

Construction Machinery Manufacturing: 2002

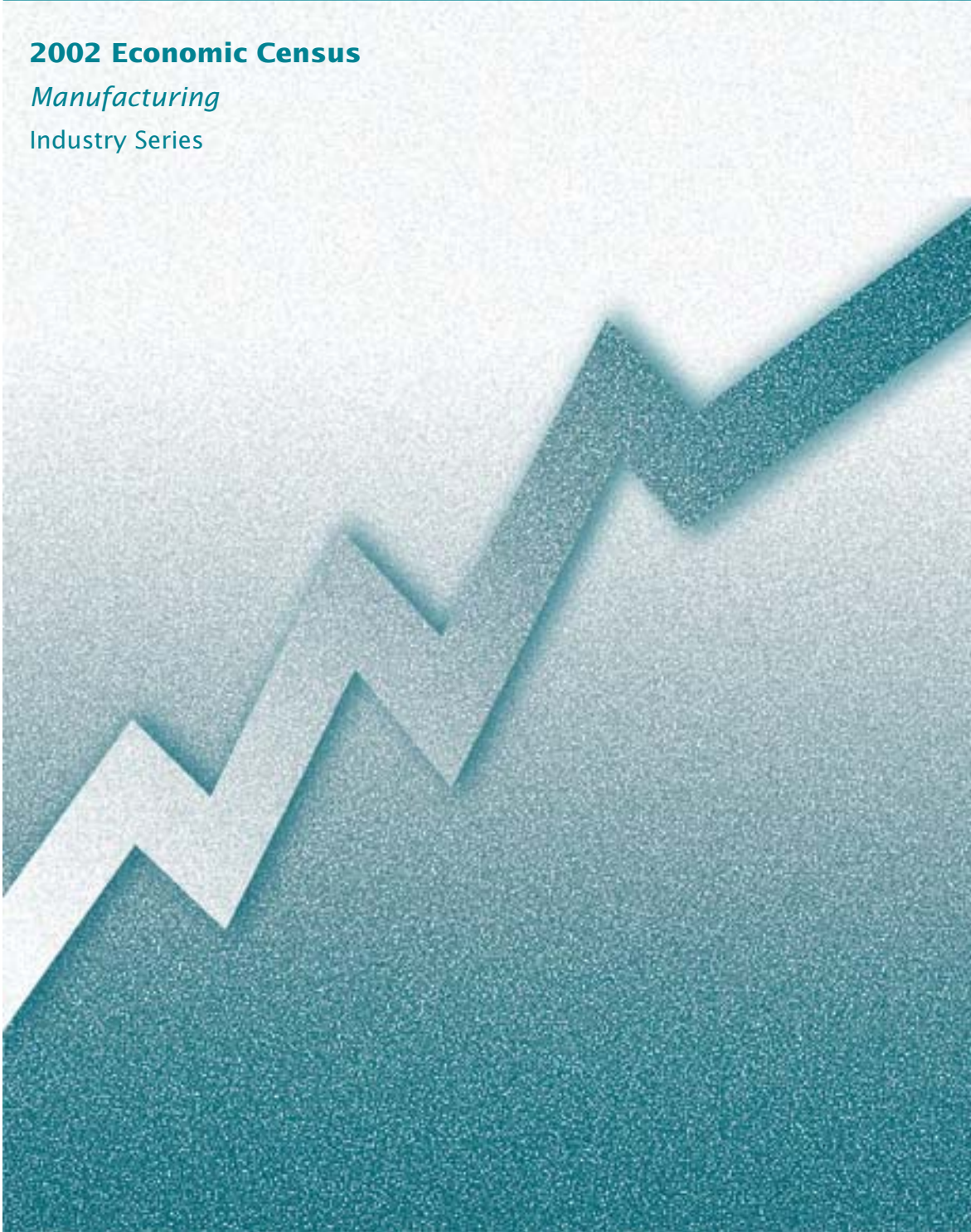
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2002 Economic Census

