

Pen and Mechanical Pencil Manufacturing: 2002

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2002 Economic Census

Manufacturing

Industry Series



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

Helping You Make Informed Decisions

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



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-- 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 expendi- tures (\$1,000)
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
339941, Pen and mechanical pencil manufacturing	2002.. 85	88	5 990	213 352	4 253	8 508	119 510	687 958	393 995	1 068 331	28 552
	2001.. N	N	7 297	236 019	5 269	9 583	126 772	858 150	501 551	1 366 692	44 292
	2000.. N	N	8 153	265 613	5 970	11 768	166 665	914 194	629 127	1 593 920	53 043
	1999.. N	N	8 120	255 494	5 872	11 463	156 675	928 016	620 731	1 553 812	64 839
	1998.. N	N	8 816	283 311	6 357	12 469	163 377	1 051 542	692 677	1 733 487	72 325
	1997.. 106	110	8 198	255 377	5 832	11 664	153 241	916 161	660 538	1 538 812	52 784

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)				
339941, Pen and mechanical pencil manufacturing												
United States	3	88	40	5 990	213 352	4 253	8 508	119 510	687 958	393 995	1 068 331	128 552
California	—	13	3	756	29 051	637	1 068	20 216	65 948	50 573	106 663	8 760
Florida	—	5	4	1 094	40 640	706	1 405	21 183	129 419	74 137	203 706	2 210
New Jersey	1	13	5	294	8 148	220	447	5 329	17 651	13 198	30 706	1273
New York	3	11	6	521	16 526	417	827	10 539	38 292	29 410	67 799	11 102

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
339941, Pen and mechanical pencil manufacturing	
Companies ¹	number.. 85
All establishments ²	number.. 88
Establishments with 1 to 19 employees	number.. 48
Establishments with 20 to 99 employees	number.. 28
Establishments with 100 employees or more	number.. 12
All employees ³	number.. 5 990
Total compensation	\$1,000.. 270 086
Annual payroll	\$1,000.. 213 352
Total fringe benefits	\$1,000.. 56 734
Production workers, average for year	number.. 4 253
Production workers on March 12	number.. 4 119
Production workers on May 12	number.. 4 331
Production workers on August 12	number.. 4 245
Production workers on November 12	number.. 4 316
Production worker hours	1,000.. 8 508
Production worker wages	\$1,000.. 119 510
Total cost of materials	\$1,000.. 393 995
Materials, parts, containers, packaging, etc., used	\$1,000.. 350 846
Resales	\$1,000.. 23 041
Purchased fuels	\$1,000.. 889
Purchased electricity	\$1,000.. 9 838
Contract work	\$1,000.. 9 381
Quantity of electricity purchased for heat and power	1,000 kWh.. 143 060
Quantity of electricity generated less sold for heat and power	1,000 kWh.. D
Total value of shipments	\$1,000.. 1 068 331
Primary products value of shipments	\$1,000.. 967 427
Secondary products value of shipments	\$1,000.. 64 764
Total miscellaneous receipts	\$1,000.. 36 140
Value of resales	\$1,000.. 34 883
Contract receipts	\$1,000.. 784
Other miscellaneous receipts	\$1,000.. 473
Primary products specialization ratio	percent.. 94
Value of primary products shipments made in all industries	\$1,000.. 1 281 166
Value of primary products shipments made in this industry	\$1,000.. 967 427
Value of primary products shipments made in other industries	\$1,000.. 313 739
Coverage ratio	percent.. 76
Value added	\$1,000.. 687 958
Total inventories, beginning of year	\$1,000.. 119 421
Finished goods inventories	\$1,000.. 32 748
Work-in-process inventories	\$1,000.. 34 533
Materials and supplies inventories	\$1,000.. 52 140
Total inventories, end of year	\$1,000.. 131 215
Finished goods inventories	\$1,000.. 40 677
Work-in-process inventories	\$1,000.. 40 226
Materials and supplies inventories	\$1,000.. 50 312
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '566 895
Total capital expenditures (new and used)	\$1,000.. '28 552
Buildings and other structures (new and used)	\$1,000.. '1 705
Machinery and equipment (new and used)	\$1,000.. '26 847
Automobiles, trucks, etc., for highway use	\$1,000.. '576
Computers and peripheral data processing equipment	\$1,000.. '3 968
All other expenditures for machinery and equipment	\$1,000.. '22 303
Total retirements	\$1,000.. '26 840
Gross value of depreciable assets at end of year	\$1,000.. '568 607
Depreciation charges during year	\$1,000.. '29 482
Total rental payments	\$1,000.. 11 139
Buildings and other structures	\$1,000.. 7 103
Machinery and equipment	\$1,000.. 4 036
Total other expenses ⁴	\$1,000.. 39 306
Response coverage ratio ⁵	percent.. 78
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 4 997
Communications services ⁴	\$1,000.. 1 409
Legal services ⁴	\$1,000.. 599
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 562
Advertising and promotional services ⁴	\$1,000.. 11 188
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 1 033
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 956
Management consulting and administrative services ⁴	\$1,000.. 4 419
Taxes and license fees ⁴	\$1,000.. 2 674
All other expenses ⁴	\$1,000.. 11 468

