

Carbon and Graphite Product Manufacturing: 2002

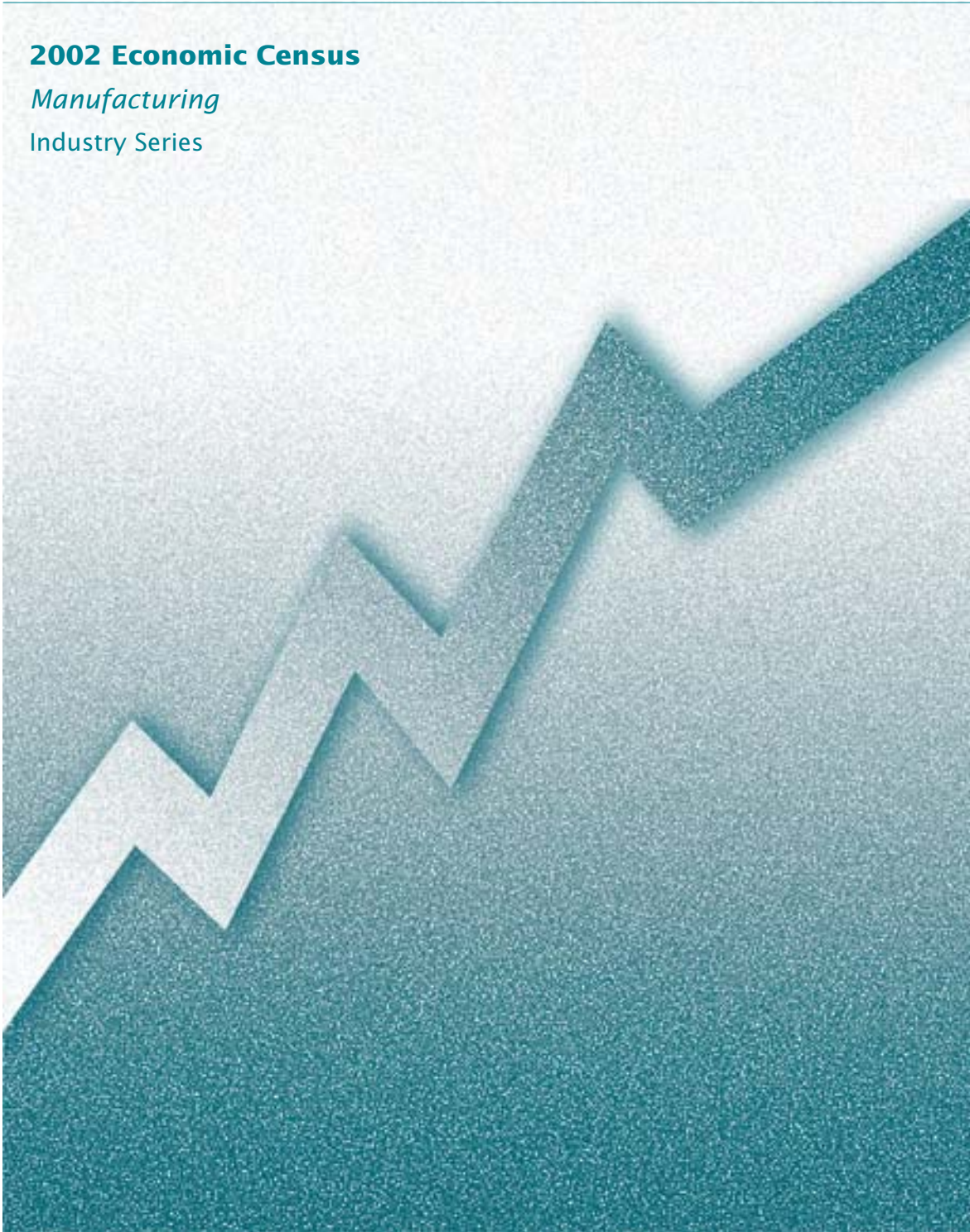
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2002 Economic Census

Manufacturing

Industry Series



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U.S. Department of Commerce
Economics and Statistics Administration
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CONTENTS