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 expenditures (\$1,000)	
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)					
333120, Construction machinery manufacturing	2002..	714	803	57 890	2 520 025	36 124	70 360	1 378 045	7 639 061	11 275 344	19 189 376	365 046
	2001..	N	N	67 129	2 753 485	43 731	85 565	1 539 929	8 373 518	12 095 538	20 587 760	399 733
	2000..	N	N	72 410	2 913 266	48 649	97 054	1 732 401	9 092 622	13 870 799	22 978 686	499 580
	1999..	N	N	72 176	2 923 783	48 520	97 259	1 717 093	8 462 693	13 441 165	21 920 703	572 739
	1998..	N	N	74 353	3 058 775	50 207	101 370	1 799 088	10 503 142	13 867 808	24 022 676	584 693
	1997..	723	786	74 741	2 990 139	50 448	102 360	1 780 033	9 129 152	12 834 054	22 117 440	492 550

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)				
333120, Construction machinery manufacturing												
United States	1	803	355	57 890	2 520 025	36 124	70 360	1 378 045	7 639 061	11 275 344	19 189 376	'365 046
Alabama	—	10	2	622	29 094	448	785	17 710	14 664	142 855	166 510	'1 697
Arizona	5	7	4	270	12 353	216	380	8 667	23 812	37 470	61 368	'280
California	4	65	16	926	38 612	610	1 231	22 529	87 241	74 037	161 418	'4 976
Florida	4	25	8	522	18 619	365	685	11 006	45 166	58 090	104 593	'2 293
Georgia	7	14	7	647	27 560	424	892	15 925	129 611	210 107	342 515	'6 914
Idaho	2	9	4	339	12 199	213	459	7 006	18 925	34 048	53 201	'834
Illinois	—	53	27	8 928	511 921	5 026	11 288	260 839	1 495 034	2 755 851	4 462 918	'120 292
Indiana	1	29	9	1 083	43 147	690	1 135	24 104	91 886	153 829	249 515	'3 711
Kansas	—	22	13	1 940	77 104	1 351	2 921	39 494	292 974	361 379	661 499	'8 520
Kentucky	—	12	9	1 154	42 571	866	1 266	26 920	77 479	183 041	273 038	'9 238
Michigan	—	27	17	1 103	44 043	783	1 560	27 363	134 182	142 996	280 475	'3 896
Minnesota	—	32	14	1 574	70 673	983	1 862	35 616	139 360	233 546	396 477	'14 554
New Mexico	2	6	1	106	4 232	85	176	2 870	7 127	8 274	15 548	'187
New York	3	28	10	714	29 097	467	821	16 373	59 194	74 593	133 012	'3 835
North Carolina	—	21	15	2 562	110 608	1 763	3 298	64 911	595 775	1 455 401	2 000 065	'15 200
Ohio	1	49	23	2 018	75 900	1 383	2 821	44 011	233 509	203 848	459 078	'6 857
Oklahoma	3	23	12	2 573	95 750	1 584	3 060	47 237	274 651	287 447	552 798	'8 705
Oregon	6	19	5	679	30 493	386	770	15 116	58 261	73 491	131 793	'3 618
Pennsylvania	—	33	19	3 339	154 196	2 124	4 291	82 218	340 330	585 811	921 006	'16 348
South Dakota	—	14	10	1 211	41 777	825	1 712	24 523	119 415	140 331	266 722	'1 929
Tennessee	2	19	9	2 328	95 878	1 678	3 183	60 777	265 178	482 548	743 045	'10 093
Texas	3	47	18	2 721	103 245	1 749	3 591	59 549	162 727	272 440	418 430	'8 477
Utah	3	7	3	128	4 071	93	158	2 462	16 884	9 722	27 009	'851
Virginia	2	11	6	443	16 666	308	601	8 894	37 206	62 143	99 206	'1 900
Washington	2	23	5	372	15 792	211	433	7 718	38 511	33 280	70 540	'1 925
Wisconsin	—	53	32	5 989	287 563	3 398	5 773	147 718	744 317	907 251	1 673 468	'37 233

