

Nonferrous (Except Aluminum) Die-Casting Foundries: 2002

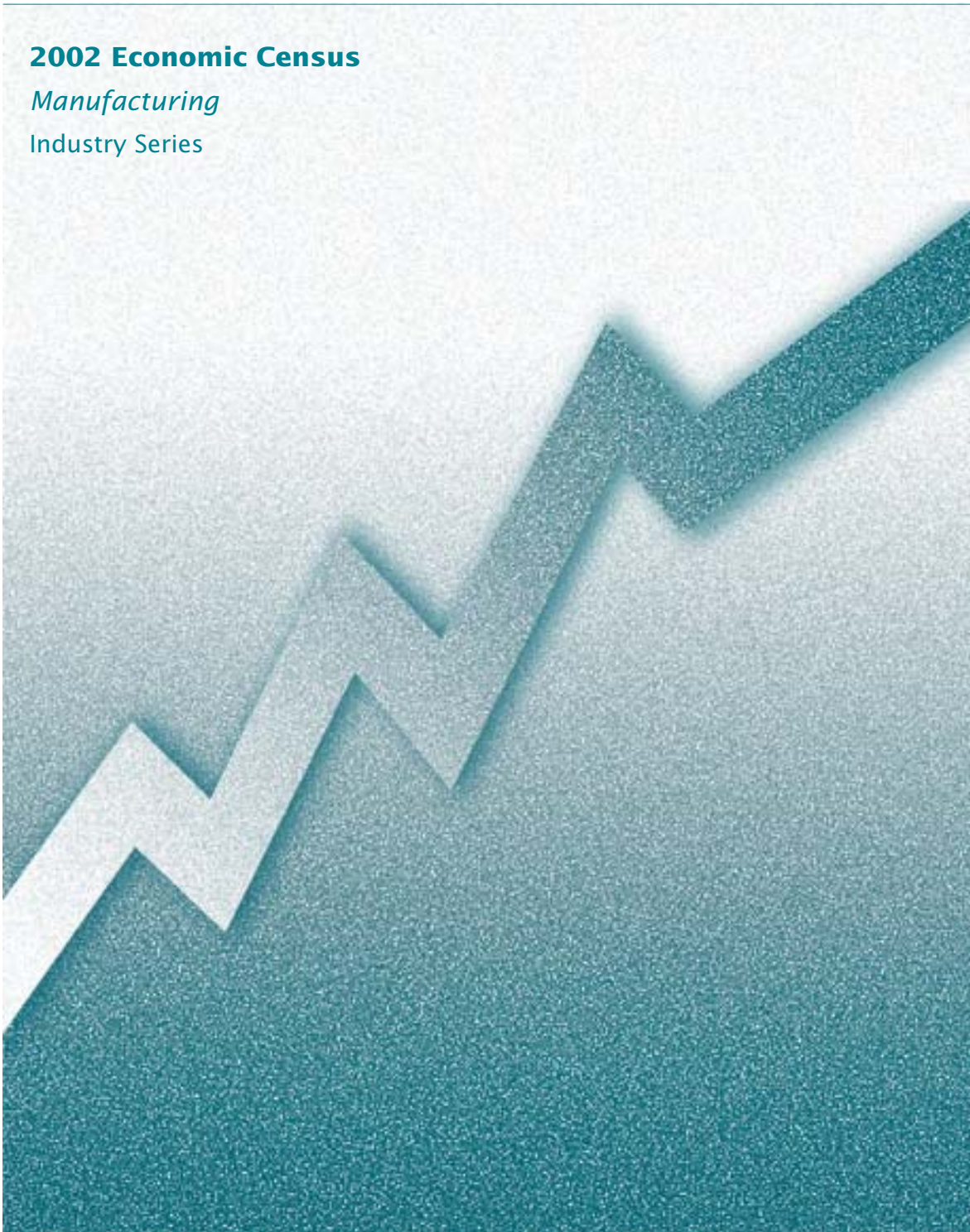
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2002 Economic Census

