

Copper Wire (Except Mechanical) Drawing: 2002

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2002 Economic Census

Manufacturing

Industry Series



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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)				
331422, Copper wire (except mechanical) drawing	2002.. 79	107	11 480	455 068	8 195	16 753	265 746	1 254 658	1 721 026	3 020 874	52 227
	2001.. N	N	3 952	133 305	2 824	5 832	83 618	357 607	421 065	781 947	26 639
	2000.. N	N	3 953	135 454	2 851	6 106	87 157	433 043	488 775	915 068	28 406
	1999.. N	N	3 493	110 208	2 489	5 333	71 938	363 153	407 660	774 539	36 159
	1998.. N	N	4 476	132 770	3 428	6 891	85 684	378 141	662 505	1 050 400	58 172
	1997.. 33	36	4 238	124 240	3 191	6 593	82 651	324 392	659 613	983 284	41 788

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	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)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
331422, Copper wire (except mechanical) drawing												
United States.....	-	107	76	11 480	455 068	8 195	16 753	265 746	1 254 658	1 721 026	3 020 874	152 227
Connecticut	-	7	3	233	9 514	189	400	7 277	23 621	33 873	56 292	948
Massachusetts	-	12	11	887	33 864	603	1 222	19 891	75 536	161 938	238 052	12 946

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
331422, Copper wire (except mechanical) drawing	
Companies ¹	number.. 79
All establishments ²	number.. 107
Establishments with 1 to 19 employees	number.. 31
Establishments with 20 to 99 employees	number.. 38
Establishments with 100 employees or more	number.. 38
All employees ³	number.. 11 480
Total compensation	\$1,000.. 602 675
Annual payroll	\$1,000.. 455 068
Total fringe benefits	\$1,000.. 147 607
Production workers, average for year	number.. 8 195
Production workers on March 12	number.. 7 907
Production workers on May 12	number.. 8 462
Production workers on August 12	number.. 8 218
Production workers on November 12	number.. 8 164
Production worker hours	1,000.. 16 753
Production worker wages	\$1,000.. 265 746
Total cost of materials	\$1,000.. 1 721 026
Materials, parts, containers, packaging, etc., used	\$1,000.. 1 576 430
Resales	\$1,000.. 79 352
Purchased fuels	\$1,000.. 11 601
Purchased electricity	\$1,000.. 42 251
Contract work	\$1,000.. 11 392
Quantity of electricity purchased for heat and power	1,000 kWh.. 770 970
Quantity of electricity generated less sold for heat and power	1,000 kWh.. 8 855
Total value of shipments	\$1,000.. 3 020 874
Primary products value of shipments	\$1,000.. 2 343 751
Secondary products value of shipments	\$1,000.. 508 824
Total miscellaneous receipts	\$1,000.. 168 299
Value of resales	\$1,000.. 92 021
Contract receipts	\$1,000.. D
Other miscellaneous receipts	\$1,000.. D
Primary products specialization ratio	percent.. 82
Value of primary products shipments made in all industries	\$1,000.. 2 575 615
Value of primary products shipments made in this industry	\$1,000.. 2 343 751
Value of primary products shipments made in other industries	\$1,000.. 231 864
Coverage ratio	percent.. 91
Value added	\$1,000.. 1 254 658
Total inventories, beginning of year	\$1,000.. 411 922
Finished goods inventories	\$1,000.. 203 342
Work-in-process inventories	\$1,000.. 88 997
Materials and supplies inventories	\$1,000.. 119 583
Total inventories, end of year	\$1,000.. 338 005
Finished goods inventories	\$1,000.. 170 096
Work-in-process inventories	\$1,000.. 77 053
Materials and supplies inventories	\$1,000.. 90 856
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. 1 722 384
Total capital expenditures (new and used)	\$1,000.. '52 227
Buildings and other structures (new and used)	\$1,000.. '3 266
Machinery and equipment (new and used)	\$1,000.. '48 961
Automobiles, trucks, etc., for highway use	\$1,000.. '690
Computers and peripheral data processing equipment	\$1,000.. '8 111
All other expenditures for machinery and equipment	\$1,000.. '40 160
Total retirements	\$1,000.. '74 214
Gross value of depreciable assets at end of year	\$1,000.. '1 700 397
Depreciation charges during year	\$1,000.. '108 832
Total rental payments	\$1,000.. 22 470
Buildings and other structures	\$1,000.. 14 293
Machinery and equipment	\$1,000.. 8 177
Total other expenses ⁴	\$1,000.. 189 926
Response coverage ratio ⁵	percent.. 92
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 27 543
Communications services ⁴	\$1,000.. 6 849
Legal services ⁴	\$1,000.. 5 872
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 2 720
Advertising and promotional services ⁴	\$1,000.. 5 656
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 3 097
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 3 512
Management consulting and administrative services ⁴	\$1,000.. 10 622
Taxes and license fees ⁴	\$1,000.. 9 588
All other expenses ⁴	\$1,000.. 114 466

