

Mineral Industry Surveys

For information, contact:

Adam Merrill, Aluminum Commodity Specialist
 National Minerals Information Center
 Telephone: (703) 648-7715
 Email: amerrill@usgs.gov

Susan M. Weaver (Data)
 Telephone: (703) 648-7979
 Email: sweaver@usgs.gov
Internet: <https://www.usgs.gov/centers/national-minerals-information-center/mineral-industry-surveys>

ALUMINUM IN JUNE 2022

Domestic primary aluminum production in June 2022 was 78,000 metric tons (t). The average daily production in June 2022 was 2,620 t, 3% less than that in May 2022, 9% more than that in June 2021, and 12% less than that in June 2020 (fig. 1, table 1).

Total aluminum recovered from scrap in June 2022 was 286,000 t, slightly less than that in May 2022, 3% more than that in June 2021, and 20% more than that in June 2020. Of this, 154,000 t of aluminum was recovered from new scrap, and 132,000 t was recovered from old scrap (fig. 1, table 1).

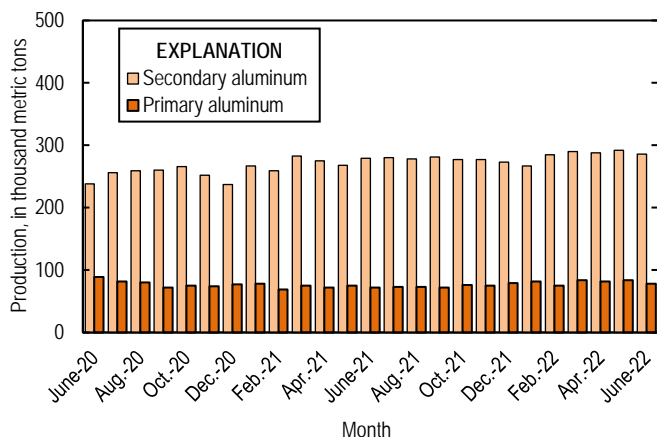


Figure 1. Monthly domestic primary and secondary aluminum production from June 2020 through June 2022.

Prices and Stocks

The June 2022 average U.S. spot market price of primary aluminum ingot was \$1.49 per pound, 10% less than that in May 2022, 8% more than that in June 2021, and 87% more than that in June 2020. The average cash price in June 2022 of primary aluminum ingot on the London Metal Exchange (LME) was \$1.16 per pound, 9% less than that in May 2022, 5% more than that in June 2021, and 64% more than that in June 2020 (fig. 2, table 6).

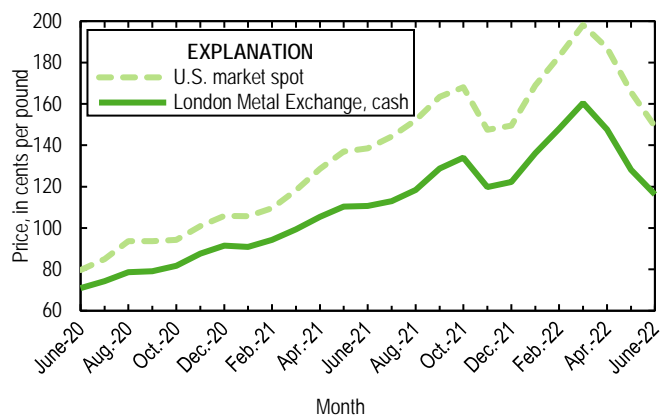


Figure 2. Average monthly prices for primary aluminum from June 2020 through June 2022. Source: S&P Global Platts Metals Week.

Inventories of primary aluminum in LME-approved warehouses, including off-warrant inventories, in the United States decreased to 23,302 t at the end of June 2022 from 28,958 t at the end of May 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 6,332 t at the end of June 2022 from 6,376 t at the end of May 2022 (London Metal Exchange Ltd., 2022a, b, c, d).

Updates

On July 28, Norsk Hydro ASA (Hydro) announced that it will make \$15 million in improvements at its aluminum remelting facility in Henderson, KY. The upgrades include installation of a new homogenization furnace and bag house. The equipment will enable the facility to increase production of advanced alloys, reduce the carbon footprint, and improve air quality inside the plant (Norsk Hydro ASA, 2022a).

