

# Mineral Industry Surveys

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## ALUMINUM IN JULY 2022

Domestic primary aluminum production in July 2022 was 64,000 metric tons (t). The average daily production in July 2022 was 2,070 t, 21% less than that in June 2022, 12% less than that in July 2021, and 22% less than that in July 2020 (fig. 1, table 1). The decreased production rate in July was attributed to the shutdown of Century Aluminum Co.’s smelter in Hawesville, KY. (See Aluminum in April 2022.)

Total aluminum recovered from scrap in July 2022 was 284,000 t, essentially unchanged from that in June 2022, a slight increase from that in July 2021, and 11% more than that in July 2020. Of this, 150,000 t of aluminum was recovered from new scrap, and 134,000 t was recovered from old scrap (fig. 1, table 1).

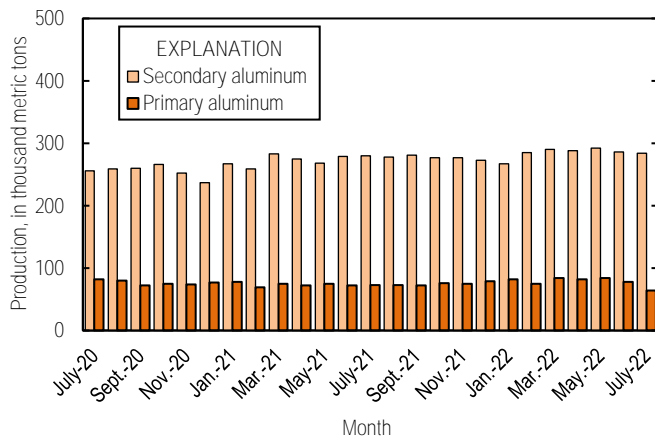


Figure 1. Monthly domestic primary and secondary aluminum production from July 2020 through July 2022.

### Prices and Stocks

The July 2022 average U.S. spot market price of primary aluminum ingot was \$1.38 per pound, 7% less than that in June 2022, 4% less than that in July 2021, and 62% more than that in July 2020. The average cash price in July 2022 of primary aluminum ingot on the London Metal Exchange (LME) was \$1.09 per pound, 6% less than that in June 2022, 4% less than that in July 2021, and 46% more than that in July 2020 (fig. 2, table 6).

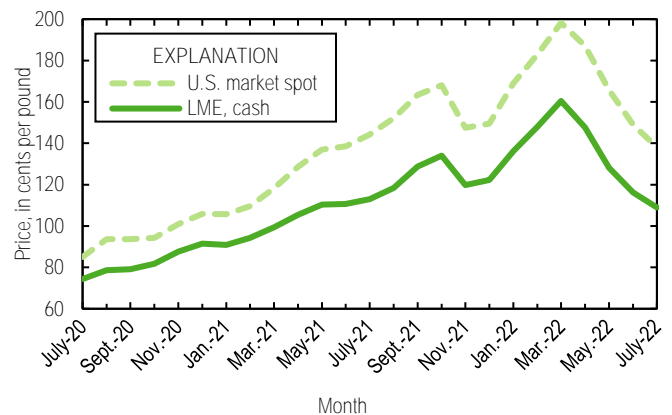


Figure 2. Average monthly prices for primary aluminum from July 2020 through July 2022. Source: S&P Global Platts Metals Week.

Inventories of primary aluminum in LME-approved warehouses, including off-warrant inventories, in the United States decreased to 20,110 t at the end of July 2022 from 23,302 t at the end of June 2022. Inventories of secondary aluminum (North American Secondary Aluminum Alloy Contract) in LME-approved warehouses, including off-warrant inventories, in the United States decreased to 6,027 t at the end of July 2022 from 6,332 t at the end of June 2022 (London Metal Exchange Ltd., 2022a, b, c, d).

