

# Mineral Industry Surveys

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## ALUMINUM IN JULY 2024

Domestic primary aluminum production in July 2024 was 57,000 metric tons (t). The average daily production in July 2024 was 1,830 t, unchanged compared with that in June 2024, 11% less than that in both July 2023 and July 2022 (fig. 1, table 1).

Total aluminum recovered from scrap in July 2024 was 292,000 t compared with 295,000 t in June 2024 and 286,000 t in July 2023, while 4% more than that in July 2022. Of this, 159,000 t of aluminum was recovered from new scrap, and 133,000 t was recovered from old scrap (fig. 1, table 1).

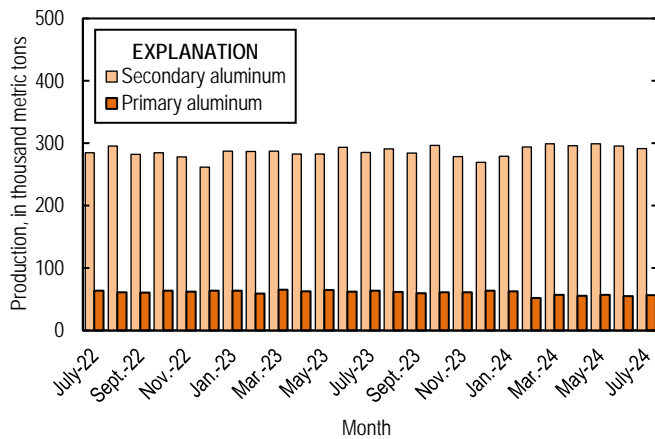


Figure 1. Monthly domestic primary and secondary aluminum production from July 2022 through July 2024.

### Prices and Stocks

The July 2024 average U.S. spot market price of primary aluminum ingot was \$1.26 per pound, 6% less than that in June 2024, 4% more than that in July 2023, and 9% less than that in July 2022. The average cash price in July 2024 of primary aluminum ingot on the London Metal Exchange (LME) was \$1.07 per pound, 5% less than that in June 2024, 10% more than that in July 2023, and slightly less than \$1.09 per pound in July 2022 (fig. 2, table 6).

Inventories of primary aluminum in LME-approved warehouses, including off-warrant inventories, in the United States were 10,412 t at the end of July 2024, 6% less than that at the end of June 2024. Inventories of aluminum alloy (North

American Special Aluminum Alloy Contract) in LME-approved warehouses, including off-warrant inventories, in the United States were 231 t at the end of July 2024, 76% more than that at the end of June 2024 (London Metal Exchange Ltd., 2024a, b).

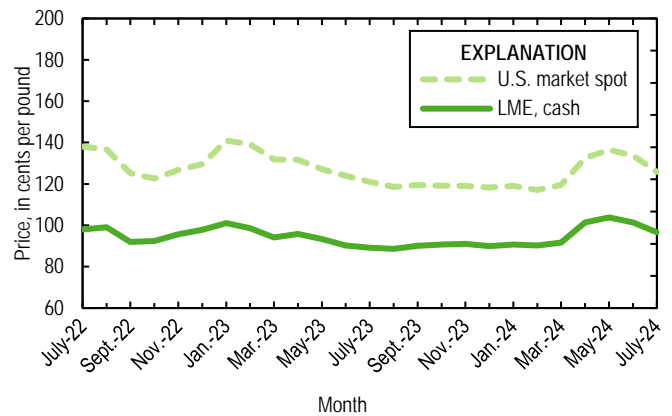


Figure 2. Average monthly prices for primary aluminum from July 2022 through July 2024. Source: S&P Global Platts Metals Week.