On August 2, Hydro announced the expansion of its extrusion plant in Cressona, PA. The \$50 million investment will increase the plant's casting capacity by 51,700 t/yr. The project is expected to be completed by 2024 (Norsk Hydro ASA, 2022b).

On August 4, Ball Corp. announced that it is permanently closing beverage can manufacturing facilities in Phoenix, AZ, and St. Paul, MN. Additionally, the construction of a previously announced new beverage can manufacturing facility in North Las Vegas, NV, will be delayed. The company cited “localized supply-demand imbalances” as the reason for shuttering and delaying the facilities (Ball Corp. 2022a, b).

References Cited

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TABLE 1
COMPONENTS OF ALUMINUM SUPPLY¹

(Thousand metric tons)

Period	Primary production	Secondary recovery ²			Imports for consumption			Total new supply ³	Stocks, end of period ⁴
		New	Old	Total	Metals and alloys, crude	Plates, sheets, bars, etc.	Total		
2021 ^p	889	1,780	1,520	3,300	3,630	1,290	4,920	9,110	1,860
2021:									
June	72	148	131	279	294	113	407	758	1,680
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–June	440 ^r	885 ^r	747 ^r	1,630 ^r	1,730	622	2,350	4,430 ^r	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 ^r
May	84	162	130	292	404	144	548	923 ^r	1,880
June	78	154	132	286	460	124	583	947	NA
January–June	485	941	767	1,710	2,140	741	2,880	5,070	NA

^pPreliminary. ^rRevised. 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 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		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 ^P	2,320	1,750	1,590	1,450	101	93	4	4	4,020	3,300
2021:										
June	194	147	137	124	8	8	(2)	(2)	340	279
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–June	1,160 ^r	870 ^r	782 ^r	714 ^r	51	46	2	2	1,990 ^r	1,630 ^r
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
January–June	1,190	890	840	769	51	46	2	2	2,080	1,710

^PPreliminary. ^rRevised.

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 JUNE 2022¹

(Metric tons)

	Consumption		Calculated metallic recovery	
	Tabulated reports	Estimated full coverage	Tabulated reports	Estimated full coverage
Secondary smelters	169,000	202,000	126,000	151,000
Independent mill fabricators	125,000	140,000	114,000	127,000
Foundries	7,040	8,450	6,440	7,730
Other consumers	273	328	273	328
Total	301,000	351,000	247,000	286,000

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 IN JUNE 2022¹

(Metric tons)

	June			January–June ²		
	Stocks, opening ²	Net receipts ³	Melted or consumed	Stocks, closing	Net receipts ³	Melted or consumed
New scrap:						
Extrusion	18,700	38,800	38,800	18,700	253,000	253,000
Can stock clippings	10,500	30,300	30,300	10,500	177,000	177,000
Other wrought sheet/clippings	10,500	36,500	35,400	11,600	221,000	218,000
Casting	5,920	7,910	7,910	5,920	49,600	49,600
Borings and turnings	5,270	14,400	14,400	5,270	81,700	81,700
Dross and skimmings ⁴	18,500	45,600	45,600	18,500	268,000	268,000
Total new scrap	69,400	173,000	172,000	70,400	1,050,000	1,050,000
Old scrap:						
Used castings	8,160	29,000	29,000	8,160	166,000	166,000
Used extrusion	7,840	16,700	16,700	7,840	106,000	106,000
Used cans (shredded, loose, baled)	7,850	46,200	46,200	7,850	253,000	253,000
Other wrought products	19,100	24,400	24,400	19,100	155,000	155,000
Fragmentized shredder (auto shredder)	5,970	12,600	12,600	5,970	73,300	73,300
Total old scrap	48,900	129,000	129,000	48,900	753,000	753,000
Total all classes	118,000	302,000	301,000	119,000	1,800,000	1,800,000

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

²May include revisions to previously published data.

³Includes data on imported aluminum-base scrap.