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
333120, Construction machinery manufacturing	
Companies ¹	number.. 714
All establishments ²	number.. 803
Establishments with 1 to 19 employees	number.. 448
Establishments with 20 to 99 employees	number.. 241
Establishments with 100 employees or more	number.. 114
All employees ³	number.. 57 890
Total compensation	\$1,000.. 3 332 353
Annual payroll	\$1,000.. 2 520 025
Total fringe benefits	\$1,000.. 812 328
Production workers, average for year	number.. 36 124
Production workers on March 12	number.. 35 834
Production workers on May 12	number.. 37 019
Production workers on August 12	number.. 36 441
Production workers on November 12	number.. 35 120
Production worker hours	1,000.. 70 360
Production worker wages	\$1,000.. 1 378 045
Total cost of materials	\$1,000.. 11 275 344
Materials, parts, containers, packaging, etc., used	\$1,000.. 9 620 949
Resales	\$1,000.. 1 380 125
Purchased fuels	\$1,000.. 51 180
Purchased electricity	\$1,000.. 75 897
Contract work	\$1,000.. 147 193
Quantity of electricity purchased for heat and power	1,000 kWh.. 1 546 360
Quantity of electricity generated less sold for heat and power	1,000 kWh.. D
Total value of shipments	\$1,000.. 19 189 376
Primary products value of shipments	\$1,000.. 16 067 160
Secondary products value of shipments	\$1,000.. 1 131 232
Total miscellaneous receipts	\$1,000.. 1 990 984
Value of resales	\$1,000.. 1 811 080
Contract receipts	\$1,000.. 11 978
Other miscellaneous receipts	\$1,000.. 167 926
Primary products specialization ratio	percent.. 93
Value of primary products shipments made in all industries	\$1,000.. 16 588 722
Value of primary products shipments made in this industry	\$1,000.. 16 067 160
Value of primary products shipments made in other industries	\$1,000.. 521 562
Coverage ratio	percent.. 97
Value added	\$1,000.. 7 639 061
Total inventories, beginning of year	\$1,000.. 3 468 379
Finished goods inventories	\$1,000.. 1 402 489
Work-in-process inventories	\$1,000.. 916 680
Materials and supplies inventories	\$1,000.. 1 149 210
Total inventories, end of year	\$1,000.. 3 182 211
Finished goods inventories	\$1,000.. 1 259 680
Work-in-process inventories	\$1,000.. 784 518
Materials and supplies inventories	\$1,000.. 1 138 013
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '5 969 044
Total capital expenditures (new and used)	\$1,000.. '365 046
Buildings and other structures (new and used)	\$1,000.. '75 330
Machinery and equipment (new and used)	\$1,000.. '289 716
Automobiles, trucks, etc., for highway use	\$1,000.. '10 592
Computers and peripheral data processing equipment	\$1,000.. '33 648
All other expenditures for machinery and equipment	\$1,000.. '245 476
Total retirements	\$1,000.. '548 685
Gross value of depreciable assets at end of year	\$1,000.. '5 785 405
Depreciation charges during year	\$1,000.. '388 638
Total rental payments	\$1,000.. 133 460
Buildings and other structures	\$1,000.. 61 148
Machinery and equipment	\$1,000.. 72 312
Total other expenses ⁴	\$1,000.. 778 372
Response coverage ratio ⁵	percent.. 89
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 91 736
Communications services ⁴	\$1,000.. 31 774
Legal services ⁴	\$1,000.. 31 998
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 7 851
Advertising and promotional services ⁴	\$1,000.. 44 344
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 26 437
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 8 002
Management consulting and administrative services ⁴	\$1,000.. 40 691
Taxes and license fees ⁴	\$1,000.. 29 420
All other expenses ⁴	\$1,000.. 466 119

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)				
333120, Construction machinery manufacturing											
All establishments	1	803	57 890	2 520 025	36 124	70 360	1 378 045	7 639 061	11 275 344	19 189 376	'365 046
Establishments with—											
1 to 4 employees	8	223	499	19 578	328	570	10 995	55 277	58 823	111 506	'3 720
5 to 9 employees	7	103	706	30 173	432	857	16 366	71 741	97 065	169 454	'3 558
10 to 19 employees	4	122	1 689	67 220	1 060	2 011	35 969	137 086	183 108	322 024	'6 642
20 to 49 employees	2	144	4 537	170 581	2 981	5 967	94 328	429 307	479 065	909 002	'20 075
50 to 99 employees	2	97	6 800	261 317	4 652	9 320	149 556	595 685	763 507	1 367 794	'31 596
100 to 249 employees	2	63	9 707	377 411	6 466	12 293	211 396	1 012 030	1 624 695	2 703 502	'62 214
250 to 499 employees	1	25	8 392	358 806	5 708	11 290	201 517	1 331 102	1 997 062	3 301 380	'34 255
500 to 999 employees	—	18	11 897	550 998	7 189	13 110	306 517	1 587 745	2 416 005	4 099 765	58 268
1,000 to 2,499 employees	—	8	13 663	683 941	7 308	14 942	351 401	2 419 088	3 656 014	6 204 949	144 718
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	311	1 677	71 234	1 070	2 076	39 721	147 194	225 951	373 138	'8 633

