

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-

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ALUMINUM IN APRIL 2023

Domestic primary aluminum production in April 2023 was 63,000 metric tons (t). The average daily production in April 2023 was 2,100 t, unchanged from that in March 2023, 23% less than that in April 2022, and 13% less than that in April 2021 (fig. 1, table 1).

Total aluminum recovered from scrap in April 2023 was 270,000 t, slightly less than that in March 2023, 4% less than that in April 2022, and slightly less than that in April 2021. Of this, 148,000 t of aluminum was recovered from new scrap, and 123,000 t was recovered from old scrap (fig. 1, table 1).

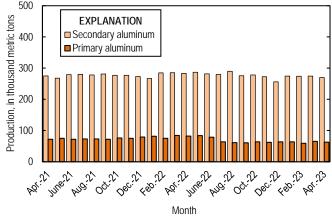


Figure 1. Monthly domestic primary and secondary aluminum production from April 2021 through April 2023.

Prices and Stocks

The April 2023 average U.S. spot market price of primary aluminum ingot was \$1.32 per pound, unchanged from that in March 2023, 30% less than that in April 2022, and slightly less than that in April 2021. The average cash price in March 2023 of primary aluminum ingot on the London Metal Exchange (LME) was \$1.06 per pound, slightly more than that in March 2023, 28% less than that in April 2022, and essentially unchanged from that in April 2021 (fig. 2, table 6).

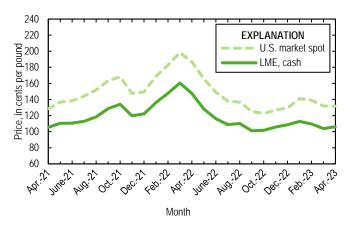


Figure 2. Average monthly prices for primary aluminum from April 2021 through April 2023. Source: S&P Global Platts Metals Week.

Inventories of primary aluminum in LME-approved warehouses, including off-warrant inventories, in the United States were 3,349 t at the end of April 2023, 3% less than that at the end of March 2023. Inventories of secondary aluminum (North American Secondary Aluminum Alloy Contract) in LME-approved warehouses, including off-warrant inventories, in the United States were 1,072 t at the end of April 2023, 21% less than that at the end of March 2023 (London Metal Exchange Ltd., 2023a–d).

Updates

In May, Uniprom Pekara d.o.o. ceased production of primary aluminum at its Kombinat Aluminijuma Podgorica (KAP) smelter located in Podgorica, Montenegro. All but 12 of the facility's electrolytic cells were previously shutdown in December 2021. Production of aluminum alloys and billets will continue at the site (Aluminum Insider, 2023; Jajcanin, 2023).

In May, employees represented by the United Steelworkers union (USW) ratified agreements with two domestic aluminum corporations. On May 17, Kaiser Aluminum Corp. announced the ratification of a four-year agreement with USW represented employees at its Warrick rolling mill in Evansville, IN. On May 18, Alcoa Corp. announced that a new three-year collective

bargaining agreement had been ratified with USW represented employees at its primary aluminum smelters in Warrick, IN and Massena, NY. Employees of Alcoa's calcining facility in Lake Charles, LA, were included in the agreement regarding wages and benefits, with remaining terms to be negotiated in July (Alcoa Corp., 2023; Kaiser Aluminum Corp., 2023).

On June 1, Novelis Inc., a subsidiary of Hindalco Industries Ltd. (India), announced an agreement with Coca-Cola Bottlers' Sales & Services Company LLC to supply authorized North American bottlers with aluminum can sheet. Novelis is constructing a new aluminum manufacturing and recycling facility in Minette, AL, which it expects to commission in 2025. The facility has a planned initial capacity of 600,000 t of finished goods, which will provide part of the can sheet included in the Coca-Cola agreement. The company did not specify the volume of the multi-year agreement (Novelis Inc., 2023).