### Updates

**United States.**—In September 2024, Kentucky Aluminum Processors (KAP) began construction on a \$40 million aluminum recycling facility in Russellville, KY. The facility will process dross and scrap from a nearby aluminum casting plant, operated by Tri-Arrows Aluminum, Inc. Molten aluminum and sows produced at the facility will be reused by Tri-Arrows’ casting plant as well as other clients. KAP is a joint-venture between Tri-Arrows Aluminum and Tennessee Aluminum Processors, Inc. (Kentucky Cabinet for Economic Development, 2024; Taylor, 2024).

Tariffs on aluminum products imported from China, announced by President Biden in May will take effect on September 27, 2024, according to the Office of the United States Trade Representative. Pursuant to Section 301 of the Trade Act of 1974, tariffs on these products will increase from 0–7.5% to 25%, because of unfair trade practices by China (Office of the United States Trade Representative, 2024).

**Global.**—In August, a fire broke out at Press Metal Aluminium Holdings BHD’s (Malaysia) 960,000-metric-ton-per-year primary aluminum smelter in the Samalaju Industrial Park, located within the state of Sarawak. The fire affected one-third of the third phase’s 300 electrolysis pots, equivalent to 3% of the company’s annual aluminum smelting capacity. Full operations are expected to return within approximately four months (Press Metal Aluminium Holdings BHD, 2024; Teo, 2024; Yussop, 2024).

The Government of Canada announced that beginning October 15, it will impose a 25% tariff on aluminum products from China in response to alleged unfair trade practices by China. The affected products include crude primary aluminum metals, alloys, and semifinished aluminum products (Coyne, 2024; Department of Finance Canada, 2024).

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*A worksheet has been added to the Excel table files that includes a button to remove text and numerical footnotes from data cells. This will allow users to only have numbers in data cells. Please see the worksheet titled “RemoveTextButton” for instructions on how to use the tool. Note: you must download the excel file to use the tool.*

*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.

[Data are rounded to no more than three significant digits, except "Primary production"; may not add to totals shown. Data are in thousand metric tons. Revised data are marked with a superscript "r". NA, not available.]

Period	Primary production	Secondary recovery <sup>1</sup>			Imports for consumption			Total new supply <sup>2</sup>	Stocks, end of period <sup>3</sup>
		New	Old	Total	Metals and alloys, crude	Plates, sheets, bars, etc.	Total		
<b>2023</b>									
Total	750	1,860	1,560	3,430	3,810	1,040	4,850	9,020	1,820
July	64	149	137	286	331	86	417	767	1,860
August	62	153	138	291	283	94	377	730	1,860
September	60	157	127	284	309	80	389	733	1,890
October	61	166	130	297	313	85	398	756	1,830
November	61	154	125	278	277	81	358	698	1,780
December	64	150	119	270	311	86	397	730	1,820
January–July	442 <sup>r</sup>	1,080 <sup>r</sup>	922 <sup>r</sup>	2,010 <sup>r</sup>	2,320	610 <sup>r</sup>	2,930 <sup>r</sup>	5,380 <sup>r</sup>	1,820
<b>2024</b>									
January	63	158	121	279	297	98	395	737	1,780
February	52	162	132	294	344	98	442	788	1,770
March	57	165	134	299	270	96	366	722	1,730
April	55	163	133	296	330	113	443	795	1,720
May	57	167	132	299	270	120	390	746	1,800
June	55	163	133	295	340	106	446	796	NA
July	57	159	133	292	293	113	406	754	NA
January–July	396	1,140	917	2,050	2,140	744	2,890	5,340	NA

<sup>1</sup>Metallic recovery from purchased, tolled, or imported scrap, expanded for full coverage of industry.

<sup>2</sup>Primary production, secondary recovery, and imports for consumption.

<sup>3</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 recover from purchased new and old aluminum scrap.

[Data are rounded to no more than three significant digits; may not add to totals shown. Data are in thousand metric tons. Revised data are marked with a superscript "r".]

