	146 580	145 063	4	9	4	7
		2000	454 584	161 946	146 865	145 772	471 972	151 971	159 174	160 828	3	7	4	7
		1999	484 600	156 549	161 026	167 026	464 591	134 194	168 044	162 353	3	7	4	4
		1998	478 096	121 013	178 997	178 086	460 012	110 042	177 422	172 548	1	4	1	2
		1997	446 431	104 603	173 575	168 253	448 535	103 682	183 592	161 261	X	X	X	X
33142	Copper rolling, drawing, extruding, & alloying	2001	748 538	225 045	326 510	196 982	922 081	253 540	409 843	258 698	6	9	5	9
		2000	912 533	248 091	401 506	262 936	906 917	240 623	413 096	253 198	2	7	5	8
		1999	912 913	239 414	406 566	266 933	891 485	258 358	390 171	242 956	1	2	5	7
		1998	1 015 353	288 726	414 965	311 662	1 011 672	299 097	425 944	286 631	1	1	1	1
		1997	1 021 711	301 265	431 283	289 163	1 016 115	298 175	448 418	269 522	X	X	X	X
331421	Copper rolling, drawing, & extruding	2001	596 413	144 335	296 358	155 720	756 041	176 349	368 192	211 501	7	14	6	11
		2000	745 006	171 774	363 913	209 319	749 396	169 218	379 124	201 054	2	10	6	10
		1999	753 823	167 357	372 341	214 126	731 491	182 658	354 880	193 953	1	2	5	8
		1998	813 627	203 878	370 928	238 821	813 737	210 360	383 103	220 274	1	1	1	2
		1997	825 915	213 434	389 106	223 375	821 449	205 565	406 132	209 752	X	X	X	X
331422	Copper wire (except mechanical) drawing	2001	83 544	36 507	20 145	26 892	91 217	32 972	28 720	29 526	5	4	4	9
		2000	87 108	32 232	24 247	30 629	79 313	29 861	21 632	27 820	6	4	4	12
		1999	80 332	30 250	21 780	28 302	85 149	35 220	22 300	27 629	7	6	6	9
		1998	121 188	46 642	29 486	45 060	111 395	47 044	28 348	36 003	4	2	12	4
		1997	109 326	46 169	27 707	35 450	104 872	47 447	25 708	31 717	X	X	X	X
331423	Secondary smelting, refining, & alloying of copper	2001	68 581	44 203	10 007	14 371	74 823	44 219	12 932	17 671	9	9	37	15
		2000	80 419	44 085	13 346	22 987	78 208	41 544	12 340	24 324	7	9	28	6
		1999	78 758	41 807	12 445	24 506	74 845	40 480	12 991	21 374	6	9	22	5
		1998	80 538	38 207	14 551	27 781	86 540	41 693	14 493	30 354	4	5	1	4
		1997	86 470	41 662	14 470	30 338	89 794	45 163	16 578	28 053	X	X	X	X
33149	Other nonferrous metal rolling, drawing, extruding, & alloying	2001	1 617 487	424 061	761 912	431 514	1 612 931	418 440	749 963	444 529	3	5	4	2
		2000	1 594 677	418 704	738 294	437 680	1 664 869	416 370	782 015	466 484	2	5	2	2
		1999	1 764 804	441 677	854 587	468 539	1 655 957	438 944	735 327	481 686	1	5	1	2
		1998	1 839 977	474 324	855 070	510 584	1 842 669	439 673	894 832	508 164	1	1	1	1
		1997	1 846 963	439 019	892 827	515 117	1 848 749	465 574	934 124	449 051	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3314	Nonferrous metal (except aluminum) production & processing—Con.													
33149	Other nonferrous metal rolling, drawing, extruding, & alloying—Con.													
331491	Other nonferrous metal rolling, drawing, & extruding	2001	1 231 190	279 297	634 075	317 819	1 226 982	285 240	624 262	317 480	2	4	5	3
		2000	1 211 603	286 807	611 115	313 682	1 249 309	273 787	645 659	329 863	1	3	1	2
		1999	1 243 338	269 970	643 239	330 128	1 218 875	279 038	597 594	342 243	1	2	1	2
		1998	1 395 942	320 781	705 046	370 115	1 392 224	297 104	727 541	367 579	1	2	1	1
		1997	1 395 845	296 759	725 931	373 155	1 413 125	305 693	778 467	328 965	X	X	X	X
331492	Other nonferrous metal secondary smelting, refining, & alloying	2001	386 297	144 764	127 837	113 695	385 950	133 200	125 701	127 049	7	14	8	4
		2000	383 074	131 897	127 179	123 998	415 560	142 583	136 355	136 622	6	14	7	4
		1999	521 466	171 707	211 348	138 411	437 082	159 906	137 733	139 443	4	13	4	5
		1998	444 035	153 543	150 024	140 469	450 445	142 569	167 291	140 585	1	2	2	2
		1997	451 118	142 260	166 896	141 962	435 624	159 881	155 657	120 086	X	X	X	X
3315	Foundries	2001	2 791 228	1 019 368	832 828	939 033	2 914 277	1 046 882	892 432	974 963	2	2	3	2
		2000	2 913 045	1 042 050	893 338	977 657	2 851 245	1 010 092	865 266	975 887	1	2	3	2
		1999	2 878 521	1 007 681	882 307	988 533	2 795 144	950 927	865 181	979 036	1	1	2	1
		1998	2 830 638	962 131	937 997	930 510	2 758 006	927 584	897 140	933 281	2	2	5	2
		1997	2 769 775	936 797	901 087	931 891	2 659 052	906 396	871 309	881 347	X	X	X	X
33151	Ferrous metal foundries	2001	1 738 120	687 658	469 587	580 875	1 812 695	693 798	506 248	612 649	2	1	4	2
		2000	1 825 249	701 831	508 627	614 792	1 786 683	697 607	485 913	603 162	2	2	4	2
		1999	1 791 452	688 420	492 725	610 307	1 763 518	665 398	497 328	600 791	1	1	2	2
		1998	1 708 657	678 820	498 929	530 909	1 703 001	636 054	513 361	553 586	2	3	3	2
		1997	1 716 218	644 539	518 034	553 645	1 657 028	630 254	492 956	533 818	X	X	X	X
331511	Iron foundries	2001	1 042 374	491 368	186 940	364 066	1 065 587	477 511	201 192	386 884	2	1	4	3
		2000	1 068 037	480 678	201 773	385 586	1 041 124	478 956	186 063	376 105	2	1	3	3
		1999	1 056 012	480 196	194 355	381 461	1 046 435	475 725	195 597	375 113	1	1	3	3
		1998	1 009 511	476 594	212 328	320 589	1 008 632	453 182	209 976	345 474	3	2	5	3
		1997	1 029 059	460 441	220 727	347 891	995 597	461 430	218 968	315 199	X	X	X	X
331512	Steel investment foundries	2001	291 289	52 483	150 888	87 918	289 824	54 164	154 307	81 353	2	5	3	2
		2000	290 981	54 396	154 612	81 973	305 863	57 773	162 468	85 621	2	5	2	3
		1999	305 053	57 475	162 353	85 225	310 847	50 979	174 160	85 708	1	3	2	3
		1998	289 910	61 733	150 775	77 403	297 521	48 919	164 966	83 636	5	26	5	2
		1997	299 118	49 418	164 751	84 949	276 155	39 256	145 256	91 643	X	X	X	X
331513	Steel foundries (except investment)	2001	404 457	143 807	131 758	128 892	457 285	162 124	150 749	144 412	5	5	12	3
		2000	466 231	166 757	152 242	147 233	439 696	160 879	137 382	141 435	5	6	12	3
		1999	430 388	150 750	136 017	143 620	406 235	138 693	127 571	139 970	3	2	7	2
		1998	409 235	140 492	135 826	132 918	396 848	133 953	138 419	124 476	1	2	1	1
		1997	388 041	134 680	132 556	120 805	385 276	129 568	128 732	126 976	X	X	X	X
33152	Nonferrous metal foundries	2001	1 053 108	331 710	363 241	358 157	1 101 582	353 084	386 184	362 314	3	5	6	4
		2000	1 087 795	340 219	384 711	362 865	1 064 562	312 484	379 352	372 725	3	4	4	3
		1999	1 087 069	319 261	389 581	378 227	1 031 626	285 529	367 853	378 245	2	3	4	3
		1998	1 121 980	283 311	439 068	399 601	1 055 004	291 530	383 779	379 695	5	2	10	3
		1997	1 053 557	292 258	383 053	378 246	1 002 024	276 142	378 353	347 529	X	X	X	X
331521	Aluminum die-casting foundries	2001	330 750	128 991	86 374	115 385	356 560	139 412	102 412	114 735	4	8	5	6
		2000	362 291	139 097	103 802	119 392	373 494	124 195	111 775	137 523	4	7	4	6
		1999	363 538	115 271	117 216	131 051	327 788	99 751	101 639	126 398	1	3	2	3
		1998	341 418	98 134	121 525	121 758	333 973	102 381	103 806	127 786	2	4	4	3
		1997	337 888	105 280	104 668	127 940	325 430	98 568	113 005	113 857	X	X	X	X
331522	Nonferrous (except aluminum) die-casting foundries	2001	176 360	63 768	54 450	58 142	204 483	80 947	60 463	63 073	4	12	6	5
		2000	183 746	66 647	58 557	58 542	181 686	66 177	60 433	55 076	4	8	6	5
		1999	189 646	74 579	60 213	54 854	185 307	70 187	58 835	56 285	3	5	6	5
		1998	196 714	62 920	70 856	62 938	193 090	65 243	65 008	62 839	4	5	8	7
		1997	184 669	62 459	62 720	59 490	185 472	63 448	63 704	58 320	X	X	X	X
331524	Aluminum foundries (except die-casting)	2001	307 282	87 700	109 115	110 467	324 652	85 212	120 788	118 651	5	9	7	7
		2000	327 844	88 046	120 674	119 123	311 155	79 491	113 920	117 744	4	8	6	6
		1999	336 559	87 557	119 721	129 281	320 088	75 758	116 463	127 867	3	6	4	6
		1998	312 475	71 595	109 934	130 946	308 137	71 494	121 685	114 957	1	2	3	3
		1997	303 416	69 709	120 155	113 552	291 423	70 223	115 366	105 834	X	X	X	X
331525	Copper foundries (except die-casting)	2001	104 946	31 744	35 053	38 150	98 484	30 813	35 532	32 139	19	17	25	29
		2000	94 206	28 916	34 275	31 015	90 479	27 186	33 313	29 980	14	12	25	15
		1999	88 366	26 596	32 532	29 237	81 614	24 230	28 715	28 670	13	14	21	12
		1998	94 628	27 895	29 265	37 468	93 041	28 744	31 096	33 201	3	11	6	6
		1997	91 235	27 788	30 352	33 095	85 447	26 575	26 655	32 217	X	X	X	X
331528	Other nonferrous foundries (except die-casting)	2001	133 769	19 507	78 250	36 013	117 403	16 700	66 987	33 716	13	15	21	6
		2000	119 709	17 514	67 403	34 793	107 748	15 435	59 911	32 401	10	12	17	6
		1999	108 961	15 257	59 900	33 804	116 828	15 602	62 202	39 025	10	14	16	7
		1998	176 746	22 768	107 488	46 491	126 763	23 667	62 184	40 912	29	4	40	19
		1997	136 349	27 022	65 158	44 169	114 252	17 328	59 623	37 301	X	X	X	X
332	Fabricated metal product mfg	2001	32 145 476	11 158 004	9 724 164	11 263 309	33 669 495	11 617 451	10 146 489	11 905 555	1	2	1	1
		2000	34 084 891	11 668 386	10 328 731	12 087 775	32 308 750	10 896 518	9 862 970	11 549 261	1	1	1	1
		1999	32 798 731	11 133 956	10 147 616	11 517 160	32 215 862	10 829 929	10 048 793	11 337 141	1	1	1	1
		1998	32 687 351	10 827 823	10 293 425	11 566 103	31 812 924	10 418 357	10 143 784	11 250 784	1	1	1	1
		1997	31 774 159	10 242 479	10 235 845	11 295 835	30 466 548	10 007 795	9 723 062	10 735 691	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3321	Forging & stamping	2001	3 187 945	960 022	999 538	1 228 385	3 325 898	1 012 251	1 006 415	1 307 232	2	2	4	2
		2000	3 391 098	1 031 608	1 013 920	1 345 570	3 186 992	930 540	969 863	1 286 589	2	2	2	2
		1999	3 184 600	933 850	969 536	1 281 214	3 273 318	938 879	1 006 309	1 328 130	1	2	2	2
		1998	3 274 268	959 371	1 048 059	1 266 838	3 225 393	854 136	1 093 671	1 277 586	1	3	3	2
		1997	3 169 973	832 532	1 069 934	1 267 507	2 932 510	812 755	967 187	1 152 568	X	X	X	X
33211	Forging & stamping	2001	3 187 945	960 022	999 538	1 228 385	3 325 898	1 012 251	1 006 415	1 307 232	2	2	4	2
		2000	3 391 098	1 031 608	1 013 920	1 345 570	3 186 992	930 540	969 863	1 286 589	2	2	2	2
		1999	3 184 600	933 850	969 536	1 281 214	3 273 318	938 879	1 006 309	1 328 130	1	2	2	2
		1998	3 274 268	959 371	1 048 059	1 266 838	3 225 393	854 136	1 093 671	1 277 586	1	3	3	2
		1997	3 169 973	832 532	1 069 934	1 267 507	2 932 510	812 755	967 187	1 152 568	X	X	X	X
332111	Iron & steel forging	2001	689 723	132 283	303 245	254 195	717 166	138 684	295 862	282 620	4	5	5	5
		2000	697 159	130 422	292 938	273 800	691 926	131 385	280 175	280 366	3	5	2	4
		1999	718 897	141 512	287 840	289 544	770 588	137 873	331 509	301 206	2	5	2	4
		1998	826 358	178 396	341 341	306 621	800 568	114 441	368 150	317 977	2	14	7	3
		1997	782 661	109 772	365 433	307 456	683 131	103 923	334 979	244 229	X	X	X	X
332112	Nonferrous forging	2001	379 981	84 210	174 054	121 718	358 388	67 219	150 542	140 627	3	9	6	4
		2000	363 324	70 124	151 544	141 656	357 139	69 596	139 906	147 637	3	11	7	3
		1999	327 607	58 317	131 194	138 096	319 668	53 400	136 053	130 215	3	9	7	3
		1998	307 005	37 296	176 574	93 135	312 043	36 345	178 799	96 899	1	1	1	1
		1997	312 283	36 031	177 552	98 700	278 422	41 326	162 407	74 689	X	X	X	X
332114	Custom roll forming	2001	480 694	150 465	86 777	243 453	477 568	151 533	99 749	226 285	2	3	6	4
		2000	503 043	153 247	105 461	244 335	456 257	139 248	103 737	213 271	2	3	5	4
		1999	461 314	141 878	103 802	215 634	518 808	160 102	101 027	257 678	2	3	6	4
		1998	486 027	159 489	96 527	230 011	503 148	156 504	115 276	231 367	6	2	12	9
		1997	478 923	141 356	103 376	234 191	423 284	134 598	76 065	212 621	X	X	X	X
332115	Crown & closure mfg	2001	105 560	43 784	14 126	47 650	128 072	48 586	19 666	59 820	6	9	8	18
		2000	126 519	47 938	19 189	59 392	117 073	49 631	20 774	46 669	4	6	12	13
		1999	117 283	52 610	21 659	43 014	112 527	57 650	18 508	36 369	1	1	3	1
		1998	116 905	58 635	19 343	38 928	120 280	56 839	16 934	46 507	1	1	1	1
		1997	124 678	59 794	17 530	47 354	127 838	56 425	24 642	46 771	X	X	X	X
332116	Metal stamping	2001	1 346 699	495 074	343 032	508 593	1 455 471	541 363	367 457	546 651	3	3	7	3
		2000	1 521 336	564 939	377 020	579 377	1 380 987	494 794	338 527	547 665	3	3	4	3
		1999	1 377 876	494 814	338 886	544 177	1 351 379	474 358	326 920	550 102	2	3	3	2
		1998	1 381 810	483 967	343 570	554 274	1 335 227	452 170	344 650	538 407	1	2	2	2
		1997	1 317 042	448 501	335 772	532 769	1 272 233	435 776	318 046	518 411	X	X	X	X
332117	Powder metallurgy part mfg	2001	185 289	54 207	78 306	52 776	189 234	64 865	73 140	51 229	20	11	34	16
		2000	179 718	64 939	67 769	47 010	183 611	45 885	86 745	50 981	17	19	23	10
		1999	181 624	44 718	86 156	50 750	200 348	55 496	92 292	52 560	14	17	19	12
		1998	156 162	41 589	70 703	43 870	154 127	37 836	69 862	46 429	2	4	1	3
		1997	154 386	37 078	70 271	47 037	147 602	40 707	51 048	55 847	X	X	X	X
3322	Cutlery & handtool mfg	2001	1 907 168	804 275	546 490	556 403	1 917 042	849 747	530 091	537 204	2	2	4	3
		2000	1 960 564	859 186	552 418	548 960	1 949 227	845 187	562 121	541 919	1	2	1	2
		1999	2 024 682	886 162	590 765	547 754	2 004 309	875 850	571 877	556 582	1	1	2	3
		1998	1 941 885	741 418	652 011	548 456	1 931 140	844 347	578 087	508 705	5	10	8	3
		1997	1 921 594	833 214	575 339	513 041	1 875 297	841 757	537 938	495 602	X	X	X	X
33221	Cutlery & handtool mfg	2001	1 907 168	804 275	546 490	556 403	1 917 042	849 747	530 091	537 204	2	2	4	3
		2000	1 960 564	859 186	552 418	548 960	1 949 227	845 187	562 121	541 919	1	2	1	2
		1999	2 024 682	886 162	590 765	547 754	2 004 309	875 850	571 877	556 582	1	1	2	3
		1998	1 941 885	741 418	652 011	548 456	1 931 140	844 347	578 087	508 705	5	10	8	3
		1997	1 921 594	833 214	575 339	513 041	1 875 297	841 757	537 938	495 602	X	X	X	X
332211	Cutlery & flatware (except precious) mfg	2001	237 832	95 056	70 853	71 923	230 646	96 349	60 946	73 350	2	2	4	5
		2000	237 669	96 677	61 718	79 273	251 049	107 729	67 535	75 784	2	2	4	6
		1999	282 707	129 527	77 436	75 745	278 096	121 161	79 658	77 277	2	2	3	6
		1998	282 186	122 355	83 623	76 208	300 306	127 909	98 359	74 038	1	1	2	1
		1997	299 075	127 721	97 465	73 889	251 574	104 470	80 939	66 165	X	X	X	X
332212	Hand & edge tool mfg	2001	1 199 712	478 879	386 134	334 699	1 226 836	510 303	381 049	335 484	3	2	5	4
		2000	1 252 016	521 070	390 151	340 795	1 222 916	512 074	386 685	324 157	2	2	1	3
		1999	1 266 095	530 859	405 396	329 841	1 228 904	517 411	384 806	326 687	2	2	1	3
		1998	1 199 373	435 235	449 508	314 629	1 178 473	504 530	380 951	292 992	7	16	11	4
		1997	1 180 534	500 744	380 113	299 677	1 164 866	515 589	361 872	287 405	X	X	X	X
332213	Saw blade & handsaw mfg	2001	269 625	120 614	63 046	85 965	235 358	106 260	57 719	71 379	5	5	15	3
		2000	248 390	108 537	64 382	75 471	242 588	100 327	68 872	73 389	4	5	7	3
		1999	243 207	100 757	68 892	73 559	237 041	109 550	57 518	69 973	4	4	10	3
		1998	240 228	111 493	63 813	64 922	241 188	119 344	54 151	67 693	4	7	13	13
		1997	230 781	112 308	53 165	65 308	238 159	128 862	51 125	58 172	X	X	X	X
332214	Kitchen utensil, pot, & pan mfg	2001	199 999	109 726	26 458	63 815	224 203	136 835	30 377	56 991	3	3	13	6
		2000	222 489	132 902	36 167	53 420	232 674	125 057	39 028	68 589	3	6	4	11
		1999	232 672	125 019	39 042	68 610	260 268	127 728	49 896	82 645	6	4	4	14
		1998	220 097	72 335	55 066	92 697	211 172	92 565	44 626	73 981	6	33	3	13
		1997	211 204	92 441	44 596	74 167	220 698	92 836	44 002	83 860	X	X	X	X
3323	Architectural & structural metals mfg	2001	6 602 173	1 661 593	2 050 646	2 889 933	6 975 678	1 778 851	2 098 433	3 098 394	2	5	2	3
		2000	7 062 282	1 783 649	2 160 680	3 117 954	6 552 985	1 650 937	2 025 374	2 876 674	2	5	3	3
		1999	6 660 228	1 692 082	2 066 272	2 901 873	6 390 972	1 619 204	1 978 612	2 793 157	2	4	3	2
		1998	6 455 532	1 610 316	1 908 437	2 936 778	6 119 570	1 521 254	1 844 553	2 753 764	1	1	2	1
		1997	6 121 871	1 488 387	1 863 058	2 770 426	5 768 543	1 426 746	1 677 503	2 664 294	X	X	X	X
33231	Plate work & fabricated structural product mfg	2001	2 671 648	531 199	1 133 023	1 007 427	2 806 424	577 850	1 151 715	1 076 858	2	7	3	3
		2000	2 839 038	569 607	1 198 183	1 071 247	2 718 347	569 043	1 127 383	1 021 922	2	6	4	2
		1999	2 793 940	571 218	1 161 162	1 061 560	2 725 637	584 527	1 112 048	1 029 062	2	6	4	2
		1998	2 726 508	535 639	1 081 888	1 108 981	2 645 962	525 680	1 065 524	1 054 758	1	2	2	2
		1997	2 675 004	521 474	1 075 721	1 077 809	2 483 837	486 565	961 814	1 035 458	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
332	Fabricated metal product mfg—Con.													
3323	Architectural & structural metals mfg—Con.													
33231	Plate work & fabricated structural product mfg—Con.													
332311	Prefabricated metal building & component mfg	2001	361 629	83 899	64 210	213 520	406 778	97 292	66 122	243 364	5	7	4	7
		2000	400 108	95 475	68 119	236 513	414 132	93 060	77 844	243 228	4	5	7	5
		1999	420 651	92 809	80 209	247 633	424 989	90 727	86 160	248 102	4	7	7	5
		1998	405 831	85 660	73 528	246 643	380 808	82 476	63 522	234 810	4	7	9	6
		1997	395 227	83 865	67 396	243 966	373 941	71 729	59 942	242 270	X	X	X	X
332312	Fabricated structural metal mfg	2001	1 895 474	364 910	861 214	669 349	1 985 508	400 745	877 553	707 211	2	4	3	3
		2000	2 024 085	397 358	920 727	706 000	1 927 768	404 698	865 662	657 408	3	3	5	3
		1999	2 011 674	420 569	897 784	693 321	1 969 123	445 072	854 963	669 088	3	4	5	3
		1998	1 989 676	401 369	852 776	735 531	1 912 448	396 199	823 297	692 952	1	2	2	2
		1997	1 920 089	386 619	835 562	697 908	1 773 489	376 163	737 744	659 582	X	X	X	X
332313	Plate work mfg	2001	414 545	82 389	207 598	124 558	414 137	79 813	208 041	126 283	10	43	7	6
		2000	414 845	76 774	209 337	128 735	376 448	71 284	183 877	121 286	9	44	7	6
		1999	361 616	57 840	183 170	120 606	331 525	48 728	170 925	111 872	8	44	6	6
		1998	331 001	48 611	155 584	126 807	352 706	47 006	178 704	126 996	4	5	8	5
		1997	359 688	50 990	172 763	135 935	336 407	38 673	164 128	133 606	X	X	X	X
33232	Ornamental & architectural metal products mfg	2001	3 930 524	1 130 395	917 623	1 882 507	4 169 255	1 201 001	946 717	2 021 537	3	7	5	4
		2000	4 223 244	1 214 042	962 496	2 046 707	3 834 638	1 081 894	897 992	1 854 753	3	7	4	4
		1999	3 866 287	1 120 863	905 110	1 840 314	3 665 335	1 034 677	866 564	1 764 094	3	6	3	3
		1998	3 729 024	1 074 677	826 550	1 827 797	3 473 607	995 573	779 029	1 699 006	1	2	2	1
		1997	3 446 867	966 913	787 337	1 692 617	3 284 706	940 181	715 689	1 628 836	X	X	X	X
332321	Metal window & door mfg	2001	1 165 179	280 669	214 513	669 998	1 194 402	300 262	199 930	694 209	3	10	4	3
		2000	1 214 753	300 491	202 827	711 436	1 151 851	279 007	195 577	677 267	3	9	3	3
		1999	1 178 803	293 088	201 896	683 819	1 140 311	281 267	188 472	670 572	3	9	2	2
		1998	1 230 358	360 403	187 424	682 532	1 153 820	322 252	173 226	658 343	2	5	5	2
		1997	1 138 217	315 923	171 222	651 072	1 084 419	309 875	159 199	615 345	X	X	X	X
332322	Sheet metal work mfg	2001	2 146 346	640 202	522 962	983 182	2 350 042	682 326	574 043	1 093 673	6	11	4	8
		2000	2 370 896	698 166	585 182	1 087 548	2 090 524	606 532	536 517	947 475	6	12	3	8
		1999	2 073 151	613 722	551 658	907 771	1 939 082	554 218	527 409	857 455	4	10	3	5
		1998	1 945 199	520 615	526 654	897 930	1 816 896	495 049	497 559	824 288	1	3	2	2
		1997	1 807 990	471 481	509 198	827 311	1 704 548	450 635	454 157	799 756	X	X	X	X
332323	Ornamental & architectural metal work mfg	2001	618 999	209 523	180 149	229 327	624 811	218 412	172 744	233 655	6	7	20	6
		2000	637 595	215 385	174 487	247 723	592 263	196 355	165 898	230 011	5	6	18	6
		1999	614 333	214 054	151 556	248 724	585 942	199 193	150 682	236 067	6	8	11	8
		1998	553 468	193 660	112 472	247 336	502 891	178 272	108 244	216 375	2	2	5	2
		1997	500 660	179 509	106 917	214 234	495 739	179 671	102 333	213 735	X	X	X	X
3324	Boiler, tank, & shipping container mfg	2001	2 619 301	1 067 562	726 509	825 229	2 847 950	1 172 256	740 330	935 365	3	2	8	3
		2000	2 906 983	1 175 595	786 465	944 923	2 843 637	1 055 112	797 319	991 206	2	2	8	2
		1999	2 936 969	1 097 454	822 707	1 016 808	2 945 756	1 105 444	901 516	938 796	2	1	5	2
		1998	2 882 125	1 115 086	805 797	961 241	2 888 571	1 033 757	818 625	1 036 189	1	1	2	2
		1997	2 859 635	1 024 619	812 203	1 022 813	2 751 094	937 708	796 636	1 016 750	X	X	X	X
33241	Power boiler & heat exchanger mfg	2001	613 157	92 949	333 975	186 232	627 105	100 170	334 177	192 758	9	8	16	5
		2000	618 382	94 759	335 912	187 711	598 586	91 002	333 400	174 184	10	8	17	5
		1999	619 403	100 483	340 549	178 370	647 423	102 019	358 730	186 675	7	9	10	5
		1998	623 425	91 268	329 864	202 292	585 332	74 895	322 942	187 494	3	2	3	5
		1997	605 375	86 740	329 399	189 236	580 452	84 767	304 373	191 312	X	X	X	X
332410	Power boiler & heat exchanger mfg	2001	613 157	92 949	333 975	186 232	627 105	100 170	334 177	192 758	9	8	16	5
		2000	618 382	94 759	335 912	187 711	598 586	91 002	333 400	174 184	10	8	17	5
		1999	619 403	100 483	340 549	178 370	647 423	102 019	358 730	186 675	7	9	10	5
		1998	623 425	91 268	329 864	202 292	585 332	74 895	322 942	187 494	3	2	3	5
		1997	605 375	86 740	329 399	189 236	580 452	84 767	304 373	191 312	X	X	X	X
33242	Metal tank (heavy gauge) mfg	2001	598 248	148 570	213 636	236 042	608 963	145 764	215 441	247 758	3	5	7	5
		2000	632 970	146 583	236 888	249 498	621 365	124 332	235 488	261 544	3	7	4	5
		1999	628 857	126 522	242 311	260 025	700 816	126 823	293 359	280 635	2	5	3	4
		1998	655 269	117 380	246 989	290 900	639 124	110 593	248 483	280 048	3	8	6	3
		1997	631 781	115 304	251 237	265 240	616 604	101 657	253 215	261 732	X	X	X	X
332420	Metal tank (heavy gauge) mfg	2001	598 248	148 570	213 636	236 042	608 963	145 764	215 441	247 758	3	5	7	5
		2000	632 970	146 583	236 888	249 498	621 365	124 332	235 488	261 544	3	7	4	5
		1999	628 857	126 522	242 311	260 025	700 816	126 823	293 359	280 635	2	5	3	4
		1998	655 269	117 380	246 989	290 900	639 124	110 593	248 483	280 048	3	8	6	3
		1997	631 781	115 304	251 237	265 240	616 604	101 657	253 215	261 732	X	X	X	X
33243	Metal can, box, & other metal container (light gauge) mfg	2001	1 407 897	826 043	178 898	402 955	1 611 881	926 321	190 712	494 848	2	2	10	4
		2000	1 655 631	934 253	213 665	507 713	1 623 686	839 778	228 431	555 478	1	1	4	3
		1999	1 688 709	870 449	239 847	578 413	1 597 517	876 603	249 427	471 487	1	1	4	2
		1998	1 603 431	906 438	228 944	468 049	1 664 114	848 268	247 199	568 647	1	1	5	2
		1997	1 622 479	822 575	231 567	568 337	1 554 038	751 284	239 048	563 706	X	X	X	X
332431	Metal can mfg	2001	1 158 540	748 344	127 326	282 870	1 349 484	848 225	135 622	365 638	2	2	13	4
		2000	1 373 142	849 402	155 430	368 311	1 342 396	759 514	168 911	413 971	1	1	5	3
		1999	1 360 955	772 947	169 856	418 153	1 275 544	776 216	179 620	319 708	1	1	5	2
		1998	1 276 596	808 428	163 113	305 054	1 313 702	750 370	166 337	396 995	1	1	2	1
		1997	1 305 833	750 078	164 071	391 684	1 235 184	690 896	159 939	384 349	X	X	X	X
332439	Other metal container mfg	2001	249 356	77 699	51 572	120 085	262 397	78 096	55 090	129 211	6	7	7	9
		2000	282 489	84 851	58 235	139 402	281 290	80 263	59 520	141 507	5	6	6	7
		1999	327 754	97 503	69 991	160 260	321 973	100 387	69 807	151 779	3	3	4	5
		1998	326 835	98 010	65 831	162 995	350 412	97 899	80 862	171 651	5	3	16	7
		1997	316 646	72 497	67 496	176 653	318 854	60 388	79 109	179 357	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
332	Fabricated metal product mfg—Con.													
3325	Hardware mfg	2001	1 317 492	465 105	383 648	468 739	1 451 930	532 135	411 593	508 202	3	5	3	3
		2000	1 459 312	528 905	417 127	513 279	1 391 042	489 563	414 061	487 418	3	4	3	3
		1999	1 387 544	488 783	431 823	466 938	1 280 322	427 612	398 952	453 758	2	3	3	2
		1998	1 349 563	455 683	427 399	466 482	1 298 035	422 970	440 973	434 092	1	2	2	1
		1997	1 318 965	426 678	450 842	441 445	1 259 066	403 396	435 082	420 588	X	X	X	X
33251	Hardware mfg	2001	1 317 492	465 105	383 648	468 739	1 451 930	532 135	411 593	508 202	3	5	3	3
		2000	1 459 312	528 905	417 127	513 279	1 391 042	489 563	414 061	487 418	3	4	3	3
		1999	1 387 544	488 783	431 823	466 938	1 280 322	427 612	398 952	453 758	2	3	3	2
		1998	1 349 563	455 683	427 399	466 482	1 298 035	422 970	440 973	434 092	1	2	2	1
		1997	1 318 965	426 678	450 842	441 445	1 259 066	403 396	435 082	420 588	X	X	X	X
332510	Hardware mfg	2001	1 317 492	465 105	383 648	468 739	1 451 930	532 135	411 593	508 202	3	5	3	3
		2000	1 459 312	528 905	417 127	513 279	1 391 042	489 563	414 061	487 418	3	4	3	3
		1999	1 387 544	488 783	431 823	466 938	1 280 322	427 612	398 952	453 758	2	3	3	2
		1998	1 349 563	455 683	427 399	466 482	1 298 035	422 970	440 973	434 092	1	2	2	1
		1997	1 318 965	426 678	450 842	441 445	1 259 066	403 396	435 082	420 588	X	X	X	X
3326	Spring & wire product mfg	2001	1 083 062	573 303	165 115	344 643	1 180 379	622 129	190 568	367 682	3	4	8	3
		2000	1 192 436	628 328	190 493	373 615	1 126 677	569 513	184 221	372 943	3	4	7	3
		1999	1 142 290	577 577	186 447	378 266	1 075 508	529 950	178 270	367 287	3	5	6	3
		1998	1 051 982	511 075	195 402	345 504	1 028 598	490 717	178 328	359 553	3	5	6	5
		1997	992 534	464 810	173 568	354 156	960 098	452 127	168 140	339 831	X	X	X	X
33261	Spring & wire product mfg	2001	1 083 062	573 303	165 115	344 643	1 180 379	622 129	190 568	367 682	3	4	8	3
		2000	1 192 436	628 328	190 493	373 615	1 126 677	569 513	184 221	372 943	3	4	7	3
		1999	1 142 290	577 577	186 447	378 266	1 075 508	529 950	178 270	367 287	3	5	6	3
		1998	1 051 982	511 075	195 402	345 504	1 028 598	490 717	178 328	359 553	3	5	6	5
		1997	992 534	464 810	173 568	354 156	960 098	452 127	168 140	339 831	X	X	X	X
332611	Spring (heavy gauge) mfg	2001	114 590	68 029	15 372	31 190	136 305	77 961	20 915	37 429	7	8	11	11
		2000	126 638	77 561	17 541	31 536	115 115	68 204	13 419	33 492	5	5	13	10
		1999	119 745	72 491	14 129	33 126	125 966	75 615	15 402	34 949	4	5	7	8
		1998	112 385	56 889	29 246	26 250	128 753	69 786	17 659	41 308	21	34	29	47
		1997	116 985	64 384	14 950	37 651	106 085	56 537	16 757	32 791	X	X	X	X
332612	Spring (light gauge) mfg	2001	259 909	140 953	33 649	85 308	262 944	141 251	35 122	86 571	6	6	20	4
		2000	261 093	141 151	33 333	86 609	232 859	117 246	30 728	84 885	5	5	20	3
		1999	233 877	117 697	31 119	85 060	223 796	109 792	29 111	84 893	6	6	20	3
		1998	240 458	127 505	38 806	74 147	226 238	114 228	35 284	76 726	5	6	10	6
		1997	204 743	107 234	31 494	66 015	202 411	108 502	28 174	65 735	X	X	X	X
332618	Other fabricated wire product mfg	2001	708 563	364 322	116 095	228 146	781 130	402 917	134 531	243 682	4	6	9	4
		2000	804 706	409 615	139 620	255 471	778 703	384 062	140 074	254 567	4	6	7	4
		1999	788 668	387 389	141 199	260 079	725 745	344 544	133 757	247 445	4	7	7	4
		1998	699 138	326 681	127 350	245 108	673 607	306 703	125 385	241 519	2	3	6	3
		1997	670 806	293 192	127 124	250 490	651 602	287 088	123 209	241 305	X	X	X	X
3327	Machine shops, turned product, & screw, nut, & bolt mfg	2001	5 408 224	1 814 183	2 231 271	1 362 770	5 588 094	1 841 285	2 380 856	1 365 952	2	3	3	3
		2000	5 571 653	1 794 732	2 388 533	1 388 388	5 287 362	1 698 777	2 272 672	1 315 913	2	3	3	3
		1999	5 377 472	1 731 343	2 322 711	1 323 418	5 320 262	1 712 357	2 266 528	1 341 376	2	2	3	2
		1998	5 260 293	1 605 039	2 321 421	1 333 832	5 057 252	1 522 020	2 300 300	1 234 931	2	3	3	3
		1997	5 184 494	1 479 198	2 440 473	1 264 823	4 960 946	1 485 544	2 280 887	1 194 515	X	X	X	X
33271	Machine shops	2001	3 352 216	879 292	1 604 690	868 235	3 368 703	825 174	1 701 515	842 014	3	7	4	5
		2000	3 365 484	802 785	1 715 303	847 396	3 120 209	728 551	1 605 765	785 893	3	6	4	5
		1999	3 195 249	755 425	1 648 755	791 069	3 123 916	750 223	1 578 922	794 771	3	5	3	4
		1998	3 045 848	669 306	1 615 732	760 810	2 957 923	656 081	1 612 438	689 404	4	7	5	4
		1997	3 081 347	599 006	1 750 973	731 368	2 923 676	601 940	1 657 032	664 704	X	X	X	X
332710	Machine shops	2001	3 352 216	879 292	1 604 690	868 235	3 368 703	825 174	1 701 515	842 014	3	7	4	5
		2000	3 365 484	802 785	1 715 303	847 396	3 120 209	728 551	1 605 765	785 893	3	6	4	5
		1999	3 195 249	755 425	1 648 755	791 069	3 123 916	750 223	1 578 922	794 771	3	5	3	4
		1998	3 045 848	669 306	1 615 732	760 810	2 957 923	656 081	1 612 438	689 404	4	7	5	4
		1997	3 081 347	599 006	1 750 973	731 368	2 923 676	601 940	1 657 032	664 704	X	X	X	X
33272	Turned product & screw, nut, & bolt mfg	2001	2 056 008	934 892	626 581	494 535	2 219 391	1 016 111	679 341	523 939	2	2	5	3
		2000	2 206 169	991 947	673 230	540 992	2 167 153	970 226	666 907	530 020	2	2	5	2
		1999	2 182 224	975 919	673 956	532 350	2 196 346	962 134	687 607	546 605	2	2	4	2
		1998	2 214 444	935 732	705 690	573 022	2 099 329	865 939	687 862	545 527	2	2	2	3
		1997	2 103 147	880 192	689 500	533 455	2 037 270	883 604	623 855	529 811	X	X	X	X
332721	Precision turned product mfg	2001	886 639	341 588	321 304	223 747	933 633	350 536	351 265	231 832	3	4	4	5
		2000	936 520	352 399	343 972	240 149	893 366	335 641	329 004	228 722	3	4	4	4
		1999	898 736	337 781	329 798	231 157	900 321	336 138	328 693	235 490	3	4	4	3
		1998	903 915	319 221	334 304	250 390	870 346	297 354	330 552	242 441	3	6	3	5
		1997	869 853	303 791	324 804	241 258	820 506	289 763	303 787	226 956	X	X	X	X
332722	Bolt, nut, screw, rivet, & washer mfg	2001	1 169 369	593 303	305 277	270 788	1 285 758	665 576	328 076	292 106	3	2	9	4
		2000	1 269 649	639 548	329 258	300 843	1 273 787	634 585	337 903	301 298	3	2	8	2
		1999	1 283 488	638 137	344 157	301 193	1 296 025	625 996	358 913	311 115	3	2	8	2
		1998	1 310 529	616 511	371 386	322 632	1 228 982	568 585	357 311	303 086	1	1	1	3
		1997	1 233 294	576 401	364 696	292 197	1 216 764	593 841	320 068	302 855	X	X	X	X
3328	Coating, engraving, heat treating, & allied activities	2001	1 890 476	644 712	345 077	900 687	2 043 085	651 779	422 077	969 229	8	5	6	12
		2000	2 049 390	652 449	416 152	980 789	1 886 754	589 222	327 012	970 520	7	2	7	12
		1999	1 799 663	592 993	356 388	850 282	1 699 262	530 105	335 102	834 056	2	2	4	2
		1998	1 683 910	549 590	328 060	806 259	1 660 825	523 042	323 046	814 737	1	2	1	1
		1997	1 674 769	524 057	330 063	820 649	1 555 739	544 890	312 652	698 197	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3328	Coating, engraving, heat treating, & allied activities—Con.													
33281	Coating, engraving, heat treating, & allied activities	2001	1 890 476	644 712	345 077	900 687	2 043 085	651 779	422 077	969 229	8	5	6	12
		2000	2 049 390	652 449	416 152	980 789	1 886 754	589 222	327 012	970 520	7	2	7	12
		1999	1 799 663	592 993	356 388	850 282	1 699 262	530 105	335 102	834 056	2	2	4	2
