

# 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 JULY 2023

Domestic primary aluminum production in July 2023 was 64,000 metric tons (t). The average daily production in July 2023 was 2,060 t, essentially unchanged from that in June 2023, unchanged from that in July 2022, and 15% less than that in July 2021 (fig. 1, table 1).

Total aluminum recovered from scrap in July 2023 was 274,000 t, 3% less than that in June 2023, and slightly less than that in both July 2022 and 2021. Of this, 143,000 t of aluminum was recovered from new scrap, and 131,000 t was recovered from old scrap (fig. 1, table 1).

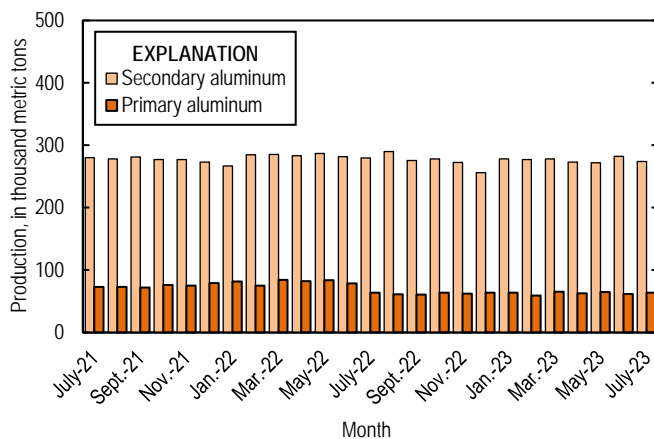


Figure 1. Monthly domestic primary and secondary aluminum production from July 2021 through July 2023.

## Prices and Stocks

The July 2023 average U.S. spot market price of primary aluminum ingot was \$1.21 per pound, slightly less than that in June 2023, 12% less than that in July 2022, and 16% less than that in July 2021. The average cash price in July 2023 of primary aluminum ingot on the London Metal Exchange (LME) was \$0.98 per pound, essentially unchanged from that in June 2023, 10% less than that in July 2022, and 14% less than that in July 2021 (fig. 2, table 6).

Inventories of primary aluminum in LME-approved warehouses, including off-warrant inventories, in the United States were 3,224 t at the end of July 2023, unchanged from that at the end of June 2023. Inventories of secondary

aluminum (North American Secondary Aluminum Alloy Contract) in LME-approved warehouses, including off-warrant inventories, in the United States were 660 t at the end of July 2023, 27% less than that at the end of June 2023 (London Metal Exchange Ltd., 2023a–d).

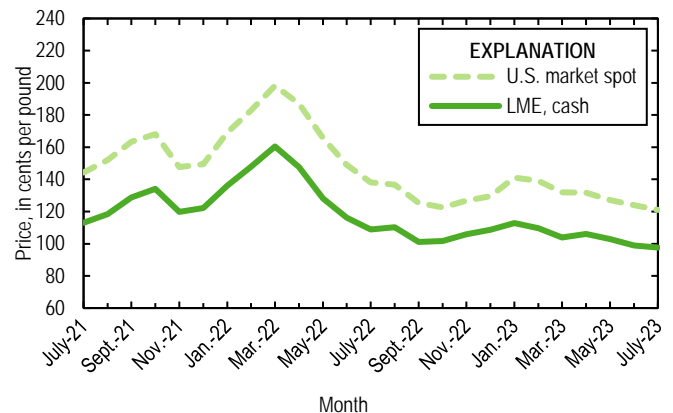


Figure 2. Average monthly prices for primary aluminum from July 2021 through July 2023. Source: S&P Global Platts Metals Week.

## Updates

On August 31, Exlabesa SA (Spain) announced that it completed the acquisition of Flandria Aluminium (France), a manufacturer and recycler of aluminum profiles, for an undisclosed amount. Flandria's facilities include two extrusion presses and an aluminum recycling plant. Exlabesa, a multi-national aluminum profile manufacturer, produces 160,000 t of extruded profiles annually (Exlabesa SA, 2023).

On September 11, Novelis Inc., announced a new contract to provide aluminum sheet to Ball Corp., a manufacturer of aluminum cans. Novelis will produce the sheet product at its plant in Bay Minette, AL, which is in development and expected to begin production in 2025. The facility has a planned initial capacity of 600,000 metric tons per year of finished products. With this agreement, Novelis has contracted the Bay Minette plant's entire beverage can capacity. The company did not specify the volume or term of the agreement (Novelis, Inc., 2023).