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)					
331522, Nonferrous (except aluminum) die-casting foundries	2002..	218	238	14 839	492 285	11 875	22 877	336 834	1 184 990	781 512	1 971 904	157 554
	2001..	N	N	15 213	471 685	11 841	24 431	317 953	1 028 649	784 460	1 833 725	72 045
	2000..	N	N	15 981	501 250	12 858	26 576	351 455	1 143 926	846 823	1 989 578	78 730
	1999..	N	N	16 669	501 675	13 416	26 582	347 452	1 322 282	870 448	2 184 384	75 003
	1998..	N	N	17 477	509 048	14 028	26 082	354 189	1 219 647	942 566	2 175 386	79 326
	1997..	267	279	16 840	488 196	13 421	26 711	337 972	1 128 064	868 735	1 998 772	83 714

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)				
331522, Nonferrous (except aluminum) die-casting foundries												
United States	—	238	128	14 839	492 285	11 875	22 877	336 834	1 184 990	781 512	1 971 904	'57 554
California	1	20	7	592	22 587	489	1 091	15 867	55 309	22 023	76 785	'925
Connecticut	3	6	3	144	4 829	112	233	3 206	9 546	7 037	16 648	'156
Illinois	—	19	14	1 962	65 941	1 678	3 151	49 782	163 945	123 930	287 972	'8 944
Indiana	1	7	4	401	12 577	278	564	8 906	37 442	21 686	58 583	'742
Michigan	—	28	17	1 822	65 755	1 403	3 052	40 796	135 250	172 957	308 656	'9 978
Minnesota	—	9	8	838	27 400	555	1 235	16 789	62 900	43 065	105 776	'6 915
New Jersey	4	9	6	286	9 673	239	486	6 842	19 960	9 793	29 933	'476
New York	2	15	6	298	11 837	220	475	7 639	25 276	16 405	42 091	'428
Ohio	—	21	17	1 624	53 217	1 295	2 533	35 602	129 230	64 580	193 551	'9 564
Oregon	—	7	4	1 554	56 662	1 214	2 156	36 775	163 740	58 881	224 295	'6 912
Pennsylvania	—	11	7	1 170	40 045	866	1 641	26 813	74 245	51 618	126 794	'2 065
Rhode Island	1	7	2	126	5 217	94	205	2 818	7 681	9 415	17 210	'52
Texas	2	8	4	191	5 439	167	278	3 916	13 983	11 654	25 800	'1 044
Wisconsin	1	9	4	161	6 316	138	260	5 043	15 875	8 139	23 795	'848