		1998	1 683 910	549 590	328 060	806 259	1 660 825	523 042	323 046	814 737	1	2	1	1
		1997	1 674 769	524 057	330 063	820 649	1 555 739	544 890	312 652	698 197	X	X	X	X
332811	Metal heat treating	2001	624 891	143 699	120 864	360 328	716 149	138 336	190 947	386 866	24	19	12	31
		2000	714 511	140 440	187 926	386 146	585 528	106 519	89 087	389 923	21	7	15	31
		1999	472 578	108 480	110 961	253 136	445 665	97 661	114 511	233 493	4	5	6	4
		1998	449 318	128 583	123 829	196 906	448 744	128 565	121 230	198 949	2	6	3	4
		1997	455 939	123 286	123 340	209 313	393 452	123 602	106 704	163 146	X	X	X	X
332812	Metal coating/engraving (exc jewelry/silverware)/ allied services	2001	924 943	391 441	172 117	361 385	976 405	403 027	181 644	391 734	3	2	8	3
		2000	973 353	403 778	175 094	394 481	947 117	379 813	178 452	388 852	3	2	7	4
		1999	969 129	383 487	185 400	400 241	906 245	334 203	161 351	410 691	2	2	5	5
		1998	884 802	325 742	151 646	407 415	870 668	301 355	150 905	418 408	1	1	1	2
		1997	871 382	307 288	155 654	408 440	827 694	320 008	149 347	358 339	X	X	X	X
332813	Electroplating, plating, polishing, anodizing, & coloring	2001	340 642	109 572	52 096	178 974	350 531	110 417	49 485	190 628	3	7	8	3
		2000	361 526	108 231	53 133	200 163	354 109	102 890	59 473	191 746	2	5	6	2
		1999	357 957	101 026	60 027	196 905	347 353	98 241	59 240	189 872	3	6	11	2
		1998	349 790	95 266	52 585	201 939	341 413	93 122	50 910	197 381	2	3	4	1
		1997	347 448	93 483	51 069	202 896	334 593	101 280	56 601	176 712	X	X	X	X
3329	Other fabricated metal product mfg	2001	8 129 635	3 167 247	2 275 869	2 686 519	8 339 438	3 157 016	2 366 127	2 816 295	2	4	2	3
		2000	8 491 171	3 213 933	2 402 943	2 874 296	8 084 073	3 067 667	2 310 327	2 706 079	2	4	2	2
		1999	8 285 283	3 133 711	2 400 967	2 750 605	8 226 153	3 090 528	2 411 627	2 723 998	1	1	2	2
		1998	8 787 795	3 280 244	2 606 839	2 900 712	8 603 541	3 206 114	2 566 201	2 831 225	1	2	1	1
		1997	8 530 324	3 168 984	2 520 365	2 840 975	8 403 255	3 102 872	2 547 037	2 753 346	X	X	X	X
33291	Metal valve mfg	2001	4 160 543	1 812 715	1 034 875	1 312 952	4 232 349	1 784 432	1 092 142	1 355 775	2	2	3	4
		2000	4 303 148	1 816 911	1 082 557	1 403 680	4 045 908	1 676 366	1 036 996	1 332 546	2	2	3	4
		1999	4 088 968	1 705 188	1 023 561	1 360 220	4 055 461	1 658 760	1 032 646	1 364 054	2	2	2	4
		1998	4 313 157	1 785 191	1 122 708	1 405 257	4 288 511	1 731 804	1 125 297	1 431 411	1	2	3	2
		1997	4 291 706	1 740 011	1 117 786	1 433 909	4 191 357	1 727 174	1 153 800	1 310 383	X	X	X	X
332911	Industrial valve mfg	2001	1 951 619	715 606	552 089	683 924	1 996 283	699 549	578 457	718 277	3	3	3	8
		2000	2 012 786	708 034	560 836	743 915	1 921 351	671 606	535 024	714 721	3	2	3	7
		1999	1 965 030	698 429	540 403	726 198	1 957 552	692 894	539 797	724 862	3	2	4	7
		1998	1 981 659	735 063	550 250	696 347	2 037 854	744 384	564 810	728 661	2	1	4	3
		1997	1 976 473	717 743	542 395	716 335	1 945 750	723 820	605 165	616 765	X	X	X	X
332912	Fluid power valve & hose fitting mfg	2001	1 225 262	615 354	257 117	352 791	1 210 882	597 084	276 606	337 192	2	3	4	3
		2000	1 241 332	613 847	277 209	350 277	1 169 999	565 767	276 877	327 355	2	2	4	4
		1999	1 192 502	570 505	290 338	331 659	1 163 425	543 256	301 095	319 074	2	2	3	3
		1998	1 301 355	560 633	340 800	399 923	1 238 718	527 864	328 054	382 800	1	2	3	4
		1997	1 244 206	528 190	330 743	385 273	1 218 108	541 377	319 752	356 979	X	X	X	X
332913	Plumbing fixture fitting & trim mfg	2001	478 108	226 301	121 793	130 013	488 635	224 229	126 188	138 218	7	10	8	13
		2000	536 903	237 458	135 371	164 074	477 684	206 437	118 967	152 280	5	10	6	5
		1999	472 421	205 307	104 950	162 164	472 478	196 893	102 593	172 992	5	11	5	4
		1998	528 680	213 927	119 580	195 173	550 693	240 725	131 490	178 479	8	14	2	7
		1997	565 001	249 158	133 473	182 370	535 426	229 067	125 725	180 634	X	X	X	X
332919	Other metal valve & pipe fitting mfg	2001	505 555	255 455	103 876	146 224	536 549	263 571	110 891	162 087	6	5	21	6
		2000	512 127	257 572	109 141	145 414	476 873	232 556	106 128	138 189	6	5	20	6
		1999	459 015	230 946	87 870	140 199	462 005	225 717	89 161	147 126	4	5	8	6
		1998	501 462	275 568	112 078	113 815	461 246	218 831	100 944	141 472	6	11	14	17
		1997	506 026	244 920	111 175	149 931	492 073	232 910	103 158	156 005	X	X	X	X
33299	All other fabricated metal product mfg	2001	3 969 092	1 354 532	1 240 994	1 373 566	4 107 089	1 372 584	1 273 985	1 460 520	4	9	3	3
		2000	4 188 024	1 397 022	1 320 385	1 470 616	4 038 166	1 391 301	1 273 331	1 373 533	4	9	3	3
		1999	4 196 315	1 428 524	1 377 406	1 390 385	4 170 693	1 431 768	1 378 981	1 359 944	1	2	3	1
		1998	4 474 638	1 495 053	1 484 130	1 495 455	4 315 030	1 474 311	1 440 905	1 399 815	1	2	2	1
		1997	4 238 618	1 428 973	1 402 579	1 407 066	4 211 898	1 375 698	1 393 237	1 442 963	X	X	X	X
332991	Ball & roller bearing mfg	2001	785 333	249 180	309 441	226 712	880 915	292 071	342 453	246 391	20	48	4	14
		2000	881 659	292 361	342 726	246 572	1 008 927	403 174	327 670	278 083	17	41	4	13
		1999	1 025 709	412 517	340 001	273 191	1 045 545	415 065	338 674	291 806	1	2	4	2
		1998	1 040 837	393 323	363 661	283 853	1 003 497	351 765	360 714	291 018	1	1	1	1
		1997	960 594	316 998	356 275	287 321	963 018	302 232	358 469	302 317	X	X	X	X
332992	Small arms ammunition mfg	2001	192 881	101 600	41 700	49 580	212 354	114 358	45 126	52 870	1	2	1	1
		2000	215 434	115 738	45 959	53 737	188 276	86 556	47 318	54 401	1	1	1	1
		1999	190 620	86 605	48 581	55 435	203 168	96 487	52 486	54 196	1	1	1	1
		1998	220 406	97 288	52 394	70 723	231 002	113 481	52 719	64 802	1	1	1	1
		1997	228 253	113 706	49 911	64 636	227 368	106 372	49 135	71 861	X	X	X	X
332993	Ammunition (except small arms) mfg	2001	65 300	7 858	50 623	6 818	68 835	7 792	53 472	7 571	6	14	8	22
		2000	105 578	7 782	90 236	7 560	122 661	7 761	105 541	9 358	8	10	10	14
		1999	122 175	7 488	105 546	9 142	109 050	8 336	92 754	7 960	7	5	9	10
		1998	130 160	10 767	106 528	12 865	155 588	7 450	134 979	13 159	1	5	1	2
		1997	152 453	7 706	131 418	13 329	178 931	9 828	155 306	13 797	X	X	X	X
332994	Small arms mfg	2001	358 560	114 974	118 272	125 314	360 825	117 389	110 451	132 985	3	6	3	3
		2000	367 483	129 300	103 316	134 867	327 186	112 656	96 844	117 687	3	4	4	3
		1999	333 664	116 247	98 425	118 991	347 468	142 296	87 040	118 132	3	4	4	3
		1998	363 942	149 109	108 192	106 641	355 232	146 768	107 278	101 186	1	2	1	1
		1997	353 368	146 458	106 062	100 848	374 150	149 714	120 000	104 436	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3329	Other fabricated metal product mfg—Con.													
33299	All other fabricated metal product mfg—Con.													
332995	Other ordnance & accessories mfg	2001	204 428	4 164	184 514	15 751	170 960	4 519	153 122	13 319	2	6	1	6
		2000	170 208	4 220	152 817	13 171	167 625	4 543	147 926	15 156	2	7	2	7
		1999	238 178	5 472	217 608	15 099	257 119	5 731	233 988	17 400	1	5	1	6
		1998	255 574	5 113	212 758	37 702	270 442	62 022	166 347	42 073	1	1	1	1
		1997	263 626	61 715	160 208	41 703	252 891	61 762	146 470	44 659	X	X	X	X
332996	Fabricated pipe & pipe fitting mfg	2001	687 032	244 015	111 606	331 411	679 369	238 111	107 478	333 780	4	5	20	4
		2000	690 585	241 580	108 224	340 781	598 700	233 515	102 870	262 315	4	6	19	4
		1999	612 480	242 342	105 587	264 551	596 899	232 505	110 207	254 187	4	8	22	4
		1998	687 073	234 731	159 314	293 028	667 799	238 731	160 816	268 252	3	3	5	5
		1997	660 167	228 957	161 454	269 756	648 591	213 217	152 004	283 370	X	X	X	X
332997	Industrial pattern mfg	2001	40 162	834	30 292	9 036	41 174	1 473	32 253	7 448	13	A	6	20
		2000	41 422	1 064	32 023	8 334	42 988	1 762	33 892	7 334	13	A	8	20
		1999	42 752	1 311	33 466	7 975	43 759	1 531	34 289	7 939	12	A	6	21
		1998	67 477	13 681	42 702	11 095	50 498	5 661	34 079	10 758	25	A	16	11
		1997	50 712	6 215	34 154	10 343	50 612	7 392	32 972	10 248	X	X	X	X
332998	Enameled iron & metal sanitary ware mfg	2001	208 829	73 003	57 761	78 065	229 452	76 251	77 187	76 013	2	3	2	4
		2000	227 638	74 106	77 199	76 333	213 401	66 187	66 307	80 907	2	3	1	4
		1999	203 323	61 833	64 588	76 902	195 132	61 244	57 089	76 799	3	3	2	4
		1998	246 702	90 917	71 547	84 238	241 203	89 611	70 784	80 808	1	1	1	1
		1997	246 147	91 083	72 389	82 675	229 942	86 310	60 618	83 014	X	X	X	X
332999	All other miscellaneous fabricated metal product mfg	2001	1 426 567	558 905	336 783	530 879	1 463 205	520 621	352 441	590 142	4	6	9	3
		2000	1 488 017	530 871	367 886	589 261	1 368 401	475 146	344 963	548 292	3	3	7	2
		1999	1 427 414	494 709	363 605	569 099	1 372 552	468 574	372 454	531 524	2	3	7	2
		1998	1 462 466	500 124	367 034	595 309	1 339 769	458 822	353 188	527 759	3	4	6	2
		1997	1 323 298	456 135	330 708	536 455	1 286 395	438 871	318 263	529 261	X	X	X	X
333	Machinery mfg	2001	44 533 689	14 856 951	14 413 396	15 263 342	48 047 804	15 737 279	16 069 182	16 241 343	1	1	1	1
		2000	49 149 620	16 107 198	16 631 806	16 410 617	46 304 552	15 248 468	15 922 634	15 133 450	1	1	2	1
		1999	46 048 260	15 443 492	15 091 546	15 513 222	45 727 407	15 250 691	15 502 081	14 974 635	1	1	1	1
		1998	45 550 863	14 875 350	15 217 032	15 458 481	43 945 989	13 890 647	15 508 798	14 546 544	1	1	1	1
		1997	44 490 878	14 131 366	15 492 272	14 867 240	43 073 890	13 537 137	15 547 728	13 989 025	X	X	X	X
3331	Agriculture, construction, & mining machinery mfg	2001	9 217 934	4 393 033	2 070 915	2 753 986	9 490 329	4 500 947	2 147 283	2 842 099	2	3	3	3
		2000	9 562 746	4 496 342	2 199 582	2 866 822	9 474 006	4 458 354	2 151 288	2 864 364	1	3	3	3
		1999	9 406 076	4 503 610	2 141 343	2 761 123	9 696 703	4 480 829	2 428 803	2 787 071	1	2	3	3
		1998	9 721 847	4 445 617	2 325 436	2 950 795	9 106 928	4 015 305	2 166 983	2 924 640	1	1	1	2
		1997	9 219 850	4 024 394	2 132 568	3 062 888	8 605 853	3 573 585	2 296 756	2 735 512	X	X	X	X
33311	Agricultural implement mfg	2001	3 242 138	1 710 052	573 430	958 655	3 490 306	1 837 434	646 955	1 005 917	3	4	3	6
		2000	3 531 522	1 867 464	647 594	1 016 464	3 414 868	1 861 676	597 109	956 083	2	4	4	6
		1999	3 405 176	1 875 566	620 049	909 561	3 439 813	1 835 919	690 775	913 119	2	3	4	4
		1998	3 556 279	1 795 437	745 457	1 015 386	3 444 703	1 727 714	719 706	997 283	1	2	1	1
		1997	3 434 388	1 717 230	723 902	993 256	3 151 016	1 555 865	713 975	881 176	X	X	X	X
333111	Farm machinery & equipment mfg	2001	2 158 259	975 739	459 851	722 670	2 248 125	980 620	529 867	737 638	5	8	3	8
		2000	2 272 739	1 001 106	530 458	741 175	2 111 319	936 820	475 405	699 094	4	7	4	8
		1999	2 085 667	949 013	498 351	638 302	2 241 803	1 013 304	562 069	666 431	3	5	5	6
		1998	2 346 990	989 219	596 315	761 456	2 285 633	975 135	598 183	712 315	2	3	2	2
		1997	2 277 103	964 146	602 038	710 919	2 071 759	885 146	582 521	604 092	X	X	X	X
333112	Lawn & garden tractor & home lawn & garden equipment mfg	2001	1 083 879	734 313	113 580	235 986	1 242 181	856 815	117 087	268 280	1	1	3	1
		2000	1 258 783	866 358	117 136	275 289	1 303 550	924 856	121 704	256 990	1	1	3	1
		1999	1 319 509	926 552	121 698	271 259	1 198 010	822 615	128 706	246 689	1	1	1	1
		1998	1 209 289	806 218	149 142	253 930	1 159 070	752 579	121 523	284 968	1	2	2	2
		1997	1 157 285	753 084	121 864	282 337	1 079 257	670 719	131 454	277 084	X	X	X	X
33312	Construction machinery mfg	2001	3 705 065	1 475 713	988 409	1 240 943	3 952 883	1 524 132	1 038 474	1 390 277	2	5	6	5
		2000	3 928 080	1 505 540	1 042 515	1 380 025	3 978 203	1 416 568	1 126 534	1 435 101	2	5	5	5
		1999	3 838 685	1 365 777	1 085 799	1 387 109	3 796 929	1 224 715	1 223 488	1 348 726	3	3	5	5
		1998	3 745 141	1 276 707	1 098 134	1 370 300	3 447 707	1 067 074	989 717	1 390 917	2	4	1	3
		1997	3 536 421	1 037 067	943 955	1 555 399	3 466 499	965 815	1 169 441	1 331 243	X	X	X	X
333120	Construction machinery mfg	2001	3 705 065	1 475 713	988 409	1 240 943	3 952 883	1 524 132	1 038 474	1 390 277	2	5	6	5
		2000	3 928 080	1 505 540	1 042 515	1 380 025	3 978 203	1 416 568	1 126 534	1 435 101	2	5	5	5
		1999	3 838 685	1 365 777	1 085 799	1 387 109	3 796 929	1 224 715	1 223 488	1 348 726	3	3	5	5
		1998	3 745 141	1 276 707	1 098 134	1 370 300	3 447 707	1 067 074	989 717	1 390 917	2	4	1	3
		1997	3 536 421	1 037 067	943 955	1 555 399	3 466 499	965 815	1 169 441	1 331 243	X	X	X	X
33313	Mining & oil & gas field machinery mfg	2001	2 270 731	1 207 268	509 075	554 388	2 047 140	1 139 380	461 855	445 905	4	5	6	6
		2000	2 103 143	1 123 338	509 473	470 333	2 080 935	1 180 110	427 646	473 179	3	4	6	5
		1999	2 162 215	1 262 267	435 495	464 453	2 459 960	1 420 195	514 539	525 226	3	5	8	4
		1998	2 420 426	1 373 473	481 845	565 109	2 214 518	1 220 518	457 560	536 440	2	2	5	3
		1997	2 249 041	1 270 097	464 711	514 233	1 988 338	1 051 905	413 340	523 093	X	X	X	X
333131	Mining machinery & equipment mfg	2001	467 845	283 333	108 020	76 492	493 045	283 866	103 171	106 009	5	10	4	12
		2000	491 763	284 512	99 848	107 403	529 013	342 729	88 614	97 670	4	9	3	9
		1999	555 178	352 507	93 085	109 586	556 594	340 213	109 274	107 107	5	10	3	8
		1998	674 855	355 595	158 773	160 488	640 801	342 803	135 941	162 057	3	3	3	8
		1997	603 700	333 802	128 761	141 137	576 850	313 663	120 927	142 260	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3331	Agriculture, construction, & mining machinery mfg—Con.													
33313	Mining & oil & gas field machinery mfg—Con.													
333132	Oil & gas field machinery & equipment mfg	2001	1 802 886	923 935	401 055	477 896	1 554 094	855 514	358 684	339 896	4	5	7	6
		2000	1 611 381	838 826	409 625	362 929	1 551 922	837 381	339 032	375 509	3	5	8	5
		1999	1 607 038	909 761	342 410	354 867	1 903 367	1 079 983	405 265	418 119	4	5	10	5
		1998	1 745 571	1 017 878	323 072	404 621	1 573 717	877 715	321 619	374 383	2	2	7	2
		1997	1 645 341	936 295	335 950	373 096	1 411 488	738 242	292 413	380 833	X	X	X	X
3332	Industrial machinery mfg	2001	7 441 202	2 037 505	2 299 901	3 103 796	8 618 364	2 259 451	2 966 634	3 392 279	2	3	2	2
		2000	8 752 810	2 279 220	3 035 566	3 438 024	7 232 855	2 009 466	2 590 019	2 633 369	2	4	3	2
		1999	7 393 515	2 041 998	2 630 513	2 721 004	7 159 354	1 898 641	2 434 856	2 825 857	1	3	2	2
		1998	6 897 040	1 651 741	2 343 348	2 901 950	7 153 149	1 712 752	2 631 347	2 809 050	2	3	3	2
		1997	7 203 355	1 767 048	2 614 034	2 822 273	6 646 241	1 638 088	2 464 408	2 543 745	X	X	X	X
33321	Sawmill & woodworking machinery mfg	2001	183 546	58 259	60 896	64 391	197 105	69 759	59 276	68 070	4	8	6	10
		2000	199 563	71 500	61 480	66 583	192 324	60 101	67 486	64 737	4	7	7	9
		1999	196 896	62 774	70 700	63 423	194 068	64 368	64 796	64 905	5	8	6	8
		1998	211 113	80 880	69 654	60 579	191 806	72 771	67 824	51 211	11	24	11	5
		1997	185 042	66 731	66 790	51 521	180 589	68 126	68 067	44 396	X	X	X	X
333210	Sawmill & woodworking machinery mfg	2001	183 546	58 259	60 896	64 391	197 105	69 759	59 276	68 070	4	8	6	10
		2000	199 563	71 500	61 480	66 583	192 324	60 101	67 486	64 737	4	7	7	9
		1999	196 896	62 774	70 700	63 423	194 068	64 368	64 796	64 905	5	8	6	8
		1998	211 113	80 880	69 654	60 579	191 806	72 771	67 824	51 211	11	24	11	5
		1997	185 042	66 731	66 790	51 521	180 589	68 126	68 067	44 396	X	X	X	X
33322	Plastics & rubber industry machinery mfg	2001	655 651	245 754	189 661	220 237	695 019	246 665	243 536	204 819	4	5	4	7
		2000	729 538	260 359	255 608	213 571	628 023	225 490	216 103	186 430	5	4	8	7
		1999	627 970	217 895	207 627	202 448	596 419	214 116	205 063	177 240	3	2	5	5
		1998	614 909	207 237	217 712	189 959	672 993	221 111	243 502	208 380	7	2	14	6
		1997	665 562	224 121	245 944	195 497	622 511	203 421	234 508	184 582	X	X	X	X
333220	Plastics & rubber industry machinery mfg	2001	655 651	245 754	189 661	220 237	695 019	246 665	243 536	204 819	4	5	4	7
		2000	729 538	260 359	255 608	213 571	628 023	225 490	216 103	186 430	5	4	8	7
		1999	627 970	217 895	207 627	202 448	596 419	214 116	205 063	177 240	3	2	5	5
		1998	614 909	207 237	217 712	189 959	672 993	221 111	243 502	208 380	7	2	14	6
		1997	665 562	224 121	245 944	195 497	622 511	203 421	234 508	184 582	X	X	X	X
33329	Other industrial machinery mfg	2001	6 602 004	1 733 492	2 049 344	2 819 168	7 726 240	1 943 028	2 663 822	3 119 391	2	4	2	3
		2000	7 823 709	1 947 361	2 718 478	3 157 869	6 412 508	1 723 875	2 306 430	2 382 202	2	4	3	2
		1999	6 568 648	1 761 329	2 352 187	2 455 133	6 368 866	1 620 158	2 164 997	2 583 712	2	4	2	2
		1998	6 071 018	1 363 623	2 055 982	2 651 412	6 288 350	1 418 870	2 320 022	2 549 459	2	3	3	2
		1997	6 352 751	1 476 196	2 301 300	2 575 255	5 843 141	1 366 541	2 161 833	2 314 767	X	X	X	X
333291	Paper industry machinery mfg	2001	564 019	160 074	267 199	136 746	655 359	181 284	326 141	147 934	4	4	3	13
		2000	604 596	169 865	275 678	159 053	591 082	158 714	269 236	163 132	4	5	4	11
		1999	587 255	162 093	257 959	167 202	645 649	162 316	293 044	190 289	3	4	3	8
		1998	669 883	156 981	307 862	205 039	637 695	149 043	304 438	184 214	3	1	3	8
		1997	636 338	145 610	303 959	186 769	585 265	132 586	264 154	188 525	X	X	X	X
333292	Textile machinery mfg	2001	316 660	132 439	57 476	126 746	334 862	125 704	65 352	143 807	7	18	22	10
		2000	356 240	124 773	72 986	158 481	373 654	122 234	90 639	160 780	7	20	15	7
		1999	381 138	121 817	92 860	166 461	384 604	124 047	92 209	168 348	5	19	12	7
		1998	371 072	106 845	95 372	168 855	375 527	112 704	98 997	163 826	2	3	3	3
		1997	372 056	111 925	95 795	164 336	361 479	112 380	92 546	156 553	X	X	X	X
333293	Printing machinery & equipment mfg	2001	748 025	167 198	233 644	347 183	759 406	171 884	251 259	336 263	2	7	2	3
		2000	831 612	176 167	307 870	347 576	781 298	154 429	274 926	351 943	1	7	2	3
		1999	812 706	164 029	273 674	375 003	892 116	188 674	287 200	416 242	1	7	2	3
		1998	801 046	165 736	269 033	366 277	746 936	160 776	292 365	293 794	8	16	9	9
		1997	866 136	204 272	314 151	347 713	820 595	200 621	305 561	314 413	X	X	X	X
333294	Food product machinery mfg	2001	507 717	191 980	105 378	210 358	530 111	197 947	120 355	211 809	6	5	13	10
		2000	519 939	190 886	116 233	212 820	537 549	198 254	129 248	210 046	6	4	12	9
		1999	540 278	199 534	125 047	215 696	533 185	191 951	123 793	217 441	5	4	9	9
		1998	539 546	190 249	128 424	220 873	543 227	183 810	135 539	223 877	2	2	5	5
		1997	547 299	185 915	134 485	226 899	542 297	176 914	129 232	236 151	X	X	X	X
333295	Semiconductor machinery mfg	2001	2 714 706	485 873	853 007	1 375 826	3 546 109	619 822	1 269 005	1 657 282	3	4	3	4
		2000	3 588 394	634 283	1 293 608	1 660 504	2 276 093	441 558	896 392	938 143	3	3	5	3
		1999	2 359 241	448 321	937 519	973 401	2 092 427	313 093	751 006	1 028 328	2	4	3	2
		1998	2 150 910	319 129	763 396	1 068 385	2 343 087	342 851	941 109	1 059 127	3	4	4	3
		1997	2 248 527	334 487	890 451	1 023 589	1 843 296	283 388	735 400	824 508	X	X	X	X
333298	All other industrial machinery mfg	2001	1 750 878	595 928	532 641	622 309	1 900 392	646 387	631 710	622 295	5	10	3	6
		2000	1 922 928	651 388	652 103	619 437	1 852 833	648 685	645 989	558 159	5	11	3	6
		1999	1 888 030	665 534	665 127	557 369	1 820 886	640 076	617 745	563 066	4	9	3	5
		1998	1 538 562	424 684	491 895	621 983	1 641 879	469 685	547 573	624 620	5	7	12	4
		1997	1 682 395	493 987	562 459	625 949	1 690 209	460 652	634 940	594 617	X	X	X	X
3333	Commercial & service industry machinery mfg	2001	3 255 329	919 792	667 036	1 668 501	3 335 188	960 985	723 655	1 650 548	5	6	19	4
		2000	3 669 997	1 143 452	805 034	1 721 511	3 542 238	1 074 173	857 286	1 610 779	4	3	16	4
		1999	4 028 667	1 181 867	1 050 114	1 796 687	4 263 084	1 223 784	1 265 333	1 773 967	4	3	11	3
		1998	4 099 646	1 246 665	1 031 176	1 821 805	3 533 229	1 088 923	941 149	1 503 157	3	4	5	5
		1997	3 967 193	1 160 448	1 158 362	1 648 383	3 819 549	1 142 361	1 241 097	1 436 091	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3333	Commercial & service industry machinery mfg—Con.													
33331	Commercial & service industry machinery mfg	2001	3 255 329	919 792	667 036	1 668 501	3 335 188	960 985	723 655	1 650 548	5	6	19	4
		2000	3 669 997	1 143 452	805 034	1 721 511	3 542 238	1 074 173	857 286	1 610 779	4	3	16	4
		1999	4 028 667	1 181 867	1 050 114	1 796 687	4 263 084	1 223 784	1 265 333	1 773 967	4	3	11	3
		1998	4 099 646	1 246 665	1 031 176	1 821 805	3 533 229	1 088 923	941 149	1 503 157	3	4	5	5
		1997	3 967 193	1 160 448	1 158 362	1 648 383	3 819 549	1 142 361	1 241 097	1 436 091	X	X	X	X
333311	Automatic vending machine mfg	2001	186 262	68 106	22 679	95 477	206 506	71 599	25 420	109 486	21	56	15	5
		2000	187 308	71 891	21 972	93 444	205 828	76 048	25 135	104 646	8	9	13	22
		1999	193 191	74 684	21 565	96 943	183 246	65 308	25 436	92 503	9	6	7	21
		1998	180 813	79 042	26 287	75 485	163 939	70 933	22 694	70 311	4	3	4	6
		1997	168 095	71 842	23 437	72 816	171 679	68 332	32 237	71 110	X	X	X	X
333312	Commercial laundry, drycleaning, & pressing machine mfg	2001	108 288	51 172	13 191	43 925	111 581	47 751	14 206	49 625	6	5	12	10
		2000	109 515	47 180	13 991	48 344	110 580	46 445	14 289	49 846	6	5	11	9
		1999	115 256	46 901	18 454	49 902	127 508	51 808	21 686	54 013	6	7	7	9
		1998	117 587	34 472	24 069	59 046	115 755	32 739	27 423	55 593	1	1	1	1
		1997	116 102	32 755	27 593	55 754	118 682	25 403	34 752	58 527	X	X	X	X
333313	Office machinery mfg	2001	339 240	105 187	2 093	231 960	341 869	102 304	24 961	214 603	44	25	A	23
		2000	639 305	278 471	77 632	283 202	536 545	215 489	111 556	209 499	22	7	A	14
		1999	626 940	217 528	167 176	242 236	854 204	193 253	433 101	227 849	22	6	69	18
		1998	693 641	222 967	206 475	264 199	632 187	212 526	199 820	219 841	1	1	1	1
		1997	787 074	276 055	233 728	277 291	714 876	254 266	269 273	191 337	X	X	X	X
333314	Optical instrument & lens mfg	2001	502 534	145 442	124 593	232 498	471 766	148 276	131 471	192 019	12	8	28	18
		2000	486 143	149 443	141 519	195 181	437 842	141 090	137 708	159 044	12	8	25	18
		1999	567 654	143 296	204 385	219 973	532 525	135 140	180 653	216 731	5	7	12	9
		1998	674 414	180 314	189 275	304 824	502 182	131 301	206 335	164 547	19	22	24	27
		1997	538 883	130 471	229 632	178 780	477 914	115 560	219 637	142 717	X	X	X	X
333315	Photographic & photocopying equipment mfg	2001	496 684	100 307	91 612	304 765	525 073	111 534	110 316	303 222	4	6	6	4
		2000	532 629	102 615	119 351	310 664	568 565	117 266	124 959	326 340	5	6	10	6
		1999	855 048	251 145	201 341	402 562	934 480	257 713	233 423	443 344	3	2	2	4
		1998	910 306	260 497	226 442	423 367	829 893	236 798	206 765	386 330	1	1	2	1
		1997	813 468	232 243	196 668	384 557	808 490	266 392	199 937	342 161	X	X	X	X
333319	Other commercial & service industry machinery mfg	2001	1 622 321	449 577	412 868	759 876	1 678 394	479 521	417 280	781 593	2	4	3	4
		2000	1 715 097	493 852	430 570	790 675	1 682 877	477 835	443 638	761 404	2	4	3	3
		1999	1 670 578	448 312	437 194	785 071	1 631 122	520 561	371 034	739 526	2	6	2	3
		1998	1 522 885	469 373	358 629	694 883	1 289 273	404 626	278 112	606 535	2	4	5	3
		1997	1 543 571	417 082	447 304	679 185	1 527 908	412 408	485 261	630 239	X	X	X	X
3334	Ventilation, heating, AC, & commercial refrigeration equip mfg	2001	3 666 108	1 502 230	716 922	1 446 956	4 084 793	1 700 693	802 742	1 581 357	2	2	4	3
		2000	4 161 726	1 723 437	827 518	1 610 771	3 953 525	1 647 942	783 457	1 522 125	1	2	3	2
		1999	4 017 527	1 689 457	804 741	1 523 329	3 755 792	1 535 282	783 797	1 436 713	1	1	3	2
		1998	3 647 916	1 334 638	789 137	1 524 142	3 551 106	1 325 749	792 115	1 433 241	2	3	2	2
		1997	3 624 879	1 331 121	803 225	1 490 533	3 691 196	1 475 747	822 176	1 393 273	X	X	X	X
33341	Ventilation, heating, AC, & commercial refrigeration equip mfg	2001	3 666 108	1 502 230	716 922	1 446 956	4 084 793	1 700 693	802 742	1 581 357	2	2	4	3
		2000	4 161 726	1 723 437	827 518	1 610 771	3 953 525	1 647 942	783 457	1 522 125	1	2	3	2
		1999	4 017 527	1 689 457	804 741	1 523 329	3 755 792	1 535 282	783 797	1 436 713	1	1	3	2
		1998	3 647 916	1 334 638	789 137	1 524 142	3 551 106	1 325 749	792 115	1 433 241	2	3	2	2
		1997	3 624 879	1 331 121	803 225	1 490 533	3 691 196	1 475 747	822 176	1 393 273	X	X	X	X
333411	Air purification equipment mfg	2001	240 444	60 372	61 331	118 741	248 806	61 590	60 207	127 010	8	6	28	5
		2000	253 235	61 286	64 303	127 646	212 245	51 576	54 077	106 592	6	4	21	4
		1999	224 538	56 144	57 423	110 971	215 153	59 940	47 013	108 199	5	5	16	4
		1998	264 102	75 127	62 214	126 761	241 205	63 567	61 891	115 747	7	12	8	7
		1997	254 712	64 931	66 601	123 180	255 787	66 110	76 602	113 075	X	X	X	X
333412	Industrial & commercial fan & blower mfg	2001	216 127	41 533	43 826	130 768	239 745	43 391	54 152	142 201	6	18	5	6
		2000	241 540	43 469	53 654	144 416	226 940	42 299	58 974	125 667	5	15	4	4
		1999	213 891	37 814	61 002	115 075	212 192	36 975	64 750	110 467	3	13	3	4
		1998	214 934	26 823	64 457	123 653	205 406	36 256	66 700	102 449	3	40	19	15
		1997	219 085	43 978	51 815	123 292	209 769	38 938	58 544	112 287	X	X	X	X
333414	Heating equipment (except warm air furnaces) mfg	2001	625 586	243 627	124 829	257 129	648 768	247 739	132 023	269 007	6	7	12	8
		2000	667 565	252 413	136 047	279 105	610 191	222 402	129 559	258 229	5	7	9	5
		1999	629 636	233 381	131 678	264 578	600 463	213 263	128 182	259 018	4	6	9	5
		1998	531 059	169 896	106 969	254 195	569 330	206 053	105 423	257 854	11	24	7	5
		1997	571 687	205 599	108 583	257 505	530 964	201 928	101 387	227 649	X	X	X	X
333415	AC & warm air heating & commercial/industrial refrig equip mfg	2001	2 583 951	1 156 697	486 936	940 318	2 947 474	1 347 974	556 360	1 043 140	2	2	4	4
		2000	2 999 386	1 366 269	573 513	1 059 604	2 904 149	1 331 665	540 847	1 031 637	2	1	3	3
		1999	2 949 462	1 362 119	554 638	1 032 705	2 727 984	1 225 104	543 851	959 028	1	1	3	3
		1998	2 637 821	1 062 792	555 496	1 019 533	2 535 165	1 019 873	558 102	957 191	1	1	1	2
		1997	2 579 395	1 016 613	576 226	986 556	2 694 676	1 168 771	585 643	940 262	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3335	Metalworking machinery mfg	2001	4 903 416	1 336 137	2 534 429	1 032 850	5 522 925	1 435 589	2 927 710	1 159 626	2	3	3	2
		2000	5 513 601	1 446 338	2 947 419	1 119 844	5 573 977	1 414 515	3 037 590	1 121 871	2	3	2	2
		1999	5 464 190	1 415 189	2 931 814	1 117 186	5 574 888	1 507 123	2 968 936	1 098 829	1	2	2	2
		1998	5 642 240	1 584 455	2 947 400	1 110 385	5 676 006	1 358 334	3 287 600	1 030 072	1	2	2	2
		1997	5 486 531	1 398 474	3 046 561	1 041 496	5 372 873	1 222 262	3 004 439	1 146 172	X	X	X	X
33351	Metalworking machinery mfg	2001	4 903 416	1 336 137	2 534 429	1 032 850	5 522 925	1 435 589	2 927 710	1 159 626	2	3	3	2
		2000	5 513 601	1 446 338	2 947 419	1 119 844	5 573 977	1 414 515	3 037 590	1 121 871	2	3	2	2
		1999	5 464 190	1 415 189	2 931 814	1 117 186	5 574 888	1 507 123	2 968 936	1 098 829	1	2	2	2
		1998	5 642 240	1 584 455	2 947 400	1 110 385	5 676 006	1 358 334	3 287 600	1 030 072	1	2	2	2
		1997	5 486 531	1 398 474	3 046 561	1 041 496	5 372 873	1 222 262	3 004 439	1 146 172	X	X	X	X
333511	Industrial mold mfg	2001	491 264	88 115	319 732	83 416	603 349	111 858	387 629	103 862	4	6	5	7
		2000	607 651	103 103	397 664	106 884	624 058	114 764	405 758	103 536	5	6	5	7
		1999	631 352	111 048	413 994	106 310	571 854	114 886	362 559	94 409	5	7	6	8
		1998	585 585	118 106	364 701	102 778	569 529	77 222	387 102	105 206	3	9	3	7
		1997	565 536	79 102	390 752	95 682	567 127	79 965	379 873	107 289	X	X	X	X
333512	Machine tool (metal cutting types) mfg	2001	1 197 905	275 125	634 789	287 990	1 411 517	316 892	756 102	338 522	4	8	4	6
		2000	1 357 234	299 559	760 407	297 268	1 369 601	312 786	764 873	291 942	3	6	3	5
		1999	1 361 488	327 315	752 519	281 655	1 407 441	406 557	718 931	281 953	2	4	3	5
		1998	1 427 166	503 333	676 660	247 173	1 468 456	449 039	761 831	257 586	3	4	5	7
		1997	1 514 147	461 344	781 193	271 610	1 445 460	346 597	747 373	351 490	X	X	X	X
333513	Machine tool (metal forming types) mfg	2001	487 606	136 336	248 773	102 497	585 684	148 425	312 711	124 548	4	5	5	3
		2000	559 655	154 848	288 428	116 379	567 117	109 799	327 078	130 241	3	4	5	3
		1999	551 364	109 073	313 905	128 386	565 800	112 679	327 392	125 729	3	5	3	3
		1998	644 454	143 129	368 210	133 115	525 183	107 541	318 866	98 776	3	5	3	4
		1997	542 639	125 332	313 357	103 950	537 614	116 970	325 535	95 109	X	X	X	X
333514	Special die & tool, die set, jig, & fixture mfg	2001	958 455	243 154	563 490	151 812	1 082 124	260 753	633 756	187 614	5	9	7	7
		2000	1 104 142	282 275	641 862	180 006	1 128 819	290 106	662 911	175 802	4	8	6	6
		1999	1 115 213	285 138	653 866	176 209	1 123 794	287 149	656 731	179 913	4	7	6	5
		1998	1 102 859	216 750	686 517	199 592	1 100 451	184 493	725 773	190 186	2	4	2	6
		1997	1 113 851	192 354	732 638	188 859	1 071 541	184 032	658 841	228 668	X	X	X	X
333515	Cutting tool & machine tool accessory mfg	2001	960 103	477 266	249 980	232 857	989 658	477 870	278 131	233 658	5	6	7	4
		2000	1 003 597	487 201	277 392	239 003	958 709	455 817	267 545	235 347	3	3	4	4
		1999	947 338	449 475	268 237	229 627	947 360	446 825	278 512	222 022	3	3	4	4
		1998	997 799	475 913	302 276	219 611	906 722	401 856	293 949	210 916	2	3	3	2
		1997	908 871	403 910	293 521	211 440	883 659	376 725	280 060	226 874	X	X	X	X
333516	Rolling mill machinery & equipment mfg	2001	133 543	15 369	58 413	59 762	134 461	10 256	61 782	62 423	6	10	12	7
		2000	136 462	10 286	62 589	63 586	131 243	10 655	56 209	64 379	7	14	16	4
		1999	130 634	10 411	56 236	63 986	140 465	11 014	62 977	66 474	4	14	12	2
		1998	164 408	12 965	87 504	63 940	177 420	17 403	122 286	37 731	4	11	8	3
		1997	178 736	17 657	121 716	39 363	167 611	17 418	134 993	15 200	X	X	X	X
333518	Other metalworking machinery mfg	2001	674 540	100 772	459 252	114 515	716 132	109 534	497 600	108 998	6	15	7	7
		2000	744 859	109 064	519 078	116 718	794 429	120 589	553 217	120 623	7	16	9	7
		1999	726 801	122 730	473 057	131 014	818 175	128 012	561 835	128 328	3	11	4	6
		1998	719 969	114 260	461 533	144 176	928 246	120 780	677 794	129 672	4	6	6	5
		1997	662 751	118 775	413 384	130 592	699 861	100 555	477 764	121 542	X	X	X	X
3336	Engine, turbine, & power transmission equipment mfg	2001	4 883 373	1 121 173	2 292 567	1 469 633	4 865 280	1 183 116	2 228 322	1 453 842	2	5	2	2
		2000	5 121 383	1 184 919	2 389 995	1 546 469	4 779 137	1 091 130	2 186 767	1 501 239	2	4	1	2