## References Cited

- Exlabesa SA, 2023, Exlabesa announces the acquisition of the French extrusion company Flandria Aluminium: Corunna, Spain, Exlabesa SA press release, August 31. (Accessed September 28, 2023, at <https://exlabesa.com/en/blog/exlabesa-announces-the-acquisition-of-the-french-extrusion-company-flandria-aluminium/>.)
- London Metal Exchange Ltd., 2023a, Off-warrant stock reporting—June 2023: London, United Kingdom, London Metal Exchange Ltd., July 10, 1 p. (Accessed August 28, 2023, via <https://www.lme.com/en/Market-data/Reports-and-data/Warehouse-and-stocks-reports/Off-warrant-stock-reporting>.)
- London Metal Exchange Ltd., 2023b, Off-warrant stock reporting—July 2023: London, United Kingdom, London Metal Exchange Ltd., August 10, 1 p. (Accessed September 22, 2023, via <https://www.lme.com/en/Market-data/Reports-and-data/Warehouse-and-stocks-reports/Off-warrant-stock-reporting>.)
- London Metal Exchange Ltd., 2023c, Stocks breakdown report: London, United Kingdom, London Metal Exchange Ltd., June 30, 4 p. (Accessed

- August 28, 2023, via <https://www.lme.com/Market-data/Reports-and-data/Warehouse-and-stocks-reports/Stock-breakdown-report>.)
- London Metal Exchange Ltd., 2023d, Stocks breakdown report: London, United Kingdom, London Metal Exchange Ltd., July 31, 4 p. (Accessed September 22, 2023, via <https://www.lme.com/Market-data/Reports-and-data/Warehouse-and-stocks-reports/Stock-breakdown-report>.)
- Novelis Inc., 2023, Novelis enters long-term agreement to supply aluminum beverage can sheet to Ball Corporation: Atlanta, GA, Novelis Inc. press release, September 11. (Accessed September 28, 2023, at <https://investors.novelis.com/2023-09-11-Novelis-Enters-Long-Term-Agreement-to-Supply-Aluminum-Beverage-Can-Sheet-to-Ball-Corporation>.)

*List services and web feed subscribers are the first to receive notification of USGS minerals information publications and data releases. For information on how to subscribe, go to <https://www.usgs.gov/centers/national-minerals-information-center/minerals-information-publication-list-services>.*

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		
2022 <sup>p</sup>	861	1,890 <sup>r</sup>	1,450	3,330	4,150	1,460	5,610	9,810	2,050
2022:									
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	782 <sup>r</sup>	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–July	550 <sup>r</sup>	1,110 <sup>r</sup>	848 <sup>r</sup>	1,960 <sup>r</sup>	2,490	870	3,360	5,860 <sup>r</sup>	1,910
2023:									
January	64	159	118	278	307	99	406	748 <sup>r</sup>	1,950
February	59	147	130	277	238	73	311	647	2,000
March	65	149	129	278	316	89	405	748	1,960
April	63	147	126	273	375	90	465	801	1,990
May	65	148	125	272	407	86	493	830	1,930
June	62	150	131	282	345	87	432	776	1,910
July	64	143	131	274	331	79	410	748	NA
January–July	443	1,040	890	1,930	2,320	604	2,920	5,300	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
2022 <sup>p</sup>	2,330	1,730	1,650	1,500	101	93	4	4	4,080	3,330
2022:										
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–July	1,350 <sup>r</sup>	1,010 <sup>r</sup>	981	896	59	54	2	2	2,390 <sup>r</sup>	1,960 <sup>r</sup>
2023:										
January	201	151	130	119	8	8	(2)	(2)	340	278
February	196	146	135	123	8	8	(2)	(2)	339	277
March	199	147	134	122	8	8	(2)	(2)	342	278
April	194	144	133	121	8	8	(2)	(2)	335	273
May	199	148	129	118	8	8	(2)	(2)	337	273
June	197	148	141	128	8	8	(2)	(2)	347	284
July	197	148	133	120	8	8	(2)	(2)	338	275
January–July	1,380	1,030	935	850	59	54	2	2	2,380	1,940

<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 2023<sup>1</sup>

(Metric tons)

	Consumption		Calculated metallic recovery	
	Tabulated reports	Estimated full coverage	Tabulated reports	Estimated full coverage
Secondary smelters	164,000	197,000	123,000	148,000
Independent mill fabricators	120,000	133,000	108,000	120,000
Foundries	7,040	8,450	6,440	7,730
Other consumers	242	290	242	290
Total	291,000	338,000	238,000	275,000

<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 2023<sup>1</sup>

(Metric tons)