Introduction to the Economic Census	v
Manufacturing	ix
Tables	
1. Historical Statistics for the Industry: 2002 and Earlier Years ...	1
2. Industry Statistics for Selected States: 2002	2
3. Detailed Statistics by Industry: 2002	3
4. Industry Statistics by Employment Size: 2002.....	4
5. Industry Statistics by Primary Product Class Specialization: 2002	5
6a. Products Statistics: 2002 and 1997	6
6b. Product Class Shipments for Selected States: 2002 and 1997 .	7
7. Materials Consumed by Kind: 2002 and 1997.....	8
Appendixes	
A. Explanation of Terms	A-1
B. NAICS Codes, Titles, and Descriptions	B-1
C. Methodology.....	C-1
D. Geographic Notes	--
E. Metropolitan and Micropolitan Statistical Areas	--
F. Comparability of Product Classes and Product Codes: 2002 to 1997.....	F-1

-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com-panies ²	All estab-lish-ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)					
335991, Carbon and graphite product manufacturing	2002..	104	129	8 369	337 361	6 167	14 374	209 981	916 205	797 330	1 724 926	100 360
	2001..	N	N	9 174	342 410	6 838	14 652	214 806	903 240	872 776	1 767 459	57 691
	2000..	N	N	9 959	371 014	7 313	15 934	239 095	1 026 224	1 038 824	2 062 003	80 773
	1999..	N	N	10 290	378 493	7 641	16 448	247 837	1 037 140	1 007 647	2 099 032	89 666
	1998..	N	N	10 562	397 049	7 860	17 098	267 714	1 277 986	1 054 709	2 301 956	141 539
	1997..	99	124	10 691	397 781	7 980	17 533	261 158	1 267 908	1 096 041	2 340 732	179 043

¹Statistics 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).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

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

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results 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 Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
	E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)					Wages (\$1,000)
335991, Carbon and graphite product manufacturing												
United States	—	129	75	8 369	337 361	6 167	14 374	209 981	916 205	797 330	1 724 926	100 360
California	—	13	4	297	13 416	235	477	9 371	43 412	58 393	101 525	2 691
Connecticut	5	5	2	138	6 006	90	194	3 350	12 189	8 063	20 022	512
New York	—	5	5	504	22 059	371	991	14 789	36 072	83 894	121 146	2 497
Ohio	1	12	7	463	17 528	356	1 147	11 880	37 013	32 080	69 016	1 116
Pennsylvania	3	18	14	1 587	59 997	1 202	2 665	38 339	167 417	98 896	262 319	15 202
Texas	—	6	3	394	17 969	277	860	10 939	36 963	18 272	57 013	1 389
Wisconsin	—	3	3	487	17 865	371	744	10 113	39 648	28 284	66 445	1 295

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

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
335991, Carbon and graphite product manufacturing	
Companies ¹	number.. 104
All establishments ²	number.. 129
Establishments with 1 to 19 employees	number.. 54
Establishments with 20 to 99 employees	number.. 49
Establishments with 100 employees or more	number.. 26
All employees ³	number.. 8 369
Total compensation	\$1,000.. 437 133
Annual payroll	\$1,000.. 337 361
Total fringe benefits	\$1,000.. 99 772
Production workers, average for year	number.. 6 167
Production workers on March 12	number.. 6 196
Production workers on May 12	number.. 6 262
Production workers on August 12	number.. 6 107
Production workers on November 12	number.. 6 079
Production worker hours	1,000.. 14 374
Production worker wages	\$1,000.. 209 981
Total cost of materials	\$1,000.. 797 330
Materials, parts, containers, packaging, etc., used	\$1,000.. 607 323
Resales	\$1,000.. 80 635
Purchased fuels	\$1,000.. 33 502
Purchased electricity	\$1,000.. 52 105
Contract work	\$1,000.. 23 765
Quantity of electricity purchased for heat and power	1,000 kWh.. 1 100 661
Quantity of electricity generated less sold for heat and power	1,000 kWh.. -
Total value of shipments	\$1,000.. 1 724 926
Primary products value of shipments	\$1,000.. 1 570 740
Secondary products value of shipments	\$1,000.. 58 974
Total miscellaneous receipts	\$1,000.. 95 212
Value of resales	\$1,000.. 88 490
Contract receipts	\$1,000.. 992
Other miscellaneous receipts	\$1,000.. 5 730
Primary products specialization ratio	percent.. 96
Value of primary products shipments made in all industries	\$1,000.. 1 593 623
Value of primary products shipments made in this industry	\$1,000.. 1 570 740
Value of primary products shipments made in other industries	\$1,000.. 22 883
Coverage ratio	percent.. 99
Value added	\$1,000.. 916 205
Total inventories, beginning of year	\$1,000.. 425 975
Finished goods inventories	\$1,000.. 133 666
Work-in-process inventories	\$1,000.. 173 759
Materials and supplies inventories	\$1,000.. 120 330
Total inventories, end of year	\$1,000.. 400 111
Finished goods inventories	\$1,000.. 132 362
Work-in-process inventories	\$1,000.. 163 672
Materials and supplies inventories	\$1,000.. 106 048
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '1 240 620
Total capital expenditures (new and used)	\$1,000.. '100 360
Buildings and other structures (new and used)	\$1,000.. '11 436
Machinery and equipment (new and used)	\$1,000.. '88 924
Automobiles, trucks, etc., for highway use	\$1,000.. '592
Computers and peripheral data processing equipment	\$1,000.. '2 109
All other expenditures for machinery and equipment	\$1,000.. '86 223
Total retirements	\$1,000.. '71 537
Gross value of depreciable assets at end of year	\$1,000.. '1 269 443
Depreciation charges during year	\$1,000.. '108 276
Total rental payments	\$1,000.. 11 709
Buildings and other structures	\$1,000.. 5 856
Machinery and equipment	\$1,000.. 5 853
Total other expenses ⁴	\$1,000.. 101 385
Response coverage ratio ⁵	percent.. 89
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 12 838
Communications services ⁴	\$1,000.. 3 588
Legal services ⁴	\$1,000.. 3 499
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 1 599
Advertising and promotional services ⁴	\$1,000.. 2 274
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 3 209
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 2 106
Management consulting and administrative services ⁴	\$1,000.. 3 605
Taxes and license fees ⁴	\$1,000.. 7 150
All other expenses ⁴	\$1,000.. 61 518