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)				
333120	Construction machinery manufacturing	803	57 890	2 520 025	36 124	70 360	1 378 045	7 639 061	11 275 344	19 189 376	'365 046
3331201	Power cranes, excavation loaders, dozers, construction tractors, off-highway trucks and trailers, mixers, pavers, backhoes, and related equipment	186	34 409	1 630 991	20 851	41 556	868 137	5 660 082	8 572 122	14 474 410	'260 393
3331208	Other construction machinery and equipment (excluding parts)	116	11 108	391 256	7 078	13 228	219 366	892 068	1 463 009	2 395 893	'51 824
3331209	Parts for construction machinery and equipment, sold separately	85	8 789	354 178	5 904	11 259	212 056	790 063	858 854	1 644 459	'32 309

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)
333120	Construction machinery manufacturing	2002.. N 1997.. N	X X	X X	16 588 722 19 287 496
3331201	Power cranes, excavation loaders, dozers, construction tractors, off-highway trucks and trailers, mixers, pavers, backhoes, and related equipment	2002.. N 1997.. N	X X	X X	11 913 788 13 693 995
33312011	Power cranes, draglines, and shovels (excavators) (including surface mining equipment and attachments) (excluding parts)	2002.. N 1997.. N	X X	X X	2 561 640 3 035 538
3331201110	Power cranes, draglines, and shovels (excavators) (including surface mining equipment and attachments) (excluding parts) ¹	2002.. 55 1997.. 57	X X	X X	2 561 640 3 035 538
33312012	Mixers, pavers, and related equipment (excluding parts)	2002.. N 1997.. N	X X	X X	1 145 807 1 261 445
3331201220	Mixers, pavers, and related equipment (excluding parts) ¹	2002.. 66 1997.. 76	X X	X X	1 145 807 1 261 445
33312013	Off-highway trucks, coal haulers, truck-type tractor chassis, trailers and wagons (excluding parts)	2002.. N 1997.. N	X X	X X	948 082 1 288 613
3331201330	Off-highway trucks, coal haulers, truck-type tractor chassis, trailers and wagons (excluding parts) ¹	2002.. 27 1997.. 34	X X	X X	948 082 1 288 613
33312014	Tractor shovel loaders (skid steer, wheel, and crawler, and integral-design loader-backhoes)	2002.. N 1997.. N	X X	X X	1 288 115 2 829 877
3331201440	Tractor shovel loaders (skid steer, wheel, and crawler, and integral-design loader-backhoes) ¹	2002.. 13 1997.. 22	X X	X X	1 288 115 2 829 877
33312015	Construction wheel and crawler tractors, dozers, and self-propelled log skidders	2002.. N 1997.. N	X X	X X	4 106 899 2 678 905
3331201550	Construction wheel and crawler tractors, dozers, and self-propelled log skidders ¹	2002.. 21 1997.. 22	X X	X X	4 106 899 2 678 905
33312016	Motor graders and light maintainers, including rollers and compactors, rough-terrain forklifts, scraper bowls, and self-propelled continuous ditchers and trenchers (except parts)	2002.. N 1997.. N	X X	X X	1 313 075 2 068 782
3331201660	Motor graders and light maintainers, including rollers and compactors, rough-terrain forklifts, scraper bowls, and self-propelled continuous ditchers and trenchers (except parts) ¹	2002.. 35 1997.. 56	X X	X X	1 313 075 2 068 782
33312017	Construction machinery for mounting on tractors and other prime movers (excluding parts, winches, and snow clearing attachments)	2002.. N 1997.. N	X X	X X	526 143 525 023
3331201770	Construction machinery for mounting on tractors and other prime movers (excluding parts, winches, and snow clearing attachments) ¹	2002.. 54 1997.. 47	X X	X X	526 143 525 023
3331201Y	Power cranes, excavation loaders, dozers, construction tractors, off-highway trucks and trailers, mixers, pavers, backhoes, and related equipment, nsk	2002.. N 1997.. N	X X	X X	24 027 5 812
3331201YVV	Motor graders and light maintainers, rollers and compactors, rough-terrain forklifts, scraper bowls, and self-propelled continuous ditchers and trenchers, except parts	2002.. N 1997.. N	X X	X X	24 027 5 812
3331208	Other construction machinery and equipment (excluding parts)	2002.. N 1997.. N	X X	X X	1 879 437 2 122 257
33312081	Other construction machinery and equipment (excluding parts)	2002.. N 1997.. N	X X	X X	1 867 121 2 094 867
3331208110	Portable crushing plants, screening plants, washing plants, and combination plants (excluding parts)	2002.. 29 1997.. 21	X X	X X	153 004 168 287
3331208115	Snow clearing attachments for mounting on tractors or trucks (except rotary snow blowers), including snow plows, etc. (excluding parts)	2002.. 31 1997.. 32	X X	X X	276 069 272 596
3331208126	Commercial brush, limb, and log chippers for waste wood reduction (excluding parts)	2002.. 19 1997.. 13	X X	X X	200 790 130 305
3331208127	Log splitters (excluding parts)	2002.. 4 1997.. 5	X X	X X	D 13 023
3331208135	Dredging machinery, hydraulic and other types (excluding parts)	2002.. 5 1997.. 6	X X	X X	15 011 24 431
3331208144	Digger-derricks (excluding parts)	2002.. 5 1997.. 7	X X	X X	D 87 424
3331208148	Vertical earth augers and power posthole diggers, excluding water well and blasthole drills (excluding parts)	2002.. 15 1997.. 17	X X	X X	D 34 848
3331208152	Horizontal earth boring machines and accessories (excluding parts)	2002.. 12 1997.. 11	X X	X X	104 378 176 916
3331208156	Pile driving equipment (including air, steam, and diesel pile hammers and impact pile and vibratory driver extractors) (excluding parts)	2002.. 6 1997.. 8	X X	X X	35 594 21 560
3331208199	All other construction machinery and equipment, complete units	2002.. 81 1997.. 67	X X	X X	815 400 1 165 477
3331208Y	Other construction machinery and equipment (excluding parts), nsk	2002.. N 1997.. N	X X	X X	12 316 27 390