	July			January–July		
	Stocks, opening <sup>2</sup>	Net receipts <sup>3</sup>	Melted or consumed	Stocks, closing	Net receipts <sup>3</sup>	Melted or consumed
New scrap:						
Extrusion	61,900	35,900	36,000	61,900	274,000	274,000
Can stock clippings	10,600	26,100	26,100	10,600	201,000	201,000
Other wrought sheet/clippings	12,100	36,800	37,300	11,700	248,000	246,000
Casting	3,740	4,710	4,710	3,740	40,000	40,000
Borings and turnings	5,620	11,800	11,800	5,620	89,800	89,800
Dross and skimmings <sup>4</sup>	18,400	44,100	44,100	18,400	314,000	314,000
Total new scrap	112,000	159,000	160,000	112,000	1,170,000	1,160,000
Old scrap:						
Used castings	8,690	26,200	26,200	8,690	186,000	186,000
Used extrusion	8,210	12,700	12,700	8,210	88,900	88,900
Used cans (shredded, loose, baled)	5,890	54,500	54,500	5,890	345,000	345,000
Other wrought products	20,500	24,800	24,800	20,500	175,000	175,000
Fragmentized shredder (auto shredder)	5,150	11,000	11,000	5,150	80,700	80,700
Total old scrap	48,400	129,000	129,000	48,400	876,000	876,000
Total all classes	161,000	289,000	289,000	160,000	2,040,000	2,040,000

<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  
ESTIMATED ALUMINUM ALLOYS PRODUCED AT SECONDARY SMELTERS IN THE UNITED  
STATES IN JULY 2023<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.)	2,830	2,700	2,700	2,830	18,900	18,900
380 and variations	7,310	20,300	20,300	7,310	136,000	133,000
Sand and permanent mold:						
95/5 Al-Si, 356, etc. (0.6% Cu, max.)	1,940	3,100	3,100	1,940	21,700	21,700
No. 319 and variations	1,420	1,390	1,390	1,420	9,720	9,720
F-132 alloy and variations	89	233	233	89	1,630	1,630
Al-Zn alloys	339	71	71	339	496	496
Al-Si alloys (0.6% to 2.0% Cu)	230	195	195	230	1,360	1,360
Al-Cu alloys (1.5% Si, max.)	139	724	724	139	5,070	5,070
Other <sup>4</sup>	3,380	4,900	4,900	3,380	40,700	43,500
Wrought alloys, extrusion billets	16,000	61,200	61,200	16,000	429,000	429,000
Total all alloys	33,600	94,800	94,800	33,600	664,000	664,000
Less:						
Primary aluminum consumed	XX	14,400	XX	XX	101,000	XX
Primary silicon consumed	XX	1,750	XX	XX	12,200	XX
Other alloying ingredients consumed	XX	851	XX	XX	5,960	XX
Net metallic recovery from aluminum scrap consumed in production of secondary aluminum ingot <sup>5</sup>	XX	77,800	XX	XX	545,000	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
2022:		
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
May	127.088	102.837
June	124.000	98.917
July	121.012	97.614
January–July	130.853	104.557

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)
2022:					
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
May	73.13	69.50	69.88	73.63	64.00
June	69.20	67.30	68.70	70.60	60.30
July	68.00	68.38	68.50	70.00	57.88
January–July	77.52	69.08	69.57	71.24	59.01

Source: Fastmarkets–AMM.

TABLE 8  
U.S. IMPORTS FOR CONSUMPTION OF ALUMINUM IN JULY 2023<sup>1</sup>

(Metric tons)