Period	Secondary smelters		Independent mill fabricators		Foundries		Other consumers		Total	
	Consumption	Metal recovery	Consumption	Metal recovery	Consumption	Metal recovery	Consumption	Metal recovery	Consumption	Metal recovery
<b>2023</b>										
Total	2,520	1,880	1,590	1,450	101	93	3	3	4,210	3,430
July	210	157	133	120	8	8	( <sup>1</sup> )	( <sup>1</sup> )	352	286
August	212	159	137	124	8	8	( <sup>1</sup> )	( <sup>1</sup> )	357	291
September	207	156	131	120	8	8	( <sup>1</sup> )	( <sup>1</sup> )	347	284
October	210	158	143	131	8	8	( <sup>1</sup> )	( <sup>1</sup> )	362	297
November	210	157	124	113	8	8	( <sup>1</sup> )	( <sup>1</sup> )	343	278
December	206	154	119	108	8	8	( <sup>1</sup> )	( <sup>1</sup> )	333	270
January–July	1,470 <sup>r</sup>	1,100 <sup>r</sup>	936 <sup>r</sup>	851 <sup>r</sup>	59	54	2	2	2,470 <sup>r</sup>	2,010 <sup>r</sup>
<b>2024</b>										
January	206	155	127	116	8	8	( <sup>1</sup> )	( <sup>1</sup> )	342	279
February	209	158	141	128	8	8	( <sup>1</sup> )	( <sup>1</sup> )	359	294
March	213	159	145	132	8	8	( <sup>1</sup> )	( <sup>1</sup> )	367	299
April	214	160	141	128	8	8	( <sup>1</sup> )	( <sup>1</sup> )	364	296
May	209	156	148	135	8	8	( <sup>1</sup> )	( <sup>1</sup> )	366	299
June	208	156	144	131	8	8	( <sup>1</sup> )	( <sup>1</sup> )	361	295
July	208	154	142	129	8	8	( <sup>1</sup> )	( <sup>1</sup> )	359	292
January–July	1,470	1,100	989	901	59	54	2	2	2,520	2,050

<sup>1</sup>Less than ½ unit.

**Table 3.** Consumption of and recovery from purchased new and old aluminum scrap in July 2024.

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

Aluminum scrap	Consumption (metric tons)		Calculated metallic recovery (metric tons)	
	Tabulated reports	Estimated full coverage	Tabulated reports	Estimated full coverage
Secondary smelters	173,000	208,000	129,000	154,000
Independent mill fabricators	128,000	142,000	117,000	129,000
Foundries	7,040	8,450	6,440	7,730
Other consumers	242	290	242	290
<b>Total</b>	<b>309,000</b>	<b>359,000</b>	<b>252,000</b>	<b>292,000</b>

**Table 4.** Purchased and toll-treated aluminum-base scrap in July 2024.

[Data are rounded to no more than three significant digits; may not add to totals shown. Data are in metric tons.]

Aluminum-base scrap	July			January–July		
	Stocks, opening <sup>1</sup>	Net receipts <sup>2</sup>	Melted or consumed	Stocks, closing	Net receipts <sup>2</sup>	Melted or consumed
<b>New scrap</b>						
Extrusions	18,600	43,100	43,100	18,600	315,000	315,000
Can stock clippings	96,400	33,000	33,000	96,400	220,000	220,000
Other wrought sheet/clippings	156,000	37,600	37,600	156,000	284,000	284,000
Castings	20,100	4,820	4,820	20,100	32,600	32,600
Borings and turnings	41,500	10,900	10,900	41,500	80,100	80,100
Dross and skimmings <sup>3</sup>	340,000	48,700	48,700	340,000	333,000	333,000
<b>Total new scrap</b>	<b>673,000</b>	<b>178,000</b>	<b>178,000</b>	<b>673,000</b>	<b>1,260,000</b>	<b>1,270,000</b>
<b>Old scrap</b>						
Used castings	24,700	28,000	28,000	24,700	193,000	193,000
Used extrusions	15,600	13,200	13,200	15,600	92,300	92,300
Used cans (shredded, loose, baled)	73,600	51,000	51,000	73,600	346,000	346,000
Other wrought products	36,700	25,900	25,900	36,700	185,000	185,000
Fragmentized shredder (auto shredder)	3,500	12,400	12,400	3,500	87,000	87,000
<b>Total old scrap</b>	<b>154,000</b>	<b>131,000</b>	<b>131,000</b>	<b>154,000</b>	<b>903,000</b>	<b>903,000</b>
<b>Grand total, all classes</b>	<b>827,000</b>	<b>309,000</b>	<b>309,000</b>	<b>827,000</b>	<b>2,160,000</b>	<b>2,170,000</b>