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
331522, Nonferrous (except aluminum) die-casting foundries	
Companies ¹	number.. 218
All establishments ²	number.. 238
Establishments with 1 to 19 employees	number.. 110
Establishments with 20 to 99 employees	number.. 84
Establishments with 100 employees or more	number.. 44
All employees ³	number.. 14 839
Total compensation	\$1,000.. 625 612
Annual payroll	\$1,000.. 492 285
Total fringe benefits	\$1,000.. 133 327
Production workers, average for year	number.. 11 875
Production workers on March 12	number.. 12 132
Production workers on May 12	number.. 11 931
Production workers on August 12	number.. 11 802
Production workers on November 12	number.. 11 608
Production worker hours	1,000.. 22 877
Production worker wages	\$1,000.. 336 834
Total cost of materials	\$1,000.. 781 512
Materials, parts, containers, packaging, etc., used	\$1,000.. 600 450
Resales	\$1,000.. 22 977
Purchased fuels	\$1,000.. 21 334
Purchased electricity	\$1,000.. 36 231
Contract work	\$1,000.. 100 520
Quantity of electricity purchased for heat and power	1,000 kWh.. 630 026
Quantity of electricity generated less sold for heat and power	1,000 kWh.. -
Total value of shipments	\$1,000.. 1 971 904
Primary products value of shipments	\$1,000.. 1 617 407
Secondary products value of shipments	\$1,000.. 305 943
Total miscellaneous receipts	\$1,000.. 48 554
Value of resales	\$1,000.. 33 867
Contract receipts	\$1,000.. 530
Other miscellaneous receipts	\$1,000.. 14 157
Primary products specialization ratio	percent.. 84
Value of primary products shipments made in all industries	\$1,000.. 1 772 604
Value of primary products shipments made in this industry	\$1,000.. 1 617 407
Value of primary products shipments made in other industries	\$1,000.. 155 197
Coverage ratio	percent.. 91
Value added	\$1,000.. 1 184 990
Total inventories, beginning of year	\$1,000.. 213 690
Finished goods inventories	\$1,000.. 63 191
Work-in-process inventories	\$1,000.. 88 375
Materials and supplies inventories	\$1,000.. 62 124
Total inventories, end of year	\$1,000.. 198 779
Finished goods inventories	\$1,000.. 63 003
Work-in-process inventories	\$1,000.. 83 161
Materials and supplies inventories	\$1,000.. 52 615
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. [†] 1 181 557
Total capital expenditures (new and used)	\$1,000.. [†] 57 554
Buildings and other structures (new and used)	\$1,000.. [†] 6 402
Machinery and equipment (new and used)	\$1,000.. [†] 51 152
Automobiles, trucks, etc., for highway use	\$1,000.. [†] 1658
Computers and peripheral data processing equipment	\$1,000.. [†] 3 004
All other expenditures for machinery and equipment	\$1,000.. [†] 47 490
Total retirements	\$1,000.. [†] 40 322
Gross value of depreciable assets at end of year	\$1,000.. [†] 1 198 789
Depreciation charges during year	\$1,000.. [†] 85 500
Total rental payments	\$1,000.. 18 445
Buildings and other structures	\$1,000.. 10 963
Machinery and equipment	\$1,000.. 7 482
Total other expenses ⁴	\$1,000.. 133 161
Response coverage ratio ⁵	percent.. 91
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 32 940
Communications services ⁴	\$1,000.. 3 193
Legal services ⁴	\$1,000.. 2 844
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 2 284
Advertising and promotional services ⁴	\$1,000.. 2 081
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 3 017
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 4 527
Management consulting and administrative services ⁴	\$1,000.. 3 678
Taxes and license fees ⁴	\$1,000.. 8 546
All other expenses ⁴	\$1,000.. 70 052

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)				
331522, Nonferrous (except aluminum) die-casting foundries											
All establishments	—	238	14 839	492 285	11 875	22 877	336 834	1 184 990	781 512	1 971 904	'57 554
Establishments with—											
1 to 4 employees	9	50	120	3 890	96	187	2 735	8 052	4 425	12 476	'280
5 to 9 employees	9	24	160	5 354	135	266	3 861	11 909	6 798	18 727	'410
10 to 19 employees	6	36	453	16 121	368	733	11 392	36 137	20 590	56 361	'1 770
20 to 49 employees	2	59	1 916	64 234	1 537	3 131	44 138	151 775	90 160	242 833	'6 615
50 to 99 employees	—	25	1 689	59 601	1 366	2 903	40 630	140 056	116 908	261 391	'4 985
100 to 249 employees	—	29	4 202	142 850	3 465	7 147	103 529	359 424	190 443	548 661	'15 530
250 to 499 employees	—	12	4 068	131 797	3 132	5 780	86 104	243 878	235 092	478 922	'20 297
500 to 999 employees	—	2	g	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	88	529	18 061	442	888	12 941	40 100	22 561	62 661	'1 437

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)				
331522	Nonferrous (except aluminum) die-casting foundries	238	14 839	492 285	11 875	22 877	336 834	1 184 990	781 512	1 971 904	'57 554
3315220	Nonferrous (except aluminum) die-castings	238	14 839	492 285	11 875	22 877	336 834	1 184 990	781 512	1 971 904	'57 554