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

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results 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 Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
335991, Carbon and graphite product manufacturing											
All establishments	—	129	8 369	337 361	6 167	14 374	209 981	916 205	797 330	1 724 926	'100 360
Establishments with—											
1 to 4 employees	9	34	b	D	D	D	D	4 066	D	D	D
5 to 9 employees	4	7	45	2 034	34	96	1 289	6 073	10 339	D	D
10 to 19 employees	6	13	156	6 303	119	227	3 870	13 414	14 876	29 176	D
20 to 49 employees	2	26	827	31 013	620	1 541	19 202	73 522	56 821	129 961	D
50 to 99 employees	—	23	1 680	67 638	1 225	3 291	42 934	173 606	202 664	373 739	'25 854
100 to 249 employees	1	20	3 391	150 138	2 483	5 793	96 198	457 868	383 809	851 916	'36 344
250 to 499 employees	—	5	1 430	54 611	1 021	2 157	31 640	149 849	93 170	245 835	D
500 to 999 employees	—	1	f	D	D	D	D	D	D	D	D
1,000 to 2,499 employees	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	36	151	6 739	116	241	4 181	15 272	13 989	29 258	'541

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

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
335991	Carbon and graphite product manufacturing	129	8 369	337 361	6 167	14 374	209 981	916 205	797 330	1 724 926	'100 360
3359911	Carbon and graphite electrodes for electric furnaces and electrolytic cell use	22	2 314	106 014	1 698	4 101	69 551	378 584	398 001	791 687	'27 400
3359913	All other carbon and graphite products	59	5 799	220 035	4 275	9 876	133 392	513 882	375 192	885 135	'71 585

¹Includes establishments with payroll at any time during the year.