On June 15, Norsk Hydro ASA (Norway) announced that it had successfully produced a batch of recycled aluminum using carbon-free hydrogen at its extrusion plant in Navarra, Spain. Natural gas was replaced as an energy source to demonstrate the emissions abatement potential of carbon-free hydrogen. The recycled aluminum will be analyzed for quality and used to produce extruded profiles at the Navarra plant (Norsk Hydro ASA, 2023).

On June 16, the U.S. Department of Defense announced a \$45.5 million agreement with Arconic Corp. to increase production capacity of high purity alumina (HPA) at Arconic's facility in Davenport, IA. Arconic will install a new furnace and implement new control and automation systems. The agreement is authorized by Title III of the Defense Production Act with funds appropriated by the Additional Ukraine Supplemental Appropriations Act (U.S. Department of Defense, 2023).

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$\label{eq:table 1} \text{COMPONENTS OF ALUMINUM SUPPLY}^1$

(Thousand metric tons)

					Impor	ts for consum	s for consumption		
	Primary	Seco	ndary recovery	, ⁴	Metals and alloys,	Plates, sheets, bars,		Total new	Stocks, end of
Period	production	New	Old	Total	crude	etc.	Total	supply ²	period ³
2022 ^p	861	1,890	1,450	3,330	4,150	1,460	5,610	9,810	2,050
2022:									
April	82	158	125	283	331	125	456	821	1,910
May	84	165	123	287	404	144	548	919	1,880
June	78	157	125	282	460	124	583	943	1,910
July	64	153	126	280	345	129	474	818	1,940
August	61	165	125	290	360	130	490	841	1,980
September	61	155	120	276	317	128	445	781 ^r	2,000
October	64	156	122	278	322	125	447	789	2,060
November	62	154	119	273	279	115	394	729	2,050
December	64	143	113	256	388	96	484	804	2,050
January-April	323	636 ^r	475 ^r	1,110 ^r	1,280	473	1,750	3,180 ^r	1,910 ^r
2023:									
January	64	160	115	275	307	99	406	745	1,950
February	59	148	126	274	238	73	311	644	2,000
March	65	150	125	275	316	89	405	745	1,960
April	63	148	123	270	375	90	465	798	NA
January-April	251	606	489	1,090	1,240	352	1,590	2,930	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.

²Primary production, secondary recovery, and imports for consumption.

³Inventory levels reflect total for U.S. and Canadian producers; data from the Aluminum Association Inc.

⁴Metallic recovery from purchased, tolled, or imported scrap, expanded for full coverage of industry.

${\it TABLE~2}$ ESTIMATED FULL COVERAGE CONSUMPTION OF AND METALLIC RECOVERY FROM PURCHASED NEW AND OLD ALUMINUM SCRAP $^{\rm I}$

(Thousand metric tons)

			Indepe	ndent						
	Second	lary	mi	ll			C	ther		
	smelte	ers	fabricators		Fou	ndries	cons	sumers	Total	
	Con-		Con-		Con-		Con-		Con-	
	sump-	Metal	sump-	Metal	sump-	Metal	sump-	Metal	sump-	Metal
Period	tion	recovery	tion	recovery	tion	recovery	tion	recovery	tion	recovery
2022 ^p	2,330	1,730	1,650	1,500	101	93	4	4	4,080 r	3,330 ^r
2022:										
April	194	145	143	130	8	8	(2)	(2)	345	283
May	195	145	146	134	8	8	(2)	(2)	350	287
June	197	147	140	127	8	8	(2)	(2)	345	282
July	193	144	141	128	8	8	(2)	(2)	342	280
August	197	147	148	135	8	8	(2)	(2)	353	290
September	196	144	137	125	8	8	(2)	(2)	341	277
October	199	147	136	124	8	8	(2)	(2)	344	279
November	197	147	130	118	8	8	(2)	(2)	336	273
December	192	141	118	107	8	8	(2)	(2)	318	256
January-April	766 ^r	571 ^r	554 г	508	34	31	1	1	1,360 ^r	1,110 ^r
2023:										
January	197	147	131	119	8	8	(2)	(2)	336	275
February	191	143	136	124	8	8	(2)	(2)	336	274
March	195	144	135	123	8	8	(2)	(2)	339	275
April	190	140	134	122	8	8	(2)	(2)	332	270
January–April	773	574	536	488	34	31	1	1	1,340	1,090