See footnotes at end of table.

Table 6a. Products Statistics: 2002 and 1997—Con.

[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)
333120	Construction machinery manufacturing—Con.				
3331208	Other construction machinery and equipment (excluding parts)—Con.				
3331208Y	Other construction machinery and equipment (excluding parts), nsk—Con.				
3331208YVV	Other construction machinery and equipment (excluding parts), nsk	2002.. N 1997.. N	X X	X X	12 316 27 390
3331209	Parts for construction machinery and equipment, sold separately	2002.. N 1997.. N	X X	X X	2 263 373 2 968 564
33312091	Parts for power cranes, draglines, and shovels (excavators) (including surface mining equipment) (sold separately)	2002.. N 1997.. N	X X	X X	617 699 538 500
3331209111	Parts for power cranes, draglines, and shovels (excavators) (including surface mining equipment) (sold separately)	2002.. 51 1997.. 47	X X	X X	617 699 538 500
33312092	Parts for contractors' off-highway wheel tractors, crawler tractors, and tractor shovel loaders (sold separately)	2002.. N 1997.. N	X X	X X	618 403 940 000
3331209245	Parts for contractors' off-highway wheel tractors, crawler tractors, and tractor shovel loaders (sold separately)	2002.. 34 1997.. 41	X X	X X	618 403 940 000
33312093	Parts for other construction machinery	2002.. N 1997.. N	X X	X X	977 437 1 421 630
3331209352	Parts for mixers, pavers, and related equipment (sold separately)	2002.. 40 1997.. 44	X X	X X	158 914 211 634
3331209353	Parts for off-highway trucks, coal haulers, truck-type tractor chassis, trailers and wagons (sold separately)	2002.. 26 1997.. 23	X X	X X	114 932 130 627
3331209366	Parts for motor graders and light maintainers, rollers and compactors, rough-terrain forklifts, scraper bowls, and self-propelled continuous ditchers and trenchers (sold separately)	2002.. 38 1997.. 42	X X	X X	177 459 179 054
3331209377	Parts for construction machinery (except winches) for mounting on tractors and other prime movers (sold separately)	2002.. 38 1997.. 30	X X	X X	160 648 237 747
3331209388	Parts for other construction machinery and equipment (except winches, hoists, and railroad rolling stock) (sold separately)	2002.. 74 1997.. 86	X X	X X	365 484 662 568
3331209Y	Parts for construction machinery and equipment, sold separately, nsk	2002.. N 1997.. N	X X	X X	49 834 68 434
3331209YVV	Parts for construction machinery and equipment, sold separately, nsk	2002.. N 1997.. N	X X	X X	49 834 68 434
333120W	Construction machinery manufacturing, nsk, total	2002.. N 1997.. N	X X	X X	532 124 502 680
333120WY	Construction machinery manufacturing, nsk, total	2002.. N 1997.. N	X X	X X	532 124 502 680
333120WYWW	Construction machinery manufacturing, nsk, for nonadministrative-record establishments	2002.. N 1997.. N	X X	X X	257 343 313 717
333120WYWY	Construction machinery manufacturing, nsk, for administrative-record establishments	2002.. N 1997.. N	X X	X X	274 781 188 963