### Updates

On September 7, the Kaiser Aluminum Corp. announced that it had lifted force majeure at its Warrick Rolling Mill. Kaiser declared the action in July because US Magnesium, LLC, the company’s supplier of magnesium, had declared force majeure in September 2021. Although Kaiser does not anticipate receiving any more shipments of magnesium this year from US Magnesium, the company has found alternative sources that will supply its needs through the remainder of 2022 (Kaiser Aluminum Corp., 2022).

On September 9, MetalX, Inc., an Indiana based scrap metal recycler, announced the acquisition of secondary aluminum smelter SRT Aluminum, LLC in Wabash, IN. The newly

acquired facility includes electric induction and reverb furnaces capable of producing remelt scrap ingot. In the near-term, the company plans to increase the current rate of scrap metal recycling at the facility to over 81,000 t/yr from nearly 60,000 t/yr (MetalX Inc., 2022).

On August 24, labor strikes at Norwegian smelters owned by Alcoa Corp. and Norsk Hydro ASA, were resolved. The strikes were initiated by Industri Energi, a trade union that represents energy workers in Norway, on August 22. Normal operations have resumed at Alcoa's Mosjoen smelter and Norsk Hydro's Sunndal smelter (Alcoa Corp. 2022a, c; Norsk Hydro ASA, 2022a, c).

Several European aluminum producers have announced production curtailments due to high energy costs. On August 17, Norsk Hydro announced that it will cease primary aluminum production at its Svalco aluminum facility in Slovakia. The facility has a primary aluminum capacity of 175,000 metric tons per year (t/yr). The cast house remains operational, producing 75,000 t/yr of recycled aluminum (Norsk Hydro ASA, 2022b). On August 30, Alcoa announced curtailment of a single potline at its Lista smelter in Norway. Primary aluminum production at the 94,000 t/yr capacity smelter will be reduced by one-third (Alcoa Corp., 2022b). On September 7, Speira GmbH, producer of rolled aluminum products, announced that it would reduce primary smelter production at its Rheinwerk plant in Germany by 50% of its current 70,000 t/yr capacity (Speira GmbH, 2022). In September, Aluminum Dunkerque will reportedly reduce production at its primary smelter located in northern France by 22% from last year's production of 290,000 t (Perez and Farchy, 2022).

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TABLE 1  
COMPONENTS OF ALUMINUM SUPPLY<sup>1</sup>

(Thousand metric tons)

Period	Primary production	Secondary recovery <sup>2</sup>			Imports for consumption			Total new supply <sup>3</sup>	Stocks, end of period <sup>4</sup>
		New	Old	Total	Metals and alloys, crude	Plates, sheets, bars, etc.	Total		
2021 <sup>P</sup>	889	1,780	1,520	3,300	3,630	1,290	4,920	9,110	1,860
2021:									
July	73	148	131	280	298	105	403	756	1,730
August	73	149	129	278	319	126	445	796	1,710
September	72	152	129	281	285	106	391	744	1,710
October	76	149	127	277	339	107	446	799	1,780
November	75	151	126	277	338	119	457	809	1,820
December	79	146	127	273	316	109	425	777	1,860
January–July	513 <sup>r</sup>	1,030 <sup>r</sup>	878 <sup>r</sup>	1,910 <sup>r</sup>	2,030	727	2,760	5,180 <sup>r</sup>	NA
2022:									
January	82	152	115	267	343	112	455	804	1,880
February	75	159	126	285	262	107	369	729	1,900
March	84	159	132	290	341	129	470	844	1,910
April	82	155	132	288	331	125	456	826	1,910
May	84	162	130	292	404	144	548	924	1,880
June	78	154	132	286	460	124	583	948 <sup>r</sup>	1,910
July	64	150	134	284	345	129	474	822	NA
January–July	549	1,090	901	1,990	2,490	870	3,360	5,900	NA

<sup>P</sup>Preliminary. <sup>r</sup>Revised. NA Not Available.

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

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

<sup>3</sup>Primary production, secondary recovery, and imports for consumption.