^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 APRIL 2023^1

(Metric tons)

	Cons	umption	Calculated metallic recovery		
	Tabulated reports			Estimated full coverage	
Secondary smelters	158,000	190,000	117,000	140,000	
Independent mill fabricators	121,000	134,000	110,000	122,000	
Foundries	7,040	8,450	6,440	7,730	
Other consumers	273	328	273	328	
Total	286,000	332,000	234,000	270,000	

 $^{{}^{\}mathrm{I}}\mathrm{Data}$ are rounded to no more than three significant digits; may not add to totals shown.

 ${\it TABLE~4}$ PURCHASED AND TOLL-TREATED ALUMINUM-BASE SCRAP IN APRIL 2023^1

(Metric tons)

		A		January–April		
	Stocks,	Net	Melted or	Stocks,	Net	Melted or
	opening ²	receipts ³	consumed	closing	receipts3	consumed
New scrap:						
Extrusion	61,800	41,700	41,700	61,900	164,000	164,000
Can stock clippings	10,600	29,400	29,400	10,600	121,000	121,000
Other wrought sheet/clippings	10,800	32,800	32,300	11,400	139,000	136,000
Casting	3,980	5,080	5,080	3,980	21,100	21,100
Borings and turnings	5,620	12,200	12,200	5,620	51,900	51,900
Dross and skimmings ⁴	18,500	45,000	45,000	18,500	181,000	181,000
Total new scrap	111,000	166,000	166,000	112,000	678,000	675,000
Old scrap:						
Used castings	9,070	26,100	26,100	9,070	105,000	105,000
Used extrusion	8,210	11,300	11,300	8,210	45,200	45,200
Used cans (shredded, loose, baled)	9,520	46,000	46,000	9,520	189,000	189,000
Other wrought products	20,100	27,800	27,800	20,100	102,000	102,000
Fragmentized shredder (auto shredder)	5,150	9,200	9,200	5,150	39,400	39,400
Total old scrap	52,000	120,000	120,000	52,000	481,000	481,000
Total all classes	163,000	287,000	286,000	164,000	1,160,000	1,160,000

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 ESTIMATED ALUMINUM ALLOYS PRODUCED AT SECONDARY SMELTERS IN THE UNITED STATES IN APRIL 2023 $^{\!1,2}$

(Metric tons)

		Apr	January–April			
	Stocks,		Net	Stocks,		Net
	opening ³	Production	shipments	closing	Production	shipments
Die-cast alloys:						
13% Si, 360, etc. (0.6% Cu, max.)	2,830	2,740	2,740	2,830	11,000	11,000
380 and variations	7,310	18,700	18,700	7,310	68,500	65,600
Sand and permanent mold:						
95/5 Al-Si, 356, etc. (0.6% Cu, max.)	1,940	2,800	2,800	1,940	11,200	11,200
No. 319 and variations	1,420	1,270	1,270	1,420	5,080	5,080
F-132 alloy and variations	89	215	215	89	861	861
Al-Zn alloys	339	71	71	339	284	284
Al-Si alloys (0.6% to 2.0% Cu)	230	178	178	230	714	714
Al-Cu alloys (1.5% Si, max.)	139	724	724	139	2,900	2,900
Other ⁴	3,380	4,710	4,710	3,380	25,200	28,100
Wrought alloys, extrusion billets	16,000	62,300	62,300	16,000	249,000	249,000
Total all alloys	33,600	93,700	93,700	33,600	375,000	375,000
Less:						
Primary aluminum consumed	XX	17,100	XX	XX	68,500	XX
Primary silicon consumed	XX	1,430	XX	XX	5,700	XX
Other alloying ingredients consumed	XX	838	XX	XX	3,350	XX
Net metallic recovery from aluminum						
scrap consumed in production of						
secondary aluminum ingot ⁵	XX	74,300	XX	XX	297,000	XX
VV Not applicable						

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)

	Midwest U.S. market	LME cash price	
Period	price	Grade A	
2022:	•		
April	187.079	147.693	
May	165.795	128.182	
June	149.085	116.235	
July	137.994	108.911	
August	136.691	110.264	
September	125.275	101.129	
October	122.548	101.737	
November	126.830	105.909	
December	129.488	108.612	
January-December	152.572	122.767	
2023:			
January	141.000	112.881	
February	139.175	109.624	
March	131.935	103.858	
April	131.764	106.168	
January–April	135.969	108.133	

Source: S&P Global Platts Metals Week.

