

Mineral Industry Surveys

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ALUMINUM IN AUGUST 2007

Domestic primary aluminum production in August was 220,000 metric tons (t), according to the U.S. Geological Survey. The average daily production rate was 7,103 t, slightly higher than that of the previous month and 19% higher than the rate for August 2006.

Total aluminum recovered from scrap in August 2007 was 268,000 t, 9% lower than the total for the previous month and 3% lower than in August 2006. In August 2007, 177,000 t of aluminum was recovered from new scrap, which was 6%

lower than the figure for July and 7% higher than in August 2006. Aluminum recovered from old scrap totaled 91,000 t in August, which was 13% lower than the figure of the previous month and 17% lower than in August 2006.

The monthly average U.S. market price of primary aluminum ingot in August declined to \$1.174 per pound from \$1.262 per pound in July. The monthly average U.S. market price of primary aluminum ingot continued to decline, dropping to \$1.113 per pound in September.

Used beverage can prices, cents per pound¹

| | |
|---------------------|--------------|
| August 1 | 83-85 |
| August 7 | 82-84 |
| August 14 | 79-81 |
| August 20 | 76-78 |
| August 28 | 78-80 |
| September 5 | 76-78 |
| September 11 | 75-77 |

¹Source: American Metal Market

TABLE 1
COMPONENTS OF ALUMINUM SUPPLY¹

(Thousand metric tons)

| Period | Primary production | Secondary recovery ² | | | Imports for consumption | | | Total new supply ³ | Total stocks, end of period ⁴ |
|-------------------|--------------------|---------------------------------|-------|-------|--------------------------|----------------------------|-------|-------------------------------|--|
| | | New | Old | Total | Metals and alloys, crude | Plates, sheets, bars, etc. | Total | | |
| 2006 ^P | 2,284 | 2,310 | 1,230 | 3,540 | 3,440 | 1,220 | 4,660 | 10,500 | 1,410 |
| 2006: | | | | | | | | | |
| August | 185 | 166 | 109 | 275 | 315 | 111 | 426 | 887 | 1,430 |
| September | 183 | 160 | 90 | 250 | 289 | 102 | 391 | 823 | 1,480 |
| October | 190 | 161 | 80 | 241 | 259 | 100 | 359 | 790 | 1,410 |
| November | 188 | 163 | 84 | 247 | 233 | 99 | 332 | 766 | 1,400 |
| December | 196 | 153 | 89 | 242 | 241 | 89 | 330 | 768 | 1,410 |
| January-August | 1,527 | 1,300 | 740 | 2,040 | 2,420 | 827 | 3,240 | 6,810 | 8,680 |
| 2007: | | | | | | | | | |
| January | 202 | 193 | 113 | 307 | 251 | 98 | 349 | 827 | 1,460 |
| February | 185 | 165 | 97 | 262 | 258 | 86 | 344 | 761 | 1,460 |
| March | 217 | 185 | 120 | 305 | 238 | 93 | 332 | 823 | 1,410 |
| April | 209 | 171 | 108 | 279 | 259 | 94 | 353 | 810 | 1,430 |
| May | 210 | 176 | 115 | 292 | 220 | 97 | 317 | 788 | 1,400 |
| June | 209 | 179 | 111 | 289 | 255 | 92 | 347 | 845 | 1,330 |
| July | 219 | 189 | 104 | 293 | 236 | 102 | 337 | 848 | 1,370 |
| August | 220 | 177 | 91 | 268 | NA | NA | NA | NA | NA |
| January-August | 1,671 | 1,440 | 859 | 2,300 | NA | NA | NA | NA | NA |

^PPreliminary. NA Not available.

¹Data are rounded to no more than three significant digits, except "Primary production"; may not add to totals shown.

²Metallic recovery from purchased, tolled, or imported scrap, expanded for full coverage of industry.

³Primary production, secondary recovery, and imports for consumption.

⁴Inventory levels reflect total for both U.S. and Canadian producers; data from the Aluminum Association Inc.