<sup>4</sup>Inventory levels reflect total for 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 SCRAP<sup>1</sup>

(Thousand metric tons)

Period	Secondary smelters		Independent mill fabricators		Foundries		Other consumers		Total	
	Con-sump-tion	Metal recovery	Con-sump-tion	Metal recovery	Con-sump-tion	Metal recovery	Con-sump-tion	Metal recovery	Con-sump-tion	Metal recovery
	2021 <sup>P</sup>	2,320	1,750	1,590	1,450	101	93	4	4	4,020
2021:										
July	192	145	139	127	8	8	(2)	(2)	340	280
August	196	147	136	124	8	8	(2)	(2)	341	278
September	194	146	139	127	8	8	(2)	(2)	341	281
October	195	146	134	122	8	8	(2)	(2)	338	277
November	196	147	133	122	8	8	(2)	(2)	338	277
December	194	146	130	119	8	8	(2)	(2)	333	273
January–July	1,350 <sup>r</sup>	1,010 <sup>r</sup>	921 <sup>r</sup>	841 <sup>r</sup>	59	54	2	2	2,330 <sup>r</sup>	1,910 <sup>r</sup>
2022:										
January	195	146	123	113	8	8	(2)	(2)	327	267
February	193	145	144	132	8	8	(2)	(2)	346	285
March	200	149	145	133	8	8	(2)	(2)	354	290
April	199	149	143	130	8	8	(2)	(2)	351	288
May	201	150	146	134	8	8	(2)	(2)	356	292
June	202	151	140	127	8	8	(2)	(2)	351	286
July	199	148	141	128	8	8	(2)	(2)	348	284
January–July	1,390	1,040	981	896	59	54	2	2	2,430	1,990

<sup>P</sup>Preliminary. <sup>r</sup>Revised.

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

<sup>2</sup>Less than ½ unit.

TABLE 3  
 CONSUMPTION OF AND RECOVERY FROM PURCHASED  
 NEW AND OLD ALUMINUM SCRAP IN JULY 2022<sup>1</sup>

(Metric tons)

	Consumption		Calculated metallic recovery	
	Tabulated reports	Estimated full coverage	Tabulated reports	Estimated full coverage
Secondary smelters	166,000	199,000	123,000	148,000
Independent mill fabricators	126,000	141,000	115,000	128,000
Foundries	7,040	8,450	6,440	7,730
Other consumers	273	328	273	328
Total	299,000	348,000	245,000	284,000

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

TABLE 4  
PURCHASED AND TOLL-TREATED ALUMINUM-BASE SCRAP IN JULY 2022<sup>1</sup>

(Metric tons)

	July			January–July <sup>2</sup>		
	Stocks, opening <sup>2</sup>	Net receipts <sup>3</sup>	Melted or consumed	Stocks, closing	Net receipts <sup>3</sup>	Melted or consumed
<b>New scrap:</b>						
Extrusion	18,700	35,100	35,000	18,700	288,000	288,000
Can stock clippings	10,500	31,900	31,900	10,500	209,000	209,000
Other wrought sheet/clippings	11,600	33,400	35,300	9,710	255,000	254,000
Casting	5,920	7,900	7,900	5,920	57,500	57,500
Borings and turnings	5,270	12,900	12,900	5,270	94,600	94,600
Dross and skimmings <sup>4</sup>	18,500	45,100	45,100	18,500	313,000	313,000
<b>Total new scrap</b>	<b>70,400</b>	<b>166,000</b>	<b>168,000</b>	<b>68,600</b>	<b>1,220,000</b>	<b>1,220,000</b>
<b>Old scrap:</b>						
Used castings	8,160	28,100	28,100	8,160	194,000	194,000
Used extrusion	7,840	16,700	16,700	7,840	122,000	122,000
Used cans (shredded, loose, baled)	7,850	49,200	49,200	7,850	302,000	302,000
Other wrought products	19,100	25,000	25,000	19,100	180,000	180,000
Fragmentized shredder (auto shredder)	5,970	12,100	12,100	5,970	85,400	85,400
<b>Total old scrap</b>	<b>48,900</b>	<b>131,000</b>	<b>131,000</b>	<b>48,900</b>	<b>885,000</b>	<b>885,000</b>
<b>Total all classes</b>	<b>119,000</b>	<b>297,000</b>	<b>299,000</b>	<b>117,000</b>	<b>2,100,000</b>	<b>2,100,000</b>