TABLE 7
AVERAGE BUYING PRICES FOR ALUMINUM SCRAP

(Cents per pound)

	Used beverage	Mixed low			Turnings
Month	cans	copper clips	Old sheet	Old cast	(clean and dry)
2022:					
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
August	77.50	67.13	61.88	62.63	56.88
September	72.80	65.60	63.30	63.20	52.40
October	73.00	65.75	61.25	61.00	48.50
November	72.38	66.00	62.00	61.75	48.00
December	79.30	66.80	64.50	64.40	48.80
January-December	92.88	74.05	70.83	70.33	63.28
2023:	-				
January	83.25	68.75	68.25	67.63	51.88
February	88.50	69.38	70.00	70.25	57.38
March	83.30	69.50	70.90	72.30	59.40
April	77.25	70.75	70.75	74.25	62.25
January–April	83.08	69.60	69.98	71.11	57.73

Source: Fastmarkets-AMM.

 ${\bf TABLE~8}$ U.S. IMPORTS FOR CONSUMPTION OF ALUMINUM IN APRIL 2023^1

(Metric tons)

	Metals and alloys, crude		Plates, sheets.	, bars, etc.	Sc	rap	Total	
		January-		January-		January-		January-
Country or locality	April	April	April	April	April	April	April	April
Argentina	3,560	45,900		17			3,560	45,900
Australia	32,300	65,600	35	47			32,400	65,700
Austria	(2)	(2)	2,860	10,400	12	47	2,880	10,400
Bahrain	5,720	21,100	1,690	3,510			7,400	24,600
Belgium	60	468	1,660	5,400			1,720	5,870
Brazil			431	492	993	1,660	1,420	2,150
Canada	237,000	844,000	15,800	69,500	32,900	131,000	286,000	1,040,000
Chile					165	808	165	808
China ³	69	252	14,700	59,500	13	60	14,800	59,800
Colombia			285	844	1,600	3,260	1,890	4,100
Costa Rica			29	87	128	813	157	900
France	312	1,340	942	2,570	16	46	1,270	3,950
Germany	133	595	1,420	7,560	548	1,930	2,100	10,100
Greece			1,140	8,760	15	54	1,150	8,810
Greece Guatemala					1,710	3,540	1,710	3,540
Honduras			55	496	334	969	390	1,460
India	7,510	18,900	1,230	5,410		909	8,730	24,300
Indonesia	7,510	18,900	973	3,410			973	3,480
						(2)		5,070
Italy	401	1,050	1,110	4,020	(2)		1,510	
Japan V. D. Hill C.		(2)	4,330	13,700		28	4,330	13,700
Korea, Republic of	4,100	6,360	10,800	23,600	432	432	15,400	30,400
Malaysia		1,070	351	1,620			351	2,690
Mexico	1,650	4,790	5,400	20,000	15,900	67,100	23,000	91,900
Netherlands	112	385	151	582	23	433	286	1,400
New Zealand	1,600	5,480	(2)	1			1,600	5,480
Norway	512	1,980	294	1,170			806	3,160
Oman			6,560	26,900			6,560	26,900
Qatar	9,280	37,400		(2)			9,280	37,400
Romania			3	13		111	3	123
Russia		7,960	6	25			6	7,980
Saudi Arabia		2,090	1,220	2,980			1,220	5,070
South Africa	30	826	1,940	17,400	258	258	2,230	18,500
Spain	102	2,130	697	2,840	144	144	943	5,120
Sweden		2,500	776	3,790			776	6,290
Switzerland			1,080	3,400			1,080	3,400
Taiwan	175	526	327	1,580		(2)	503	2,110
Thailand	156	226	1,950	14,000	19	128	2,130	14,400
Turkey	96	868	4,770	15,900	41	831	4,910	17,600
United Arab Emirates	69,800	162,000	103	574			69,900	163,000
United Kingdom	20	94	524	1,500	236	280	780	1,870
Vietnam			1,560	6,400			1,560	6,400
Other		189	3,150	11,900	1,600	5,140	4,750	17,200
Total	375,000	1,240,000	90,400	352,000	57,100	219,000	522,000	1,810,000
Zero	373,000	1,210,000	70,700	332,000	57,100	217,000	322,000	1,510,000

