

Primary Aluminum Production: 2002

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2002 Economic Census

Manufacturing

Industry Series



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U.S. Department of Commerce
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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)				
331312, Primary aluminum production 2002..	27	41	13 108	695 352	10 196	21 372	502 064	1 943 691	3 507 287	5 447 331	170 840
2001..	N	N	12 859	583 121	10 174	19 429	426 606	2 278 969	3 076 601	5 363 271	258 570
2000..	N	N	14 758	662 516	11 878	24 402	487 502	2 103 697	3 918 114	6 028 565	350 859
1999..	N	N	16 168	687 678	13 019	25 987	498 745	2 108 713	3 688 910	5 810 350	351 602
1998..	N	N	16 317	730 453	13 098	26 621	524 792	2 299 357	3 912 975	6 211 867	394 546
1997..	13	21	15 763	707 402	12 624	26 074	512 941	2 432 972	3 706 850	6 224 610	320 294

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

[Not applicable for this report]

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
331312, Primary aluminum production	
Companies ¹	number.. 27
All establishments ²	number.. 41
Establishments with 1 to 19 employees	number.. 13
Establishments with 20 to 99 employees	number.. 7
Establishments with 100 employees or more	number.. 21
All employees ³	number.. 13 108
Total compensation	\$1,000.. 941 053
Annual payroll	\$1,000.. 695 352
Total fringe benefits	\$1,000.. 245 701
Production workers, average for year	number.. 10 196
Production workers on March 12	number.. 10 322
Production workers on May 12	number.. 10 231
Production workers on August 12	number.. 10 194
Production workers on November 12	number.. 10 032
Production worker hours	1,000.. 21 372
Production worker wages	\$1,000.. 502 064
Total cost of materials	\$1,000.. 3 507 287
Materials, parts, containers, packaging, etc., used	\$1,000.. 2 198 857
Resales	\$1,000.. 8 752
Purchased fuels	\$1,000.. 179 997
Purchased electricity	\$1,000.. 1 053 408
Contract work	\$1,000.. 66 273
Quantity of electricity purchased for heat and power	1,000 kWh.. 37 906 079
Quantity of electricity generated less sold for heat and power	1,000 kWh.. S
Total value of shipments	\$1,000.. 5 447 331
Primary products value of shipments	\$1,000.. D
Secondary products value of shipments	\$1,000.. D
Total miscellaneous receipts	\$1,000.. 89 219
Value of resales	\$1,000.. 9 312
Contract receipts	\$1,000.. 44 026
Other miscellaneous receipts	\$1,000.. 35 881
Primary products specialization ratio	percent.. D
Value of primary products shipments made in all industries	\$1,000.. 5 377 419
Value of primary products shipments made in this industry	\$1,000.. D
Value of primary products shipments made in other industries	\$1,000.. D
Coverage ratio	percent.. 97
Value added	\$1,000.. 1 943 691
Total inventories, beginning of year	\$1,000.. 671 730
Finished goods inventories	\$1,000.. 73 778
Work-in-process inventories	\$1,000.. 233 380
Materials and supplies inventories	\$1,000.. 364 572
Total inventories, end of year	\$1,000.. 696 172
Finished goods inventories	\$1,000.. 95 024
Work-in-process inventories	\$1,000.. 215 781
Materials and supplies inventories	\$1,000.. 385 367
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '3 880 086
Total capital expenditures (new and used)	\$1,000.. '170 840
Buildings and other structures (new and used)	\$1,000.. '20 847
Machinery and equipment (new and used)	\$1,000.. '149 993
Automobiles, trucks, etc., for highway use	\$1,000.. '2 585
Computers and peripheral data processing equipment	\$1,000.. '3 211
All other expenditures for machinery and equipment	\$1,000.. '144 197
Total retirements	\$1,000.. '68 996
Gross value of depreciable assets at end of year	\$1,000.. '3 981 930
Depreciation charges during year	\$1,000.. '194 153
Total rental payments	\$1,000.. 16 350
Buildings and other structures	\$1,000.. 3 140
Machinery and equipment	\$1,000.. 13 210
Total other expenses ⁴	\$1,000.. 164 407
Response coverage ratio ⁵	percent.. 79
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 41 920
Communications services ⁴	\$1,000.. 2 540
Legal services ⁴	\$1,000.. 5 088
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 3 795
Advertising and promotional services ⁴	\$1,000.. 334
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 6 120
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 18 847
Management consulting and administrative services ⁴	\$1,000.. 9 656
Taxes and license fees ⁴	\$1,000.. 15 028
All other expenses ⁴	\$1,000.. 61 079