TABLE 2
ESTIMATED FULL COVERAGE CONSUMPTION OF AND METALLIC RECOVERY FROM
PURCHASED NEW AND OLD ALUMINUM SCRAP¹

(Thousand metric tons)

| Period | Secondary smelters | | Integrated aluminum companies | | Independent mill fabricators | | Foundries | | Other consumers | | Total | |
|-------------------|--------------------|----------------|-------------------------------|----------------|------------------------------|----------------|-------------|----------------|-----------------|----------------|-------------|----------------|
| | Consumption | Metal recovery | Consumption | Metal recovery | Consumption | Metal recovery | Consumption | Metal recovery | Consumption | Metal recovery | Consumption | Metal recovery |
| 2006 ^P | 2,260 | 1,640 | 901 | 807 | 1,070 | 1,000 | 87 | 76 | 10 | 9 | 4,340 | 3,540 |
| 2006: | | | | | | | | | | | | |
| August | 167 | 126 | 71 | 64 | 83 | 78 | 8 | 7 | (2) | (2) | 330 | 275 |
| September | 135 | 98 | 77 | 69 | 80 | 75 | 8 | 7 | (2) | (2) | 300 | 250 |
| October | 130 | 94 | 69 | 62 | 83 | 78 | 8 | 7 | (2) | (2) | 289 | 241 |
| November | 139 | 103 | 76 | 61 | 81 | 76 | 8 | 7 | (2) | (2) | 304 | 247 |
| December | 134 | 98 | 82 | 66 | 76 | 71 | 8 | 7 | (2) | (2) | 299 | 242 |
| January-August | 1,120 | 820 | 597 | 535 | 670 | 626 | 64 | 56 | 4 | 4 | 2,460 | 2,040 |
| 2007: | | | | | | | | | | | | |
| January | 184 | 143 | 81 | 73 | 89 | 83 | 8 | 7 | (2) | (2) | 363 | 307 |
| February | 148 | 110 | 69 | 62 | 89 | 83 | 8 | 7 | (2) | (2) | 314 | 262 |
| March | 181 | 138 | 90 | 81 | 85 | 79 | 8 | 7 | (2) | (2) | 365 | 305 |
| April | 160 | 120 | 80 | 72 | 86 | 80 | 8 | 7 | (2) | (2) | 334 | 279 |
| May | 155 | 116 | 94 | 84 | 90 | 84 | 8 | 7 | (2) | (2) | 347 | 292 |
| June | 148 | 110 | 88 | 79 | 99 | 92 | 8 | 7 | (2) | (2) | 344 | 289 |
| July | 158 | 118 | 77 | 69 | 104 | 98 | 8 | 7 | (2) | (2) | 347 | 292 |
| August | 182 | 139 | 93 | 83 | 96 | 90 | 8 | 7 | (2) | (2) | 380 | 320 |
| January-August | 1,320 | 994 | 672 | 603 | 738 | 689 | 64 | 56 | 4 | 4 | 2,790 | 2,350 |

^PPreliminary.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Less than ½ unit.

TABLE 3
CONSUMPTION OF AND RECOVERY FROM PURCHASED
NEW AND OLD ALUMINUM SCRAP IN AUGUST 2007¹

(Metric tons)

| | Consumption | | Calculated metallic recovery | |
|-------------------------------|-------------------|-------------------------|------------------------------|-------------------------|
| | Tabulated reports | Estimated full coverage | Tabulated reports | Estimated full coverage |
| Secondary smelters | 152,000 | 182,000 | 116,000 | 139,000 |
| Integrated aluminum companies | 93,300 | 93,300 | 82,700 | 82,700 |
| Independent mill fabricators | 80,200 | 96,300 | 75,100 | 90,100 |
| Foundries | 6,620 | 7,940 | 5,810 | 6,980 |
| Other consumers | 321 | 386 | 321 | 386 |
| Total | 332,000 | 380,000 | 280,000 | 320,000 |

¹Data are rounded to no more than three significant digits; may not add to totals shown.