⁻⁻ Zero.

Source: U.S. Census Bureau.

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

²Less than ½ unit.

³Includes Hong Kong.

 $\label{eq:table 9} \text{U.S. EXPORTS OF ALUMINUM IN APRIL 2023}^{1}$

(Metric tons)

	Metals and all		Plates, sheets,	bars, etc.	Scr	ap	Total		
		January-		January-		January-		January–	
Country or locality	April	April	April	April	April	April	April	April	
Australia	3	9	217	596			220	604	
Belgium			178	1,110	743	2,400	922	3,500	
Brazil	43	45	390	1,880	248	2,430	681	4,350	
Canada	4,990	22,600	32,300	113,000	9,670	41,000	47,000	177,000	
China ²	140	278	1,150	4,320	16,200	62,400	17,500	67,000	
Colombia	3	3	58	118	118	247	178	367	
Dominican Republic		7	90	158	115	339	205	505	
France	256	1,290	778	3,200	48	295	1,080	4,780	
Germany	518	986	478	2,290	140	1,490	1,140	4,770	
Guatemala			6	31			6	31	
India	71	361	337	1,570	39,800	136,000	40,200	138,000	
Indonesia			1	118	2,790	8,610	2,790	8,730	
Ireland	1	7	17	320	(3)	69	18	396	
Israel	9	9	643	2,060			651	2,070	
Italy	(3)	44	201	715	892	3,700	1,090	4,460	
Jamaica	3	8		15			3	22	
Japan	41	281	880	3,410	2,960	12,600	3,880	16,300	
Korea, Republic of	15	159	2,120	8,430	19,200	93,100	21,400	102,000	
Malaysia	14,400	45,400	276	1,740	34,100	134,000	48,700	182,000	
Mexico	12,100	53,500	22,700	95,100	14,000	56,200	48,900	205,000	
Netherlands	(3)	511	50	183	438	3,460	488	4,160	
New Zealand		19	97	348			97	366	
Norway		(3)	1	5	176	731	177	736	
Pakistan	20	120	93	218	1,340	4,520	1,450	4,860	
Panama		5	1	30		(3)	1	35	
Philippines		5	46	128	182	1,150	228	1,280	
Poland	(3)	6	116	460		21	116	488	
Romania	(3)	(3)	84	446			84	446	
Saudi Arabia			13	69	62	62	75	131	
Singapore	10	30	147	921	38	817	195	1,770	
Spain		(3)	117	617	336	1,650	453	2,260	
Taiwan	19	273	460	1,700	3,720	16,000	4,200	17,900	
Thailand	52	117	542	1,570	16,100	65,500	16,700	67,200	
Turkey		1	636	2,030	135	590	771	2,620	
United Arab Emirates		36	32	356	415	1,780	447	2,170	
United Kingdom	1	29	753	3,460	178	441	932	3,930	
Vietnam			41	205	1,900	7,100	1,940	7,300	
Other	15	137	409	1,840	655	2,790	1,080	4,760	
Total	32,700	126,000	66,500	255,000	167,000	662,000	266,000	1,040,000	
7			* * *		, ,				

⁻⁻ Zero

Source: U.S. Census Bureau.

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

²Includes Hong Kong.

³Less than ½ unit.