

# Other Nonferrous Foundries (Except Die-Casting): 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 <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	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 <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
331528, Other nonferrous foundries (except die-casting) .....											
2002..	139	143	4 056	172 835	3 170	6 297	123 303	447 185	240 930	699 528	15 443
2001..	N	N	4 521	171 867	3 597	7 186	106 856	366 936	265 941	634 999	11 320
2000..	N	N	4 418	168 035	3 457	7 502	102 697	469 890	266 312	727 437	13 097
1999..	N	N	4 564	169 994	3 568	7 550	103 921	449 708	273 144	726 305	42 044
1998..	N	N	6 008	237 985	4 777	9 544	147 507	679 907	354 368	988 765	37 628
1997..	136	141	6 795	222 759	5 352	10 706	142 992	640 411	392 094	1 017 276	35 532

<sup>1</sup>Statistics 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).

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

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number 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 <sup>2</sup>		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 <sup>1</sup>	Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)					Wages (\$1,000)
<b>331528, Other nonferrous foundries (except die-casting)</b>												
United States .....	—	143	47	4 056	172 835	3 170	6 297	123 303	447 185	240 930	699 528	15 443
California .....	2	17	7	527	18 248	417	806	11 734	31 397	31 745	65 168	648
Illinois .....	1	9	4	149	4 472	102	178	2 923	11 111	3 567	14 600	193
Michigan .....	—	6	2	350	15 252	250	480	8 432	47 482	16 992	64 049	642
New York .....	1	11	3	146	4 562	120	222	3 195	8 886	9 790	19 827	244
Ohio .....	—	16	10	1 030	55 792	838	1 696	42 170	162 354	86 203	259 871	5 323
Pennsylvania .....	—	12	5	612	31 598	500	1 103	25 571	72 048	45 223	116 090	3 736

<sup>1</sup>Some 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.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number 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
<b>331528, Other nonferrous foundries (except die-casting)</b>	
Companies <sup>1</sup> .....	number.. 139
All establishments <sup>2</sup> .....	number.. 143
Establishments with 1 to 19 employees .....	number.. 96
Establishments with 20 to 99 employees .....	number.. 38
Establishments with 100 employees or more .....	number.. 9
All employees <sup>3</sup> .....	number.. 4 056
Total compensation .....	\$1,000.. 215 192
Annual payroll .....	\$1,000.. 172 835
Total fringe benefits .....	\$1,000.. 42 357
Production workers, average for year .....	number.. 3 170
Production workers on March 12 .....	number.. 3 277
Production workers on May 12 .....	number.. 3 254
Production workers on August 12 .....	number.. 3 132
Production workers on November 12 .....	number.. 3 001
Production worker hours .....	1,000.. 6 297
Production worker wages .....	\$1,000.. 123 303
Total cost of materials .....	\$1,000.. 240 930
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 196 533
Resales .....	\$1,000.. 6 030
Purchased fuels .....	\$1,000.. 3 652
Purchased electricity .....	\$1,000.. 11 458
Contract work .....	\$1,000.. 23 257
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 171 213
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. -
Total value of shipments .....	\$1,000.. 699 528
Primary products value of shipments .....	\$1,000.. 661 701
Secondary products value of shipments .....	\$1,000.. 26 739
Total miscellaneous receipts .....	\$1,000.. 11 088
Value of resales .....	\$1,000.. 8 778
Contract receipts .....	\$1,000.. D
Other miscellaneous receipts .....	\$1,000.. D
Primary products specialization ratio .....	percent.. 96
Value of primary products shipments made in all industries .....	\$1,000.. 752 543
Value of primary products shipments made in this industry .....	\$1,000.. 661 701
Value of primary products shipments made in other industries .....	\$1,000.. 90 842
Coverage ratio .....	percent.. 88
Value added .....	\$1,000.. 447 185
Total inventories, beginning of year .....	\$1,000.. 97 090
Finished goods inventories .....	\$1,000.. 17 989
Work-in-process inventories .....	\$1,000.. 51 368
Materials and supplies inventories .....	\$1,000.. 27 735
Total inventories, end of year .....	\$1,000.. 80 315
Finished goods inventories .....	\$1,000.. 16 691
Work-in-process inventories .....	\$1,000.. 41 253
Materials and supplies inventories .....	\$1,000.. 22 373
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. 271 092
Total capital expenditures (new and used) .....	\$1,000.. 15 443
Buildings and other structures (new and used) .....	\$1,000.. 1 126
Machinery and equipment (new and used) .....	\$1,000.. 14 317
Automobiles, trucks, etc., for highway use .....	\$1,000.. 219
Computers and peripheral data processing equipment .....	\$1,000.. 465
All other expenditures for machinery and equipment .....	\$1,000.. 13 633
Total retirements .....	\$1,000.. 24 135
Gross value of depreciable assets at end of year .....	\$1,000.. 262 400
Depreciation charges during year .....	\$1,000.. 19 037
Total rental payments .....	\$1,000.. 10 682
Buildings and other structures .....	\$1,000.. 5 123
Machinery and equipment .....	\$1,000.. 5 559
Total other expenses <sup>4</sup> .....	\$1,000.. 55 198
Response coverage ratio <sup>5</sup> .....	percent.. 64
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 12 670
Communications services <sup>4</sup> .....	\$1,000.. 647
Legal services <sup>4</sup> .....	\$1,000.. 803
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 472
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 346
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 652
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 1 576
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 198
Taxes and license fees <sup>4</sup> .....	\$1,000.. 1 635
All other expenses <sup>4</sup> .....	\$1,000.. 36 200

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

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number 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.