		1999	4 927 203	1 085 212	2 182 774	1 659 218	4 554 142	1 064 332	2 061 285	1 428 525	1	3	1	1
		1998	4 814 023	1 177 176	2 367 355	1 269 492	4 515 391	1 173 967	2 237 580	1 103 844	1	1	1	3
		1997	4 447 245	1 147 022	2 221 179	1 079 044	4 767 014	1 365 026	2 251 185	1 150 803	X	X	X	X
33361	Engine, turbine, & power transmission equipment mfg	2001	4 883 373	1 121 173	2 292 567	1 469 633	4 865 280	1 183 116	2 228 322	1 453 842	2	5	2	2
		2000	5 121 383	1 184 919	2 389 995	1 546 469	4 779 137	1 091 130	2 186 767	1 501 239	2	4	1	2
		1999	4 927 203	1 085 212	2 182 774	1 659 218	4 554 142	1 064 332	2 061 285	1 428 525	1	3	1	1
		1998	4 814 023	1 177 176	2 367 355	1 269 492	4 515 391	1 173 967	2 237 580	1 103 844	1	1	1	3
		1997	4 447 245	1 147 022	2 221 179	1 079 044	4 767 014	1 365 026	2 251 185	1 150 803	X	X	X	X
333611	Turbine & turbine generator set unit mfg	2001	1 840 306	103 812	1 240 922	495 572	1 539 432	68 667	1 076 585	394 180	2	13	2	1
		2000	1 608 597	41 506	1 167 389	399 701	1 476 415	56 364	1 060 648	359 402	2	38	2	1
		1999	1 653 376	56 942	1 052 530	543 904	1 372 866	78 336	943 875	350 656	1	24	2	1
		1998	1 642 113	140 638	1 235 243	266 232	1 634 542	175 937	1 147 719	310 885	1	2	1	1
		1997	1 631 307	176 115	1 145 348	309 844	1 837 866	309 317	1 158 599	369 950	X	X	X	X
333612	Speed changer, industrial high-speed drive, & gear mfg	2001	488 670	173 735	147 473	167 462	485 476	193 139	130 719	161 617	6	7	9	8
		2000	500 636	190 109	135 445	175 083	485 057	193 269	131 993	159 795	5	6	8	7
		1999	484 700	192 543	137 454	154 702	537 259	204 292	165 098	167 870	4	5	7	5
		1998	536 916	222 140	171 782	142 994	495 940	205 956	163 178	126 806	2	2	5	6
		1997	468 133	207 689	148 272	112 172	456 702	198 309	151 124	107 269	X	X	X	X
333613	Mechanical power transmission equipment mfg	2001	725 715	338 196	222 414	165 104	766 510	354 532	232 595	179 384	5	5	9	6
		2000	761 493	347 307	236 574	177 612	739 727	326 746	233 083	179 898	3	5	6	7
		1999	729 650	325 340	232 047	172 263	759 820	318 669	239 905	201 246	3	4	7	8
		1998	750 322	351 171	235 270	163 881	729 616	341 415	230 174	158 027	2	1	2	8
		1997	733 969	329 820	237 097	167 052	698 643	315 401	228 552	154 690	X	X	X	X
333618	Other engine equipment mfg	2001	1 828 682	505 429	681 758	641 495	2 073 862	566 778	788 423	718 662	4	9	3	4
		2000	2 250 657	605 997	850 587	794 073	2 077 939	514 751	761 044	802 144	3	6	2	4
		1999	2 059 477	510 387	760 743	788 347	1 884 197	463 036	712 408	708 753	1	4	1	2
		1998	1 884 672	463 227	725 059	696 386	1 655 294	450 660	696 509	508 125	2	2	1	4
		1997	1 613 836	433 398	690 462	489 976	1 773 803	541 999	712 910	518 894	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
333	Machinery mfg—Con.													
3339	Other general-purpose machinery mfg	2001	11 166 327	3 547 080	3 831 626	3 787 620	12 130 925	3 696 498	4 272 836	4 161 591	2	2	3	2
		2000	12 367 358	3 833 490	4 426 692	4 107 176	11 748 815	3 552 888	4 316 225	3 879 702	2	2	5	1
		1999	10 811 082	3 526 160	3 350 247	3 934 675	10 723 445	3 540 700	3 559 072	3 623 673	1	1	2	1
		1998	10 728 151	3 435 059	3 413 181	3 879 911	10 410 179	3 215 617	3 452 022	3 742 540	1	3	2	2
		1997	10 541 825	3 302 859	3 516 343	3 722 623	10 171 164	3 120 068	3 467 667	3 583 429	X	X	X	X
33391	Pump & compressor mfg	2001	2 760 539	1 077 368	776 961	906 210	2 766 741	1 055 302	805 584	905 855	7	5	14	8
		2000	2 868 909	1 144 742	863 130	861 037	2 757 764	1 046 799	885 753	825 212	7	4	24	3
		1999	2 614 162	1 036 970	710 791	866 401	2 716 520	1 084 312	795 377	836 831	2	2	3	3
		1998	2 744 517	1 017 638	834 900	891 979	2 787 867	1 039 758	833 081	915 028	3	8	3	7
		1997	2 738 881	1 034 401	833 246	871 234	2 636 148	1 020 471	769 796	845 881	X	X	X	X
333911	Pump & pumping equipment mfg	2001	1 332 440	564 455	283 714	484 272	1 370 267	597 159	293 771	479 337	4	7	7	5
		2000	1 396 130	621 813	293 186	481 131	1 280 348	576 127	277 550	426 670	3	7	7	5
		1999	1 361 229	566 499	323 377	471 353	1 396 329	576 751	361 322	458 256	3	4	7	5
		1998	1 467 694	590 974	408 166	468 554	1 473 589	545 656	375 291	552 641	3	3	3	11
		1997	1 426 641	535 968	373 753	516 920	1 383 859	535 971	359 382	488 506	X	X	X	X
333912	Air & gas compressor mfg	2001	1 273 472	466 767	457 497	349 208	1 233 777	408 896	472 055	352 827	14	6	24	20
		2000	1 305 108	473 084	530 126	301 898	1 294 296	418 739	562 773	312 785	15	4	38	5
		1999	1 060 439	412 509	339 030	308 900	1 153 408	455 890	391 519	305 999	2	2	2	4
		1998	1 120 252	381 132	386 390	352 729	1 146 067	440 810	412 251	293 005	5	20	4	11
		1997	1 145 082	445 012	413 384	286 686	1 084 183	429 921	360 474	293 788	X	X	X	X
333913	Measuring & dispensing pump mfg	2001	154 627	46 147	35 750	72 730	162 696	49 247	39 758	73 691	2	5	2	4
		2000	167 671	49 845	39 818	78 008	183 120	51 933	45 429	85 758	1	5	2	4
		1999	192 494	57 962	48 384	86 148	166 783	51 671	42 536	72 576	1	3	2	3
		1998	156 572	45 532	40 344	70 696	168 212	53 291	45 539	69 382	1	8	1	2
		1997	167 158	53 421	46 109	67 628	168 106	54 579	49 940	63 587	X	X	X	X
33392	Material handling equipment mfg	2001	2 495 461	743 330	689 836	1 062 295	2 891 271	754 601	801 109	1 335 561	3	3	4	4
		2000	2 874 443	736 985	817 568	1 319 890	2 724 118	665 934	808 177	1 250 007	3	3	3	3
		1999	2 658 384	675 727	736 159	1 246 498	2 474 238	697 409	784 109	992 720	3	3	4	4
		1998	2 379 395	653 071	611 966	1 114 357	2 230 570	559 438	646 783	1 024 349	3	5	10	2
		1997	2 249 939	581 868	645 344	1 022 727	2 175 828	493 632	647 254	1 034 942	X	X	X	X
333921	Elevator & moving stairway mfg	2001	230 276	38 642	97 182	94 452	200 932	37 652	73 011	90 269	5	11	8	5
		2000	204 155	35 679	80 184	88 292	210 061	41 695	78 778	89 588	4	5	6	5
		1999	204 183	43 561	76 980	83 642	204 678	35 636	91 392	77 650	8	15	5	7
		1998	199 979	35 053	86 329	78 597	201 022	36 115	86 799	78 108	3	13	7	8
		1997	201 583	35 914	85 073	80 596	185 465	36 812	77 920	70 733	X	X	X	X
333922	Conveyor & conveying equipment mfg	2001	789 410	212 467	251 841	325 102	868 564	220 523	286 399	361 642	9	7	9	11
		2000	868 817	216 312	289 919	362 586	871 105	215 463	322 527	333 115	8	6	8	10
		1999	801 719	212 936	267 706	321 076	805 290	235 250	274 075	295 965	8	6	9	11
		1998	666 227	204 792	153 888	307 547	642 396	152 401	220 754	269 241	10	13	37	3
		1997	695 525	162 837	232 468	300 220	660 905	152 555	233 567	274 783	X	X	X	X
333923	Overhead traveling crane, hoist, & monorail system mfg	2001	737 177	285 317	224 583	227 278	786 610	244 711	290 691	251 208	3	3	4	7
		2000	782 160	242 617	291 750	247 792	704 311	219 311	254 610	230 389	2	3	4	6
		1999	712 016	234 281	238 722	239 013	688 413	201 155	255 077	232 181	3	3	4	7
		1998	622 774	170 575	203 858	248 341	536 056	148 348	170 231	217 477	4	10	10	2
		1997	559 839	167 268	158 998	233 573	525 581	124 839	174 642	226 100	X	X	X	X
333924	Industrial truck, tractor, trailer, & stacker machinery mfg	2001	738 598	206 904	116 230	415 463	1 035 165	251 716	151 008	632 442	3	5	9	4
		2000	1 019 311	242 376	155 716	621 219	938 642	189 465	152 261	596 915	2	4	4	3
		1999	940 466	184 949	152 752	602 766	775 857	225 368	163 565	386 923	3	4	4	4
		1998	890 414	242 650	167 892	479 872	851 096	222 574	168 999	459 522	3	3	3	4
		1997	792 992	215 849	168 805	408 338	803 877	179 426	161 125	463 326	X	X	X	X
33399	All other general-purpose machinery mfg	2001	5 910 326	1 726 382	2 364 830	1 819 115	6 472 913	1 886 595	2 666 143	1 920 175	1	2	2	2
		2000	6 624 006	1 951 763	2 745 994	1 926 250	6 266 933	1 840 155	2 622 296	1 804 482	1	2	2	2
		1999	5 538 535	1 813 462	1 903 297	1 821 776	5 532 686	1 758 978	1 979 586	1 794 122	1	2	3	2
		1998	5 604 239	1 764 350	1 966 315	1 873 575	5 391 742	1 616 421	1 972 158	1 803 163	1	2	1	1
		1997	5 553 005	1 686 590	2 037 753	1 828 662	5 359 188	1 605 965	2 050 617	1 702 606	X	X	X	X
333991	Power-driven handtool mfg	2001	432 628	237 345	92 146	103 137	505 224	283 420	94 070	127 734	6	9	8	8
		2000	508 282	301 040	100 337	106 905	475 791	254 040	98 576	123 174	3	4	2	9
		1999	473 488	256 934	98 246	118 309	455 529	262 121	94 239	99 168	2	5	2	5
		1998	484 360	285 157	101 431	97 773	424 978	238 274	100 536	86 167	1	1	1	1
		1997	425 780	237 823	99 267	88 690	414 395	202 271	100 314	111 810	X	X	X	X
333992	Welding & soldering equipment mfg	2001	652 364	279 505	189 081	183 779	739 156	300 950	244 263	193 943	6	3	17	4
		2000	752 676	306 720	249 859	196 097	769 163	301 050	263 639	204 474	5	2	14	3
		1999	731 388	271 137	263 185	197 066	760 083	260 831	312 392	186 861	7	2	18	2
		1998	688 157	264 678	217 230	206 248	719 203	265 769	249 538	203 897	2	1	8	1
		1997	810 035	283 840	301 482	224 713	759 359	244 048	305 886	209 425	X	X	X	X
333993	Packaging machinery mfg	2001	926 780	307 649	264 151	354 980	988 662	336 402	297 846	354 414	4	7	9	5
		2000	985 192	337 421	295 659	352 113	959 940	311 106	305 226	343 608	3	6	7	4
		1999	1 012 282	328 692	322 929	360 661	994 624	312 760	306 405	375 459	2	6	6	3
		1998	1 022 399	295 389	346 602	380 409	1 044 521	301 493	367 389	375 639	3	4	4	3
		1997	1 060 658	295 265	373 297	392 096	1 097 834	313 966	432 551	351 317	X	X	X	X
333994	Industrial process furnace & oven mfg	2001	316 633	38 738	100 103	177 792	383 510	48 036	148 639	186 836	8	13	14	9
		2000	393 477	51 095	152 986	189 397	375 030	52 554	153 650	168 826	7	11	9	8
		1999	395 992	54 451	165 743	175 799	437 957	55 884	192 968	189 105	7	9	13	8
		1998	457 533	58 829	191 943	206 761	416 854	50 435	176 060	190 359	5	4	8	5
		1997	478 085	64 405	196 827	216 853	449 748	50 189	200 458	199 101	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3339	Other general-purpose machinery mfg—Con.													
33399	All other general-purpose machinery mfg—Con.													
333995	Fluid power cylinder & actuator mfg	2001	627 022	141 523	285 215	200 284	661 592	154 406	303 014	204 171	3	7	3	4
		2000	686 813	147 823	333 816	205 173	698 007	152 199	335 742	210 067	2	6	2	3
		1999	703 796	153 059	340 099	210 638	727 715	133 441	377 184	217 090	2	6	1	3
		1998	780 640	177 294	376 211	227 135	699 407	133 229	334 408	231 770	3	13	1	4
		1997	686 309	132 922	328 730	224 657	648 504	142 202	307 391	198 911	X	X	X	X
333996	Fluid power pump & motor mfg	2001	448 657	145 033	174 250	129 374	477 588	170 230	164 760	142 598	5	4	12	3
		2000	516 348	183 604	182 321	150 422	461 765	167 938	165 674	128 153	2	3	3	1
		1999	462 933	166 178	170 079	126 677	488 215	171 849	184 451	131 916	2	3	3	4
		1998	498 635	171 816	189 102	137 716	484 202	163 027	191 033	130 142	1	1	1	1
		1997	474 054	162 015	184 602	127 437	454 535	145 427	202 524	106 584	X	X	X	X
333997	Scale & balance (except laboratory) mfg	2001	100 203	38 283	26 495	35 425	109 077	37 314	24 912	46 850	7	16	16	11
		2000	109 838	37 820	25 105	46 913	105 119	39 131	24 398	41 591	7	13	15	9
		1999	106 510	39 758	24 710	42 042	98 844	36 220	25 628	36 996	6	11	16	9
		1998	105 945	27 533	36 437	41 974	101 253	30 729	29 000	41 523	5	7	16	5
		1997	104 879	29 103	31 288	44 488	115 258	32 301	34 886	48 071	X	X	X	X
333999	All other miscellaneous general-purpose machinery mfg	2001	2 406 038	538 305	1 233 390	634 343	2 608 104	555 837	1 388 637	663 630	2	4	2	3
		2000	2 671 380	586 239	1 405 911	679 230	2 422 117	562 137	1 275 391	584 589	2	4	2	3
		1999	1 652 146	543 254	518 308	590 584	1 569 719	525 873	486 319	557 528	3	5	6	3
		1998	1 566 570	483 653	507 359	575 558	1 501 325	433 464	524 194	543 667	2	2	2	3
		1997	1 513 205	481 217	522 260	509 728	1 419 555	475 561	466 607	477 387	X	X	X	X
334	Computer & electronic product mfg	2001	54 597 017	13 401 330	18 822 458	22 373 229	61 813 011	14 191 326	21 378 585	26 243 099	2	5	1	1
		2000	63 024 884	14 434 552	21 853 501	26 736 832	53 244 429	12 727 383	19 787 447	20 729 600	1	2	1	1
		1999	52 839 376	13 000 601	18 736 531	21 102 244	50 065 968	12 220 334	19 389 759	18 455 875	1	1	1	1
		1998	52 341 015	12 960 411	20 385 542	18 995 061	53 302 955	12 113 576	21 214 996	19 974 383	1	1	1	1
		1997	53 045 620	12 346 594	20 837 795	19 861 231	50 060 531	11 385 088	20 675 702	17 999 741	X	X	X	X
3341	Computer & peripheral equipment mfg	2001	6 340 738	1 583 088	1 590 431	3 167 219	7 983 946	1 833 859	2 096 553	4 053 533	2	3	2	2
		2000	8 350 471	1 901 789	2 149 012	4 299 671	7 814 427	1 932 559	2 324 635	3 557 232	1	2	1	2
		1999	7 962 608	1 998 379	2 266 623	3 697 606	8 017 399	2 243 712	2 423 667	3 350 021	1	1	1	2
		1998	8 966 336	2 475 725	2 874 284	3 616 327	10 197 891	2 625 388	3 288 565	4 283 939	3	6	1	3
		1997	10 289 536	2 826 421	3 298 968	4 164 147	9 775 066	2 676 998	3 334 106	3 763 962	X	X	X	X
33411	Computer & peripheral equipment mfg	2001	6 340 738	1 583 088	1 590 431	3 167 219	7 983 946	1 833 859	2 096 553	4 053 533	2	3	2	2
		2000	8 350 471	1 901 789	2 149 012	4 299 671	7 814 427	1 932 559	2 324 635	3 557 232	1	2	1	2
		1999	7 962 608	1 998 379	2 266 623	3 697 606	8 017 399	2 243 712	2 423 667	3 350 021	1	1	1	2
		1998	8 966 336	2 475 725	2 874 284	3 616 327	10 197 891	2 625 388	3 288 565	4 283 939	3	6	1	3
		1997	10 289 536	2 826 421	3 298 968	4 164 147	9 775 066	2 676 998	3 334 106	3 763 962	X	X	X	X
334111	Electronic computer mfg	2001	2 421 824	445 662	469 647	1 506 515	3 482 235	504 371	733 839	2 244 025	1	1	1	1
		2000	3 689 714	458 234	727 834	2 503 647	3 405 804	532 811	967 861	1 905 132	1	1	1	1
		1999	3 407 861	537 968	913 836	1 956 057	3 767 256	901 808	981 433	1 884 015	1	1	1	1
		1998	4 297 194	1 003 928	1 304 883	1 988 383	5 400 087	1 293 320	1 569 992	2 536 775	1	1	1	1
		1997	5 429 431	1 444 237	1 605 954	2 379 240	5 464 035	1 597 498	1 622 823	2 243 714	X	X	X	X
334112	Computer storage device mfg	2001	1 296 978	337 411	548 092	411 475	1 703 020	541 585	745 481	415 953	5	4	5	8
		2000	1 705 434	572 792	729 919	402 723	1 488 373	490 517	649 888	347 968	2	1	2	5
		1999	1 536 814	527 678	652 500	356 637	1 419 034	344 591	736 386	338 058	1	1	1	2
		1998	1 513 312	361 373	776 859	375 080	1 679 987	396 614	757 504	525 870	1	1	1	1
		1997	1 726 798	414 858	756 895	555 045	1 571 237	335 927	767 935	467 375	X	X	X	X
334113	Computer terminal mfg	2001	143 319	35 721	20 846	86 752	130 235	25 201	21 525	83 509	32	23	10	44
		2000	134 129	26 028	27 776	80 325	123 844	37 927	27 379	58 538	27	12	7	42
		1999	136 181	40 850	30 838	64 494	152 960	42 538	41 191	69 230	10	7	7	17
		1998	175 235	57 129	36 678	81 428	171 904	56 086	34 250	81 568	2	2	2	3
		1997	199 589	62 393	44 244	92 952	206 383	69 582	50 266	86 535	X	X	X	X
334119	Other computer peripheral equipment mfg	2001	2 478 617	764 293	551 847	1 162 478	2 668 456	762 702	595 708	1 310 046	4	5	6	5
		2000	2 821 194	844 736	663 483	1 312 976	2 796 405	871 304	679 507	1 245 594	3	5	4	5
		1999	2 881 751	891 882	669 449	1 320 419	2 678 150	954 775	664 656	1 058 719	2	3	3	4
		1998	2 980 596	1 053 296	755 865	1 171 435	2 945 914	879 368	926 819	1 139 727	8	14	3	8
		1997	2 933 718	904 933	891 875	1 136 910	2 533 411	673 991	893 082	966 338	X	X	X	X
3342	Communications equipment mfg	2001	16 137 682	4 842 026	5 107 548	6 188 107	16 716 829	4 631 630	5 428 143	6 657 056	4	13	1	4
		2000	16 868 544	4 679 958	5 533 017	6 655 569	13 238 714	3 476 947	4 507 173	5 254 594	2	3	2	3
		1999	12 202 365	3 593 253	3 345 120	5 263 992	11 490 989	3 003 027	4 254 028	4 233 933	2	3	2	3
		1998	11 651 676	3 200 576	4 255 975	4 195 126	11 400 699	2 811 307	3 796 555	4 792 838	1	1	1	1
		1997	11 751 968	3 164 337	3 800 397	4 787 234	10 188 790	2 678 925	3 330 306	4 179 559	X	X	X	X
33421	Telephone apparatus mfg	2001	6 321 625	2 480 626	1 011 259	2 829 739	7 156 567	2 453 012	1 675 236	3 028 319	10	25	3	8
		2000	7 422 231	2 514 607	1 901 345	3 006 279	5 482 115	1 742 290	1 456 881	2 282 944	4	5	4	5
		1999	5 701 440	1 849 669	1 479 370	2 372 400	4 952 759	1 555 770	1 571 610	1 825 379	4	4	4	6
		1998	4 957 284	1 679 019	1 551 942	1 726 322	4 287 530	1 320 034	1 220 400	1 747 097	1	1	1	1
		1997	4 450 224	1 361 356	1 256 781	1 832 087	4 112 997	1 103 794	1 277 424	1 731 779	X	X	X	X
334210	Telephone apparatus mfg	2001	6 321 625	2 480 626	1 011 259	2 829 739	7 156 567	2 453 012	1 675 236	3 028 319	10	25	3	8
		2000	7 422 231	2 514 607	1 901 345	3 006 279	5 482 115	1 742 290	1 456 881	2 282 944	4	5	4	5
		1999	5 701 440	1 849 669	1 479 370	2 372 400	4 952 759	1 555 770	1 571 610	1 825 379	4	4	4	6
		1998	4 957 284	1 679 019	1 551 942	1 726 322	4 287 530	1 320 034	1 220 400	1 747 097	1	1	1	1
		1997	4 450 224	1 361 356	1 256 781	1 832 087	4 112 997	1 103 794	1 277 424	1 731 779	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
334	Computer & electronic product mfg—Con.													
3342	Communications equipment mfg—Con.													
33422	Radio & TV broadcasting & wireless communications equipment mfg	2001	8 938 378	2 082 179	3 960 701	2 895 498	8 868 945	1 931 998	3 653 689	3 283 258	2	4	2	4
		2000	8 762 934	1 923 846	3 531 180	3 307 908	7 098 736	1 511 710	2 930 867	2 656 159	2	4	2	4
		1999	5 825 418	1 521 501	1 750 339	2 553 578	5 920 567	1 252 917	2 572 075	2 095 575	2	3	3	3
		1998	6 084 480	1 340 876	2 603 714	2 139 890	6 481 537	1 307 011	2 463 151	2 711 376	1	1	1	1
		1997	6 631 252	1 609 095	2 419 861	2 602 296	5 462 266	1 359 884	1 946 295	2 156 087	X	X	X	X
334220	Radio & TV broadcasting & wireless communications equipment mfg	2001	8 938 378	2 082 179	3 960 701	2 895 498	8 868 945	1 931 998	3 653 689	3 283 258	2	4	2	4
		2000	8 762 934	1 923 846	3 531 180	3 307 908	7 098 736	1 511 710	2 930 867	2 656 159	2	4	2	4
		1999	5 825 418	1 521 501	1 750 339	2 553 578	5 920 567	1 252 917	2 572 075	2 095 575	2	3	3	3
		1998	6 084 480	1 340 876	2 603 714	2 139 890	6 481 537	1 307 011	2 463 151	2 711 376	1	1	1	1
		1997	6 631 252	1 609 095	2 419 861	2 602 296	5 462 266	1 359 884	1 946 295	2 156 087	X	X	X	X
33429	Other communications equipment mfg	2001	877 679	279 222	135 587	462 870	691 317	246 620	99 218	345 479	10	9	14	11
		2000	683 379	241 505	100 492	341 382	657 863	222 948	119 425	315 491	3	6	10	4
		1999	675 508	222 083	115 411	338 014	617 663	194 341	110 343	312 979	2	4	4	3
		1998	609 912	180 680	100 319	328 913	631 632	184 263	113 004	334 365	2	3	4	2
		1997	670 492	193 886	123 755	352 851	613 527	215 247	106 587	291 693	X	X	X	X
334290	Other communications equipment mfg	2001	877 679	279 222	135 587	462 870	691 317	246 620	99 218	345 479	10	9	14	11
		2000	683 379	241 505	100 492	341 382	657 863	222 948	119 425	315 491	3	6	10	4
		1999	675 508	222 083	115 411	338 014	617 663	194 341	110 343	312 979	2	4	4	3
		1998	609 912	180 680	100 319	328 913	631 632	184 263	113 004	334 365	2	3	4	2
		1997	670 492	193 886	123 755	352 851	613 527	215 247	106 587	291 693	X	X	X	X
3343	Audio & video equipment mfg	2001	908 697	346 885	103 736	458 076	1 155 107	423 129	181 342	550 636	7	10	14	8
		2000	1 143 814	423 367	181 453	538 995	911 856	315 254	127 664	468 938	11	27	10	6
		1999	966 315	331 351	138 408	496 556	825 133	278 158	104 804	442 171	7	17	5	5
		1998	845 652	262 065	133 977	449 609	806 088	247 274	153 220	405 594	3	6	10	4
		1997	807 991	253 928	157 658	396 405	915 036	272 612	167 266	475 158	X	X	X	X
33431	Audio & video equipment mfg	2001	908 697	346 885	103 736	458 076	1 155 107	423 129	181 342	550 636	7	10	14	8
		2000	1 143 814	423 367	181 453	538 995	911 856	315 254	127 664	468 938	11	27	10	6
		1999	966 315	331 351	138 408	496 556	825 133	278 158	104 804	442 171	7	17	5	5
		1998	845 652	262 065	133 977	449 609	806 088	247 274	153 220	405 594	3	6	10	4
		1997	807 991	253 928	157 658	396 405	915 036	272 612	167 266	475 158	X	X	X	X
334310	Audio & video equipment mfg	2001	908 697	346 885	103 736	458 076	1 155 107	423 129	181 342	550 636	7	10	14	8
		2000	1 143 814	423 367	181 453	538 995	911 856	315 254	127 664	468 938	11	27	10	6
		1999	966 315	331 351	138 408	496 556	825 133	278 158	104 804	442 171	7	17	5	5
		1998	845 652	262 065	133 977	449 609	806 088	247 274	153 220	405 594	3	6	10	4
		1997	807 991	253 928	157 658	396 405	915 036	272 612	167 266	475 158	X	X	X	X
3344	Semiconductor & other electronic component mfg	2001	14 318 122	2 753 020	5 609 672	5 955 430	18 952 735	3 368 917	7 185 434	8 398 383	3	5	4	3
		2000	19 333 247	3 463 514	7 330 650	8 539 083	14 930 199	3 427 797	5 989 614	5 512 788	2	3	2	2
		1999	15 377 751	3 467 514	6 210 213	5 700 024	13 671 841	3 112 740	5 794 632	4 764 469	2	4	2	3
		1998	14 005 407	3 279 563	5 923 413	4 802 431	14 433 813	2 976 965	6 532 154	4 924 693	1	1	1	1
		1997	13 974 081	2 782 513	6 225 176	4 966 392	13 093 702	2 558 014	5 995 652	4 540 036	X	X	X	X
33441	Semiconductor & other electronic component mfg	2001	14 318 122	2 753 020	5 609 672	5 955 430	18 952 735	3 368 917	7 185 434	8 398 383	3	5	4	3
		2000	19 333 247	3 463 514	7 330 650	8 539 083	14 930 199	3 427 797	5 989 614	5 512 788	2	3	2	2
		1999	15 377 751	3 467 514	6 210 213	5 700 024	13 671 841	3 112 740	5 794 632	4 764 469	2	4	2	3
		1998	14 005 407	3 279 563	5 923 413	4 802 431	14 433 813	2 976 965	6 532 154	4 924 693	1	1	1	1
		1997	13 974 081	2 782 513	6 225 176	4 966 392	13 093 702	2 558 014	5 995 652	4 540 036	X	X	X	X
334411	Electron tube mfg	2001	400 823	162 916	119 587	118 319	552 554	272 387	142 265	137 903	1	1	1	1
		2000	518 264	251 680	131 141	135 444	516 820	210 411	147 688	158 721	1	1	1	1
		1999	540 247	215 864	162 809	161 574	513 403	172 880	171 767	168 756	1	1	1	1
		1998	517 767	194 329	148 490	174 948	536 389	181 682	171 131	183 576	1	1	1	1
		1997	547 074	178 965	181 597	186 512	483 165	159 978	148 550	174 637	X	X	X	X
334412	Bare printed circuit board mfg	2001	1 079 892	176 964	324 511	578 417	1 351 944	216 414	501 536	633 995	5	6	5	6
		2000	1 470 979	268 228	522 925	679 826	1 108 986	250 515	391 460	467 010	6	8	8	5
		1999	1 104 885	250 090	390 591	464 204	889 564	183 691	337 775	368 099	6	11	8	6
		1998	798 052	163 992	313 999	320 061	726 566	109 529	313 018	304 019	2	1	2	4
		1997	703 527	117 732	292 425	293 370	619 393	87 659	280 457	251 277	X	X	X	X
334413	Semiconductor & related device mfg	2001	5 892 953	1 228 168	3 542 769	1 122 015	6 558 206	1 468 828	3 658 071	1 431 306	6	10	5	6
		2000	7 310 167	1 640 358	4 086 210	1 583 599	6 273 808	1 576 670	3 487 104	1 210 035	4	6	3	7
		1999	6 581 358	1 577 889	3 650 169	1 353 300	6 132 514	1 496 172	3 461 134	1 175 207	3	8	2	8
		1998	6 190 223	1 525 910	3 548 479	1 115 834	6 289 680	1 520 564	3 518 321	1 250 796	1	2	1	2
		1997	5 748 975	1 321 919	3 270 305	1 156 751	4 923 118	1 085 446	2 795 953	1 041 719	X	X	X	X
334414	Electronic capacitor mfg	2001	507 096	130 040	84 596	292 460	506 112	136 374	130 358	239 380	4	5	3	5
		2000	505 916	134 721	131 335	239 860	373 283	110 821	91 514	170 948	3	2	6	4
		1999	371 235	110 915	89 913	170 407	375 236	124 808	93 066	157 362	3	4	6	2
		1998	398 795	131 375	99 652	167 769	389 997	126 123	103 378	160 497	1	2	3	1
		1997	435 506	149 527	109 717	176 262	372 133	113 304	104 128	154 701	X	X	X	X
334415	Electronic resistor mfg	2001	186 404	71 935	53 092	61 377	200 126	80 465	52 902	66 758	5	2	13	5
		2000	192 992	78 813	52 027	62 152	158 438	63 994	48 119	46 325	5	2	13	5
		1999	176 997	68 714	57 805	50 478	171 285	65 290	56 562	49 432	2	2	2	5
		1998	177 330	67 078	52 491	57 761	172 876	65 305	54 818	52 753	3	5	1	3
		1997	182 292	71 325	54 880	56 087	199 692	84 120	58 237	57 335	X	X	X	X
334416	Electronic coil, transformer, & other inductor mfg	2001	203 853	65 992	30 301	107 560	221 443	63 645	38 476	119 322	4	6	6	5
		2000	205 830	62 339	34 146	109 345	176 591	47 290	30 791	98 509	5	13	7	5
		1999	177 012	47 153	31 096	98 763	178 687	42 540	33 147	103 000	3	6	7	4
		1998	211 052	50 893	45 128	115 030	194 045	48 680	41 753	103 611	2	6	4	2
		1997	185 051	46 710	39 168	99 173	185 536	44 925	38 853	101 758	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
334	Computer & electronic product mfg—Con.													
3344	Semiconductor & other electronic component mfg—Con.													
33441	Semiconductor & other electronic component mfg—Con.													
334417	Electronic connector mfg	2001	687 029	145 752	193 793	347 483	718 096	151 857	261 571	304 668	5	11	8	7
		2000	721 985	155 554	261 333	305 098	631 812	161 311	215 486	255 014	4	9	5	7
		1999	653 441	170 816	226 720	255 904	635 766	160 254	241 940	233 571	5	9	9	4
		1998	716 438	199 373	258 479	258 586	703 451	191 945	264 833	246 673	1	3	3	2
		1997	731 479	194 516	291 655	245 308	724 203	204 550	277 224	242 429	X	X	X	X
334418	Printed circuit assembly (electronic assembly) mfg	2001	3 808 329	485 012	836 640	2 486 678	6 708 252	593 554	1 676 102	4 438 596	6	9	10	6
		2000	6 559 230	572 256	1 615 774	4 371 200	4 120 532	697 685	1 124 536	2 298 310	4	8	6	4
		1999	4 122 612	691 632	1 124 385	2 306 595	3 219 884	607 711	931 860	1 680 313	3	4	4	4
		1998	3 351 859	641 268	969 116	1 741 475	3 750 988	441 663	1 558 506	1 750 819	2	2	3	3
		1997	3 730 561	384 860	1 506 296	1 839 405	4 073 845	500 917	1 784 652	1 788 276	X	X	X	X
334419	Other electronic component mfg	2001	1 551 743	286 240	424 383	841 120	2 136 001	385 393	724 154	1 026 454	4	11	5	4
		2000	1 847 883	299 565	495 758	1 052 560	1 569 929	309 098	452 916	807 915	6	11	7	6
		1999	1 649 964	334 442	476 725	838 797	1 555 503	259 395	467 381	828 727	8	20	7	7
		1998	1 643 892	305 345	487 579	850 968	1 669 822	291 475	506 397	871 950	1	3	1	1
		1997	1 709 616	316 959	479 133	913 524	1 512 617	277 115	507 598	727 904	X	X	X	X
3345	Navigational, measuring, medical, & control instruments mfg	2001	16 395 944	3 725 401	6 341 547	6 328 996	16 387 367	3 733 077	6 393 372	6 260 917	1	1	1	1
		2000	16 781 670	3 812 752	6 571 300	6 397 617	15 792 206	3 423 588	6 741 688	5 626 930	1	1	1	1
		1999	15 733 567	3 436 277	6 676 857	5 620 433	15 389 684	3 373 099	6 706 120	5 310 465	1	1	1	1
		1998	15 992 526	3 460 458	7 061 301	5 470 766	15 582 948	3 169 858	7 303 845	5 109 244	1	2	1	1
		1997	15 386 427	3 047 952	7 232 371	5 106 104	15 296 512	2 934 069	7 728 053	4 634 390	X	X	X	X
33451	Navigational, measuring, medical, & control instruments mfg	2001	16 395 944	3 725 401	6 341 547	6 328 996	16 387 367	3 733 077	6 393 372	6 260 917	1	1	1	1
		2000	16 781 670	3 812 752	6 571 300	6 397 617	15 792 206	3 423 588	6 741 688	5 626 930	1	1	1	1
		1999	15 733 567	3 436 277	6 676 857	5 620 433	15 389 684	3 373 099	6 706 120	5 310 465	1	1	1	1
		1998	15 992 526	3 460 458	7 061 301	5 470 766	15 582 948	3 169 858	7 303 845	5 109 244	1	2	1	1
		1997	15 386 427	3 047 952	7 232 371	5 106 104	15 296 512	2 934 069	7 728 053	4 634 390	X	X	X	X
334510	Electromedical & electrotherapeutic apparatus mfg	2001	2 163 610	818 311	469 663	875 636	2 068 501	814 755	424 827	828 919	2	3	3	3
		2000	2 104 447	838 507	416 938	849 002	2 015 649	774 258	393 306	848 084	2	3	3	3
		1999	1 965 119	743 289	389 162	832 668	1 966 123	726 289	438 868	800 966	2	2	2	2
		1998	2 191 912	863 248	482 353	846 311	2 044 330	797 958	427 890	818 482	4	9	7	2
		1997	2 064 106	796 751	430 835	836 520	1 982 316	768 527	426 039	787 750	X	X	X	X
334511	Search, detection, navigation, & guidance instrument mfg	2001	5 576 129	498 124	3 832 573	1 245 432	5 631 255	491 411	3 855 190	1 284 654	1	3	1	2
		2000	5 950 328	495 425	4 049 400	1 405 504	6 169 100	495 489	4 317 694	1 355 917	1	3	1	2
		1999	6 025 290	491 377	4 223 632	1 310 281	5 949 874	457 222	4 201 395	1 291 257	1	3	1	2
		1998	6 207 257	427 813	4 476 061	1 303 384	6 159 442	370 545	4 653 461	1 135 436	1	2	1	1
		1997	6 159 390	381 215	4 662 554	1 115 621	6 487 198	337 641	5 160 971	988 586	X	X	X	X
334512	Automatic environmental control mfg	2001	358 198	108 181	120 966	129 050	369 287	106 829	125 776	136 681	4	5	8	4
		2000	381 194	107 607	131 000	142 587	388 000	109 101	140 199	138 701	3	5	5	4
		1999	422 813	126 353	148 126	148 333	433 190	139 544	170 606	123 039	4	7	5	4
		1998	433 452	128 384	168 644	136 424	411 127	111 253	162 290	137 584	5	3	5	8
		1997	390 108	104 403	154 692	131 013	373 922	133 207	137 468	103 247	X	X	X	X
334513	Industrial process control instrument mfg	2001	1 284 621	338 588	293 083	652 950	1 286 770	351 077	326 241	609 453	3	4	4	3
		2000	1 307 826	362 496	333 139	612 191	1 244 394	367 442	306 803	570 149	3	6	3	2
		1999	1 299 055	372 048	321 992	605 014	1 316 552	391 781	323 468	601 303	2	6	3	2
		1998	1 258 009	357 501	313 854	586 653	1 242 092	278 140	353 256	610 696	2	3	3	2
		1997	1 258 976	271 422	336 347	651 207	1 240 356	292 828	334 380	613 148	X	X	X	X
334514	Totalizing fluid meter & counting device mfg	2001	362 255	59 512	80 540	222 203	355 089	55 542	76 623	222 923	9	18	11	11
		2000	424 873	65 732	109 314	249 827	334 896	46 387	115 088	173 422	6	13	8	8
		1999	340 790	47 591	116 924	176 275	316 742	57 734	116 073	142 936	6	17	7	9
		1998	310 219	64 029	123 408	122 782	321 915	66 509	115 746	139 660	1	1	2	1
		1997	317 549	67 258	108 631	141 660	312 684	63 557	119 905	129 222	X	X	X	X
334515	Electricity measuring & testing instrument mfg	2001	2 923 716	749 246	712 885	1 461 585	3 042 097	761 125	688 562	1 592 410	2	2	3	3
		2000	3 030 302	772 948	686 916	1 570 438	2 364 870	599 113	690 227	1 075 530	2	2	3	3
		1999	2 480 835	681 463	723 471	1 075 901	2 260 683	610 382	697 481	952 820	2	2	2	2
		1998	2 390 582	646 918	723 806	1 019 858	2 424 761	641 891	807 080	975 790	1	1	2	2
		1997	2 297 057	571 540	768 750	956 767	2 098 482	469 558	763 204	865 720	X	X	X	X
334516	Analytical laboratory instrument mfg	2001	1 335 666	372 481	184 992	778 193	1 291 398	396 465	228 291	666 642	4	5	7	4
		2000	1 271 695	398 012	225 132	648 550	1 137 608	368 189	202 842	566 577	4	4	8	4
		1999	1 127 560	335 388	215 204	576 969	1 071 988	344 315	216 587	511 086	3	3	7	3
		1998	1 079 131	349 505	201 138	528 487	1 071 510	353 311	212 933	505 266	1	1	2	1
		1997	1 064 297	350 331	211 365	502 601	1 056 030	374 074	223 677	458 279	X	X	X	X
334517	Irradiation apparatus mfg	2001	850 417	243 578	232 171	374 668	845 250	275 499	235 330	334 421	4	6	6	4
		2000	814 883	260 220	223 550	331 112	815 545	270 482	219 620	325 443	4	4	8	4
		1999	737 060	216 325	208 927	311 808	789 888	265 747	195 666	328 474	5	5	9	4
		1998	801 610	255 516	206 591	339 503	722 455	220 530	213 782	288 144	1	2	2	2
		1997	660 457	181 860	206 282	272 315	634 720	199 523	198 912	236 285	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
334	Computer & electronic product mfg—Con.													
3345	Navigational, measuring, medical, & control instruments mfg—Con.													