⁴Gross 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 JUNE 2022^{1,2}

(Metric tons)

	June				January–June	
	Stocks, opening ³	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	17,200	17,200
380 and variations	7,970	18,900	18,900	7,970	114,000	114,000
Sand and permanent mold:						
95/5 Al-Si, 356, etc. (0.6% Cu, max.)	1,950	2,830	2,830	1,950	17,000	17,000
No. 319 and variations	2,230	2,000	2,000	2,230	12,000	12,000
F-132 alloy and variations	143	221	221	143	1,320	1,320
Al-Zn alloys	172	85	85	172	510	510
Al-Si alloys (0.6% to 2.0% Cu)	101	166	166	101	994	994
Al-Cu alloys (1.5% Si, max.)	405	564	564	405	3,380	3,380
Other ⁴	7,250	8,250	8,250	7,250	49,500	49,500
Wrought alloys, extrusion billets	10,700	54,800	54,800	10,700	337,000	337,000
Total all alloys	33,400	90,700	90,700	33,400	553,000	553,000
Less:						
Primary aluminum consumed	XX	16,600	XX	XX	104,000	XX
Primary silicon consumed	XX	1,680	XX	XX	10,100	XX
Other alloying ingredients consumed	XX	791	XX	XX	4,810	XX
Net metallic recovery from aluminum scrap consumed in production of secondary aluminum ingot ⁵						
	XX	71,600	XX	XX	434,000	XX

XX Not applicable.

¹Excludes integrated aluminum companies.

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

³May include revisions to previously published data.

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

⁵No 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:		
June	138.489	110.635
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
January–June	175.340	139.440

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:					
June	70.88	73.75	68.75	68.75	68.00
July	71.40	73.90	67.20	67.40	67.60
August	77.10	73.50	66.10	66.70	66.40
September	NA	NA	NA	NA	NA
October	NA	NA	NA	NA	NA
November	NA	NA	NA	NA	NA
December	NA	NA	NA	NA	NA
January–December ¹	71.81	70.80	66.74	67.67	66.56
2022:					
January	NA	NA	NA	NA	NA
February	NA	NA	NA	NA	NA
March	NA	NA	NA	NA	NA
April	NA	NA	NA	NA	NA
May	NA	NA	NA	NA	NA
June	NA	NA	NA	NA	NA

NA Not available.

¹September–December 2021 data are not available. January–August YTD average.

Source: Fastmarket-AMM.

TABLE 8
U.S. IMPORTS FOR CONSUMPTION OF ALUMINUM IN JUNE 2022¹

(Metric tons)

Country or locality	Metals and alloys, crude		Plates, sheets, bars, etc.		Scrap		Total	
	June	January– June	June	January– June	June	January– June	June	January– June
Argentina	14,000	80,000	31	82	--	--	14,100	80,100
Australia	34,800	131,000	76	171	--	--	34,900	131,000
Austria	--	25	3,860	17,400	14	25	3,880	17,400
Bahrain	45,000	161,000	4,200	29,900	--	--	49,200	191,000
Belgium	29	218	898	5,160	--	--	927	5,380
Brazil	9,510	17,300	47	749	1,340	4,010	10,900	22,100
Canada	276,000	1,310,000	17,100	102,000	34,400	188,000	328,000	1,600,000
Chile	--	--	--	(2)	162	1,150	162	1,150
China ³	135	809	18,500	104,000	32	89	18,700	105,000
Colombia	--	--	348	1,850	343	3,020	691	4,870
Costa Rica	--	--	41	81	255	1,380	296	1,460
France	251	1,200	1,130	2,780	12	114	1,400	4,090
Germany	247	1,560	3,760	15,300	157	760	4,160	17,700
Greece	--	--	2,410	13,100	26	108	2,440	13,200
Guatemala	--	--	--	--	659	4,520	659	4,520
Honduras	--	--	256	1,480	158	978	414	2,460
India	8,390	50,600	1,750	9,870	--	--	10,100	60,500
Indonesia	--	879	944	7,680	--	--	944	8,560
Italy	304	700	1,430	6,990	4	4	1,740	7,690
Japan	--	1	3,800	27,900	17	48	3,820	28,000
Korea, Republic of	4,170	11,600	11,800	64,300	--	66	15,900	76,000
Malaysia	--	204	1,080	7,150	--	--	1,080	7,350
Mexico	1,090	7,830	7,840	43,200	21,100	112,000	30,000	163,000
Netherlands	61	476	137	1,280	153	597	351	2,350
Norway	1,080	1,950	821	5,800	--	--	1,900	7,750
Oman	--	624	8,350	56,200	--	--	8,350	56,800
Qatar	7,960	39,300	--	(2)	--	--	7,960	39,300
Romania	--	--	45	787	--	--	45	787
Russia	22,100	120,000	1,300	5,540	--	--	23,400	126,000
Saudi Arabia	--	--	1,980	16,100	--	--	1,980	16,100
South Africa	81	2,800	1,690	21,300	197	197	1,960	24,300
Spain	87	663	1,570	5,640	--	1	1,660	6,300
Sweden	--	--	1,310	4,690	--	--	1,310	4,690
Switzerland	9	73	760	2,120	--	--	769	2,190
Taiwan	13	81	690	2,430	--	3	703	2,510
Thailand	208	1,210	8,440	56,700	26	60	8,670	58,000
Turkey	2,010	8,040	4,210	27,300	--	(2)	6,220	35,400
United Arab Emirates	31,500	192,000	820	4,790	--	97	32,300	196,000
United Kingdom	(2)	21	866	9,610	25	90	891	9,720
Vietnam	--	5	3,870	21,400	--	22	3,870	21,400
Other	28	64	5,580	37,800	2,200	12,400	7,810	50,200
Total	460,000	2,140,000	124,000	741,000	61,300	330,000	645,000	3,210,000