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)				
331422, Copper wire (except mechanical) drawing											
All establishments	—	107	11 480	455 068	8 195	16 753	265 746	1 254 658	1 721 026	3 020 874	'52 227
Establishments with—											
1 to 4 employees	9	10	26	799	20	40	578	1 186	2 821	4 007	'61
5 to 9 employees	9	9	55	1 801	44	92	1 273	2 699	6 293	9 034	'221
10 to 19 employees	4	12	c	D	D	D	D	D	D	D	D
20 to 49 employees	3	16	566	21 359	408	886	14 749	37 324	80 624	125 385	'1 502
50 to 99 employees	—	22	1 689	58 004	1 387	2 833	42 482	164 472	311 169	475 336	'6 438
100 to 249 employees	—	28	4 373	156 585	3 229	6 870	99 131	440 712	802 460	1 257 088	'19 581
250 to 499 employees	—	8	g	82 483	1 788	3 192	58 079	241 980	289 393	543 116	'8 410
500 to 999 employees	—	1	f	D	D	D	D	D	D	D	D
1,000 to 2,499 employees	—	1	g	D	D	D	D	D	D	D	D
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	23	416	13 885	339	741	9 961	23 133	53 011	75 302	'1 148

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)				
331422	Copper wire (except mechanical) drawing	107	11 480	455 068	8 195	16 753	265 746	1 254 658	1 721 026	3 020 874	'52 227
3314222	Copper and copper-base alloy wire, strand, and cable, made in plants that draw wire	35	3 453	111 977	2 764	5 622	81 308	289 544	394 409	691 540	'15 031
3314224	Copper wire and cable, including apparatus wire, cord, and flexible cord sets, made in copper wire drawing plants	26	5 069	223 743	3 178	6 707	101 337	587 082	729 557	1 336 113	23 991
3314225	Copper magnet wire (except fiber optic), made in plants that draw wire	21	2 664	107 916	2 037	3 943	75 475	365 106	570 021	953 256	'12 666