33451	Navigational, measuring, medical, & control instruments mfg—Con.													
334518	Watch, clock, & part mfg	2001	183 593	103 993	54 644	24 956	190 744	92 265	65 991	32 487	8	3	9	39
		2000	197 974	105 027	66 354	26 594	188 507	106 976	59 123	22 409	5	9	8	37
		1999	206 508	119 560	60 734	26 214	169 310	88 388	45 794	35 127	4	13	8	32
		1998	196 221	93 197	62 750	40 274	190 771	93 272	60 323	37 176	2	2	4	1
		1997	181 429	83 805	59 522	38 102	170 870	84 264	49 432	37 174	X	X	X	X
334519	Other measuring & controlling device mfg	2001	1 357 740	433 389	360 029	564 322	1 306 977	388 109	366 541	552 327	3	6	5	4
		2000	1 298 148	406 779	329 556	561 813	1 133 637	286 152	296 786	550 699	3	5	4	4
		1999	1 128 536	302 883	268 685	556 968	1 115 335	291 696	300 182	523 457	3	5	4	4
		1998	1 124 133	274 347	302 697	547 089	994 544	236 450	297 085	461 010	2	4	3	2
		1997	993 058	239 367	293 393	460 298	939 934	210 890	314 065	414 979	X	X	X	X
3346	Mfg & reproducing magnetic & optical media	2001	495 835	150 911	69 524	275 400	617 027	200 714	93 741	322 573	5	6	9	6
		2000	547 138	153 171	88 070	305 898	557 028	151 237	96 673	309 118	5	4	7	5
		1999	596 770	173 827	99 310	323 633	670 922	209 597	106 509	354 815	4	3	7	4
		1998	879 417	282 024	136 591	460 802	881 516	282 784	140 656	458 075	2	4	1	1
		1997	835 617	271 443	123 225	440 949	791 425	264 470	120 319	406 636	X	X	X	X
33461	Mfg & reproducing magnetic & optical media	2001	495 835	150 911	69 524	275 400	617 027	200 714	93 741	322 573	5	6	9	6
		2000	547 138	153 171	88 070	305 898	557 028	151 237	96 673	309 118	5	4	7	5
		1999	596 770	173 827	99 310	323 633	670 922	209 597	106 509	354 815	4	3	7	4
		1998	879 417	282 024	136 591	460 802	881 516	282 784	140 656	458 075	2	4	1	1
		1997	835 617	271 443	123 225	440 949	791 425	264 470	120 319	406 636	X	X	X	X
334611	Software reproducing	2001	15 864	S	1 810	14 062	15 688	2 232	3 435	10 021	68	A	62	62
		2000	13 059	1 872	2 778	8 409	14 768	2 139	3 255	9 374	39	A	24	36
		1999	19 464	4 109	3 511	11 845	14 122	2 847	1 418	9 857	20	61	18	17
		1998	179 931	69 764	30 173	79 994	164 799	58 098	29 802	76 899	7	16	3	3
		1997	58 946	19 290	7 671	31 985	62 872	20 032	8 017	34 823	X	X	X	X
334612	Prerecorded CD (except software), tape, & record reproducing	2001	212 964	58 990	28 100	125 873	249 451	61 740	40 324	147 387	6	11	15	5
		2000	227 498	59 961	34 556	132 981	207 105	56 380	31 534	119 192	6	6	15	5
		1999	206 911	62 182	27 600	117 129	203 976	68 758	25 924	109 294	5	4	22	3
		1998	204 714	71 056	24 689	108 969	206 376	81 216	20 637	104 523	1	3	2	1
		1997	201 216	76 359	20 088	104 769	223 779	87 202	28 267	108 310	X	X	X	X
334613	Magnetic & optical recording media mfg	2001	267 007	91 928	39 614	135 465	351 889	136 742	49 982	165 165	7	5	10	9
		2000	306 582	91 338	50 736	164 508	335 154	92 718	61 883	180 553	6	5	7	8
		1999	370 395	107 536	68 199	194 659	452 824	137 993	79 167	235 664	5	4	5	6
		1998	494 772	141 203	81 729	271 839	510 341	143 471	90 217	276 653	1	1	1	1
		1997	575 455	175 794	95 466	304 195	504 774	157 236	84 035	263 503	X	X	X	X
335	Electrical equipment, appliance, & component mfg	2001	13 486 653	4 878 360	3 170 019	5 438 274	14 434 039	5 125 825	3 510 437	5 797 777	1	1	2	1
		2000	14 504 531	5 158 812	3 544 472	5 801 246	13 546 569	4 861 878	3 401 310	5 283 381	1	1	1	1
		1999	13 511 857	4 946 885	3 351 740	5 213 233	13 503 471	5 022 684	3 395 065	5 085 722	1	1	1	1
		1998	13 712 651	5 096 507	3 317 761	5 298 383	13 486 823	4 839 158	3 432 587	5 215 078	1	1	2	2
		1997	13 529 479	4 835 398	3 474 394	5 219 687	13 029 124	4 778 099	3 445 055	4 805 970	X	X	X	X
3351	Electric lighting equipment mfg	2001	1 496 851	483 946	202 254	810 651	1 574 038	521 735	200 886	851 417	5	10	6	4
		2000	1 578 240	532 425	203 904	841 911	1 450 380	470 713	189 211	790 455	5	9	5	5
		1999	1 500 496	491 769	202 927	805 800	1 529 749	566 258	194 680	768 811	4	10	5	4
		1998	1 499 376	546 442	197 935	754 998	1 486 028	574 389	194 366	717 273	2	2	5	3
		1997	1 523 516	585 665	199 208	738 643	1 449 911	575 211	188 273	686 427	X	X	X	X
33511	Electric lamp bulb & part mfg	2001	139 565	37 651	23 734	78 180	151 958	38 189	22 626	91 144	42	A	24	22
		2000	142 382	34 627	22 854	84 901	142 231	19 862	22 507	99 862	41	A	26	20
		1999	146 394	13 969	30 709	101 716	174 298	72 662	23 731	77 906	35	A	23	23
		1998	225 563	100 029	28 504	97 030	250 366	124 181	25 492	100 693	1	1	1	1
		1997	248 761	123 904	25 498	99 359	250 386	129 723	20 224	100 439	X	X	X	X
335110	Electric lamp bulb & part mfg	2001	139 565	37 651	23 734	78 180	151 958	38 189	22 626	91 144	42	A	24	22
		2000	142 382	34 627	22 854	84 901	142 231	19 862	22 507	99 862	41	A	26	20
		1999	146 394	13 969	30 709	101 716	174 298	72 662	23 731	77 906	35	A	23	23
		1998	225 563	100 029	28 504	97 030	250 366	124 181	25 492	100 693	1	1	1	1
		1997	248 761	123 904	25 498	99 359	250 386	129 723	20 224	100 439	X	X	X	X
33512	Lighting fixture mfg	2001	1 357 286	446 295	178 519	732 472	1 422 079	483 546	178 260	760 273	3	6	5	4
		2000	1 435 858	497 798	181 050	757 010	1 308 149	450 852	166 704	690 594	3	6	5	5
		1999	1 354 102	477 800	172 218	704 084	1 355 451	493 596	170 949	690 906	2	4	5	3
		1998	1 273 812	446 413	169 431	657 968	1 235 662	450 208	168 874	616 579	2	2	6	3
		1997	1 274 755	461 761	173 710	639 284	1 199 525	445 488	168 049	585 988	X	X	X	X
335121	Residential electric lighting fixture mfg	2001	345 489	169 009	28 532	147 947	384 506	177 831	29 720	176 955	6	9	17	13
		2000	393 833	181 888	30 390	181 555	345 017	156 614	35 599	152 804	8	12	15	16
		1999	351 827	151 413	36 591	163 823	361 115	156 814	39 257	165 044	4	5	13	6
		1998	387 683	144 185	43 287	200 211	393 437	160 532	44 649	188 256	3	3	2	3
		1997	389 066	159 261	43 172	186 633	368 299	162 331	41 183	164 785	X	X	X	X
335122	Commercial/industrial/ institutional electric lighting fixture mfg	2001	511 988	143 177	71 115	297 696	531 601	153 875	73 879	303 847	7	14	8	8
		2000	531 202	164 238	75 903	291 061	508 027	148 225	74 417	285 385	5	11	6	7
		1999	526 302	156 503	76 154	293 645	508 431	153 453	74 505	280 473	5	11	6	7
		1998	495 752	169 453	75 824	250 476	478 162	166 776	70 756	240 630	2	1	2	4
		1997	491 088	172 402	71 880	246 806	461 127	160 357	70 673	230 097	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
335	Electrical equipment, appliance, & component mfg—Con.													
3351	Electric lighting equipment mfg—Con.													
33512	Lighting fixture mfg—Con.													
335129	Other lighting equipment mfg	2001	499 809	134 109	78 872	286 828	505 972	151 840	74 661	279 472	2	5	8	3
		2000	510 824	151 672	74 758	284 394	455 106	146 012	56 688	252 405	2	4	8	3
		1999	475 973	169 885	59 473	246 616	485 905	183 329	57 187	245 389	2	3	9	2
		1998	390 377	132 775	50 320	207 282	364 062	122 900	53 469	187 693	6	5	19	7
		1997	394 601	130 098	58 658	205 845	370 099	122 800	56 193	191 106	X	X	X	X
3352	Household appliance mfg	2001	1 961 693	1 157 908	215 107	588 677	2 139 820	1 300 039	223 724	616 058	2	2	4	5
		2000	2 164 612	1 312 214	225 809	626 589	2 183 571	1 299 172	276 263	608 136	2	2	3	3
		1999	2 111 248	1 288 875	248 595	573 778	2 119 202	1 280 934	258 365	579 903	1	2	4	3
		1998	2 243 288	1 315 706	273 670	653 913	2 098 225	1 192 806	256 725	648 695	3	2	1	5
		1997	2 131 992	1 202 972	266 947	662 073	2 082 917	1 200 421	289 291	593 205	X	X	X	X
33521	Small electrical appliance mfg	2001	598 757	352 365	81 812	164 580	638 259	362 426	89 123	186 710	7	7	7	15
		2000	649 991	367 784	90 014	192 193	669 155	367 705	102 342	199 109	4	4	4	6
		1999	620 432	341 605	90 611	188 216	634 214	329 698	99 066	205 450	3	4	3	5
		1998	744 844	389 781	126 653	228 410	705 368	382 530	112 515	210 323	3	2	2	6
		1997	705 805	381 304	114 766	209 735	687 374	392 738	115 455	179 181	X	X	X	X
335211	Electric housewares & household fan mfg	2001	313 792	170 813	28 464	114 515	335 362	169 211	35 490	130 662	13	14	21	21
		2000	351 504	177 604	36 869	137 030	367 084	183 751	39 544	143 789	7	9	10	8
		1999	344 871	167 849	35 574	141 448	399 343	185 987	52 767	160 589	6	7	8	7
		1998	447 816	213 311	66 819	167 687	444 884	228 343	61 640	154 901	5	3	4	8
		1997	460 506	234 970	63 697	161 839	437 568	235 526	69 175	132 867	X	X	X	X
335212	Household vacuum cleaner mfg	2001	284 965	181 551	53 348	50 065	302 897	193 216	53 633	56 048	1	1	1	3
		2000	298 487	190 180	53 144	55 163	302 071	183 954	62 797	55 320	2	2	1	4
		1999	275 561	173 756	55 037	46 767	234 872	143 711	46 299	44 861	2	1	1	6
		1998	297 028	176 470	59 835	60 723	260 484	154 187	50 875	55 422	1	1	1	1
		1997	245 299	146 334	51 069	47 896	249 806	157 212	46 280	46 314	X	X	X	X
33522	Major appliance mfg	2001	1 362 935	805 544	133 295	424 096	1 501 561	937 613	134 601	429 348	1	2	5	3
		2000	1 514 621	944 430	135 796	434 396	1 514 416	931 467	173 922	409 027	2	2	5	3
		1999	1 490 816	947 270	157 984	385 562	1 484 988	951 236	159 299	374 453	1	2	5	3
		1998	1 498 444	925 925	147 016	425 503	1 392 857	810 275	144 210	438 372	4	2	1	7
		1997	1 426 187	821 668	152 181	452 338	1 395 543	807 683	173 836	414 024	X	X	X	X
335221	Household cooking appliance mfg	2001	334 261	174 108	45 147	115 006	368 764	189 610	46 688	132 466	3	4	14	7
		2000	369 132	190 072	46 686	132 374	409 952	205 501	83 701	120 750	3	4	14	6
		1999	406 187	229 574	68 193	108 420	439 143	255 086	68 995	115 063	2	2	12	6
		1998	476 368	254 876	57 229	164 262	378 587	180 190	51 404	146 993	11	9	2	18
		1997	407 396	188 320	56 469	162 607	415 310	196 346	69 834	149 130	X	X	X	X
335222	Household refrigerator & home freezer mfg	2001	483 155	305 236	27 802	150 117	595 580	445 796	25 251	124 533	1	1	1	1
		2000	608 582	452 340	26 485	129 757	479 054	322 838	26 711	129 505	1	1	1	1
		1999	467 616	317 502	26 255	123 859	435 071	299 212	26 213	109 646	1	1	1	1
		1998	429 629	296 847	22 617	110 165	412 699	265 044	21 457	126 198	1	1	1	1
		1997	419 351	269 047	24 047	126 257	396 889	261 505	33 883	101 501	X	X	X	X
335224	Household laundry equipment mfg	2001	265 066	171 417	31 148	62 501	241 001	139 694	31 192	70 115	1	1	1	1
		2000	240 861	139 579	31 179	70 103	361 250	264 732	32 243	64 275	1	1	1	1
		1999	360 172	264 993	32 259	62 921	356 445	262 664	31 132	62 649	1	1	1	1
		1998	362 007	263 871	31 857	66 279	369 454	259 469	33 962	76 023	1	1	1	1
		1997	368 146	259 321	34 279	74 546	341 830	236 562	30 744	74 524	X	X	X	X
335228	Other major household appliance mfg	2001	280 453	154 783	29 198	96 472	296 216	162 513	31 469	102 234	6	7	3	12
		2000	296 046	162 439	31 445	102 162	264 159	138 396	31 267	94 497	8	10	2	11
		1999	256 841	135 201	31 277	90 363	254 329	134 274	32 960	87 096	8	12	2	9
		1998	230 440	110 330	35 314	84 796	232 117	105 572	37 387	89 158	1	1	1	1
		1997	231 294	104 980	37 386	88 928	241 514	113 270	39 375	88 869	X	X	X	X
3353	Electrical equipment mfg	2001	4 400 613	1 206 667	1 269 969	1 923 977	4 587 826	1 286 335	1 346 178	1 955 312	2	2	5	2
		2000	4 554 007	1 264 818	1 341 502	1 947 687	4 472 558	1 253 748	1 352 571	1 866 239	2	2	3	2
		1999	4 333 379	1 246 076	1 303 132	1 784 172	4 316 473	1 263 277	1 352 684	1 700 511	1	1	2	2
		1998	4 168 060	1 260 058	1 239 653	1 668 349	4 264 201	1 151 229	1 334 701	1 778 271	2	2	4	5
		1997	4 293 742	1 170 423	1 353 384	1 769 935	4 224 757	1 157 927	1 368 909	1 697 921	X	X	X	X
33531	Electrical equipment mfg	2001	4 400 613	1 206 667	1 269 969	1 923 977	4 587 826	1 286 335	1 346 178	1 955 312	2	2	5	2
		2000	4 554 007	1 264 818	1 341 502	1 947 687	4 472 558	1 253 748	1 352 571	1 866 239	2	2	3	2
		1999	4 333 379	1 246 076	1 303 132	1 784 172	4 316 473	1 263 277	1 352 684	1 700 511	1	1	2	2
		1998	4 168 060	1 260 058	1 239 653	1 668 349	4 264 201	1 151 229	1 334 701	1 778 271	2	2	4	5
		1997	4 293 742	1 170 423	1 353 384	1 769 935	4 224 757	1 157 927	1 368 909	1 697 921	X	X	X	X
335311	Power, distribution, & specialty transformer mfg	2001	545 957	158 964	130 060	256 932	625 950	209 719	151 204	265 027	6	3	8	12
		2000	624 153	211 013	151 738	261 401	523 074	168 873	145 607	208 594	6	3	8	13
		1999	527 097	167 903	146 603	212 590	518 305	165 681	136 564	216 059	3	4	12	7
		1998	509 585	181 671	128 194	199 720	531 651	138 560	156 095	236 996	6	12	6	14
		1997	527 690	136 394	165 160	226 136	510 448	124 144	166 066	220 238	X	X	X	X
335312	Motor & generator mfg	2001	1 357 682	489 963	334 643	533 076	1 403 836	488 642	349 245	565 949	2	5	2	3
		2000	1 373 362	485 198	336 954	551 209	1 364 694	489 156	353 140	522 398	2	5	3	3
		1999	1 410 435	517 700	364 295	528 440	1 337 244	510 075	362 219	464 949	2	3	2	2
		1998	1 280 605	487 578	392 311	400 715	1 321 648	425 806	402 821	493 021	5	3	9	20
		1997	1 376 838	450 859	422 444	503 535	1 397 817	478 239	418 763	500 815	X	X	X	X
335313	Switchgear & switchboard apparatus mfg	2001	1 021 514	211 806	357 965	451 742	988 912	233 186	340 686	415 040	7	3	17	4
		2000	996 970	226 833	343 411	426 726	1 045 769	244 569	338 961	462 239	4	5	9	3
		1999	852 527	206 042	276 548	369 938	831 666	204 738	271 535	355 392	2	1	3	4
		1998	870 808	214 367	265 371	391 070	806 378	194 380	251 044	360 954	3	1	2	4
		1997	798 837	194 100	247 003	357 734	774 108	180 217	260 257	333 634	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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
335	Electrical equipment, appliance, & component mfg—Con.													
3353	Electrical equipment mfg—Con.													
33531	Electrical equipment mfg—Con.													
335314	Relay & industrial control mfg	2001	1 475 461	345 934	447 301	682 226	1 569 129	354 789	505 044	709 296	2	3	3	3
		2000	1 559 522	341 773	509 399	708 350	1 539 021	351 150	514 862	673 008	2	2	2	2
		1999	1 543 320	354 431	515 686	673 203	1 629 258	382 783	582 366	664 110	1	2	2	2
		1998	1 507 062	376 441	453 777	676 844	1 604 524	392 483	524 741	687 300	3	3	8	2
		1997	1 590 377	389 070	518 777	682 530	1 542 384	375 327	523 823	643 234	X	X	X	X
3359	Other electrical equipment & component mfg	2001	5 627 496	2 029 838	1 482 688	2 114 969	6 132 354	2 017 716	1 739 649	2 374 990	1	2	2	2
		2000	6 207 671	2 049 355	1 773 257	2 385 059	5 440 060	1 838 246	1 583 264	2 018 550	1	2	2	2
		1999	5 566 734	1 920 164	1 597 086	2 049 484	5 538 047	1 912 215	1 589 335	2 036 496	1	2	2	1
		1998	5 801 927	1 974 301	1 606 504	2 221 123	5 638 368	1 920 735	1 646 794	2 070 839	1	1	1	2
		1997	5 580 229	1 876 338	1 654 855	2 049 036	5 271 539	1 844 540	1 598 582	1 828 417	X	X	X	X
33591	Battery mfg	2001	595 752	188 016	224 925	182 811	760 895	208 229	322 979	229 687	2	3	3	4
		2000	762 096	211 860	322 237	228 000	692 513	204 429	247 645	240 440	1	3	1	3
		1999	702 299	210 526	254 478	237 296	661 317	226 355	226 754	208 208	1	3	2	2
		1998	673 937	227 060	228 652	218 225	669 757	216 537	257 171	196 048	1	1	1	2
		1997	673 194	218 345	259 744	195 105	675 343	232 758	243 524	199 061	X	X	X	X
335911	Storage battery mfg	2001	391 134	169 181	107 675	114 277	511 759	186 106	174 382	151 272	2	2	5	5
		2000	516 334	190 295	174 897	151 141	492 946	187 364	148 692	156 890	1	2	2	4
		1999	506 095	190 230	156 646	159 220	477 322	190 585	144 878	141 859	1	3	3	2
		1998	486 404	193 026	145 294	148 084	503 610	188 179	176 368	139 062	1	1	1	2
		1997	507 155	190 090	178 887	138 178	521 039	207 110	181 968	131 961	X	X	X	X
335912	Primary battery mfg	2001	204 618	18 835	117 249	68 534	249 136	22 123	148 597	78 416	4	20	2	8
		2000	245 763	21 564	147 340	76 859	199 568	17 065	98 953	83 550	2	15	1	5
		1999	196 204	20 296	97 832	78 076	183 995	35 770	81 875	66 349	2	14	4	5
		1998	187 533	34 034	83 358	70 141	166 147	28 358	80 803	56 986	3	5	1	4
		1997	166 039	28 255	80 857	56 927	154 304	25 648	61 556	67 100	X	X	X	X
33592	Communication & energy wire & cable mfg	2001	1 836 650	847 803	451 594	537 253	1 920 828	810 295	495 040	615 493	2	3	3	4
		2000	1 966 345	807 254	530 365	628 726	1 696 557	724 739	461 409	510 409	2	3	3	4
		1999	1 765 527	809 828	461 914	493 786	1 766 056	776 908	495 822	493 326	2	2	2	2
		1998	1 846 471	817 557	510 605	518 310	1 835 325	821 548	482 769	531 008	1	1	2	3
		1997	1 849 583	812 188	492 705	544 690	1 734 115	782 493	475 163	476 459	X	X	X	X
335921	Fiber optic cable mfg	2001	328 972	94 398	120 073	114 502	364 575	98 979	120 428	145 169	3	5	3	6
		2000	395 307	110 952	136 456	147 899	298 512	94 135	103 032	101 344	4	4	4	6
		1999	307 266	96 115	105 178	105 973	341 335	98 175	134 768	108 392	5	5	4	7
		1998	358 791	112 361	139 673	106 758	352 421	113 743	112 899	125 779	2	2	3	4
		1997	344 653	111 043	111 132	122 478	286 625	76 042	91 580	119 003	X	X	X	X
335929	Other communication & energy wire mfg	2001	1 507 678	753 406	331 522	422 751	1 556 253	711 316	374 612	470 324	3	3	4	5
		2000	1 571 038	696 301	393 909	480 827	1 398 046	630 604	358 377	409 065	3	3	3	5
		1999	1 458 262	713 713	356 736	387 813	1 424 722	678 733	361 054	384 934	2	2	2	3
		1998	1 487 680	705 196	370 932	411 552	1 482 904	707 805	369 870	405 229	1	2	3	3
		1997	1 504 930	701 145	381 573	422 212	1 447 490	706 451	383 583	357 456	X	X	X	X
33593	Wiring device mfg	2001	1 288 641	514 614	264 084	509 943	1 427 650	539 786	321 730	566 134	3	4	3	3
		2000	1 378 738	530 757	299 633	548 348	1 303 439	488 786	293 352	521 301	3	4	4	3
		1999	1 323 538	494 747	291 247	537 544	1 316 375	488 417	272 740	555 218	2	4	3	2
		1998	1 412 162	515 072	266 722	630 369	1 408 037	519 162	295 600	593 274	1	3	4	3
		1997	1 326 844	487 699	289 001	550 144	1 298 058	489 691	293 920	514 447	X	X	X	X
335931	Current-carrying wiring device mfg	2001	658 510	224 988	145 919	287 602	735 377	227 145	194 847	313 385	5	7	5	6
		2000	724 065	226 739	192 537	304 788	704 190	219 904	173 851	310 434	5	7	6	5
		1999	711 747	222 388	171 187	318 172	720 468	218 628	172 789	329 051	4	6	5	3
		1998	791 454	230 480	186 302	374 672	784 487	235 023	197 329	352 134	2	5	2	4
		1997	726 650	215 442	192 396	318 812	704 636	212 218	193 362	299 056	X	X	X	X
335932	Noncurrent-carrying wiring device mfg	2001	630 131	289 626	118 165	222 341	692 273	312 641	126 883	252 750	3	5	2	2
		2000	654 673	304 018	107 096	243 560	599 249	268 881	119 501	210 867	3	6	3	2
		1999	611 791	272 359	120 060	219 372	595 907	269 789	99 951	226 167	3	6	3	2
		1998	620 708	284 592	80 419	255 697	623 550	284 139	98 271	241 140	1	2	12	4
		1997	600 194	272 257	96 605	231 332	593 422	277 473	100 558	215 391	X	X	X	X
33599	All other electrical equipment & component mfg	2001	1 906 452	479 405	542 085	884 962	2 022 981	459 406	599 900	963 675	3	4	3	4
		2000	2 100 492	499 485	621 022	979 986	1 747 551	420 292	580 858	746 401	3	4	3	4
		1999	1 775 370	405 063	589 448	780 858	1 794 299	420 535	594 019	779 744	2	2	4	3
		1998	1 869 357	414 613	600 525	854 219	1 725 250	363 487	611 254	750 509	1	2	2	3
		1997	1 730 608	358 106	613 405	759 097	1 564 023	339 598	585 975	638 450	X	X	X	X
335991	Carbon & graphite product mfg	2001	405 854	116 343	180 725	108 786	410 139	100 064	194 542	115 534	3	5	3	7
		2000	419 677	104 458	196 696	118 524	435 445	107 946	196 259	131 241	3	6	3	9
		1999	438 028	112 832	195 602	129 594	509 959	147 538	221 235	141 186	2	4	3	4
		1998	526 219	147 816	230 819	147 585	487 847	120 253	225 837	141 757	2	1	1	4
		1997	503 701	120 957	236 978	145 766	449 281	113 143	221 575	114 563	X	X	X	X
335999	All other miscellaneous electrical equipment & component mfg	2001	1 500 598	363 061	361 361	776 176	1 612 842	359 343	405 358	848 141	3	5	5	4
		2000	1 680 815	395 027	424 326	861 462	1 312 106	312 347	384 600	615 159	3	5	5	4
		1999	1 337 342	292 232	393 846	651 264	1 284 340	272 997	372 785	638 559	3	2	7	4
		1998	1 343 138	266 797	369 706	706 635	1 237 403	243 234	385 417	608 752	2	2	3	4
		1997	1 226 907	237 149	376 427	613 331	1 114 742	226 455	364 400	523 887	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
336	Transportation equipment mfg	2001	67 188 498	11 385 520	38 093 639	17 709 339	68 602 225	11 128 802	38 250 321	19 223 102	1	2	1	1
		2000	69 199 784	11 140 583	38 630 912	19 428 289	75 060 519	10 619 447	45 630 070	18 811 002	1	2	1	1
		1999	76 780 713	10 781 168	46 960 445	19 039 101	77 014 723	10 480 521	47 722 502	18 811 700	1	2	1	1
		1998	75 962 396	9 577 712	48 513 022	17 871 662	66 182 318	9 098 585	40 578 457	16 505 276	1	1	1	1
		1997	66 411 837	9 417 828	40 382 181	16 611 828	65 287 222	8 337 030	41 299 655	15 650 537	X	X	X	X
3361	Motor vehicle mfg	2001	4 278 701	453 207	1 578 618	2 246 876	4 838 937	586 127	1 721 879	2 530 931	1	1	1	1
		2000	4 840 102	578 263	1 725 245	2 536 594	4 732 344	399 970	1 689 579	2 642 795	1	1	1	1
		1999	4 701 698	396 669	1 682 524	2 622 505	4 445 975	410 500	1 620 383	2 415 092	1	1	1	1
		1998	4 349 305	378 694	1 588 119	2 382 493	4 629 570	491 538	1 624 955	2 513 077	1	1	1	1
		1997	4 606 220	480 031	1 581 413	2 544 776	4 278 740	357 820	1 473 615	2 447 305	X	X	X	X
33611	Automobile & light duty motor vehicle mfg	2001	3 511 199	312 138	1 310 473	1 888 587	3 813 442	329 449	1 431 015	2 052 979	1	1	1	1
		2000	3 823 614	330 835	1 434 465	2 058 313	3 655 145	254 358	1 329 590	2 071 197	1	1	1	1
		1999	3 624 182	251 107	1 320 911	2 052 164	3 474 456	254 307	1 309 655	1 910 495	1	1	1	1
		1998	3 469 508	260 417	1 291 468	1 917 623	3 814 122	344 021	1 365 164	2 104 937	1	1	1	1
		1997	3 804 485	337 125	1 363 860	2 103 500	3 599 166	246 988	1 274 550	2 077 628	X	X	X	X
336111	Automobile mfg	2001	1 748 723	161 633	459 521	1 127 568	1 872 830	159 986	490 369	1 222 476	1	1	1	1
		2000	1 873 980	160 160	490 703	1 223 118	1 841 821	155 978	475 601	1 210 242	1	1	1	1
		1999	1 843 657	156 240	476 160	1 211 257	1 790 411	162 030	460 393	1 167 989	1	1	1	1
		1998	1 910 828	180 578	452 524	1 277 725	2 202 946	210 208	555 774	1 436 964	1	1	1	1
		1997	2 193 552	203 442	554 694	1 435 416	2 185 429	133 444	509 334	1 542 651	X	X	X	X
336112	Light truck & utility vehicle mfg	2001	1 762 475	150 505	850 952	761 019	1 940 612	169 463	940 646	830 503	1	1	1	1
		2000	1 949 633	170 676	943 762	835 195	1 813 324	98 380	853 989	860 955	1	1	1	1
		1999	1 780 524	94 867	844 751	840 907	1 684 045	92 277	849 262	742 506	1	1	1	1
		1998	1 558 681	79 839	838 944	639 898	1 611 176	133 813	809 390	667 973	1	1	1	1
		1997	1 610 933	133 683	809 166	668 084	1 413 737	113 544	765 216	534 977	X	X	X	X
33612	Heavy duty truck mfg	2001	767 503	141 069	268 145	358 288	1 025 495	256 678	290 865	477 952	1	1	1	1
		2000	1 016 488	247 427	290 780	478 281	1 077 199	145 612	359 989	571 598	1	1	1	1
		1999	1 077 516	145 562	361 613	570 341	971 518	156 193	310 728	504 597	1	1	1	1
		1998	879 797	118 277	296 650	464 869	815 448	147 517	259 791	408 140	1	2	1	1
		1997	801 735	142 906	217 553	441 276	679 574	110 832	199 065	369 677	X	X	X	X
336120	Heavy duty truck mfg	2001	767 503	141 069	268 145	358 288	1 025 495	256 678	290 865	477 952	1	1	1	1
		2000	1 016 488	247 427	290 780	478 281	1 077 199	145 612	359 989	571 598	1	1	1	1
		1999	1 077 516	145 562	361 613	570 341	971 518	156 193	310 728	504 597	1	1	1	1
		1998	879 797	118 277	296 650	464 869	815 448	147 517	259 791	408 140	1	2	1	1
		1997	801 735	142 906	217 553	441 276	679 574	110 832	199 065	369 677	X	X	X	X
3362	Motor vehicle body & trailer mfg	2001	2 983 441	851 081	704 642	1 427 718	3 481 026	975 038	821 900	1 684 088	3	4	4	4
		2000	3 486 980	964 092	817 164	1 705 724	3 246 557	797 373	796 553	1 652 631	5	11	5	3
		1999	3 438 875	859 677	842 483	1 736 714	2 944 846	749 036	704 321	1 491 489	3	8	4	2
		1998	2 755 378	622 286	611 540	1 521 553	2 901 297	666 406	664 420	1 570 472	7	8	20	3
		1997	2 925 889	681 320	660 463	1 584 106	2 678 254	636 209	684 082	1 357 963	X	X	X	X
33621	Motor vehicle body & trailer mfg	2001	2 983 441	851 081	704 642	1 427 718	3 481 026	975 038	821 900	1 684 088	3	4	4	4
		2000	3 486 980	964 092	817 164	1 705 724	3 246 557	797 373	796 553	1 652 631	5	11	5	3
		1999	3 438 875	859 677	842 483	1 736 714	2 944 846	749 036	704 321	1 491 489	3	8	4	2
		1998	2 755 378	622 286	611 540	1 521 553	2 901 297	666 406	664 420	1 570 472	7	8	20	3
		1997	2 925 889	681 320	660 463	1 584 106	2 678 254	636 209	684 082	1 357 963	X	X	X	X
336211	Motor vehicle body mfg	2001	1 233 020	282 903	403 608	546 509	1 349 338	242 814	437 764	668 760	3	9	5	4
		2000	1 353 996	240 138	435 569	678 288	1 233 932	227 294	384 223	622 416	3	10	4	3
		1999	1 346 235	273 787	411 918	660 531	1 168 261	243 570	348 781	575 911	2	6	4	2
		1998	947 096	156 013	230 389	560 694	1 027 675	198 612	341 460	487 603	21	29	53	6
		1997	1 036 720	210 920	338 869	486 931	1 078 686	192 997	361 477	524 212	X	X	X	X
336212	Truck trailer mfg	2001	673 943	182 605	126 597	364 741	770 220	191 681	161 479	417 060	6	9	6	8
		2000	776 069	188 057	165 378	422 635	805 495	162 785	194 976	447 734	4	8	4	5
		1999	820 434	164 117	197 595	458 723	742 608	136 514	177 265	428 829	4	7	5	5
		1998	818 522	172 633	210 802	435 087	956 594	184 366	160 744	611 485	4	15	4	3
		1997	977 163	189 965	155 273	631 925	673 844	153 968	140 827	379 049	X	X	X	X
336213	Motor home mfg	2001	465 484	151 210	89 664	224 610	674 807	261 584	131 074	282 149	10	8	22	11
		2000	693 897	264 160	131 752	297 985	647 860	194 971	139 351	313 538	21	39	25	9
		1999	697 231	201 859	153 351	342 022	499 200	153 046	107 852	238 303	16	33	20	8
		1998	426 625	80 186	91 082	255 357	400 025	88 487	83 704	227 833	1	2	1	1
		1997	403 978	89 010	90 768	224 200	443 846	103 477	102 807	237 562	X	X	X	X
336214	Travel trailer & camper mfg	2001	610 994	234 364	84 773	291 857	686 661	278 959	91 582	316 120	6	7	9	8
		2000	663 018	271 737	84 466	306 816	559 270	212 323	78 004	268 943	8	10	9	8
		1999	574 974	219 915	79 620	275 439	534 776	215 906	70 423	248 447	4	5	8	4
		1998	563 135	213 454	79 266	270 414	517 004	194 941	78 512	243 551	3	4	7	4
		1997	508 028	191 425	75 553	241 050	481 878	185 767	78 971	217 140	X	X	X	X
3363	Motor vehicle parts mfg	2001	12 391 481	3 653 310	3 104 038	5 634 132	13 750 293	3 943 831	3 729 170	6 077 292	3	6	3	3
		2000	13 956 441	3 930 336	3 873 305	6 152 800	13 725 502	3 582 235	3 658 440	6 484 827	3	6	3	2
		1999	13 960 490	3 650 410	3 718 360	6 591 720	13 373 306	3 475 997	3 896 144	6 001 164	2	4	3	2
		1998	13 372 860	3 447 561	4 431 747	5 493 553	12 613 277	3 104 954	4 332 508	5 175 816	1	1	1	1
		1997	12 765 166	3 159 333	4 400 834	5 204 999	13 088 328	3 113 003	4 655 908	5 319 417	X	X	X	X
33631	Motor vehicle gasoline engine & engine parts mfg	2001	1 851 536	424 642	618 937	807 957	2 040 792	441 918	730 914	867 960	2	5	1	2
		2000	2 104 678	445 246	758 581	900 851	2 088 751	408 455	715 625	964 672	2	3	1	3
		1999	2 131 061	421 663	725 574	983 823	1 988 489	422 498	728 271	837 721	1	3	1	2
		1998	2 033 561	459 712	939 728	634 121	1 941 961	455 835	900 823	585 303	1	2	1	1
		1997	1 929 067	431 968	895 279	601 820	2 054 897	392 692	994 931	667 274	X	X	X	X
336311	Carburetor, piston, piston ring, & valve mfg	2001	250 178	94 821	67 009	88 348	277 073	88 997	88 834	99 243	3	4	5	9
		2000	279 416	89 772	89 671	99 973	242 745	75 233	65 789	101 723	2	4	3	8
		1999	246 439	76 336	67 873	102 231	223 236	76 261	78 300	68 675	3	7	4	8
		1998	231 037	81 110	81 067	68 859	216 360	69 573	74 458	72 329	6	11	4	7
		1997	221 560	70 467	76 847	74 246	224 335	73 014	79 104	72 217	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
336	Transportation equipment mfg—Con.													
3363	Motor vehicle parts mfg—Con.													
33631	Motor vehicle gasoline engine & engine parts mfg—Con.													
336312	Gasoline engine & engine parts mfg	2001	1 601 358	329 821	551 928	719 609	1 763 719	352 921	642 081	768 717	2	6	1	2
		2000	1 825 262	355 475	668 909	800 878	1 846 007	333 222	649 837	862 949	2	3	1	3
		1999	1 884 622	345 327	657 702	881 593	1 765 253	346 237	649 971	769 045	1	3	1	1
		1998	1 802 524	378 601	858 661	565 262	1 725 601	386 262	826 365	512 974	1	1	1	1
		1997	1 707 507	361 501	818 432	527 574	1 830 562	319 678	915 827	595 057	X	X	X	X
33632	Motor vehicle electrical & electronic equipment mfg	2001	2 318 575	686 643	420 882	1 211 051	2 372 195	708 967	468 391	1 194 837	4	4	3	6
		2000	2 350 893	691 843	487 481	1 171 569	2 372 062	646 185	467 639	1 258 238	3	4	4	3
		1999	2 431 321	647 405	499 829	1 284 087	2 312 977	611 935	689 305	1 011 736	3	5	3	2
		1998	2 339 085	636 961	699 792	1 002 332	2 292 404	581 521	635 595	1 075 288	1	1	1	1
		1997	2 321 102	590 183	646 703	1 084 216	2 589 571	663 839	691 474	1 234 258	X	X	X	X
336321	Vehicular lighting equipment mfg	2001	223 355	50 344	41 065	131 946	249 823	58 776	61 664	129 382	5	6	12	4
		2000	240 838	57 868	61 692	121 278	229 852	56 682	66 312	106 858	5	5	7	5
		1999	255 661	60 749	73 021	121 891	303 739	84 328	88 677	130 733	3	2	5	5
		1998	293 470	79 652	91 008	122 810	284 546	62 825	103 552	118 169	1	2	1	1
		1997	285 576	63 910	102 631	119 035	302 696	64 917	111 084	126 695	X	X	X	X
336322	Other motor vehicle electrical & electronic equipment mfg	2001	2 095 220	636 299	379 816	1 079 105	2 122 372	650 191	406 727	1 065 455	4	5	3	7
		2000	2 110 054	633 975	425 789	1 050 290	2 142 209	589 503	401 327	1 151 379	3	4	4	3
		1999	2 175 660	586 656	426 808	1 162 196	2 009 238	527 607	600 628	881 003	3	6	3	2
		1998	2 045 615	557 309	608 784	879 521	2 007 858	518 696	532 043	957 119	1	1	1	1
		1997	2 035 526	526 273	544 072	965 181	2 286 875	598 922	580 390	1 107 563	X	X	X	X
33633	Motor vehicle steering & suspension component (except spring) mfg	2001	667 380	184 619	184 455	298 307	746 301	195 537	183 773	366 991	4	5	3	6
		2000	762 543	195 703	202 564	364 275	756 496	198 560	192 256	365 680	6	9	2	7
		1999	719 887	182 251	192 759	344 877	694 065	152 619	173 748	367 698	2	3	2	2
		1998	720 520	154 076	173 880	392 564	757 842	180 973	189 121	387 748	1	3	4	1
		1997	766 035	183 938	194 915	387 182	724 919	144 533	208 071	372 315	X	X	X	X
336330	Motor vehicle steering & suspension component (except spring) mfg	2001	667 380	184 619	184 455	298 307	746 301	195 537	183 773	366 991	4	5	3	6
		2000	762 543	195 703	202 564	364 275	756 496	198 560	192 256	365 680	6	9	2	7
		1999	719 887	182 251	192 759	344 877	694 065	152 619	173 748	367 698	2	3	2	2
		1998	720 520	154 076	173 880	392 564	757 842	180 973	189 121	387 748	1	3	4	1
		1997	766 035	183 938	194 915	387 182	724 919	144 533	208 071	372 315	X	X	X	X
33634	Motor vehicle brake system mfg	2001	725 111	316 849	102 909	305 352	776 715	353 093	112 916	310 706	5	8	19	5
		2000	875 333	406 062	118 442	350 829	833 358	266 310	120 627	446 421	8	9	16	11