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

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
335991	Carbon and graphite product manufacturing	2002.. N 1997.. N	X X	X X	1 593 623 2 202 666
3359911	Carbon and graphite electrodes for electric furnaces and electrolytic cell use	2002.. N 1997.. N	X X	X X	740 300 1 032 727
33599111	Carbon electrodes for electric furnaces and electrolytic cell use	2002.. N 1997.. N	X X	X X	188 347 166 094
3359911101	Carbon electrodes for electric furnaces and electrolytic cell use	2002.. 11 1997.. 6	X X	X X	188 347 166 094
33599112	Graphite electrodes for electric furnaces and electrolytic cell use	2002.. N 1997.. N	X X	X X	551 953 859 306
3359911204	Graphite electrodes for electric furnaces and electrolytic cell use	2002.. 13 1997.. 11	X X	X X	551 953 859 306
3359911Y	Carbon and graphite electrodes for electric furnaces and electrolytic cell use, nsk	2002.. N 1997.. N	X X	X X	— 7 327
3359911YWV	Carbon and graphite electrodes for electric furnaces and electrolytic cell use, nsk	2002.. — 1997.. N	X X	X X	— 7 327
3359913	All other carbon and graphite products	2002.. N 1997.. N	X X	X X	810 221 1 092 155
33599131	Carbon and graphite brushes, contacts, and brush plates	2002.. N 1997.. N	X X	X X	194 969 208 617
3359913101	Brushes and contacts (including automotive, fractional horsepower, and industrial brushes)	2002.. 12 1997.. 11	X X	X X	D 189 765
3359913104	Carbon and graphite brush plates	2002.. 6 1997.. 5	X X	X X	D 18 852
33599132	Carbon and graphite fibers	2002.. N 1997.. N	X X	X X	209 316 325 955
3359913207	Carbon and graphite fibers	2002.. 12 1997.. 13	X X	X X	209 316 325 955
33599133	All other carbon and graphite products, except refractories	2002.. N 1997.. N	X X	X X	395 361 557 583
3359913311	All other carbon and graphite products, except refractories, for electrical uses, including welding products, illuminating carbons, battery (except silver or other metal contacts)	2002.. 13 1997.. 12	X X	X X	94 761 108 616
3359913313	All other carbon and graphite products, except refractories, for mechanical uses, rotor vanes, and other uses where motion is between two parts, except metallic oilless bearings	2002.. 12 1997.. 13	X X	X X	96 579 154 370
3359913316	All other carbon and graphite products, except refractories, for aerospace uses, including machined and unmachined stock	2002.. 9 1997.. 5	X X	X X	D D
3359913319	All other carbon and graphite paste products, except refractories, for all other uses (including chemical, metallurgical, etc.)	2002.. 3 1997.. 2	X X	X X	D D
3359913322	All other carbon and graphite products, except refractories, for all other uses (including chemical, metallurgical, etc.)	2002.. 15 1997.. 16	X X	X X	130 625 230 529
3359913Y	All other carbon and graphite products, nsk	2002.. N 1997.. N	X X	X X	10 575 —
3359913YWV	All other carbon and graphite products, nsk	2002.. N 1997.. N	X X	X X	10 575 —
335991W	Carbon and graphite product manufacturing, nsk, total	2002.. N 1997.. N	X X	X X	43 102 77 784
335991WY	Carbon and graphite product manufacturing, nsk, total	2002.. N 1997.. N	X X	X X	43 102 77 784
335991WYWW	Carbon and graphite product manufacturing, nsk, for nonadministrative-record establishments	2002.. N 1997.. N	X X	X X	14 646 19 901
335991WYWY	Carbon and graphite product manufacturing, nsk, for administrative-record establishments	2002.. N 1997.. N	X X	X X	28 456 57 883

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3359911	Carbon and graphite electrodes for electric furnaces and electrolytic cell use	
	United States.....	2002.. 740 300 1997.. 1 032 727
	Ohio	2002.. 27 740 1997.. 21 550
	Pennsylvania.....	2002.. 85 745 1997.. N
3359913	All other carbon and graphite products	
	United States.....	2002.. 810 221 1997.. 1 092 155
	California	2002.. 86 433 1997.. 107 884
	New Jersey	2002.. 26 394 1997.. N
	New York	2002.. 19 191 1997.. 47 870
	Ohio	2002.. 34 356 1997.. 101 259
	Pennsylvania.....	2002.. 173 540 1997.. 235 546
	Wisconsin	2002.. 52 305 1997.. N

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
335991	Carbon and graphite product manufacturing		
00900001	Total materials	X	607 323
	.....2002..	X	905 563
	.....1997..	X	D
33100035	Castings, rough and semifinished.....	X	D
	.....2002..	X	D
	.....1997..	X	
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	D
	.....1997..	X	
32519227	Pitch	X	50 815
	.....2002..	X	50 848
	.....1997..	X	
32419900	Coke (petroleum, metallurgical, calcined, foundry, etc.), used as raw material	X	171 823
	.....2002..	X	191 885
	.....1997..	X	
32799213	Natural graphite	X	6 842
	.....2002..	X	25 697
	.....1997..	X	
32799901	Artificial graphite	X	39 036
	.....2002..	X	27 111
	.....1997..	X	
32799201	Carbon, ground or treated	X	33 556
	.....2002..	X	43 406
	.....1997..	X	
00970099	All other materials and components, parts, containers, and supplies	X	200 480
	.....2002..	X	495 572
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	99 164
	.....2002..	X	62 920
	.....1997..	X	

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.