TABLE 4
PURCHASED AND TOLL-TREATED ALUMINUM-BASE SCRAP AND SWEATED PIG IN AUGUST 2007¹

(Metric tons)

| | August | | | January-August | | |
|---------------------------------------|---------------------|------------------------------|-----------------------|--------------------|------------------------------|-----------------------|
| | Stocks, opening | Net receipts ² | Melted or consumed | Stocks, closing | Net receipts ² | Melted or consumed |
| New scrap: | | | | | | |
| Extrusion | 23,100 | 90,900 | 86,600 | 27,400 | 651,000 | 654,000 |
| Can stock clippings | 2,530 | 11,300 | 10,400 | 3,430 | 193,000 | 190,000 |
| Other wrought sheet/clippings | 4,200 ^r | 27,600 | 27,600 | 4,180 | 189,000 | 189,000 |
| Casting | 1,300 | 11,500 | 11,200 | 598 | 54,800 | 55,900 |
| Borings and turnings | 2,910 ^r | 18,400 | 18,600 | 2,720 | 123,000 | 123,000 |
| Dross and skimmings | 3,640 | 37,200 | 37,200 | 3,620 | 290,000 | 290,000 |
| Total new scrap | 37,600 ^r | 197,000 | 192,000 | 41,900 | 1,500,000 | 1,500,000 |
| Old scrap: | | | | | | |
| Used castings | 2,520 ^r | 15,500 | 15,300 | 2,730 | 116,000 | 117,000 |
| Used extrusion | 2,110 ^r | 4,220 | 4,220 | 2,110 | 34,900 | 34,800 |
| Used cans (shredded, loose, baled) | 202 | 57,800 | 57,300 | 689 | 446,000 | 449,000 |
| Other wrought products | 3,150 | 45,900 | 45,900 | 3,150 | 229,000 | 229,000 |
| Fragmentized shredder (auto shredder) | 1,010 ^r | 17,400 | 17,300 | 1,060 | 104,000 | 105,000 |
| Total old scrap | 8,980 ^r | 141,000 | 140,000 | 9,740 | 929,000 | 934,000 |
| Sweated pig | -- | 582 | 582 | -- | 4,870 | 4,870 |
| Total all classes | 46,600 ^r | 338,000 | 332,000 | 51,700 | 2,430,000 | 2,440,000 |

^rRevised. -- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes data on imported aluminum-base scrap.

TABLE 5
ALUMINUM ALLOYS PRODUCED AT SECONDARY SMELTERS IN THE UNITED STATES FOR 2007^{1,2}

(Metric tons)

| | August | | | January-August | | |
|---|---------------------|------------|------------------|--------------------|------------|------------------|
| | Stocks, opening | Production | Net shipments | Stocks, closing | Production | Net shipments |
| Die-cast alloys: | | | | | | |
| 13% Si, 360, etc. (0.6% Cu, max.) | 2,960 | 2,040 | 2,050 | 2,960 | 16,800 | 16,600 |
| 380 and variations | 3,550 ^r | 13,000 | 13,300 | 3,260 | 128,000 | 129,000 |
| Sand and permanent mold: | | | | | | |
| 95/5 Al-Si, 356, etc. (0.6% Cu, max.) | 1,810 | 2,720 | 2,790 | 1,740 | 22,000 | 22,200 |
| No. 319 and variations | 3,140 ^r | 3,920 | 4,750 | 2,310 | 45,000 | 45,600 |
| F-132 alloy and variations | 892 | 1,390 | 1,450 | 834 | 11,700 | 11,700 |
| Al-Zn alloys | 317 | 168 | 187 | 299 | 1,520 | 1,520 |
| Al-Si alloys (0.6% to 2.0% Cu) | 177 | 213 | 213 | 177 | 1,710 | 1,710 |
| Al-Cu alloys (1.5% Si, max.) | 283 | 411 | 411 | 283 | 3,290 | 3,290 |
| Other ³ | 3,630 | 11,000 | 10,900 | 3,690 | 84,500 | 85,700 |
| Wrought alloys, extrusion billets | 10,600 | 42,500 | 42,100 | 11,100 | 338,000 | 338,000 |
| Total all alloys | 27,400 ^r | 77,400 | 78,200 | 26,600 | 653,000 | 655,000 |
| Less: | | | | | | |
| Primary aluminum consumed | XX | 14,200 | XX | XX | 113,000 | XX |
| Primary silicon consumed | XX | 3,460 | XX | XX | 20,800 | XX |
| Other alloying ingredients consumed | XX | 25,100 | XX | XX | 31,200 | XX |
| Net metallic recovery from aluminum scrap and sweated pig consumed in production of secondary aluminum ingot ⁴ | XX | 34,700 | XX | XX | 488,000 | XX |

^rRevised. XX Not applicable.