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)				
339941, Pen and mechanical pencil manufacturing											
All establishments	3	88	5 990	213 352	4 253	8 508	119 510	687 958	393 995	1 068 331	'28 552
Establishments with—											
1 to 4 employees	9	27	58	2 015	42	69	1 154	4 188	2 736	6 922	'105
5 to 9 employees	9	8	49	1 860	39	71	1 136	4 356	3 002	7 358	'116
10 to 19 employees	6	13	167	6 007	136	251	3 725	13 914	11 524	25 371	'293
20 to 49 employees	3	16	572	18 185	438	887	10 665	46 099	29 198	74 939	'1 261
50 to 99 employees	—	12	871	26 318	597	1 210	14 710	83 705	69 779	149 410	'4 238
100 to 249 employees	—	7	1 143	34 585	832	1 572	21 360	65 277	52 219	116 128	3 207
250 to 499 employees	—	—	—	—	—	—	—	—	—	—	—
500 to 999 employees	4	5	3 130	124 382	2 169	4 448	66 760	470 419	225 537	688 203	'19 332
1,000 to 2,499 employees	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	42	209	7 794	164	293	4 717	17 889	12 179	30 066	'468

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)				
339941	Pen and mechanical pencil manufacturing	88	5 990	213 352	4 253	8 508	119 510	687 958	393 995	1 068 331	28 552
3399411	Ballpoint and roller pens	21	3 073	106 082	2 257	4 719	63 787	316 839	199 319	509 265	13 780
3399413	Markers	10	1 065	45 697	565	1 156	16 455	245 926	100 266	345 906	4 977
3399415	Other pens, mechanical pencils, and parts for pens, markers, and mechanical pencils	15	1 643	53 779	1 267	2 340	34 551	107 304	82 231	183 094	9 327