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

<sup>2</sup>May include revisions to previously published data.

<sup>3</sup>Includes data on imported aluminum-base scrap.

<sup>4</sup>Gross volume of dross and skimmings. Recoverable aluminum content ranges from 15% to 50% of gross weight.

TABLE 5  
ALUMINUM ALLOYS PRODUCED AT SECONDARY SMELTERS IN THE UNITED  
STATES IN JULY 2022<sup>1,2</sup>

(Metric tons)

	July				January–July	
	Stocks, opening <sup>3</sup>	Production	Net shipments	Stocks, closing	Production	Net shipments
Die-cast alloys:						
13% Si, 360, etc. (0.6% Cu, max.)	2,570	2,870	2,870	2,570	20,100	20,100
380 and variations	7,970	18,900	18,900	7,970	133,000	133,000
Sand and permanent mold:						
95/5 Al-Si, 356, etc. (0.6% Cu, max.)	1,950	2,830	2,830	1,950	19,800	19,800
No. 319 and variations	2,230	2,000	2,000	2,230	14,000	14,000
F-132 alloy and variations	143	221	221	143	1,540	1,540
Al-Zn alloys	172	85	85	172	595	595
Al-Si alloys (0.6% to 2.0% Cu)	101	166	166	101	1,160	1,160
Al-Cu alloys (1.5% Si, max.)	405	564	564	405	3,950	3,950
Other <sup>4</sup>	7,250	8,250	8,250	7,250	57,800	57,800
Wrought alloys, extrusion billets	10,700	54,800	54,800	10,700	392,000	392,000
Total all alloys	33,400	90,700	90,700	33,400	643,000	643,000
Less:						
Primary aluminum consumed	XX	16,600	XX	XX	120,000	XX
Primary silicon consumed	XX	1,680	XX	XX	11,800	XX
Other alloying ingredients consumed	XX	791	XX	XX	5,600	XX
Net metallic recovery from aluminum scrap consumed in production of secondary aluminum ingot <sup>5</sup>						
	XX	71,600	XX	XX	506,000	XX

XX Not applicable.

<sup>1</sup>Excludes integrated aluminum companies.

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

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Includes alloys No. 12, Al-Mg, Al-Zn, Al-Cu, Al-Si-Cu-Ni, aluminum-base hardeners, variations of these alloys, plus other aluminum alloys.

<sup>5</sup>No allowance made for melt-loss of primary aluminum and alloying ingredients.

TABLE 6  
 AVERAGE PRICE OF ALUMINUM IN THE UNITED STATES  
 AND ON THE LONDON METAL EXCHANGE

(Cents per pound)

Period	Midwest U.S. market price	LME cash price Grade A
2021:		
July	144.205	113.033
August	152.055	118.417
September	163.420	128.794
October	168.110	134.028
November	147.557	119.796
December	149.417	122.237
January–December	138.511	112.281
2022:		
January	169.020	136.197
February	182.873	147.883
March	198.185	160.448
April	187.079	147.693
May	165.795	128.182
June	149.085	116.235
July	137.994	108.911
January–July	170.004	135.078

Source: S&P Global Platts Metals Week.