		1999	861 852	278 912	129 784	453 156	808 514	319 582	125 634	363 298	9	13	13	9
		1998	835 802	302 710	152 406	380 686	831 351	306 555	144 319	380 478	2	5	2	4
		1997	824 856	308 963	143 070	372 823	822 967	291 424	142 361	389 182	X	X	X	X
336340	Motor vehicle brake system mfg	2001	725 111	316 849	102 909	305 352	776 715	353 093	112 916	310 706	5	8	19	5
		2000	875 333	406 062	118 442	350 829	833 358	266 310	120 627	446 421	8	9	16	11
		1999	861 852	278 912	129 784	453 156	808 514	319 582	125 634	363 298	9	13	13	9
		1998	835 802	302 710	152 406	380 686	831 351	306 555	144 319	380 478	2	5	2	4
		1997	824 856	308 963	143 070	372 823	822 967	291 424	142 361	389 182	X	X	X	X
33635	Motor vehicle transmission & power train parts mfg	2001	1 802 711	478 114	650 033	674 564	2 270 605	574 887	909 569	786 149	13	32	5	10
		2000	2 391 909	590 438	968 541	832 930	2 160 137	450 758	870 496	838 882	11	29	3	8
		1999	2 348 418	512 812	888 769	946 837	2 296 665	498 630	898 483	899 552	5	15	2	7
		1998	2 200 065	504 076	1 038 866	657 123	1 924 612	422 012	876 411	626 189	1	2	1	1
		1997	1 938 166	414 475	900 035	623 656	1 957 203	350 833	985 994	620 376	X	X	X	X
336350	Motor vehicle transmission & power train parts mfg	2001	1 802 711	478 114	650 033	674 564	2 270 605	574 887	909 569	786 149	13	32	5	10
		2000	2 391 909	590 438	968 541	832 930	2 160 137	450 758	870 496	838 882	11	29	3	8
		1999	2 348 418	512 812	888 769	946 837	2 296 665	498 630	898 483	899 552	5	15	2	7
		1998	2 200 065	504 076	1 038 866	657 123	1 924 612	422 012	876 411	626 189	1	2	1	1
		1997	1 938 166	414 475	900 035	623 656	1 957 203	350 833	985 994	620 376	X	X	X	X
33636	Motor vehicle seating & interior trim mfg	2001	485 021	113 560	59 048	312 414	542 408	124 883	85 893	331 633	3	3	4	4
		2000	561 800	135 321	98 062	328 417	532 386	114 270	96 395	321 722	3	3	5	3
		1999	577 016	113 793	106 125	357 099	545 202	101 690	100 495	343 017	1	5	1	1
		1998	508 865	87 612	109 798	311 455	482 448	78 746	117 631	286 070	2	3	2	2
		1997	507 770	84 078	121 198	302 494	434 412	88 730	101 306	244 376	X	X	X	X
336360	Motor vehicle seating & interior trim mfg	2001	485 021	113 560	59 048	312 414	542 408	124 883	85 893	331 633	3	3	4	4
		2000	561 800	135 321	98 062	328 417	532 386	114 270	96 395	321 722	3	3	5	3
		1999	577 016	113 793	106 125	357 099	545 202	101 690	100 495	343 017	1	5	1	1
		1998	508 865	87 612	109 798	311 455	482 448	78 746	117 631	286 070	2	3	2	2
		1997	507 770	84 078	121 198	302 494	434 412	88 730	101 306	244 376	X	X	X	X
33637	Motor vehicle metal stamping	2001	1 051 186	259 864	381 432	409 891	1 246 003	302 790	461 418	481 794	7	6	21	4
		2000	1 156 876	276 894	420 480	459 502	1 246 864	307 075	436 773	503 016	7	6	19	5
		1999	1 229 152	300 643	425 265	503 244	1 185 792	276 118	435 215	474 459	7	5	20	4
		1998	1 315 170	299 961	529 830	485 379	1 350 214	249 360	549 054	551 800	2	4	2	3
		1997	1 309 761	254 045	555 576	500 140	1 396 874	255 045	595 466	546 363	X	X	X	X
336370	Motor vehicle metal stamping	2001	1 051 186	259 864	381 432	409 891	1 246 003	302 790	461 418	481 794	7	6	21	4
		2000	1 156 876	276 894	420 480	459 502	1 246 864	307 075	436 773	503 016	7	6	19	5
		1999	1 229 152	300 643	425 265	503 244	1 185 792	276 118	435 215	474 459	7	5	20	4
		1998	1 315 170	299 961	529 830	485 379	1 350 214	249 360	549 054	551 800	2	4	2	3
		1997	1 309 761	254 045	555 576	500 140	1 396 874	255 045	595 466	546 363	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3363	Motor vehicle parts mfg—Con.													
33639	Other motor vehicle parts mfg	2001..	3 489 960	1 189 020	686 344	1 614 596	3 755 276	1 241 758	776 296	1 737 222	7	14	6	6
		2000..	3 752 411	1 188 827	819 155	1 744 429	3 735 448	1 190 623	758 628	1 786 197	5	10	7	6
		1999..	3 661 784	1 192 931	750 256	1 718 597	3 541 603	1 092 925	744 994	1 703 684	4	10	5	5
		1998..	3 419 792	1 002 454	787 446	1 629 892	3 032 445	829 952	919 553	1 282 940	1	1	1	1
		1997..	3 168 409	891 683	944 058	1 332 668	3 107 485	925 907	936 305	1 245 273	X	X	X	X
336391	Motor vehicle air-conditioning mfg	2001..	395 780	133 863	71 067	190 850	404 637	111 053	76 131	217 453	1	1	1	2
		2000..	386 356	106 744	64 795	214 817	396 548	126 995	63 290	206 263	1	1	1	2
		1999..	406 029	127 382	63 372	215 275	416 762	120 406	61 180	235 176	1	1	1	1
		1998..	426 153	125 207	62 994	237 952	362 045	82 019	67 654	212 372	1	1	3	1
		1997..	358 701	86 200	69 741	202 760	398 499	121 649	83 688	193 162	X	X	X	X
336399	All other motor vehicle parts mfg	2001..	3 094 180	1 055 157	615 277	1 423 746	3 350 639	1 130 705	700 165	1 519 769	7	15	6	7
		2000..	3 366 055	1 082 083	754 359	1 529 612	3 338 900	1 063 628	695 338	1 579 934	6	11	8	7
		1999..	3 255 754	1 065 549	686 884	1 503 322	3 124 841	972 519	683 814	1 468 508	4	11	5	6
		1998..	2 993 639	877 248	724 453	1 391 939	2 670 400	747 933	851 899	1 070 568	1	1	1	2
		1997..	2 809 708	805 483	874 317	1 129 908	2 708 986	804 258	852 617	1 052 111	X	X	X	X
3364	Aerospace product & parts mfg	2001..	42 335 693	5 111 642	30 543 643	6 680 408	41 190 627	4 272 983	29 768 033	7 149 611	1	2	1	1
		2000..	41 491 076	4 300 191	29 946 443	7 244 441	48 070 469	4 528 736	37 328 263	6 213 471	1	2	1	1
		1999..	49 513 614	4 568 550	38 578 668	6 366 396	51 464 270	4 587 599	39 470 000	7 406 671	1	2	1	1
		1998..	50 631 369	3 893 445	39 853 625	6 884 299	41 282 829	3 663 786	31 776 454	5 842 589	1	1	1	1
		1997..	41 295 188	3 910 260	31 531 021	5 853 907	40 535 006	3 213 368	32 158 512	5 163 126	X	X	X	X
33641	Aerospace product & parts mfg	2001..	42 335 693	5 111 642	30 543 643	6 680 408	41 190 627	4 272 983	29 768 033	7 149 611	1	2	1	1
		2000..	41 491 076	4 300 191	29 946 443	7 244 441	48 070 469	4 528 736	37 328 263	6 213 471	1	2	1	1
		1999..	49 513 614	4 568 550	38 578 668	6 366 396	51 464 270	4 587 599	39 470 000	7 406 671	1	2	1	1
		1998..	50 631 369	3 893 445	39 853 625	6 884 299	41 282 829	3 663 786	31 776 454	5 842 589	1	1	1	1
		1997..	41 295 188	3 910 260	31 531 021	5 853 907	40 535 006	3 213 368	32 158 512	5 163 126	X	X	X	X
336411	Aircraft mfg	2001..	26 732 075	2 860 622	20 119 323	3 752 131	26 144 553	2 329 326	20 785 822	3 029 405	1	1	1	2
		2000..	26 464 957	2 355 761	21 012 414	3 096 781	32 393 064	2 633 893	26 321 287	3 437 884	1	1	1	1
		1999..	32 604 499	2 621 711	26 460 625	3 522 163	35 680 310	1 596 931	30 111 381	3 971 998	1	1	1	1
		1998..	35 377 691	1 590 096	29 775 361	4 012 234	27 412 175	1 403 460	22 832 962	3 175 753	1	1	1	1
		1997..	27 690 799	1 687 456	22 811 149	3 192 194	27 766 417	1 671 834	23 299 037	2 795 546	X	X	X	X
336412	Aircraft engine & engine parts mfg	2001..	3 462 384	1 211 864	1 566 675	683 845	3 241 198	976 521	1 638 035	626 642	2	3	4	4
		2000..	3 423 141	966 372	1 824 975	631 795	3 411 536	958 427	1 908 253	544 856	2	3	2	4
		1999..	3 370 751	994 119	1 825 253	551 379	3 959 342	1 497 492	1 914 566	547 284	1	3	2	3
		1998..	3 987 729	1 480 393	1 920 313	587 023	3 781 960	1 239 952	2 056 792	485 216	1	1	1	1
		1997..	3 842 004	1 289 187	2 055 543	497 274	3 547 838	1 025 102	2 062 020	460 716	X	X	X	X
336413	Other aircraft part & auxiliary equipment mfg	2001..	6 198 314	1 026 498	3 950 801	1 221 016	6 206 546	954 798	4 168 953	1 082 795	3	8	2	4
		2000..	6 202 636	966 162	4 143 762	1 092 712	6 602 583	923 069	4 419 709	1 259 805	2	9	1	3
		1999..	6 624 298	940 873	4 455 075	1 228 350	7 281 556	864 459	5 197 374	1 219 724	2	7	1	3
		1998..	7 230 438	815 450	5 189 156	1 225 833	6 296 547	1 013 354	4 140 794	1 142 399	1	1	1	1
		1997..	5 975 661	924 892	3 923 859	1 126 910	4 794 094	510 980	3 470 381	812 733	X	X	X	X
336414	Guided missile & space vehicle mfg	2001..	5 252 383	D	4 276 449	D	4 776 472	D	2 418 085	D	1	X	1	X
		2000..	4 788 519	D	2 418 447	D	5 129 070	D	4 219 982	D	1	X	1	X
		1999..	6 380 961	D	5 376 349	D	4 010 282	D	1 811 968	D	1	X	1	X
		1998..	3 504 103	D	2 549 448	D	3 338 472	D	2 389 882	D	1	X	1	X
		1997..	3 336 540	D	2 387 724	D	4 016 196	D	3 000 742	D	X	X	X	X
336415	Guided missile & space vehicle propulsion unit & parts mfg	2001..	594 744	D	556 426	D	726 678	D	687 942	D	1	X	1	X
		2000..	515 671	D	477 173	D	420 662	D	372 815	D	1	X	1	X
		1999..	429 671	D	382 482	D	420 143	D	346 328	D	1	X	1	X
		1998..	426 989	D	353 716	D	335 864	D	276 118	D	1	X	1	X
		1997..	338 001	D	275 786	D	307 230	D	255 363	D	X	X	X	X
336419	Other guided missile & space vehicle parts & auxiliary equip mfg	2001..	95 792	D	73 970	D	95 180	D	69 196	D	1	X	1	X
		2000..	96 152	D	69 672	D	113 554	D	86 217	D	1	X	1	X
		1999..	103 434	D	78 883	D	112 637	D	88 385	D	1	X	1	X
		1998..	104 418	D	65 632	D	117 811	D	79 906	D	1	X	1	X
		1997..	112 183	D	76 960	D	103 231	D	70 969	D	X	X	X	X
3365	Railroad rolling stock mfg	2001..	1 350 212	471 012	476 770	402 430	1 591 536	448 836	673 599	469 101	4	5	2	10
		2000..	1 612 531	454 685	711 955	445 891	1 681 502	473 406	671 460	536 636	2	3	1	4
		1999..	1 704 001	467 986	679 555	556 459	1 640 264	457 117	704 667	478 480	1	1	1	2
		1998..	1 684 943	475 645	706 240	503 057	1 592 216	394 220	764 061	433 936	1	1	1	1
		1997..	1 591 538	400 213	761 923	429 402	1 395 563	321 732	661 262	412 569	X	X	X	X
33651	Railroad rolling stock mfg	2001..	1 350 212	471 012	476 770	402 430	1 591 536	448 836	673 599	469 101	4	5	2	10
		2000..	1 612 531	454 685	711 955	445 891	1 681 502	473 406	671 460	536 636	2	3	1	4
		1999..	1 704 001	467 986	679 555	556 459	1 640 264	457 117	704 667	478 480	1	1	1	2
		1998..	1 684 943	475 645	706 240	503 057	1 592 216	394 220	764 061	433 936	1	1	1	1
		1997..	1 591 538	400 213	761 923	429 402	1 395 563	321 732	661 262	412 569	X	X	X	X
336510	Railroad rolling stock mfg	2001..	1 350 212	471 012	476 770	402 430	1 591 536	448 836	673 599	469 101	4	5	2	10
		2000..	1 612 531	454 685	711 955	445 891	1 681 502	473 406	671 460	536 636	2	3	1	4
		1999..	1 704 001	467 986	679 555	556 459	1 640 264	457 117	704 667	478 480	1	1	1	2
		1998..	1 684 943	475 645	706 240	503 057	1 592 216	394 220	764 061	433 936	1	1	1	1
		1997..	1 591 538	400 213	761 923	429 402	1 395 563	321 732	661 262	412 569	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3366	Ship & boat building	2001	2 301 375	379 591	1 278 361	643 423	2 317 456	408 915	1 202 413	706 129	2	5	3	6
		2000	2 360 233	416 596	1 222 621	721 016	2 166 176	354 004	1 121 709	690 463	2	5	2	6
		1999	2 129 968	355 370	1 091 226	683 372	1 896 307	320 932	1 023 531	551 844	2	4	2	6
		1998	1 885 547	305 559	1 003 126	576 862	1 951 616	304 623	1 093 871	553 122	3	7	3	2
		1997	1 995 962	311 830	1 121 829	562 303	2 104 750	277 698	1 288 685	538 367	X	X	X	X
33661	Ship & boat building	2001	2 301 375	379 591	1 278 361	643 423	2 317 456	408 915	1 202 413	706 129	2	5	3	6
		2000	2 360 233	416 596	1 222 621	721 016	2 166 176	354 004	1 121 709	690 463	2	5	2	6
		1999	2 129 968	355 370	1 091 226	683 372	1 896 307	320 932	1 023 531	551 844	2	4	2	6
		1998	1 885 547	305 559	1 003 126	576 862	1 951 616	304 623	1 093 871	553 122	3	7	3	2
		1997	1 995 962	311 830	1 121 829	562 303	2 104 750	277 698	1 288 685	538 367	X	X	X	X
336611	Ship building & repairing	2001	1 319 855	43 918	1 001 783	274 153	1 250 877	48 859	916 047	285 972	3	38	3	13
		2000	1 263 843	51 479	927 343	285 022	1 212 528	53 815	871 092	287 621	3	31	2	13
		1999	1 182 288	45 121	852 318	284 849	1 094 282	56 121	809 951	228 210	3	21	2	14
		1998	1 101 856	65 884	796 804	239 168	1 214 307	61 740	918 499	234 068	3	2	4	2
		1997	1 245 576	68 108	941 141	236 327	1 398 986	50 668	1 120 741	227 577	X	X	X	X
336612	Boat building	2001	981 520	335 673	276 577	369 270	1 066 579	360 056	286 366	420 157	4	4	8	4
		2000	1 096 389	365 117	295 279	435 994	953 648	300 189	250 617	402 843	3	4	5	3
		1999	947 679	310 249	238 907	398 523	802 025	264 811	213 579	323 634	3	4	4	5
		1998	783 692	239 675	206 323	337 694	737 309	242 883	175 372	319 055	4	9	4	3
		1997	750 386	243 722	180 688	325 976	705 764	227 030	167 944	310 790	X	X	X	X
3369	Other transportation equipment mfg	2001	1 547 596	465 677	407 566	674 353	1 432 350	493 071	333 327	605 952	7	6	2	14
		2000	1 452 422	496 421	334 178	621 824	1 437 968	483 723	364 066	590 179	8	5	3	16
		1999	1 332 068	482 505	367 629	481 934	1 249 755	479 340	303 456	466 960	4	11	3	4
		1998	1 282 992	454 522	318 625	509 845	1 211 512	473 058	322 189	416 265	2	1	1	4
		1997	1 231 874	474 841	324 698	432 335	1 206 581	417 200	377 591	411 790	X	X	X	X
33699	Other transportation equipment mfg	2001	1 547 596	465 677	407 566	674 353	1 432 350	493 071	333 327	605 952	7	6	2	14
		2000	1 452 422	496 421	334 178	621 824	1 437 968	483 723	364 066	590 179	8	5	3	16
		1999	1 332 068	482 505	367 629	481 934	1 249 755	479 340	303 456	466 960	4	11	3	4
		1998	1 282 992	454 522	318 625	509 845	1 211 512	473 058	322 189	416 265	2	1	1	4
		1997	1 231 874	474 841	324 698	432 335	1 206 581	417 200	377 591	411 790	X	X	X	X
336991	Motorcycle, bicycle, & parts mfg	2001	380 426	206 846	81 011	92 569	387 045	207 925	81 810	97 309	11	14	9	13
		2000	384 279	200 182	79 794	104 304	401 582	228 853	69 030	103 699	10	11	9	9
		1999	388 819	222 812	67 376	98 631	394 913	200 776	59 610	134 526	9	10	11	9
		1998	462 251	222 827	74 538	164 887	426 745	225 149	80 542	121 053	4	2	5	12
		1997	429 347	226 595	80 464	122 288	391 724	211 744	69 845	110 135	X	X	X	X
336992	Military armored vehicle, tank, & tank component mfg	2001	438 749	4 358	251 587	182 804	324 850	13 791	177 955	133 104	1	3	1	1
		2000	325 818	13 858	178 683	133 278	347 100	2 731	211 583	132 786	1	1	1	1
		1999	352 431	2 755	216 597	133 079	290 433	21 464	168 024	100 945	1	4	1	1
		1998	291 583	22 008	169 802	99 773	242 155	10 474	175 370	56 311	1	1	1	1
		1997	261 275	13 938	178 607	68 730	285 944	6 746	231 185	48 013	X	X	X	X
336999	All other transportation equipment mfg	2001	728 421	254 472	74 969	398 981	720 455	271 355	73 562	375 539	14	5	6	24
		2000	742 325	282 381	75 702	384 242	689 286	252 139	83 453	353 694	14	5	9	25
		1999	590 818	256 938	83 656	250 224	564 410	257 099	75 822	231 489	8	18	8	6
		1998	529 158	209 688	74 285	245 185	542 613	237 435	66 277	238 900	1	1	2	1
		1997	541 252	234 308	65 627	241 317	528 913	198 710	76 561	253 642	X	X	X	X
337	Furniture & related product mfg	2001	7 764 518	2 735 745	1 615 706	3 413 067	8 203 943	2 825 348	1 744 614	3 633 981	2	3	3	2
		2000	8 260 505	2 840 608	1 758 069	3 661 827	7 895 015	2 707 111	1 659 288	3 528 616	2	2	3	2
		1999	7 982 460	2 740 190	1 686 960	3 555 310	7 598 496	2 535 288	1 635 681	3 427 526	2	2	3	2
		1998	7 933 572	2 665 342	1 608 402	3 659 828	7 503 298	2 530 926	1 532 750	3 439 622	1	1	1	1
		1997	7 526 301	2 509 282	1 544 951	3 472 068	7 359 747	2 529 393	1 522 555	3 307 799	X	X	X	X
3371	Household & institutional furniture & kitchen cabinet mfg	2001	5 271 275	1 936 291	1 116 806	2 218 178	5 516 820	1 993 323	1 194 866	2 328 632	2	3	4	2
		2000	5 562 862	2 013 889	1 199 785	2 349 188	5 312 929	1 906 168	1 128 895	2 277 866	2	3	4	2
		1999	5 374 600	1 924 190	1 152 090	2 298 320	5 054 664	1 768 771	1 112 064	2 173 828	2	3	4	1
		1998	5 235 367	1 832 574	1 076 999	2 325 795	4 934 043	1 752 980	1 013 747	2 167 316	1	1	1	1
		1997	4 927 066	1 727 833	1 018 662	2 180 571	4 771 166	1 752 297	979 113	2 039 756	X	X	X	X
33711	Wood kitchen cabinet & counter top mfg	2001	891 868	196 310	248 546	447 013	872 445	176 810	244 042	451 593	3	10	5	3
		2000	865 335	178 343	241 503	445 490	795 414	159 300	203 444	432 669	3	5	5	2
		1999	791 652	158 830	201 945	430 878	774 811	154 370	203 383	417 058	3	5	5	2
		1998	905 034	221 169	215 032	468 833	855 726	216 970	205 519	433 238	1	3	3	1
		1997	847 580	204 941	205 650	436 989	810 947	203 481	207 362	400 104	X	X	X	X
337110	Wood kitchen cabinet & counter top mfg	2001	891 868	196 310	248 546	447 013	872 445	176 810	244 042	451 593	3	10	5	3
		2000	865 335	178 343	241 503	445 490	795 414	159 300	203 444	432 669	3	5	5	2
		1999	791 652	158 830	201 945	430 878	774 811	154 370	203 383	417 058	3	5	5	2
		1998	905 034	221 169	215 032	468 833	855 726	216 970	205 519	433 238	1	3	3	1
		1997	847 580	204 941	205 650	436 989	810 947	203 481	207 362	400 104	X	X	X	X
33712	Household & institutional furniture mfg	2001	4 379 407	1 739 982	868 261	1 771 165	4 644 375	1 816 513	950 823	1 877 039	2	3	4	2
		2000	4 697 526	1 835 547	958 282	1 903 698	4 517 516	1 746 868	925 451	1 845 197	2	3	5	2
		1999	4 582 948	1 765 361	950 145	1 867 442	4 279 853	1 614 402	908 681	1 756 770	2	3	4	2
		1998	4 330 333	1 611 404	861 966	1 856 962	4 078 317	1 536 010	808 228	1 734 079	1	1	1	1
		1997	4 079 486	1 522 892	813 012	1 743 582	3 960 219	1 548 816	771 751	1 639 652	X	X	X	X
337121	Upholstered household furniture mfg	2001	866 950	182 686	157 341	526 923	882 393	170 398	169 034	542 961	2	3	4	3
		2000	902 416	176 918	169 576	555 922	858 893	169 926	151 424	537 543	2	2	5	2
		1999	880 987	177 520	156 358	547 108	836 289	168 562	146 443	521 284	1	2	2	2
		1998	879 113	184 894	151 250	542 969	827 229	173 351	157 001	496 878	1	2	1	1
		1997	826 855	173 297	156 947	496 611	773 350	161 437	145 117	466 796	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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
337	Furniture & related product mfg—Con.													
3371	Household & institutional furniture & kitchen cabinet mfg—Con.													
33712	Household & institutional furniture mfg—Con.													
337122	Nonupholstered wood household furniture mfg	2001	2 214 386	1 104 391	467 407	642 588	2 408 382	1 190 239	513 762	704 381	3	3	8	3
		2000	2 470 444	1 217 901	520 515	732 028	2 440 697	1 172 841	520 890	746 966	3	3	8	3
		1999	2 475 711	1 180 023	540 250	755 438	2 273 468	1 055 116	515 069	703 283	3	4	7	3
		1998	2 260 555	1 060 955	456 419	743 180	2 152 330	1 039 617	415 424	697 289	1	1	1	1
		1997	2 138 784	1 025 510	414 170	699 104	2 125 142	1 041 578	410 511	673 053	X	X	X	X
337124	Metal household furniture mfg	2001	429 614	184 648	69 099	175 866	456 221	168 873	83 312	204 035	4	5	5	5
		2000	443 849	163 064	83 126	197 659	374 421	138 018	71 638	164 764	5	7	4	6
		1999	364 376	136 662	69 774	157 940	335 207	131 541	65 803	137 863	4	6	3	6
		1998	389 737	149 291	73 666	166 780	349 471	128 983	63 825	156 664	5	4	10	6
		1997	348 862	129 654	62 770	156 438	361 688	141 594	54 925	165 169	X	X	X	X
337125	Household furniture (except wood & metal) mfg	2001	93 879	27 651	13 437	52 791	114 739	38 659	15 368	60 713	9	15	26	15
		2000	93 497	31 719	13 620	48 158	93 238	37 113	12 519	43 606	10	10	21	19
		1999	93 253	37 064	12 522	43 667	85 823	33 652	10 635	41 536	10	9	23	20
		1998	76 281	32 084	6 849	37 348	74 255	35 775	6 867	31 613	4	6	4	8
		1997	77 557	36 296	7 531	33 730	70 624	31 314	8 335	30 975	X	X	X	X
337127	Institutional furniture mfg	2001	740 281	229 476	151 112	359 693	747 021	238 906	158 332	349 783	5	15	6	6
		2000	752 167	236 995	159 967	355 206	715 211	220 445	157 469	337 298	5	16	5	5
		1999	728 076	224 556	159 647	343 874	710 042	218 155	160 980	330 907	4	17	5	5
		1998	691 235	176 394	163 574	351 267	640 670	150 918	154 943	334 808	3	4	4	4
		1997	653 539	150 871	161 756	340 912	592 587	156 024	144 837	291 726	X	X	X	X
337129	Wood television, radio, & sewing machine cabinet mfg	2001	34 297	11 129	9 864	13 303	35 619	9 439	11 015	15 166	12	5	4	30
		2000	35 152	8 950	11 479	14 723	35 056	8 525	11 511	15 020	12	3	5	28
		1999	40 545	9 536	11 593	19 416	39 024	7 376	9 751	21 897	8	4	6	16
		1998	33 412	7 787	10 208	15 417	34 361	7 366	10 168	16 827	5	3	3	11
		1997	33 889	7 264	9 838	16 787	36 828	16 869	8 026	11 933	X	X	X	X
3372	Office furniture (including fixtures) mfg	2001	1 877 290	625 889	443 785	807 616	2 047 976	654 860	486 666	906 449	5	7	6	7
		2000	2 056 119	649 356	494 899	911 864	1 962 702	618 415	475 025	869 263	5	6	6	6
		1999	1 988 893	633 846	480 110	874 938	1 931 490	601 008	466 999	863 483	4	4	5	6
		1998	2 073 011	657 210	478 738	937 064	1 990 422	613 958	471 049	905 416	1	2	2	2
		1997	2 009 409	614 357	475 998	919 054	2 011 889	611 351	489 227	911 311	X	X	X	X
33721	Office furniture (including fixtures) mfg	2001	1 877 290	625 889	443 785	807 616	2 047 976	654 860	486 666	906 449	5	7	6	7
		2000	2 056 119	649 356	494 899	911 864	1 962 702	618 415	475 025	869 263	5	6	6	6
		1999	1 988 893	633 846	480 110	874 938	1 931 490	601 008	466 999	863 483	4	4	5	6
		1998	2 073 011	657 210	478 738	937 064	1 990 422	613 958	471 049	905 416	1	2	2	2
		1997	2 009 409	614 357	475 998	919 054	2 011 889	611 351	489 227	911 311	X	X	X	X
337211	Wood office furniture mfg	2001	354 334	90 761	78 422	185 150	374 933	93 114	75 353	206 466	6	19	8	9
		2000	375 447	92 484	75 926	207 037	344 432	79 643	79 629	185 160	5	18	8	7
		1999	341 978	79 111	79 026	183 841	336 387	71 165	77 912	187 309	3	13	7	5
		1998	337 279	71 184	80 569	185 525	321 307	71 412	74 080	175 816	2	2	2	4
		1997	343 361	77 399	77 367	188 595	329 868	77 158	78 555	174 155	X	X	X	X
337212	Custom architectural woodwork & millwork mfg	2001	261 895	93 239	73 708	94 949	251 100	90 798	77 097	83 205	17	32	10	16
		2000	244 096	84 507	75 908	83 681	235 476	75 705	68 412	91 358	16	31	9	15
		1999	214 464	60 597	67 410	86 457	198 239	54 523	67 658	76 057	15	25	7	20
		1998	209 899	54 854	70 514	84 532	201 589	52 422	67 318	81 849	3	6	4	2
		1997	207 516	54 243	69 213	84 060	204 850	60 405	66 721	77 724	X	X	X	X
337214	Office furniture (except wood) mfg	2001	328 821	70 081	65 078	193 662	419 706	95 536	71 574	252 597	6	8	6	7
		2000	411 680	88 306	72 202	251 172	471 949	104 330	87 072	280 547	3	5	5	4
		1999	479 526	112 682	87 214	279 629	482 732	111 017	89 795	281 920	3	5	4	3
		1998	522 577	127 784	84 227	310 567	499 920	109 391	92 727	297 802	2	4	7	1
		1997	495 458	106 816	93 489	295 153	511 197	108 008	108 722	294 467	X	X	X	X
337215	Showcase, partition, shelving, & locker mfg	2001	932 241	371 808	226 578	333 855	1 002 237	375 413	262 643	364 181	9	7	11	16
		2000	1 024 896	384 058	270 863	369 974	910 845	358 736	239 912	312 197	8	5	11	14
		1999	952 925	381 456	246 459	325 010	914 132	364 302	231 633	318 197	8	5	10	15
		1998	1 003 256	403 388	243 428	356 440	967 606	380 733	236 924	349 949	2	3	4	3
		1997	963 074	375 899	235 929	351 246	965 974	365 780	235 229	364 965	X	X	X	X
3379	Other furniture related product mfg	2001	615 952	173 564	55 114	387 274	639 146	177 165	63 082	398 900	6	9	9	8
		2000	641 524	177 363	63 385	400 776	619 384	182 528	55 368	381 487	4	7	8	5
		1999	618 967	182 154	54 760	382 052	612 342	165 509	56 618	390 215	5	7	8	7
		1998	625 194	175 559	52 666	396 969	578 833	163 989	47 953	366 890	2	2	5	4
		1997	589 826	167 092	50 291	372 443	576 692	165 745	54 215	356 732	X	X	X	X
33791	Mattress mfg	2001	236 266	52 712	23 609	159 945	239 224	50 362	26 669	162 192	6	22	7	4
		2000	249 488	53 759	27 978	167 750	230 388	53 934	23 898	152 556	5	20	9	3
		1999	229 293	53 711	23 677	151 906	219 507	47 588	21 585	150 335	5	20	6	2
		1998	245 071	57 273	23 164	164 633	235 047	55 564	21 071	158 412	2	4	8	3
		1997	235 030	56 602	20 983	157 445	215 106	53 906	20 421	140 779	X	X	X	X
337910	Mattress mfg	2001	236 266	52 712	23 609	159 945	239 224	50 362	26 669	162 192	6	22	7	4
		2000	249 488	53 759	27 978	167 750	230 388	53 934	23 898	152 556	5	20	9	3
		1999	229 293	53 711	23 677	151 906	219 507	47 588	21 585	150 335	5	20	6	2
		1998	245 071	57 273	23 164	164 633	235 047	55 564	21 071	158 412	2	4	8	3
		1997	235 030	56 602	20 983	157 445	215 106	53 906	20 421	140 779	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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
337	Furniture & related product mfg—Con.													
3379	Other furniture related product mfg—Con.													
33792	Blind & shade mfg	2001	379 686	120 852	31 506	227 329	399 922	126 802	36 413	236 707	9	8	15	13
		2000	392 036	123 604	35 407	233 025	388 996	128 594	31 470	228 932	6	5	13	8
		1999	389 673	128 443	31 084	230 147	392 835	117 922	35 033	239 880	7	4	13	12
		1998	380 123	118 286	29 502	232 336	343 786	108 425	26 883	208 479	4	1	7	6
		1997	354 796	110 490	29 308	214 998	361 586	111 839	33 794	215 953	X	X	X	X
337920	Blind & shade mfg	2001	379 686	120 852	31 506	227 329	399 922	126 802	36 413	236 707	9	8	15	13
		2000	392 036	123 604	35 407	233 025	388 996	128 594	31 470	228 932	6	5	13	8
		1999	389 673	128 443	31 084	230 147	392 835	117 922	35 033	239 880	7	4	13	12
		1998	380 123	118 286	29 502	232 336	343 786	108 425	26 883	208 479	4	1	7	6
		1997	354 796	110 490	29 308	214 998	361 586	111 839	33 794	215 953	X	X	X	X
339	Miscellaneous mfg	2001	17 532 496	8 496 029	2 879 224	6 157 243	17 325 301	8 195 839	3 026 786	6 102 676	1	2	2	2
		2000	17 680 053	8 348 337	3 071 197	6 260 519	16 277 277	7 570 979	2 807 480	5 898 819	1	1	2	2
		1999	16 521 707	7 680 178	2 821 652	6 019 877	15 707 278	7 193 720	2 679 982	5 833 576	1	1	1	1
		1998	16 712 496	7 665 367	2 991 773	6 055 356	15 486 790	7 114 179	2 912 532	5 460 079	1	1	2	1
		1997	15 538 943	7 161 009	2 838 817	5 539 117	15 263 747	7 039 358	2 974 373	5 250 016	X	X	X	X
3391	Medical equipment & supplies mfg	2001	8 311 549	3 959 908	1 379 160	2 972 481	7 819 559	3 629 472	1 385 495	2 804 592	2	3	3	3
		2000	8 064 482	3 751 978	1 409 874	2 902 630	7 347 878	3 379 795	1 282 018	2 686 065	2	2	3	3
		1999	7 567 607	3 490 204	1 313 807	2 763 596	7 035 189	3 159 458	1 248 979	2 626 752	1	2	2	2
		1998	7 628 710	3 379 151	1 457 071	2 792 488	7 090 198	3 218 788	1 403 265	2 468 144	2	1	4	2
		1997	6 881 043	3 148 088	1 289 448	2 443 507	6 738 204	3 093 724	1 468 974	2 175 506	X	X	X	X
33911	Medical equipment & supplies mfg	2001	8 311 549	3 959 908	1 379 160	2 972 481	7 819 559	3 629 472	1 385 495	2 804 592	2	3	3	3
		2000	8 064 482	3 751 978	1 409 874	2 902 630	7 347 878	3 379 795	1 282 018	2 686 065	2	2	3	3
		1999	7 567 607	3 490 204	1 313 807	2 763 596	7 035 189	3 159 458	1 248 979	2 626 752	1	2	2	2
		1998	7 628 710	3 379 151	1 457 071	2 792 488	7 090 198	3 218 788	1 403 265	2 468 144	2	1	4	2
		1997	6 881 043	3 148 088	1 289 448	2 443 507	6 738 204	3 093 724	1 468 974	2 175 506	X	X	X	X
339111	Laboratory apparatus & furniture mfg	2001	474 222	158 946	101 985	213 291	431 571	128 269	94 534	208 768	5	9	7	5
		2000	433 855	128 100	95 464	210 291	333 027	99 429	69 799	163 799	5	5	7	5
		1999	356 332	103 201	76 560	176 572	380 674	113 471	84 880	182 323	4	4	8	5
		1998	386 758	118 689	89 008	179 061	369 510	107 544	82 120	179 846	3	4	8	3
		1997	406 996	121 122	85 227	200 647	367 983	121 187	86 921	159 875	X	X	X	X
339112	Surgical & medical instrument mfg	2001	3 098 480	1 298 482	561 152	1 238 847	2 999 967	1 206 632	571 609	1 221 726	5	7	5	6
		2000	3 139 153	1 253 815	598 138	1 287 200	2 782 952	1 131 927	486 926	1 164 100	5	5	6	5
		1999	2 935 605	1 220 681	500 456	1 214 468	2 755 618	1 080 132	481 187	1 194 299	3	4	3	4
		1998	2 688 547	1 090 094	506 991	1 091 462	2 496 405	1 032 663	492 780	970 961	2	3	4	2
		1997	2 521 982	1 034 629	506 004	981 349	2 402 534	973 982	566 354	862 198	X	X	X	X
339113	Surgical appliance & supplies mfg	2001	3 116 713	1 651 423	447 487	1 017 803	2 916 017	1 529 170	470 567	916 279	3	3	4	6
		2000	2 939 916	1 543 890	467 902	928 124	2 754 556	1 388 457	483 588	882 511	3	2	5	4
		1999	2 743 736	1 383 755	480 124	879 857	2 476 800	1 214 245	430 373	832 182	2	1	4	3
		1998	2 834 570	1 296 789	527 823	1 009 959	2 526 136	1 259 545	432 405	834 186	3	1	10	5
		1997	2 415 789	1 223 333	377 089	815 367	2 472 236	1 268 600	417 312	786 324	X	X	X	X
339114	Dental equipment & supplies mfg	2001	505 163	215 814	114 033	175 317	461 401	202 070	104 486	154 845	4	4	8	8
		2000	463 919	198 972	104 743	160 204	488 005	212 594	108 904	166 507	4	5	9	5
		1999	511 380	223 942	114 602	172 837	495 401	204 081	116 209	175 110	4	8	4	4
		1998	538 811	226 706	128 407	183 698	552 899	228 150	148 495	176 253	9	9	10	8
		1997	477 648	196 293	127 224	154 131	436 684	182 604	131 335	122 745	X	X	X	X
339115	Ophthalmic goods mfg	2001	690 654	466 974	38 453	185 227	631 031	414 443	40 803	175 785	6	6	15	5
		2000	714 987	480 558	41 836	192 593	659 409	415 816	44 464	199 129	5	5	13	4
		1999	676 777	421 658	49 660	205 460	585 441	410 796	44 508	130 137	3	3	7	4
		1998	598 579	423 257	44 250	131 072	540 806	369 127	50 817	120 862	1	1	1	3
		1997	539 152	367 652	50 151	121 349	535 564	363 350	68 600	103 614	X	X	X	X
339116	Dental laboratories	2001	S	S	S	S	S	S	S	S	5	6	5	5
		2000	S	S	S	S	S	S	S	S	5	6	5	5
		1999	S	S	S	S	S	S	S	S	4	5	5	4
		1998	S	S	S	S	S	S	S	S	X	X	X	X
		1997	S	S	S	S	S	S	S	S	X	X	X	X
3399	Other miscellaneous mfg	2001	9 220 946	4 536 121	1 500 064	3 184 762	9 505 742	4 566 367	1 641 291	3 298 084	1	2	2	2
		2000	9 615 571	4 596 360	1 661 323	3 357 889	8 929 400	4 191 183	1 525 462	3 212 754	1	2	2	2
		1999	8 954 101	4 189 975	1 507 844	3 256 282	8 672 090	4 034 262	1 431 003	3 206 825	1	1	2	1
		1998	9 083 786	4 286 217	1 534 702	3 262 868	8 396 592	3 895 391	1 509 266	2 991 935	1	1	2	1
		1997	8 657 900	4 012 921	1 549 369	3 095 610	8 525 543	3 945 634	1 505 399	3 074 510	X	X	X	X
33991	Jewelry & silverware mfg	2001	1 870 868	1 120 409	262 363	488 095	1 955 719	1 113 758	320 184	521 777	3	2	8	3
		2000	2 020 350	1 151 448	326 892	542 011	1 834 616	1 052 106	291 015	491 495	3	2	5	3
		1999	1 848 954	1 051 206	288 010	509 738	1 752 996	978 252	281 007	493 736	3	3	6	3
		1998	1 813 667	1 021 681	302 921	489 065	1 675 274	915 218	288 067	471 988	2	2	5	2
		1997	1 724 328	936 610	298 220	489 498	1 724 663	919 058	284 563	521 042	X	X	X	X
339911	Jewelry (except costume) mfg	2001	1 350 560	774 617	191 179	384 765	1 384 551	735 126	234 639	414 786	3	3	11	4
		2000	1 445 043	774 535	245 777	424 732	1 269 623	689 945	206 100	373 578	3	3	7	4
		1999	1 306 211	707 013	211 403	387 795	1 191 528	630 039	190 319	371 170	3	4	8	4
		1998	1 174 596	612 051	201 224	361 321	1 125 044	573 295	200 238	351 510	3	3	6	3
		1997	1 166 947	595 043	205 901	366 003	1 165 096	590 962	200 027	374 107	X	X	X	X
339912	Silverware & plated ware mfg	2001	190 359	158 398	11 839	20 121	235 197	186 853	18 202	30 142	6	3	28	18
		2000	243 273	190 474	18 725	34 073	218 819	167 078	20 056	31 685	4	3	10	9
		1999	214 926	164 654	20 095	30 177	221 166	159 599	29 572	31 995	5	4	8	10
		1998	276 671	204 059	29 561	43 051	223 976	169 156	19 526	35 295	1	3	18	6
		1997	224 864	163 293	26 239	35 332	207 772	143 739	27 705	36 328	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 2001 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]