<sup>1</sup>May include revisions to previously published data.<sup>2</sup>Includes data on imported aluminum-base scrap.<sup>3</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 2024.

[Data are rounded to no more than three significant digits; may not add to totals shown. Excludes integrated aluminum companies. Data are in metric tons. —, not applicable.]

Aluminum alloys	July			January–July		
	Stocks, opening <sup>1</sup>	Production	Net shipments	Stocks, closing	Production	Net shipments
<b>Die-cast alloys</b>						
13% Si, 360, etc. (0.6% Cu, max.)	4,370	2,700	2,700	4,370	18,900	16,500
380 and variations	7,750	17,600	17,600	7,750	123,000	120,000
<b>Sand and permanent mold</b>						
95/5 Al-Si, 356, etc. (0.6% Cu, max.)	1,940	2,130	2,130	1,940	14,900	14,900
No. 319 and variations	1,200	1,390	1,390	1,200	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>2</sup>	3,740	4,450	4,450	3,740	31,100	31,100
<b>Other</b>						
Wrought alloys, extrusion billets	14,200	60,600	60,600	14,200	424,000	424,000
<b>Total all alloys</b>	<b>34,000</b>	<b>90,100</b>	<b>90,100</b>	<b>34,000</b>	<b>631,000</b>	<b>625,000</b>
<b>Less</b>						
Primary aluminum consumed	—	15,200	—	—	106,000	—
Primary silicon consumed	—	1,600	—	—	11,200	—
Other alloying ingredients consumed	—	839	—	—	5,880	—
<b>Other</b>						
Net metallic recovery from aluminum scrap consumed in production of secondary aluminum ingot <sup>3</sup>	—	72,500	—	—	508,000	—

<sup>1</sup>May include revisions to previously published data.

<sup>2</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>3</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.

[Data are in cents per pound. Source: S&P Global Platts Metals Week.]

<b>Period</b>	<b>Midwest U.S. market price</b>	<b>LME cash price Grade A</b>
<b>2023</b>		
July	121.012	97.614
August	118.557	96.787
September	119.429	98.756
October	119.136	99.433
November	119.011	99.877
December	118.250	98.610
January–December	125.863	102.113
<b>2024</b>		
January	118.966	99.514
February	117.083	98.984
March	119.438	100.791
April	132.536	113.285
May	136.524	116.334
June	133.738	113.154
July	125.870	107.137
<b>January–July</b>	126.308	107.028

**Table 7.** Average buying prices for aluminum scrap.

[Data are in cents per pound. Source: Fastmarkets-AMM.]

<b>Period</b>	<b>Used beverage cans</b>	<b>Mixed low copper clips</b>	<b>Old sheet</b>	<b>Old cast</b>	<b>Turnings (clean and dry)</b>
<b>2023</b>					
July	68.00	68.38	68.50	70.00	57.88
August	67.80	67.40	67.00	69.40	59.60
September	67.75	66.50	67.25	68.50	59.25
October	68.00	66.50	68.75	68.75	59.50
November	69.50	68.00	69.50	69.40	61.60
December	70.38	68.25	68.88	69.75	65.50
January–December	73.84	68.35	69.03	70.37	59.88
<b>2024</b>					
January	74.13	69.13	70.25	72.13	68.63
February	76.00	69.90	71.80	73.80	71.40
March	78.00	71.13	73.00	78.00	72.50
April	87.88	73.00	76.25	79.50	74.63
May	92.60	78.60	82.60	82.00	80.20
June	94.50	79.50	82.25	82.00	82.00
July	92.50	77.25	81.50	83.00	82.50
<b>January–July</b>	85.09	74.07	76.81	78.63	75.98

**Table 8.** U.S. imports for consumption of aluminum in July 2024.

[Data are rounded to no more than three significant digits; may not add to totals shown. Data are in metric tons. Source: U.S. Census Bureau.]