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)				
331312, Primary aluminum production											
All establishments	—	41	13 108	695 352	10 196	21 372	502 064	1 943 691	3 507 287	5 447 331	'170 840
Establishments with—											
1 to 4 employees	7	9	28	1 135	18	32	748	2 690	5 906	8 612	'183
5 to 9 employees	9	2	a	D	D	D	D	D	D	D	D
10 to 19 employees	2	2	b	D	D	D	D	D	D	D	D
20 to 49 employees	2	4	c	D	D	D	D	D	D	D	'1 387
50 to 99 employees	—	3	194	7 397	157	330	5 128	17 943	38 927	57 004	D
100 to 249 employees	3	3	461	24 947	358	801	17 868	122 626	101 608	227 553	D
250 to 499 employees	—	5	g	D	D	D	D	D	D	D	D
500 to 999 employees	—	10	7 133	408 968	5 528	11 719	292 765	979 834	1 992 508	2 969 710	94 486
1,000 to 2,499 employees	—	3	3 485	160 610	2 852	5 816	125 442	526 975	796 279	1 324 378	'51 267
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	—	—	—	—	—	—	—	—	—	—	—

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)				
331312	Primary aluminum production	41	13 108	695 352	10 196	21 372	502 064	1 943 691	3 507 287	5 447 331	'170 840
3313120	Aluminum ingot, including billet, made in primary aluminum reduction plants	41	13 108	695 352	10 196	21 372	502 064	1 943 691	3 507 287	5 447 331	'170 840

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)
331312	Primary aluminum production	2002.. N 1997.. N	X X	X X	5 377 419 6 116 371
3313120	Aluminum ingot, including billet, made in primary aluminum reduction plants	2002.. N 1997.. N	X X	X X	5 377 419 N
33131201	Aluminum ingot, including billet, made in primary aluminum reduction plants	2002.. N 1997.. N	X X	X X	5 377 419 N
3313120100	Aluminum ingot, including billet, made in primary aluminum reduction plants	2002.. 42 1997.. N	X X	X X	5 377 419 N
3313120Y	Primary aluminum production, nsk, total	2002.. N 1997.. N	X X	X X	- N
3313120YWW	Primary aluminum production, nsk, for nonadministrative-record establishments	2002.. N 1997.. N	X X	X X	- N
3313120YWY	Primary aluminum production, nsk, for administrative-record establishments	2002.. N 1997.. N	X X	X X	- N

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)
331312	Primary aluminum production		
0090001	Total materials	X	2 198 857
		X	2 474 128
33131209	Aluminum and aluminum-base alloy ingot 1,000 s tons ..	D	D
		162.4	246 505
3310009	All other aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
		X	183 113
33141103	Refined unalloyed copper (cathodes, ingots, cakes, slabs, etc.), including blister and anode copper 1,000 s tons ..	D	D
		D	D
3310015	All other copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
		X	2 797
33141937	Magnesium and magnesium-base alloy ingot	X	37 880
		X	52 638
33141907	All other magnesium and magnesium-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
		X	15 246
33141927	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X	17 822
		X	47 331
00190040	Aluminum and aluminum-base alloy scrap (excluding home scrap) 1,000 s tons ..	6.5	6 970
		D	D
00190052	All other nonferrous metal and metal-base alloy scrap	X	D
		X	-
33131100	Alumina (gross weight) 1,000 s tons ..	P5 227.5	818 476
		6 209.6	1 266 680
00970099	All other materials and components, parts, containers, and supplies	X	901 352
		X	632 759
00971000	Materials, ingredients, containers, and supplies, nsk	X	246 498
		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.