NAICS code	Industry group and industry		End of year: Total	End of year: Finished products	End of year: Work-in-process	End of year: Materials, supplies, fuels, etc.	Beginning of year: Total	Beginning of year: Finished products	Beginning of year: Work-in-process	Beginning of year: Materials, supplies, fuels, etc.	Relative standard error of estimate[1] (percent) for column—			
			A	B	C	D	E	F	G	H	A	B	C	D
339	Miscellaneous mfg—Con.													
3399	Other miscellaneous mfg—Con.													
33991	Jewelry & silverware mfg—Con.													
339913	Jewelers' material & lapidary work mfg	2001	135 834	87 275	29 604	18 955	137 818	84 764	32 554	20 499	3	2	7	4
		2000	136 381	83 963	32 261	20 156	132 312	79 463	30 543	22 306	2	2	10	4
		1999	133 015	80 828	31 806	20 381	128 323	77 331	31 148	19 845	2	2	8	4
		1998	123 431	74 038	28 611	20 782	127 074	71 081	31 578	24 414	5	5	4	6
		1997	130 081	75 217	28 885	25 979	137 954	73 795	23 971	40 188	X	X	X	X
339914	Costume jewelry & novelty mfg	2001	194 115	100 119	29 741	64 255	198 152	107 014	34 788	56 350	6	7	12	9
		2000	195 654	102 476	30 128	63 050	213 862	115 620	34 315	63 927	5	6	11	10
		1999	194 803	98 711	24 707	71 384	211 979	111 283	29 969	70 727	4	6	9	8
		1998	238 970	131 533	43 526	63 911	199 180	101 686	36 726	60 768	4	4	8	4
		1997	202 436	103 057	37 195	62 184	213 841	110 562	32 860	70 419	X	X	X	X
33992	Sporting & athletic goods mfg	2001	2 033 295	1 083 404	273 143	676 748	2 085 726	1 114 393	306 637	664 696	4	5	5	5
		2000	2 094 065	1 109 316	300 429	684 319	1 754 223	873 185	238 415	642 623	4	5	4	5
		1999	1 693 143	834 088	232 554	626 501	1 717 865	799 202	202 893	715 771	2	3	4	3
		1998	1 957 895	943 711	264 299	749 885	1 746 365	860 470	258 555	627 340	2	3	4	2
		1997	1 865 945	915 711	268 577	681 657	1 860 822	933 714	262 835	664 273	X	X	X	X
339920	Sporting & athletic goods mfg	2001	2 033 295	1 083 404	273 143	676 748	2 085 726	1 114 393	306 637	664 696	4	5	5	5
		2000	2 094 065	1 109 316	300 429	684 319	1 754 223	873 185	238 415	642 623	4	5	4	5
		1999	1 693 143	834 088	232 554	626 501	1 717 865	799 202	202 893	715 771	2	3	4	3
		1998	1 957 895	943 711	264 299	749 885	1 746 365	860 470	258 555	627 340	2	3	4	2
		1997	1 865 945	915 711	268 577	681 657	1 860 822	933 714	262 835	664 273	X	X	X	X
33993	Doll, toy, & game mfg	2001	566 990	318 219	59 742	189 029	616 623	319 998	71 471	225 154	5	6	14	8
		2000	616 154	316 775	69 316	230 063	638 903	337 726	69 775	231 402	5	6	11	6
		1999	690 583	372 449	72 611	245 523	676 511	367 079	70 688	238 743	4	5	10	6
		1998	714 040	383 883	83 067	247 090	674 760	363 456	82 772	228 533	3	2	8	4
		1997	678 134	368 496	81 244	228 394	674 007	351 193	84 640	238 174	X	X	X	X
339931	Doll & stuffed toy mfg	2001	72 859	47 912	4 042	20 905	79 331	49 844	4 985	24 501	12	10	21	17
		2000	75 561	46 623	4 905	24 032	73 413	42 610	7 463	23 341	11	10	17	14
		1999	84 894	47 350	7 743	29 802	72 490	41 313	7 162	24 016	11	8	10	22
		1998	65 578	41 136	8 623	15 819	58 080	35 003	5 557	17 520	6	6	17	16
		1997	62 577	36 724	6 012	19 841	58 151	36 676	7 480	13 995	X	X	X	X
339932	Game, toy, & children's vehicle mfg	2001	494 131	270 307	55 700	168 124	537 292	270 153	66 486	200 653	6	6	15	9
		2000	540 594	270 152	64 411	206 031	565 490	295 116	62 313	208 062	5	6	12	7
		1999	605 689	325 100	64 868	215 721	604 020	325 766	63 526	214 728	4	5	11	6
		1998	648 462	342 747	74 445	231 270	616 680	328 453	77 214	211 013	3	3	9	4
		1997	615 557	331 772	75 232	208 553	615 856	314 517	77 160	224 179	X	X	X	X
33994	Office supplies (except paper) mfg	2001	539 564	231 625	102 985	204 954	540 147	248 189	93 737	198 222	2	3	5	3
		2000	548 694	252 482	93 958	202 254	627 928	299 376	110 789	217 763	2	3	3	3
		1999	634 520	300 304	112 095	222 121	664 653	327 531	111 306	225 817	2	2	3	3
		1998	720 876	347 974	123 578	249 325	675 554	328 771	117 988	228 796	1	1	2	3
		1997	681 082	325 365	127 074	228 643	662 025	287 807	136 223	237 995	X	X	X	X
339941	Pen & mechanical pencil mfg	2001	186 027	59 279	56 629	70 119	184 004	73 041	47 078	63 885	4	8	8	1
		2000	191 237	79 763	47 299	64 174	247 446	113 941	60 940	72 564	3	5	3	1
		1999	251 075	114 637	61 727	74 711	260 747	125 663	52 984	82 099	3	4	5	2
		1998	287 526	140 261	55 968	91 297	263 167	148 566	42 585	72 016	3	1	3	8
		1997	264 891	144 658	49 693	70 540	222 057	103 782	52 682	65 593	X	X	X	X
339942	Lead pencil & art good mfg	2001	197 659	103 164	25 311	69 184	198 061	102 962	25 955	69 144	3	4	6	6
		2000	198 329	103 118	26 024	69 188	224 169	116 701	28 014	79 454	3	4	6	6
		1999	220 237	114 417	27 453	78 367	233 937	129 784	35 233	68 919	3	3	5	6
		1998	245 997	131 045	39 425	75 526	222 822	103 261	46 173	73 388	1	1	2	2
		1997	219 845	100 531	47 395	71 919	245 662	106 421	55 640	83 601	X	X	X	X
339943	Marking device mfg	2001	69 961	30 860	8 080	31 021	67 702	28 895	8 103	30 704	6	7	8	9
		2000	69 193	29 676	8 136	31 380	66 061	29 393	6 895	29 773	10	10	6	13
		1999	71 689	31 491	7 644	32 554	73 783	31 886	7 148	34 748	8	10	12	11
		1998	82 365	35 557	9 395	37 414	80 506	34 672	9 296	36 539	1	2	4	1
		1997	80 708	34 838	9 685	36 185	77 271	33 689	7 698	35 884	X	X	X	X
339944	Carbon paper & inked ribbon mfg	2001	85 916	38 322	12 965	34 629	90 381	43 290	12 600	34 490	4	5	10	7
		2000	89 935	39 924	12 499	37 513	90 252	39 341	14 940	35 971	4	5	11	7
		1999	91 519	39 759	15 271	36 489	96 187	40 197	15 940	40 050	4	4	8	8
		1998	104 988	41 111	18 790	45 087	109 059	42 272	19 935	46 852	1	1	1	1
		1997	115 638	45 338	20 301	49 999	117 035	43 915	20 203	52 917	X	X	X	X
33995	Sign mfg	2001	978 590	262 271	317 969	398 351	1 042 919	251 744	343 449	447 726	4	8	4	3
		2000	1 027 829	237 379	351 454	438 996	963 855	224 867	323 533	415 454	4	7	5	4
		1999	979 426	226 387	328 025	425 014	877 983	207 415	296 681	373 886	3	3	4	4
		1998	822 334	214 437	258 194	349 703	802 650	201 524	271 690	329 435	4	7	6	4
		1997	804 933	201 437	269 926	333 570	793 671	200 373	256 540	336 758	X	X	X	X
339950	Sign mfg	2001	978 590	262 271	317 969	398 351	1 042 919	251 744	343 449	447 726	4	8	4	3
		2000	1 027 829	237 379	351 454	438 996	963 855	224 867	323 533	415 454	4	7	5	4
		1999	979 426	226 387	328 025	425 014	877 983	207 415	296 681	373 886	3	3	4	4
		1998	822 334	214 437	258 194	349 703	802 650	201 524	271 690	329 435	4	7	6	4
		1997	804 933	201 437	269 926	333 570	793 671	200 373	256 540	336 758	X	X	X	X
33999	All other miscellaneous mfg	2001	3 231 639	1 520 192	483 861	1 227 586	3 264 607	1 518 286	505 812	1 240 508	2	3	3	3
		2000	3 308 478	1 528 960	519 274	1 260 245	3 109 875	1 403 924	491 934	1 214 016	2	3	2	3
		1999	3 107 475	1 405 540	474 550	1 227 385	2 982 083	1 354 784	468 428	1 158 871	2	3	2	2
		1998	3 054 974	1 374 531	502 642	1 177 800	2 821 989	1 225 952	490 194	1 105 843	1	2	2	1
		1997	2 903 478	1 265 302	504 328	1 133 848	2 810 355	1 253 489	480 598	1 076 268	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 2001 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]