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)
331522	Nonferrous (except aluminum) die-casting foundries	2002.. N 1997.. N	X X	X X	1 772 604 1 804 752
3315220	Nonferrous (except aluminum) die-castings	2002.. N 1997.. N	X X	X X	1 772 604 1 804 752
33152201	Copper and copper-base alloy die-castings (including bearings and bushings)	2002.. N 1997.. N	X X	X X	271 312 153 999
3315220101	Copper and copper-base alloy die-castings (including bearings and bushings) ¹	mil lb. 2002.. 38 1997.. 38	X X	S P36.7	271 312 153 999
33152202	Zinc and zinc-base alloy die-castings	2002.. N 1997.. N	X X	X X	742 438 905 209
3315220206	Zinc and zinc-base alloy die-castings ¹	mil lb. 2002.. 113 1997.. 172	X X	S P360.7	742 438 905 209
33152203	Magnesium and magnesium-base alloy die-castings	2002.. N 1997.. N	X X	X X	333 475 326 413
3315220311	Magnesium and magnesium-base alloy die-castings ¹	mil lb. 2002.. 16 1997.. 18	X X	S P64.0	333 475 326 413
33152204	Lead and lead-base alloy die-castings	2002.. N 1997.. N	X X	X X	68 515 72 339
3315220416	Lead and lead-base alloy die-castings ¹	mil lb. 2002.. 6 1997.. 11	X X	S P41.0	68 515 72 339
33152205	Other nonferrous metal die-castings, except aluminum	2002.. N 1997.. N	X X	X X	211 890 228 388
3315220521	Other nonferrous metal die-castings, except aluminum	2002.. 14 1997.. 28	X X	X X	211 890 228 388
3315220Y	Nonferrous (except aluminum) die-castings, nsk, total	2002.. N 1997.. N	X X	X X	144 974 118 404
3315220YWW	Nonferrous (except aluminum) die-castings, nsk, for nonadministrative-record establishments	2002.. N 1997.. N	X X	X X	87 383 90 026
3315220YWY	Nonferrous (except aluminum) die-castings, nsk, for administrative-record establishments	2002.. N 1997.. N	X X	X X	57 591 28 378

¹For additional detail, see Current Industrial Report MA331E, Nonferrous Castings.

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**

[Not applicable for this report.]

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)
331522	Nonferrous (except aluminum) die-casting foundries		
0090001	Total materials	X	600 450
	.....2002..	X	674 930
	.....1997..		
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	38 276
	.....2002..	X	26 603
	.....1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	54 231
	.....2002..	X	N
	.....1997..		
33149104	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	105 167
	.....2002..	X	N
	.....1997..		
33141934	Magnesium and magnesium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	121 260
	.....2002..	X	N
	.....1997..		
331000AG	All other nonferrous metal shapes and forms (excluding copper, aluminum, zinc, and magnesium-base alloy castings, forgings, and fabricated metal products)	X	23 047
	.....2002..	X	28 120
	.....1997..		
00190034	Copper and copper-base alloy scrap (excluding home scrap)	X	8 429
	.....2002..	X	N
	.....1997..		
00190014	Aluminum and aluminum-base alloy scrap (excluding home scrap)	X	D
	.....2002..	X	N
	.....1997..		
00190079	Other nonferrous metal scrap (excluding home scrap)	X	2 003
	.....2002..	X	N
	.....1997..		
33299700	Industrial patterns	X	D
	.....2002..	X	259
	.....1997..		
33350003	Industrial dies, molds, jigs, and fixtures	X	19 411
	.....2002..	X	10 792
	.....1997..		
001900A4	All other industrial and commercial machinery and computer equipment	X	D
	.....2002..	X	934
	.....1997..		
21232005	Sand	X	836
	.....2002..	X	2 531
	.....1997..		
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds	X	6 821
	.....2002..	X	5 560
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies	X	145 357
	.....2002..	X	485 540
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	59 745
	.....2002..	X	114 591
	.....1997..		

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.