TABLE 7  
AVERAGE BUYING PRICES FOR ALUMINUM SCRAP

(Cents per pound)

Month	Used beverage cans	Mixed low copper clips	Old sheet	Old cast	Turnings (clean and dry)
2021:					
July	71.40	73.90	67.20	67.40	67.60
August	77.63 <sup>r</sup>	73.50	66.00 <sup>r</sup>	66.63 <sup>r</sup>	66.25 <sup>r</sup>
September	83.30	75.70	66.80	67.60	66.20
October	87.50	80.63	72.25	71.25	67.75
November	84.00	78.00	70.50	70.00	68.00
December	85.70	74.60	70.50	70.00	70.40
January–December	76.50	73.03	67.87	68.39	67.16
2022:					
January	99.38	77.75	72.75	72.13	71.75
February	111.63	81.75	78.50	76.13	74.00
March	129.30	86.10	86.20	83.70	79.20
April	122.38	87.50	89.50	85.50	80.75
May	106.25	81.00	76.75	77.63	73.13
June	93.70	74.70	69.60	70.60	66.60
July	76.88	68.50	63.75	65.25	59.38

<sup>r</sup>Revised.

Source: Fastmarket–AMM.

TABLE 8  
U.S. IMPORTS FOR CONSUMPTION OF ALUMINUM IN JULY 2022<sup>1</sup>

(Metric tons)

Country or locality	Metals and alloys, crude		Plates, sheets, bars, etc.		Scrap		Total	
	July	January-- July	July	January-- July	July	January-- July	July	January-- July
Argentina	20,000	100,000	(2)	82	--	--	20,000	100,000
Australia	4,210	135,000	11	182	--	--	4,220	136,000
Austria	--	25	3,120	20,500	11	37	3,130	20,600
Bahrain	29,500	190,000	4,350	34,200	2	2	33,900	224,000
Belgium	21	239	1,040	6,210	--	--	1,070	6,450
Brazil	4,310	21,600	366	1,110	743	4,750	5,420	27,500
Canada	189,000	1,500,000	15,400	118,000	31,900	220,000	237,000	1,840,000
Chile	--	--	2	2	205	1,360	207	1,360
China <sup>3</sup>	89	898	22,000	126,000	139	228	22,200	127,000
Colombia	--	--	217	2,070	369	3,390	586	5,460
Costa Rica	--	--	13	94	238	1,620	251	1,720
France	311	1,510	389	3,170	14	128	714	4,800
Germany	104	1,660	6,240	21,600	124	884	6,460	24,100
Greece	--	--	2,480	15,600	64	172	2,540	15,800
Guatemala	--	--	--	--	780	5,300	780	5,300
Honduras	--	--	275	1,750	259	1,240	534	2,990
India	14,700	65,300	1,560	11,400	1	1	16,300	76,700
Indonesia	43	922	1,150	8,830	--	--	1,200	9,750
Italy	(2)	700	1,190	8,180	--	4	1,190	8,880
Japan	--	1	4,510	32,400	--	48	4,510	32,500
Korea, Republic of	3,790	15,400	8,890	73,200	--	66	12,700	88,600
Malaysia	--	204	1,040	8,180	--	--	1,040	8,390
Mexico	1,060	8,890	8,320	51,500	20,100	133,000	29,500	193,000
Netherlands	49	525	134	1,410	258	855	441	2,790
Norway	34	1,980	697	6,500	--	--	731	8,480
Oman	--	624	10,300	66,500	--	--	10,300	67,100
Qatar	12,700	52,000	(2)	(2)	--	--	12,700	52,000
Romania	--	--	3	790	--	--	3	790
Russia	30,100	150,000	542	6,080	--	--	30,600	156,000
Saudi Arabia	--	--	2,080	18,100	--	--	2,080	18,100
South Africa	101	2,900	5,200	26,500	1,180	1,380	6,480	30,800
Spain	178	842	1,040	6,680	--	1	1,220	7,520
Sweden	1,500	1,500	1,060	5,760	--	--	2,570	7,260
Switzerland	16	89	211	2,330	99	99	326	2,520
Taiwan	27	108	695	3,120	--	3	722	3,230
Thailand	259	1,470	9,840	66,500	37	97	10,100	68,100
Turkey	1,280	9,320	4,970	32,300	--	(2)	6,250	41,600
United Arab Emirates	31,500	223,000	482	5,270	--	97	32,000	228,000
United Kingdom	16	37	1,000	10,600	26	117	1,040	10,800
Vietnam	4	9	3,280	24,700	--	22	3,280	24,700
Other	--	64	4,850	42,600	1,620	14,000	6,470	56,700
Total	345,000	2,490,000	129,000	870,000	58,100	388,000	532,000	3,740,000