NAICS code	Industry group and industry		End of year				Beginning of year				Relative standard error of estimate[1] (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 mfg—Con.													
3399	Other miscellaneous mfg—Con.													
33999	All other miscellaneous mfg—Con.													
339991	Gasket, packing, & sealing device mfg	2001	636 926	292 891	131 564	212 471	641 973	287 389	142 297	212 287	7	14	5	6
		2000	646 791	291 569	142 307	212 914	657 318	294 087	135 448	227 783	6	13	3	5
		1999	589 289	263 850	106 041	219 397	582 306	284 021	110 115	188 170	6	14	4	5
		1998	561 308	281 504	99 515	180 290	580 040	295 109	101 863	183 068	6	8	7	4
		1997	589 679	297 466	106 518	185 695	588 439	303 187	105 108	180 144	X	X	X	X
339992	Musical instrument mfg	2001	445 987	168 051	102 567	175 370	418 112	148 825	97 875	171 411	4	6	8	6
		2000	421 852	149 673	98 563	173 617	369 971	119 223	89 418	161 330	3	5	8	5
		1999	373 405	120 307	90 537	162 561	334 754	106 999	96 751	131 004	3	4	7	5
		1998	362 505	124 869	108 217	129 419	332 909	94 860	105 648	132 401	3	13	3	5
		1997	332 034	94 698	105 109	132 227	319 066	101 437	102 737	114 892	X	X	X	X
339993	Fastener, button, needle, & pin mfg	2001	143 080	64 450	37 593	41 037	140 087	60 582	35 540	43 965	4	5	7	4
		2000	150 315	60 351	43 947	46 017	138 922	56 019	41 429	41 474	3	5	4	3
		1999	143 312	58 751	42 883	41 678	140 983	57 899	41 919	41 164	3	4	2	4
		1998	147 269	59 254	43 009	45 006	144 519	58 754	42 498	43 267	2	3	3	1
		1997	150 258	61 568	44 679	44 011	140 984	53 704	40 160	47 120	X	X	X	X
339994	Broom, brush, & mop mfg	2001	354 853	172 386	36 783	145 685	351 225	172 461	36 300	142 464	6	5	7	7
		2000	349 792	171 681	36 310	141 800	346 880	174 927	32 374	139 578	4	3	6	5
		1999	345 714	174 361	32 594	138 759	356 485	168 526	34 177	153 783	3	3	5	4
		1998	363 654	169 592	35 574	158 488	328 381	147 763	33 989	146 629	1	2	3	2
		1997	356 842	163 038	36 859	156 945	320 787	147 681	33 234	139 872	X	X	X	X
339995	Burial casket mfg	2001	108 333	66 658	17 385	24 289	106 303	64 145	17 178	24 980	6	5	11	9
		2000	105 683	63 780	16 970	24 932	101 842	57 471	18 136	26 235	5	5	6	9
		1999	105 434	58 273	18 796	28 365	115 309	66 314	19 125	29 870	4	4	5	6
		1998	117 159	67 827	19 043	30 289	113 384	67 925	19 178	26 281	1	1	1	1
		1997	114 667	68 930	19 039	26 698	119 982	72 334	19 588	28 060	X	X	X	X
339999	All other miscellaneous mfg	2001	1 542 461	755 758	157 969	628 734	1 606 907	784 884	176 622	645 400	3	4	4	4
		2000	1 634 045	791 905	181 175	660 965	1 494 942	702 196	175 130	617 616	3	4	4	4
		1999	1 550 320	729 999	183 698	636 623	1 452 247	671 025	166 341	614 881	3	4	4	4
		1998	1 503 077	671 486	197 283	634 308	1 322 756	561 541	187 019	574 196	1	1	2	2
		1997	1 359 998	579 602	192 124	588 272	1 321 097	575 146	179 771	566 180	X	X	X	X