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)
339941	Pen and mechanical pencil manufacturing	2002.. N 1997.. N	X X	X X	1 281 166 1 561 179
3399411	Ballpoint and roller pens	2002.. N 1997.. N	X X	X X	581 874 772 423
33994111	Refillable ballpoint pens	2002.. N 1997.. N	X X	X X	164 152 237 455
3399411101	Refillable ballpoint pens	2002.. 23 1997.. 23	X X	X X	164 152 237 455
33994112	Nonrefillable ballpoint pens	2002.. N 1997.. N	X X	X X	327 509 299 217
3399411206	Nonrefillable ballpoint pens	2002.. 12 1997.. 25	X X	X X	327 509 299 217
33994113	Roller pens	2002.. N 1997.. N	X X	X X	84 542 223 381
3399411311	Roller pens	2002.. 10 1997.. 16	X X	X X	84 542 223 381
3399411Y	Ballpoint and roller pens, nsk	2002.. N 1997.. N	X X	X X	5 671 12 370
3399411YVW	Ballpoint and roller pens, nsk	2002.. N 1997.. N	X X	X X	5 671 12 370
3399413	Markers	2002.. N 1997.. N	X X	X X	477 209 488 656
33994131	Fine-point markers (thin-line writing pens)	2002.. N 1997.. N	X X	X X	158 026 187 036
3399413101	Fine-point markers (thin-line writing pens)	2002.. 14 1997.. 12	X X	X X	158 026 187 036
33994132	Broad-tipped markers (thick-line coloring pens and markers)	2002.. N 1997.. N	X X	X X	317 911 300 091
3399413206	Broad-tipped markers (thick-line coloring pens and markers)	2002.. 18 1997.. 23	X X	X X	317 911 300 091
3399413Y	Markers, nsk	2002.. N 1997.. N	X X	X X	1 272 1 529
3399413YVW	Markers, nsk	2002.. N 1997.. N	X X	X X	1 272 1 529
3399415	Other pens, mechanical pencils, and parts for pens, markers, and mechanical pencils	2002.. N 1997.. N	X X	X X	189 233 254 336
33994151	Other pens, mechanical pencils, and parts for pens, markers, and mechanical pencils	2002.. N 1997.. N	X X	X X	188 545 213 809
3399415101	Mechanical pencils, including clutch-action and twist-action mechanical pencils	2002.. 13 1997.. 13	X X	X X	41 899 67 766
3399415113	Refill cartridges for pens and markers	2002.. 9 1997.. N	X X	X X	15 438 N
3399415116	Other pens and parts for pens, markers, and mechanical pencils, including desk sets, fountain pens, pen points, and renewal parts	2002.. 17 1997.. 33	X X	X X	131 208 121 098
3399415Y	Other pens, mechanical pencils, and parts for pens, markers, and mechanical pencils, nsk	2002.. N 1997.. N	X X	X X	688 40 527
3399415YVW	Other pens, mechanical pencils, and parts for pens, markers, and mechanical pencils, nsk	2002.. N 1997.. N	X X	X X	688 40 527
339941W	Pen and mechanical pencil manufacturing, nsk, total	2002.. N 1997.. N	X X	X X	32 850 45 764
339941WY	Pen and mechanical pencil manufacturing, nsk, total	2002.. N 1997.. N	X X	X X	32 850 45 764
339941WYVW	Pen and mechanical pencil manufacturing, nsk, for nonadministrative-record establishments	2002.. N 1997.. N	X X	X X	7 108 22 502
339941WYVY	Pen and mechanical pencil manufacturing, nsk, for administrative-record establishments	2002.. N 1997.. N	X X	X X	25 742 23 262

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)
3399411	Ballpoint and roller pens	
	United States.....	2002.. 581 874 1997.. 772 423
	California	2002.. 50 249 1997.. N
	New Jersey	2002.. 13 045 1997.. N
	New York	2002.. 29 841 1997.. 21 244
3399413	Markers	
	United States.....	2002.. 477 209 1997.. 488 656
	New Jersey	2002.. 17 821 1997.. N
	New York	2002.. 15 709 1997.. 13 746
3399415	Other pens, mechanical pencils, and parts for pens, markers, and mechanical pencils	
	United States.....	2002.. 189 233 1997.. 254 336
	California	2002.. 49 184 1997.. 42 143
	Florida	2002.. 13 188 1997.. N
	New Jersey	2002.. 13 457 1997.. 27 661

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)
339941	Pen and mechanical pencil manufacturing		
00900001	Total materials	X	350 846
	.....2002..	X	543 759
	.....1997..	X	D
32100001	Lumber and wood products (excluding furniture)	X	D
	.....2002..	X	D
	.....1997..	X	13 754
32221001	Paperboard containers, boxes, and corrugated paperboard	X	33 932
	.....2002..	X	
	.....1997..	X	
32513005	Pigments, lakes, and toners (organic and inorganic)	X	D
	.....2002..	X	D
	.....1997..	X	6 152
32500059	Other chemicals and allied products	X	13 169
	.....2002..	X	20 772
	.....1997..	X	67 772
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	
	.....2002..	X	11 814
	.....1997..	X	41 945
33200005	Fabricated metal products, including forgings	X	125 174
33994100	Pens and mechanical pencils parts	X	177 326
	.....2002..	X	155 110
	.....1997..	X	112 567
00970099	All other materials and components, parts, containers, and supplies	X	9 477
	.....2002..	X	31 605
	.....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.