Country or locality	Metals and alloys, crude		Plates, sheets, bars, etc.		Scrap		Total	
	January–		January–		January–		January–	
	July	July	July	July	July	July	July	July
Argentina	--	83,700	18	90	--	--	18	83,700
Australia	19,400	169,000	1	86	--	--	19,400	169,000
Austria	--	(2)	2,450	18,400	13	80	2,470	18,500
Bahrain	9,370	50,500	1,840	8,260	--	--	11,200	58,800
Belgium	295	1,020	747	9,270	--	--	1,040	10,300
Brazil	--	--	4,250	8,180	116	3,700	4,370	11,900
Canada	257,000	1,530,000	17,400	124,000	38,200	239,000	313,000	1,900,000
Chile	--	--	--	--	22	1,040	22	1,040
China <sup>3</sup>	82	511	7,300	84,200	15	149	7,400	84,900
Colombia	--	--	239	1,470	444	4,810	682	6,280
Costa Rica	--	--	--	164	66	1,270	66	1,440
France	762	4,090	407	4,280	13	83	1,180	8,450
Germany	76	983	3,350	15,500	674	4,150	4,100	20,700
Greece	--	--	2,570	13,800	--	69	2,580	13,900
Guatemala	--	--	--	--	587	5,850	587	5,850
Honduras	--	--	252	1,310	21	1,270	273	2,580
India	2,440	28,500	1,070	8,820	--	10	3,510	37,300
Indonesia	19	118	589	5,800	--	--	608	5,920
Italy	726	1,940	1,160	7,490	--	(2)	1,880	9,430
Japan	21	22	957	20,200	--	75	978	20,300
Korea, Republic of	2,370	11,400	4,280	48,000	--	741	6,650	60,100
Malaysia	13	1,090	404	2,830	19	95	435	4,010
Mexico	1,370	9,190	5,160	35,500	19,700	135,000	26,200	180,000
Netherlands	149	838	112	1,040	38	471	299	2,350
New Zealand	360	8,380	--	1	--	--	360	8,380
Norway	312	3,040	481	2,250	--	--	793	5,290
Oman	--	325	4,510	43,000	--	--	4,510	43,400
Qatar	8,330	55,400	51	105	--	--	8,380	55,500
Romania	--	--	22	110	--	111	22	221
Russia	--	7,960	1	26	--	--	1	7,990
Saudi Arabia	--	2,090	643	5,830	--	--	643	7,910
South Africa	--	846	2,820	28,800	1,010	5,530	3,830	35,200
Spain	676	3,120	1,150	5,960	72	620	1,890	9,700
Sweden	--	2,500	1,170	6,890	--	--	1,170	9,380
Switzerland	--	19	549	5,360	--	--	549	5,380
Taiwan	305	871	266	2,470	--	(2)	571	3,350
Thailand	52	451	2,840	21,300	17	177	2,910	21,900
Turkey	86	1,250	3,190	23,000	--	852	3,270	25,100
United Arab Emirates	26,400	334,000	172	1,150	--	627	26,600	336,000
United Kingdom	3	121	878	3,680	--	302	882	4,100
Vietnam	--	--	1,810	12,100	--	--	1,810	12,100
Other	19	252	3,820	22,400	1,340	10,200	5,170	32,900
Total	331,000	2,320,000	78,900	604,000	62,300	416,000	472,000	3,340,000

-- 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 2023<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	64	148	116	943	--	--	180	1,090
Belgium	1	1	127	1,560	352	4,580	480	6,140
Brazil	(2)	45	348	2,780	315	3,400	663	6,220
Canada	4,510	39,700	28,200	206,000	8,300	70,900	41,000	316,000
China <sup>3</sup>	100	953	807	6,750	18,900	129,000	19,800	137,000
Colombia	9	12	51	261	186	698	246	971
Dominican Republic	9	17	24	232	421	1,210	454	1,460
France	306	2,350	652	5,240	284	964	1,240	8,550
Germany	710	2,590	481	3,740	312	2,340	1,500	8,680
Guatemala	--	--	43	79	--	--	43	79
India	42	498	677	2,690	42,900	274,000	43,600	277,000
Indonesia	--	--	21	203	3,370	22,500	3,390	22,700
Ireland	--	15	85	522	--	138	85	674
Israel	1	30	758	3,990	--	--	759	4,020
Italy	(2)	66	277	1,340	328	6,500	606	7,910
Jamaica	--	10	--	54	--	--	--	64
Japan	143	642	840	5,730	2,080	20,400	3,070	26,800
Korea, Republic of	71	314	1,730	14,700	23,800	162,000	25,600	177,000
Malaysia	19,200	96,200	309	3,180	28,400	217,000	47,900	317,000
Mexico	13,400	95,200	24,700	175,000	14,400	104,000	52,500	375,000
Netherlands	24	600	23	306	467	4,700	515	5,600
New Zealand	(2)	19	52	418	--	--	53	437
Norway	--	1	(2)	5	178	1,070	179	1,080
Pakistan	--	120	(2)	221	1,590	9,450	1,590	9,790
Panama	1	7	5	44	--	(2)	6	51
Philippines	1	96	9	187	440	2,180	450	2,460
Poland	--	8	90	742	--	21	90	771
Romania	--	(2)	168	859	--	--	168	859
Saudi Arabia	--	4	2	84	--	123	2	211
Singapore	--	30	96	1,240	54	1,050	151	2,330
Spain	--	6	123	1,040	255	2,710	379	3,760
Taiwan	37	369	149	2,800	4,320	28,400	4,510	31,600
Thailand	408	903	173	1,960	18,000	119,000	18,600	122,000
Turkey	--	1	849	4,550	208	1,380	1,060	5,930
United Arab Emirates	(2)	37	100	1,130	795	3,300	895	4,470
United Kingdom	35	135	722	6,240	376	1,650	1,130	8,030
Vietnam	--	(2)	340	613	1,730	12,500	2,070	13,100
Other	800	1,140	249	3,070	730	4,600	1,780	8,810
Total	39,900	242,000	63,400	461,000	173,000	1,210,000	277,000	1,920,000

-- 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.