-- Zero.

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

<sup>2</sup>Less than ½ unit.

<sup>3</sup>Includes Hong Kong.

Source: U.S. Census Bureau.

TABLE 9  
U.S. EXPORTS OF ALUMINUM IN JULY 2022<sup>1</sup>

(Metric tons)

Country or locality	Metals and alloys, crude		Plates, sheets, bars, etc.		Scrap		Total	
	July	January– July	July	January– July	July	January– July	July	January– July
Australia	1	679	8	144	--	--	9	823
Belgium	--	3	60	281	1,110	12,300	1,170	12,600
Brazil	1	28	97	755	38	637	136	1,420
Canada	5,190	39,700	20,900	150,000	8,600	69,200	34,700	259,000
China <sup>2</sup>	64	1,420	181	2,140	7,670	107,000	7,910	110,000
Colombia	--	31	22	185	240	873	262	1,090
Dominican Republic	--	2	3	163	304	1,670	307	1,830
France	41	147	226	1,550	109	532	376	2,230
Germany	13	82	86	747	510	3,790	609	4,620
Guatemala	--	1	26	55	--	2	26	58
India	1	189	40	225	40,900	268,000	40,900	268,000
Indonesia	3	3	3	35	6,170	36,600	6,180	36,600
Ireland	5	25	63	143	--	--	68	168
Israel	--	2	50	510	--	(3)	50	512
Italy	3	6	49	308	1,340	7,960	1,390	8,270
Jamaica	--	20	1	7	--	--	1	27
Japan	15	454	223	1,250	1,520	17,000	1,760	18,700
Korea, Republic of	40	456	127	1,040	19,400	175,000	19,600	176,000
Malaysia	6,260	19,400	22	464	34,000	203,000	40,300	222,000
Mexico	11,200	80,900	14,600	88,000	15,000	124,000	40,800	293,000
Netherlands	13	37	18	173	833	4,150	864	4,360
New Zealand	--	--	3	207	--	--	3	207
Norway	(3)	7	(3)	18	--	--	(3)	25
Pakistan	--	--	--	22	785	9,420	785	9,450
Panama	--	2	5	26	--	--	5	28
Philippines	2	4	16	74	71	4,090	89	4,170
Poland	--	14	43	258	--	11	43	283
Romania	(3)	(3)	9	26	--	--	9	26
Russia	--	--	--	6	--	2,720	--	2,720
Saudi Arabia	--	(3)	1	19	--	--	1	19
Singapore	34	197	13	272	6	663	53	1,130
Spain	--	(3)	11	73	333	2,530	344	2,610
Taiwan	37	488	123	727	3,500	20,100	3,660	21,300
Thailand	5	18	25	146	8,980	59,900	9,010	60,000
Turkey	--	(3)	152	485	666	11,700	818	12,200
United Arab Emirates	2	45	124	3,820	517	3,020	643	6,890
United Kingdom	(3)	451	110	853	354	1,690	464	2,990
Vietnam	--	3	1	57	781	7,410	782	7,470
Other	85	559	318	1,430	1,250	9,970	1,660	12,000
Total	23,000	145,000	37,800	257,000	155,000	1,160,000	216,000	1,570,000

-- Zero.

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

<sup>2</sup>Includes Hong Kong.

<sup>3</sup>Less than ½ unit.

Source: U.S. Census Bureau.