[1]Description of relative standard error of estimate is given in Appendix B. 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 2000 Annual Survey of Manufactures (ASM) because of changes encountered in subsequent review of the 2001 ASM.

Note 2: The data in this table are based on the 2001 Annual Survey of Manufacturers (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. Data users who create their own estimates using data from American FactFinder tables should cite the U.S. Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix B.

Appendix A.
Explanation of Terms

BEGINNING- AND END-OF-YEAR INVENTORIES

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

Inventory Data by Stage of Fabrication

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

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

TOTAL CAPITAL EXPENDITURES (NEW AND USED)

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

Totals for expenditures include the costs of assets leased from nonmanufacturing concerns through capital leases. New facilities owned by the federal government but operated under contract by private companies and plant and equipment furnished to the manufacturer by communities and nonprofit organizations are excluded. Also excluded are expenditures for land and cost of maintenance and repairs charged as current operating expenses.

For any equipment or structure transferred for the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported.

If an establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported.

QUANTITY OF ELECTRIC ENERGY CONSUMED FOR HEAT AND POWER

Data on the quantity of purchased electric energy were collected. 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 establishments of the same company.

COST OF MATERIALS

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

Included in this item are:

1. **Cost of parts, components, containers, etc.** Includes all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year.

2. **Cost of products bought and sold without further processing.**

3. **Cost of fuels consumed for heat and power.** Includes the cost of 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 was reported on the cost of materials, parts, and containers line of this item. The term "Contract Work" refers to the fee a company pays to another company to perform a service.

Duplication in Cost of Materials and Value of 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 paper mills in the paper and allied products group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the survey.

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

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

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

VALUE OF SHIPMENTS

This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and sold without further processing. Included are all items made by or for the establishments from materials 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 multiestablishment 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.

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 industry products to bakeries in the food group and the addition of pulp mills industry products to paper mills in the paper and allied products group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the annual survey.

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

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

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

PAYROLL

This item includes the gross earnings of all employees on the payrolls of operating manufacturing establishments paid in the calendar year. Respondents were told they could follow the definition of payrolls used for calculating

the federal withholding tax. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' social security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of armed forces and pensioners carried on the active payrolls of manufacturing establishments.

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

PRODUCTION-WORKER HOURS

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

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.

EMPLOYEES

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

Production Workers

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

All Other Employees

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

FRINGE BENEFITS

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

TOTAL COMPENSATION

This term refers to the annual payroll or gross earnings paid in each calendar year to employees at the establishment. 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.

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.

Appendix B.
Coverage and Methodology

DESCRIPTION OF THE ASM SURVEY SAMPLE

The ASM sample is selected at 5-year intervals. A new sample is introduced for the second survey year subsequent to each census. Since 1999 was the second survey year following the 1997 census, a new sample was selected based on the 1997 census.

In 1997, both the Census and ASM converted from the SIC system to NAICS for purposes of assigning industrial classifications to establishments. For the most part, the overall scope of the manufacturing sector is similar under both classification systems; however, there are selected activities that are classified as manufacturing under SIC that are considered as nonmanufacturing under NAICS. The reverse is also true.

In 1997, there were approximately 366,000 individual manufacturing establishments. For sample efficiency and cost considerations, the 1997 manufacturing population was partitioned into two components: a mail stratum and a nonmail stratum.

Mail Stratum

The mail stratum of the survey is comprised of larger single-location manufacturing companies and all manufacturing establishments of multiunit companies (companies that operate at more than one physical location). Approximately 200,000 of the 366,000 establishments in the 1997 census were assigned to the mail stratum.

On an annual basis, the mail stratum is supplemented with larger, newly active single-location companies identified from a list provided by the Internal Revenue Service (IRS) and new manufacturing locations of multiunit companies identified from the Census Bureau's Company Organization Survey (COS).

For the 1999 survey, a new sample of approximately 52,000 individual establishments was selected from the mail stratum assembled from the 1997 census. Supplemental samples representing both 1998 and 1999 births (newly active establishments that were not included in the 1997 census) were also selected. Establishments selected for the sample will be mailed an ASM survey questionnaire for each year through 2003.

The 1999-2003 ASM sample design is similar to the one used since 1984. Several adjustments were made, however, to the arbitrary certainty portion of the sample. Companies in the 1997 Census of Manufactures with manufacturing shipments of at least $1 billion were defined as company certainties. (This cutoff was raised for 1999 to compensate for inflation.) For these large companies, each manufacturing establishment is included in the mail sample. For the 1999-2003 sample, there are approximately 500 certainty companies collectively accounting for over 14,000 establishments.

For the remaining portion of the mail component of the survey, the establishment was defined as the sample unit. All establishments with 500 employees or more were defined as employment certainties. (This was raised from 250 in the 1994 sample.) In addition, all establishments producing electronic computers were defined as certainties. A final certainty category, small industry certainties, was added for the 1999 sample. This category assured that all establishments of small industries (20 establishments or less) were included in the sample. Across these four arbitrary certainty classes, there were approximately 16,600 establishments included in the sample with certainty. Collectively, these certainty establishments accounted for approximately 62 percent of the total value of shipments in the 1997 Census of Manufactures.

Smaller establishments in the remaining portion of the mail stratum were sampled with probabilities ranging from .02 to 1.00. The initial probabilities of selection assigned to these establishments were proportionate to a measure-of-size determined for each establishment. The measure-of-size was a function of the establishment's 1997 industry classification and its 1997 product class data. For each product class and industry, a desired reliability constraint was specified. The product class constraints were based on product class size (1997 shipments) while the industry constraints were a function of both current size (1997 shipments) and change in size since 1992. Using a technique developed by Dr. James R. Chromy of the Research Triangle Institute, the initial establishment probabilities were optimized such that the expected sample satisfied all industry and product class reliability constraints while the sample size was minimized. This technique reduces the likelihood of selecting nonrepresentative samples for individual product classes or industries.

This method of assigning probabilities based on product class shipments is motivated by our primary desire to produce reliable estimates of both product class and industry shipments. The high correlation between shipments and employment, value-added, and other general statistics

assures that these variables will also be well represented by the sample. The actual sample selection procedure uses an independent chance of selection method (Poisson sampling).

Nonmail Component

The initial nonmail component of the ASM traditionally consists solely of small, single-establishment companies from the census of manufactures. For 1999, the initial nonmail component also included approximately 3,600 single-establishment companies that were rotated from the mail stratum to the nonmail stratum in order to prevent their selection in consecutive sample panels. The combined initial nonmail component of the 1999 sample universe contained approximately 166,000 single-establishment companies from the 1997 Census of Manufactures. The nonmail stratum is also supplemented annually using the list of newly active single-location companies provided by the IRS and payroll cutoffs. Companies with payroll below the payroll cutoff are added to the nonmail stratum.

For this portion of the population, sampling is not used. The data for this group are estimated based on selected information obtained annually from the administrative records of the IRS and Social Security Administration (SSA). This administrative information, which includes payroll, total employment, industry classification, and physical location, is obtained under conditions that safeguard the confidentiality of both tax and census records.

DESCRIPTION OF THE ASM ESTIMATING PROCEDURE

Most of the ASM estimates derived for the mail stratum are computed using a difference estimator. At the establishment level, there is a strong correlation between the current-year data values and the corresponding 1997 (base) data values. Therefore, within the mailed stratum, for each item at each level of aggregation, an estimate of the "difference" between the current year and the base year is computed from sample cases and added to the corresponding base-year values. For the 1999-2002 ASM estimates, the 1997 Census of Manufactures values serve as the base year. For the 2004 ASM, the base will be updated to the 2002 Economic Census - Manufacturing.

Because of the positive year-to-year correlation, estimates derived using this methodology are generally more reliable than comparable estimates developed from the current sample data alone. Estimates for the capital expenditures variables are not generated using the difference estimator because the year-to-year correlations are considerably weaker. The standard linear estimator is used for these variables.

For the nonmail stratum, estimates for payroll and employment are directly tabulated from the administrative-record data provided by IRS and SSA. Estimates of data other than payroll and employment are developed from industry averages. Although the nonmail stratum contains approximately 202,000 individual establishments in 1999, it accounts for only 2 percent of the estimate for total value of shipments at the total manufacturing level.

Corresponding estimates for the mail and nonmail components are combined to produce the estimates included in this publication.

QUALIFICATIONS OF THE ASM DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sample lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the difference between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of estimates.

The particular sample selected for the ASM is one of many similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretically comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected ASM statistics in this report. They are represented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, complete-coverage value for specified percentages of all the possible samples).

The complete-coverage value would be included in the range:

- From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.
- From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.
- From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the

confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown at 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during the Census Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.