Country or locality	Metals and alloys, crude		Plates, sheets, bars <sup>1</sup>		Scrap		Total	
	July	January– July	July	January– July	July	January– July	July	January– July
Argentina	2,840	94,600	5	22	0	0	2,840	94,600
Australia	8,720	46,700	32	113	0	0	8,750	46,800
Austria	0	4	2,250	14,700	1	31	2,250	14,800
Bahrain	9,540	56,900	3,320	27,000	0	0	12,900	83,900
Belgium	39	102	1,820	12,800	0	0	1,860	12,900
Brazil	0	5	2,710	23,400	702	3,990	3,410	27,400
Canada	235,000	1,630,000	17,900	134,000	37,500	236,000	291,000	2,000,000
Chile	0	0	0	19	118	1,500	118	1,520
China <sup>2</sup>	185	504	15,900	106,000	95	215	16,100	107,000
Colombia	0	0	484	3,410	1,050	4,230	1,530	7,640
Costa Rica	0	0	77	433	117	742	194	1,180
France	1,060	5,640	570	4,790	11	119	1,650	10,600
Germany	51	438	2,160	10,600	935	4,610	3,150	15,700
Greece	0	0	2,340	23,100	0	62	2,340	23,200
Guatemala	0	0	0	18	1,280	7,520	1,280	7,540
Honduras	0	0	683	4,960	72	724	755	5,680
India	2,440	48,800	1,910	18,900	0	( <sup>3</sup> )	4,350	67,700
Indonesia	0	511	674	8,500	0	0	674	9,010
Italy	842	2,340	1,200	8,160	6	27	2,050	10,500
Japan	0	4	1,770	11,000	110	202	1,880	11,200
Korea, Republic of	0	4,220	20,300	98,400	0	27	20,300	103,000
Malaysia	0	0	1,450	8,080	0	2	1,450	8,080
Mexico	181	2,690	4,250	32,100	21,100	120,000	25,600	155,000
Netherlands	112	875	164	665	15	67	290	1,610
New Zealand	39	3,470	( <sup>3</sup> )	3	0	0	40	3,470
Norway	19	2,180	1,340	6,230	0	0	1,360	8,410
Oman	0	0	6,160	32,500	0	0	6,160	32,500
Qatar	1,590	25,900	5	10	0	0	1,590	26,000
Romania	0	0	7	172	0	38	7	210
Russia	0	0	0	26	0	0	0	26
Saudi Arabia	0	0	977	6,010	0	0	977	6,010
South Africa	0	121	2,660	7,680	0	101	2,660	7,900
Spain	599	1,790	1,250	7,560	0	143	1,850	9,490
Sweden	0	0	1,110	6,300	0	0	1,110	6,300
Switzerland	0	0	739	4,010	0	0	739	4,010
Taiwan	27	181	312	2,110	37	55	376	2,340
Thailand	173	1,220	4,690	16,700	1	12	4,860	18,000
Turkey	202	395	1,920	18,600	0	0	2,130	19,000
United Arab Emirates	28,900	210,000	436	1,550	0	0	29,300	212,000
United Kingdom	20	68	1,270	6,640	0	377	1,290	7,090
Vietnam	0	0	1,330	27,800	5	10	1,330	27,800
Other	0	80	6,930	49,500	2,370	13,100	9,300	62,700
<b>Total</b>	<b>293,000</b>	<b>2,140,000</b>	<b>113,000</b>	<b>744,000</b>	<b>65,600</b>	<b>394,000</b>	<b>472,000</b>	<b>3,280,000</b>

<sup>1</sup>Includes castings, forgings, and unclassified semifabricated forms.<sup>2</sup>Includes Hong Kong.<sup>3</sup>Less than ½ unit.