¹Excludes integrated aluminum companies.

²Data are rounded to no more than three significant digits; may not add to totals shown.

³Includes alloys No. 12, Al-Mg, Al-Si-Cu-Ni, aluminum-base hardeners, variations of these alloys, plus other aluminum alloys.

⁴No allowance made for melt-loss of primary aluminum and alloying ingredients.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF ALUMINUM IN JULY 2007¹

(Metric tons)

| Country | Metals and alloys, crude | | Plates, sheets, bars, etc. | | Scrap | | Total | |
|----------------------|--------------------------|------------------|----------------------------|------------------|--------|------------------|---------|------------------|
| | July | January- July | July | January- July | July | January- July | July | January- July |
| Argentina | 5,100 | 34,400 | 2 | 56 | -- | -- | 5,100 | 34,400 |
| Australia | 244 | 33,000 | 7 | 72 | -- | 2,730 | 251 | 35,800 |
| Bahrain | 3,360 | 27,400 | 1,650 | 10,800 | -- | -- | 5,010 | 38,200 |
| Belgium | -- | 58 | 1,010 | 7,250 | -- | 14 | 1,010 | 7,320 |
| Brazil | 8,710 | 49,700 | 2,140 | 19,100 | -- | 1 | 10,900 | 68,800 |
| Canada | 164,000 | 1,100,000 | 40,900 | 268,000 | 27,600 | 190,000 | 232,000 | 1,560,000 |
| China | 2,300 | 27,300 | 18,700 | 111,000 | -- | 40 | 21,000 | 138,000 |
| France | 33 | 378 | 362 | 2,030 | 3 | 34 | 398 | 2,440 |
| Germany | 42 | 1,430 | 8,290 | 61,400 | 27 | 221 | 8,360 | 63,000 |
| Hungary | -- | -- | 9 | 91 | -- | -- | 9 | 91 |
| Italy | -- | 513 | 871 | 5,100 | (2) | 40 | 871 | 5,650 |
| Japan | -- | 139 | 1,240 | 8,680 | 80 | 373 | 1,320 | 9,200 |
| Korea, Republic of | 653 | 2,020 | 306 | 1,670 | -- | 58 | 959 | 3,750 |
| Mexico | 1,750 | 10,300 | 1,840 | 12,300 | 8,030 | 59,100 | 11,600 | 81,800 |
| Netherlands | 98 | 492 | 206 | 1,360 | -- | -- | 303 | 1,850 |
| Norway | 453 | 2,820 | -- | 139 | -- | -- | 453 | 2,960 |
| Russia | 24,100 | 269,000 | 4,220 | 33,800 | -- | 1,660 | 28,300 | 304,000 |
| South Africa | -- | 35,400 | 7,970 | 31,100 | -- | -- | 7,970 | 66,500 |
| Spain | -- | 73 | 36 | 400 | -- | -- | 36 | 474 |
| Sweden | -- | -- | 255 | 935 | -- | -- | 255 | 935 |
| Switzerland | 115 | 115 | 484 | 3,300 | -- | -- | 599 | 3,420 |
| United Arab Emirates | 8,030 | 62,100 | -- | -- | -- | 18 | 8,030 | 62,100 |
| United Kingdom | 378 | 2,580 | 408 | 2,820 | 221 | 324 | 1,010 | 5,720 |
| Venezuela | 13,600 | 29,900 | 284 | 5,090 | -- | 313 | 13,900 | 35,300 |
| Other | 2,880 | 28,600 | 10,200 | 76,300 | 3,180 | 24,400 | 16,300 | 129,000 |
| Total | 236,000 | 1,720,000 | 101,000 | 663,000 | 39,100 | 279,000 | 376,000 | 2,660,000 |