-- Zero.

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

²Less than ½ unit.

³Includes Hong Kong.

Source: U.S. Census Bureau.

TABLE 9
U.S. EXPORTS OF ALUMINUM IN JUNE 2022¹

(Metric tons)

Country or locality	Metals and alloys, crude		Plates, sheets, bars, etc.		Scrap		Total	
	June	January– June	June	January– June	June	January– June	June	January– June
Australia	67	678	18	136	--	--	85	814
Belgium	3	3	41	221	2,450	11,200	2,500	11,500
Brazil	3	27	187	658	40	599	230	1,280
Canada	5,140	34,600	20,100	129,000	10,600	60,600	35,900	224,000
China ²	122	1,360	287	1,960	7,450	99,200	7,860	103,000
Colombia	--	31	5	164	169	633	174	828
Dominican Republic	(3)	2	56	159	250	1,360	306	1,530
France	17	105	224	1,330	40	423	281	1,860
Germany	7	69	114	661	529	3,280	650	4,010
Guatemala	--	1	4	29	--	2	4	32
India	6	187	46	186	40,900	227,000	40,900	228,000
Indonesia	(3)	(3)	1	31	5,680	30,400	5,680	30,500
Ireland	--	20	23	80	--	--	23	100
Israel	2	2	36	460	--	(3)	38	462
Italy	(3)	3	32	259	1,650	6,620	1,680	6,880
Jamaica	--	20	(3)	6	--	--	(3)	26
Japan	57	438	170	1,030	2,040	15,500	2,270	17,000
Korea, Republic of	60	417	110	909	25,200	155,000	25,300	157,000
Malaysia	5,950	13,100	64	442	33,100	169,000	39,100	182,000
Mexico	11,100	69,700	12,700	73,400	18,000	109,000	41,900	252,000
Netherlands	1	24	21	154	764	3,320	786	3,500
New Zealand	--	--	84	204	--	--	84	204
Norway	--	7	1	18	--	--	1	25
Pakistan	--	--	--	22	1,080	8,640	1,080	8,660
Panama	--	2	7	21	--	--	7	23
Philippines	(3)	3	10	57	305	4,020	315	4,080
Poland	(3)	14	39	216	--	11	39	241
Romania	(3)	(3)	5	17	--	--	5	17
Russia	--	--	(3)	6	--	2,720	(3)	2,720
Saudi Arabia	--	(3)	6	18	--	--	6	18
Singapore	22	163	29	259	--	657	51	1,080
Spain	--	(3)	9	62	473	2,200	482	2,260
Taiwan	(3)	451	165	605	3,340	16,600	3,510	17,700
Thailand	3	12	5	121	6,710	50,900	6,720	51,000
Turkey	--	(3)	94	334	1,060	11,000	1,150	11,400
United Arab Emirates	(3)	43	522	3,700	211	2,500	733	6,250
United Kingdom	143	451	131	743	109	1,330	383	2,530
Vietnam	--	3	4	56	710	6,630	714	6,690
Other	22	474	193	1,110	1,110	8,710	1,330	10,300
Total	22,800	122,000	35,600	219,000	164,000	1,010,000	222,000	1,350,000

-- Zero.

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

²Includes Hong Kong.

³Less than ½ unit.

Source: U.S. Census Bureau.