¹For additional detail, see Current Industrial Report MA333D, Construction Machinery.

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)	
3331201	Power cranes, excavation loaders, dozers, construction tractors, off-highway trucks and trailers, mixers, pavers, backhoes, and related equipment		
	United States	2002.. 11 913 788 1997.. 13 693 995	
	California	2002.. 13 347 1997.. 38 223	
	Florida	2002.. 73 871 1997.. 20 361	
	Georgia	2002.. 322 784 1997.. 332 111	
	Idaho	2002.. 6 119 1997.. N	
	Illinois	2002.. 3 534 315 1997.. N	
	Indiana	2002.. 138 665 1997.. N	
	Kansas	2002.. 481 286 1997.. 424 762	
	Michigan	2002.. 67 846 1997.. 79 680	
	Minnesota	2002.. 314 712 1997.. 559 214	
	New York	2002.. 60 546 1997.. 73 329	
	North Carolina	2002.. 1 551 575 1997.. 384 051	
	Ohio	2002.. 173 640 1997.. 389 697	
	Oklahoma	2002.. 360 984 1997.. 313 841	
	Oregon	2002.. 68 341 1997.. 75 477	
	Pennsylvania	2002.. 358 159 1997.. 969 672	
	South Dakota	2002.. 143 729 1997.. 165 544	
	Texas	2002.. 161 279 1997.. 289 443	
	Washington	2002.. 18 053 1997.. 42 552	
	Wisconsin	2002.. 622 397 1997.. 996 283	
	3331208	Other construction machinery and equipment (excluding parts)	
		United States	2002.. 1 879 437 1997.. 2 122 257
		California	2002.. 29 664 1997.. 17 826
		Idaho	2002.. 34 343 1997.. N
		Illinois	2002.. 22 754 1997.. 76 894
		Indiana	2002.. 34 575 1997.. 40 382
Kansas		2002.. 52 533 1997.. 67 811	
Michigan		2002.. 175 226 1997.. 33 963	
Minnesota		2002.. 43 357 1997.. 50 359	
New York		2002.. 28 037 1997.. 14 703	
Ohio		2002.. 110 027 1997.. 105 093	
Oklahoma		2002.. 38 814 1997.. N	
Oregon		2002.. 10 076 1997.. 13 777	
Pennsylvania		2002.. 166 692 1997.. 72 561	
Texas		2002.. 67 250 1997.. 53 335	
Washington		2002.. 10 809 1997.. 59 923	
Wisconsin		2002.. 324 559 1997.. 224 139	
3331209		Parts for construction machinery and equipment, sold separately	
		United States	2002.. 2 263 373 1997.. 2 968 564
		California	2002.. 53 198 1997.. 14 063
		Florida	2002.. 2 192 1997.. N
		Illinois	2002.. 450 575 1997.. 867 062
		Indiana	2002.. 50 822 1997.. 55 577
		Kansas	2002.. 45 623 1997.. 96 620
		Minnesota	2002.. 21 204 1997.. 81 831
		New York	2002.. 22 618 1997.. 18 313
		North Carolina	2002.. 82 742 1997.. N
	Ohio	2002.. 115 803 1997.. 115 412	
	Oklahoma	2002.. 109 058 1997.. 86 726	

See footnotes at end of table.