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)
331422	Copper wire (except mechanical) drawing	2002.. N 1997.. N	X X	X X	2 575 615 914 402
3314222	Copper and copper-base alloy wire, strand, and cable, made in plants that draw wire	2002.. N 1997.. N	X X	X X	707 440 N
33142221	Bare copper wire for electrical transmission, made in plants that draw wire	2002.. N 1997.. N	X X	X X	212 301 N
3314222101	Bare unalloyed copper wire for electrical transmission, made in plants that draw wire	1,000 s tons. 2002.. 12 1997.. N	S N	S N	116 015 N
3314222106	Bare alloyed copper wire for electrical transmission, made in plants that draw wire	2002.. 7 1997.. N	X X	X X	96 286 N
33142222	Other copper and copper-base alloy wire, strand, and cable, made in plants that draw wire	2002.. N 1997.. N	X X	X X	495 139 N
3314222211	Bare copper and copper-base alloy strand and cable for electrical transmission, made in plants that draw wire	1,000 s tons. 2002.. 21 1997.. N	S N	S N	271 085 N
3314222216	Other copper and copper-base alloy wire, strand, and cable (including wire cloth, woven wire products, and electrical wire rod), made in plants that draw wire	2002.. 16 1997.. N	X X	X X	224 054 N
3314222Y	Copper and copper-base alloy wire, strand, and cable, made in plants that draw wire, nsk	2002.. N 1997.. N	X X	X X	- N
3314222YV	Copper and copper-base alloy wire, strand, and cable, made in plants that draw wire, nsk	2002.. N 1997.. N	X X	X X	- N
3314224	Copper wire and cable, including apparatus wire, cord, and flexible cord sets, made in copper wire drawing plants	2002.. N 1997.. N	X X	X X	1 059 334 N
33142242	Copper wire and cable, including apparatus wire, cord, and flexible cord sets, made in copper wire drawing plants	2002.. N 1997.. N	X X	X X	1 059 334 N
3314224213	Insulated copper wire and cable for electrical transmission, made in copper wire drawing plants	2002.. 19 1997.. N	X X	X X	735 339 N
3314224218	Copper apparatus wire and cord and flexible cord sets (except wiring harnesses and fiber optic), made in plants that draw wire ¹	2002.. 18 1997.. N	X X	X X	323 995 N
3314224Y	Copper wire and cable, including apparatus wire, cord, and flexible cord sets, made in copper wire drawing plants, nsk	2002.. N 1997.. N	X X	X X	- N
3314224YV	Copper wire and cable, including apparatus wire, cord, and flexible cord sets, made in copper wire drawing plants, nsk	2002.. N 1997.. N	X X	X X	- N
3314225	Copper magnet wire (except fiber optic), made in plants that draw wire	2002.. N 1997.. N	X X	X X	769 401 N
33142251	Copper magnet wire (except fiber optic), made in plants that draw wire	2002.. N 1997.. N	X X	X X	769 401 N
3314225100	Copper magnet wire (except fiber optic), made in plants that draw wire ²	2002.. 14 1997.. N	X X	X X	769 401 N
331422W	Copper wire (except mechanical) drawing, nsk, total	2002.. N 1997.. N	X X	X X	39 440 -
331422WY	Copper wire (except mechanical) drawing, nsk, total	2002.. N 1997.. N	X X	X X	39 440 -
331422WYV	Copper wire (except mechanical) drawing, nsk, for nonadministrative-record establishments	2002.. N 1997.. N	X X	X X	15 517 -
331422WYVY	Copper wire (except mechanical) drawing, nsk, for administrative-record establishments	2002.. N 1997.. N	X X	X X	23 923 -

¹This product code is primary to more than one industry. See industries 331319, 331491 and 335999, product codes 331319E101, 331491F100 and 335999B100.
²For additional detail, see Current Industrial Report MA335J, Insulated Wire and Cable.

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)
3314222	Copper and copper-base alloy wire, strand, and cable, made in plants that draw wire	
	United States.....	2002.. 707 440
		1997.. N
	Connecticut.....	2002.. 26 308
		1997.. N
	Massachusetts.....	2002.. 78 720
	1997.. N	
3314224	Copper wire and cable, including apparatus wire, cord, and flexible cord sets, made in copper wire drawing plants	
	United States.....	2002.. 1 059 334
		1997.. N
	Massachusetts.....	2002.. 148 775
	1997.. N	
3314225	Copper magnet wire (except fiber optic), made in plants that draw wire	
	United States.....	2002.. 769 401
	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)
331422	Copper wire (except mechanical) drawing		
00900001	Total materials	X	1 576 430
		X	643 239
33142127	Unalloyed copper and copper-base alloy rods mil lb. .2002..	P502.0	422 648
		P210.1	234 660
33142119	Copper and copper-base alloy wire for redrawing mil lb. .2002..	355.0	287 903
		1997..	39 897
33100091	Bare copper and copper-base alloy wire, electrical (excluding wire for redrawing) mil lb. .2002..	88.5	98 421
		1997..	12 248
331000A5	Insulated copper wire and cable	X	D
		X	56 280
33142147	All other copper and copper-base alloy shapes and forms (including wire bar) mil lb. .2002..	S	149 958
		1997..	70 559
33100080	All other nonferrous metal shapes and forms (excluding copper and copper-base alloy electrical bare wire, insulated wire and cable, castings, forgings, and fabricated metal products) mil lb. .2002..	D	D
		N	N
32500045	Chemicals, all types (including propellants)	X	160 068
		X	N
00970099	All other materials and components, parts, containers, and supplies	X	308 948
		X	229 595
00971000	Materials, ingredients, containers, and supplies, nsk	X	86 960
		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.