

Mineral Industry Surveys

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ALUMINUM IN APRIL 2024

Domestic primary aluminum production in April 2024 was 55,000 metric tons (t). The average daily production in April 2024 was 1,850 t, unchanged from that in March 2024, 12% less than that in April 2023, and 32% less than that in April 2022 (fig. 1, table 1).

Total aluminum recovered from scrap in April 2024 was 299,000 t, essentially unchanged from the revised amount in March 2024 and 6% more than that in April 2023 and April 2022. Of this, 165,000 t of aluminum was recovered from new scrap, and 135,000 t was recovered from old scrap (due to rounding, does not equal total) (fig. 1, table 1).

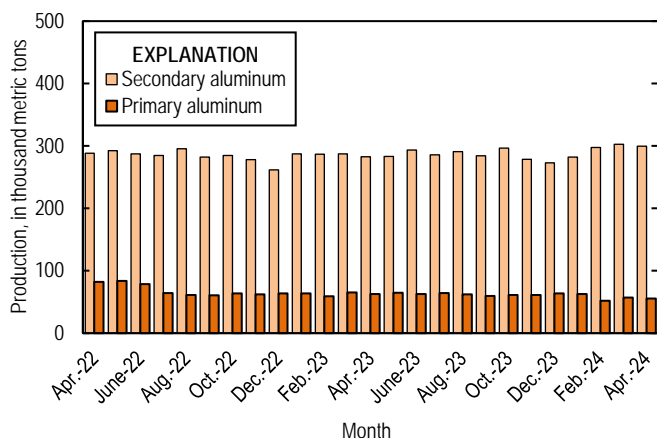


Figure 1. Monthly domestic primary and secondary aluminum production from April 2022 through April 2024.

Prices and Stocks

The April 2024 average U.S. spot market price of primary aluminum ingot was \$1.33 per pound, 11% more than that in March 2024, essentially unchanged from that in April 2023, and 29% less than that in April 2022. The average cash price in April 2024 of primary aluminum ingot on the London Metal Exchange (LME) was \$1.13 per pound, 12% more than that in March 2024, 7% more than that in April 2023, and 23% less than that in April 2022 (fig. 2, table 6).

Inventories of primary aluminum in LME-approved warehouses, including off-warrant inventories, in the United States were 14,466 t at the end of April 2024, nearly triple

(178%) that at the end of March 2024. Inventories of aluminum alloy (North American Special Aluminum Alloy Contract) in LME-approved warehouses, including off-warrant inventories, in the United States were 131 t at the end of April 2024, 67% less than that at the end of March 2024 (London Metal Exchange Ltd., 2024a–d).

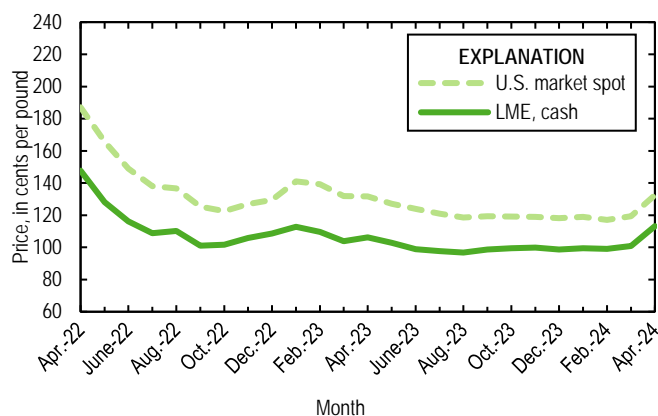


Figure 2. Average monthly prices for primary aluminum from April 2022 through April 2024. Source: S&P Global Platts Metals Week.

Updates

United States.—In June, auto parts manufacturer Samkee Corp. (Republic of Korea) opened a \$128 million production and casting facility in Tuskegee, AL. The facility produced aluminum components for Hyundai Motor Manufacturing Alabama, LLC which operated an automobile manufacturing plant in Montgomery (Business Alabama, 2024; Nicoll, 2024).

Global.—On May 31, Rio Tinto Group announced that subsidiary New Zealand Aluminium Smelters Ltd. (NZAS), had finalized electricity contracts for its Tiwai Smelter, securing power through 2044. Three separate contracts with Contact Energy Ltd., Mercury Energy Ltd., and Meridian Energy Ltd. will provide the smelter with 572 megawatts of electricity. Also announced, Rio Tinto has agreed to acquire all remaining interest (20.64%) in NZAS from Sumitomo Chemical Company Ltd. Once finalized, Rio Tinto will become sole owner of NZAS. Located in the Southland region, the

Tiwai Smelter consists of three potlines with a total annual capacity of 373,000 t of primary aluminum (New Zealand Aluminium Smelters Ltd., 2024; Rio Tinto Group, 2024a, p. 339; 2024b).