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

[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)
3331209	Parts for construction machinery and equipment, sold separately—Con.	
	United States—Con.	
	Oregon	2002.. 15 878
		1997.. 16 059
	Pennsylvania	2002.. 143 271
		1997.. 100 172
	South Dakota	2002.. 34 994
		1997.. 51 168
	Texas	2002.. 89 721
		1997.. 102 661
	Virginia	2002.. 28 802
		1997.. N
	Washington	2002.. 15 975
		1997.. 25 538
	Wisconsin	2002.. 423 596
		1997.. 327 537

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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)
333120	Construction machinery manufacturing		
00900001	Total materials	2002.. X	9 620 949
		1997.. X	11 268 087
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic)	2002.. X	445 352
		1997.. X	724 526
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic)	2002.. X	181 842
		1997.. X	267 012
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic)	2002.. X	123 872
		1997.. X	189 571
33291207	Fluid power valves (hydraulic and pneumatic)	2002.. X	214 807
		1997.. X	277 006
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	2002.. X	152 985
		1997.. X	173 649
33200099	Fabricated structural metal products (excluding forgings)	2002.. X	459 570
		1997.. X	700 075
33261003	Fabricated metal wire products (including wire rope, cable, springs, etc.)	2002.. X	31 614
		1997.. X	N
33200065	All other fabricated metal products (excluding forgings, castings, metal stampings, bolts, nuts, washers, rivets, screw machine products, and structural metal products)	2002.. X	216 404
		1997.. X	224 020
332000AC	Metal stampings	2002.. X	53 199
		1997.. X	148 829
33210000	Forgings	2002.. X	119 509
		1997.. X	N
33151001	Iron and steel castings (rough and semifinished)	2002.. X	499 447
		1997.. X	678 708
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	2002.. X	23 639
		1997.. X	19 965
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products)	2002.. X	363 894
		1997.. X	697 563
33120016	Steel sheet and strip (including tinplate)	2002.. X	145 154
		1997.. X	N
33120019	Steel structural shapes and sheet piling (excluding castings, forgings, and fabricated metal products)	2002.. X	34 346
		1997.. X	165 503
33120091	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, structural shapes, and sheet piling)	2002.. X	122 955
		1997.. X	138 306
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products)	2002.. X	10 781
		1997.. X	8 892
33361803	Diesel engines and parts specially designed for diesel engines	2002.. X	516 600
		1997.. X	N
33631200	Gasoline engines and parts specially designed for gasoline engines	2002.. X	67 669
		1997.. X	N
33531201	Electric motors and generators	2002.. X	120 432
		1997.. X	194 378
33299105	Ball bearings (mounted or unmounted)	2002.. X	28 610
		1997.. X	85 445
33299103	Roller bearings (mounted or unmounted)	2002.. X	39 070
		1997.. X	74 703
33361200	Mechanical speed changers, gears, and industrial high-speed drives	2002.. X	172 403
		1997.. X	261 268
32621003	Pneumatic tires and inner tubes	2002.. X	231 224
		1997.. X	N
33639909	Wheels, motor vehicle	2002.. X	47 140
		1997.. X	N
33600001	Purchased chassis for vehicles (excluding passenger cars)	2002.. X	176 995
		1997.. X	N
33635003	Transmissions and parts	2002.. X	245 411
		1997.. X	N
33632200	Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.)	2002.. X	145 351
		1997.. X	N
33633000	Shocks, struts, and other suspension equipment and parts	2002.. X	66 255
		1997.. X	N
32622001	Rubber and plastics hose and belting	2002.. X	77 665
		1997.. X	96 770
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting)	2002.. X	42 096
		1997.. X	56 612
32551002	Paints, varnishes, stains, lacquers, shellacs, japans, enamels, and allied product	2002.. X	37 326
		1997.. X	N
001900B1	Electrical transmission, distribution, and control equipment	2002.. X	170 197
		1997.. X	336 997
00970099	All other materials and components, parts, containers, and supplies	2002.. X	2 447 156
		1997.. X	5 224 128
00971000	Materials, ingredients, containers, and supplies, nsk	2002.. X	1 789 979
		1997.. X	524 161

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.

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