<sup>4</sup>Based on 2002 Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A 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 <sup>1</sup>	All establishments <sup>2</sup>	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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
331528, Other nonferrous foundries (except die-casting)											
All establishments .....	—	143	4 056	172 835	3 170	6 297	123 303	447 185	240 930	699 528	'15 443
Establishments with—											
1 to 4 employees .....	9	51	91	3 491	69	133	2 209	7 803	5 013	12 759	'291
5 to 9 employees .....	7	22	148	6 010	121	252	4 000	13 585	13 493	27 066	'756
10 to 19 employees .....	1	23	344	12 022	275	565	7 884	30 227	20 367	50 701	'1 352
20 to 49 employees .....	1	27	769	26 124	580	1 129	16 602	68 589	34 103	104 475	'2 750
50 to 99 employees .....	1	11	718	21 329	598	1 190	15 618	45 398	27 924	73 851	'2 068
100 to 249 employees .....	—	5	794	34 008	587	1 066	21 069	100 119	48 967	153 048	1 698
250 to 499 employees .....	—	4	1 192	69 851	940	1 962	55 921	181 464	91 063	277 628	6 528
500 to 999 employees .....	—	—	—	—	—	—	—	—	—	—	—
1,000 to 2,499 employees .....	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more .....	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>4</sup> .....	9	63	181	6 912	144	290	4 466	17 546	10 992	28 002	'642

<sup>1</sup>Some 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.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number 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.

<sup>4</sup>Some 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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
331528	Other nonferrous foundries (except die-casting) .....	143	4 056	172 835	3 170	6 297	123 303	447 185	240 930	699 528	15 443
3315280	Other nonferrous foundries .....	143	4 056	172 835	3 170	6 297	123 303	447 185	240 930	699 528	15 443

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number 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)
331528	Other nonferrous foundries (except die-casting) . . . . .	2002.. N 1997.. N	X X	X X	752 543 1 065 937
3315280	Other nonferrous foundries . . . . .	2002.. N 1997.. N	X X	X X	752 543 1 065 937
33152801	Nickel and nickel-base alloy castings (excluding die-castings) . . . . .	2002.. N 1997.. N	X X	X X	185 395 154 088
3315280116	Nickel and nickel-base alloy castings (excluding die-castings) . . . . .	2002.. 22 1997.. 19	X X	X X	185 395 154 088
33152802	Other nonferrous metal castings, excluding die-castings . . . . .	2002.. N 1997.. N	X X	X X	530 036 879 672
3315280201	Zinc and zinc-base alloy castings (excluding die-castings) <sup>1</sup> . . . . .	2002.. 20 1997.. 24	X X	X X	57 649 83 990
3315280206	Magnesium and magnesium-base alloy sand castings (excluding die-castings) . . . . .	2002.. 12 1997.. 12	X X	X X	38 995 35 518
3315280211	Other magnesium and magnesium-base alloy castings, including permanent and semipermanent mold and cast anodes (excluding die-castings) <sup>1</sup> . . . . .	2002.. 6 1997.. 7	X X	X X	11 173 10 058
3315280221	Other nonferrous metal castings (excluding die-castings) . . . . .	2002.. 60 1997.. 61	X X	X X	422 219 750 106
3315280Y	Other nonferrous foundries, nsk, total . . . . .	2002.. N 1997.. N	X X	X X	37 112 32 177
3315280YWW	Other nonferrous foundries, nsk, for nonadministrative-record establishments . . . . .	2002.. N 1997.. N	X X	X X	9 957 13 751
3315280YWY	Other nonferrous foundries, nsk, for administrative-record establishments . . . . .	2002.. N 1997.. N	X X	X X	27 155 18 426

<sup>1</sup>For 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)
331528	Other nonferrous foundries (except die-casting)		
0090001	Total materials .....	X	196 533
	.....2002..	X	317 270
	.....1997..		
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....	X	1 431
	.....2002..	X	1 405
	.....1997..		
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....	X	4 333
	.....2002..	X	N
	.....1997..		
33149104	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....	X	18 722
	.....2002..	X	N
	.....1997..		
33141934	Magnesium and magnesium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....	X	D
	.....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	11 998
	.....2002..	X	72 443
	.....1997..		
00190034	Copper and copper-base alloy scrap (excluding home scrap) .....	X	D
	.....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	2 707
	.....2002..	X	N
	.....1997..		
33299700	Industrial patterns .....	X	1 999
	.....2002..	X	D
	.....1997..		
33350003	Industrial dies, molds, jigs, and fixtures .....	X	1 701
	.....2002..	X	D
	.....1997..		
001900A4	All other industrial and commercial machinery and computer equipment .....	X	D
	.....2002..	X	D
	.....1997..		
21232005	Sand .....	X	1 069
	.....2002..	X	3 861
	.....1997..		
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds .....	X	2 144
	.....2002..	X	4 608
	.....1997..		
00970099	All other materials and components, parts, containers, and supplies .....	X	121 638
	.....2002..	X	203 856
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk .....	X	21 785
	.....2002..	X	17 487
	.....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.