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 7
U.S. EXPORTS OF ALUMINUM IN JULY 2007¹

(Metric tons)

| Country or territory | Metals and alloys, crude | | Plates, sheets, bars, etc. | | Scrap | | Total | |
|----------------------|--------------------------|------------------|----------------------------|------------------|---------|------------------|---------|------------------|
| | July | January- July | July | January- July | July | January- July | July | January- July |
| Australia | 27 | 192 | 73 | 774 | 20 | 85 | 121 | 1,050 |
| Azerbaijan | -- | -- | 6 | 9 | -- | -- | 6 | 9 |
| Belgium | -- | 313 | 207 | 1,990 | -- | -- | 207 | 2,300 |
| Brazil | 239 | 255 | 1,140 | 6,440 | 481 | 1,610 | 1,860 | 8,310 |
| Canada | 7,850 | 65,300 | 35,000 | 249,000 | 11,700 | 93,300 | 54,600 | 408,000 |
| China | 30 | 261 | 1,610 | 10,700 | 65,500 | 418,000 | 67,100 | 429,000 |
| Czech Republic | -- | 2 | 24 | 164 | -- | -- | 24 | 167 |
| Dominican Republic | -- | 10 | 40 | 258 | -- | -- | 40 | 268 |
| France | 85 | 263 | 413 | 6,740 | (2) | 3 | 498 | 7,000 |
| Germany | 1,290 | 1,770 | 851 | 5,570 | 243 | 559 | 2,380 | 7,900 |
| Hong Kong | 1 | 439 | 1,760 | 11,300 | 2,420 | 18,800 | 4,180 | 30,500 |
| India | 2 | 157 | 179 | 696 | 1,300 | 9,180 | 1,480 | 10,000 |
| Israel | 137 | 783 | 501 | 3,230 | -- | -- | 638 | 4,020 |
| Italy | 8 | 2,270 | 327 | 2,280 | 71 | 456 | 406 | 5,010 |
| Japan | 807 | 11,100 | 1,600 | 10,100 | 4,120 | 23,700 | 6,530 | 44,900 |
| Korea, Republic of | 2 | 317 | 1,330 | 10,500 | 17,400 | 119,000 | 18,700 | 130,000 |
| Malaysia | 1 | 13 | 884 | 4,810 | 236 | 7,550 | 1,120 | 12,400 |
| Mexico | 14,900 | 115,000 | 22,500 | 148,000 | 6,780 | 46,500 | 44,200 | 310,000 |
| Netherlands | (2) | 1,570 | 150 | 766 | 162 | 419 | 313 | 2,750 |
| Russia | -- | 516 | 28 | 177 | -- | 38 | 28 | 732 |
| Saudi Arabia | (2) | 18 | 3,750 | 16,600 | -- | -- | 3,750 | 16,600 |
| Singapore | 10 | 254 | 503 | 1,680 | -- | 6 | 513 | 1,940 |
| Spain | 376 | 439 | 78 | 991 | 141 | 200 | 595 | 1,630 |
| Sweden | 15 | 30 | 119 | 314 | 1,250 | 1,250 | 1,380 | 1,590 |
| Taiwan | 3 | 325 | 387 | 3,420 | 8,880 | 70,900 | 9,270 | 74,600 |
| Thailand | -- | 525 | 1,080 | 7,390 | 1,980 | 8,460 | 3,060 | 16,400 |
| Ukraine | -- | -- | 1 | 55 | -- | -- | 1 | 55 |
| United Kingdom | 6 | 172 | 1,710 | 9,460 | 97 | 1,500 | 1,810 | 11,100 |
| Venezuela | -- | (2) | 86 | 911 | -- | 77 | 86 | 988 |
| Other | 631 | 3,570 | 3,350 | 31,700 | 1,390 | 10,700 | 5,380 | 45,900 |
| Total | 26,400 | 206,000 | 79,700 | 546,000 | 124,000 | 832,000 | 230,000 | 1,590,000 |

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Less than ½ unit.

Source: U.S. Census Bureau.