**Table 9.** U.S. exports of aluminum in July 2024.

[Data are rounded to no more than three significant digits; may not add to totals shown. Data are in metric tons. Source: U.S. Census Bureau.]

Country or locality	Metals and alloys, crude		Plates, sheets, bars <sup>1</sup>		Scrap		Total	
	July	January– July	July	January– July	July	January– July	July	January– July
Australia	79	319	136	1,170	0	0	214	1,490
Belgium	0	2	193	1,480	639	4,010	832	5,490
Brazil	1	1	219	1,640	29	3,060	248	4,710
Canada	4,980	39,300	27,000	196,000	10,000	77,900	42,000	313,000
China <sup>2</sup>	217	2,390	1,400	8,390	17,800	114,000	19,500	125,000
Colombia	( <sup>3</sup> )	100	23	293	19	427	43	820
Dominican Republic	0	0	58	251	554	2,870	613	3,120
France	333	3,890	691	7,160	331	1,450	1,360	12,500
Germany	( <sup>3</sup> )	2,230	435	3,090	185	1,030	621	6,360
Guatemala	0	1	3	77	0	0	3	78
India	151	665	384	2,790	32,800	247,000	33,300	250,000
Indonesia	0	36	1	36	5,550	27,700	5,550	27,800
Ireland	1	1	18	195	0	806	19	1,000
Israel	( <sup>3</sup> )	4	619	4,470	0	0	619	4,470
Italy	( <sup>3</sup> )	143	184	1,370	878	4,390	1,060	5,910
Jamaica	1	5	7	60	0	0	8	66
Japan	181	1,070	1,450	8,190	2,680	17,600	4,310	26,900
Korea, Republic of	153	2,060	2,080	15,300	18,900	151,000	21,100	168,000
Malaysia	22,800	213,000	189	2,640	29,400	221,000	52,400	436,000
Mexico	16,400	108,000	28,500	185,000	13,800	80,600	58,700	374,000
Netherlands	61	318	29	293	485	4,340	575	4,950
New Zealand	8	9	37	376	0	0	44	385
Norway	0	91	1	12	0	621	1	723
Pakistan	262	956	( <sup>3</sup> )	8	1,730	10,200	1,990	11,200
Panama	0	6	5	20	0	0	5	26
Philippines	16	158	16	171	96	653	128	983
Poland	0	15	80	726	0	20	80	761
Romania	( <sup>3</sup> )	( <sup>3</sup> )	110	855	0	0	110	855
Saudi Arabia	0	0	7	151	0	0	7	151
Singapore	22	1,360	133	846	0	115	155	2,320
Spain	0	12	149	1,340	933	4,410	1,080	5,760
Taiwan	94	175	425	2,490	2,450	25,900	2,970	28,500
Thailand	462	4,430	106	703	27,000	183,000	27,600	188,000
Turkey	0	( <sup>3</sup> )	238	2,570	40	441	278	3,010
United Arab Emirates	30	31	29	431	272	1,850	331	2,310
United Kingdom	27	61	637	5,260	19	682	683	6,010
Vietnam	72	902	115	745	801	11,400	988	13,100
Other	39	1,360	302	2,530	844	9,190	1,180	13,100
<b>Total</b>	<b>46,400</b>	<b>383,000</b>	<b>66,000</b>	<b>459,000</b>	<b>168,000</b>	<b>1,210,000</b>	<b>281,000</b>	<b>2,050,000</b>

<sup>1</sup>Includes castings, forgings, and unclassified semifabricated forms.<sup>2</sup>Includes Hong Kong.<sup>3</sup>Less than ½ unit.