References Cited

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A worksheet has been added to the excel table files that includes a macro to remove text from data cells. This will allow users to only have numbers in data cells. Please see the worksheet titled “RemoveTextButton” within the February 2024 Mineral Industry Survey for instructions on how to use the tool. Note: you must download the excel file to use the tool.

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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.]

Revised data are marked with a superscript 1. (NA, not available.)

Period	Primary production	Secondary recovery ¹			Imports for consumption			Total new supply ²	Stocks, end of period ³
		New	Old	Total	Metals and alloys, crude	Plates, sheets, bars, etc.	Total		
2023									
Total	750	1,870 ^r	1,560 ^r	3,430 ^r	3,810	1,050 ^r	4,860 ^r	9,040	1,820
April	63	153 ^r	130 ^r	283 ^r	375	97	472	818 ^r	1,990
May	65	153 ^r	130 ^r	283 ^r	407	93	500	848 ^r	1,930
June	62	156 ^r	137 ^r	293 ^r	345	94	439	795 ^r	1,910
July	64	149 ^r	137 ^r	286 ^r	331	86	417	767 ^r	1,860
August	62	153 ^r	138 ^r	291 ^r	283	94	377	730 ^r	1,860
September	60	157 ^r	127 ^r	284 ^r	309	80	389	733 ^r	1,890
October	61	166 ^r	130 ^r	297 ^r	313	85	398	756 ^r	1,830
November	61	154 ^r	125 ^r	278 ^r	277	81	358	698 ^r	1,780
December	64	152 ^r	121 ^r	273 ^r	311	86	397	734 ^r	1,820
January–April	251	625 ^r	519 ^r	1,140 ^r	1,240	352	1,590	2,980 ^r	1,820
2024									
January	63	159 ^r	123 ^r	282 ^r	297	98	395	740 ^r	1,780
February	52	164 ^r	134 ^r	297	344	98	442	791	1,770
March	57	166 ^r	136 ^r	303 ^r	270	96	366	726 ^r	1,730
April	55	165	135	299	330	113	443	798	NA
January–April	227	654	528	1,180	1,240	405	1,650	3,050	NA

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

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

³Inventory 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
2023										
Total	2,520 ^r	1,890 ^r	1,590	1,450	101 ^r	93 ^r	3	3	4,220 ^r	3,430 ^r
April	206 ^r	154 ^r	133 ^r	121 ^r	8	8	(¹)	(¹)	348 ^r	283 ^r
May	212 ^r	157 ^r	130	118	8	8	(¹)	(¹)	350 ^r	283 ^r
June	210 ^r	158 ^r	141	128	8	8	(¹)	(¹)	360 ^r	293 ^r
July	210 ^r	157 ^r	133	120	8	8	(¹)	(¹)	352 ^r	286 ^r
August	212 ^r	159 ^r	137	124	8	8	(¹)	(¹)	357 ^r	291 ^r
September	207 ^r	156 ^r	131	120	8	8	(¹)	(¹)	347 ^r	284 ^r
October	210 ^r	158 ^r	143	131	8	8	(¹)	(¹)	362 ^r	297 ^r
November	210 ^r	157 ^r	124	113	8	8	(¹)	(¹)	343 ^r	278 ^r
December	210 ^r	157 ^r	119	108	8	8	(¹)	(¹)	337 ^r	273 ^r
January–April	840 ^r	627 ^r	532 ^r	485 ^r	34	31	1	1	1,410 ^r	1,140 ^r
2024										
January	209 ^r	158 ^r	127	116	8	8	(¹)	(¹)	345 ^r	282 ^r
February	213 ^r	161 ^r	141 ^r	128 ^r	8	8	(¹)	(¹)	363 ^r	297
March	217 ^r	162 ^r	145 ^r	132 ^r	8	8	(¹)	(¹)	370	303 ^r
April	218	163	141	128	8	8	(¹)	(¹)	368	299
January–April	857	645	554	505	34	31	1	1	1,450	1,180

¹ Less than ½ unit.

Table 3. Consumption of and recovery from purchased new and old aluminum scrap in April 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	182,000	218,000	136,000	163,000
Independent mill fabricators	127,000	141,000	116,000	128,000
Foundries	7,040	8,450	6,440	7,730
Other consumers	242	290	242	290
Total	317,000	368,000	259,000	299,000

Table 4. Purchased and toll-treated aluminum-base scrap in April 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	April			January–April		
	Stocks, opening ¹	Net receipts ²	Melted or consumed	Stocks, closing	Net receipts ²	Melted or consumed
New scrap						
Extrusions	18,700	45,700	45,800	18,600	177,000	177,000
Can stock clippings	96,400	29,300	29,300	96,400	123,000	123,000
Other wrought sheet/clippings	157,000	42,200	42,200	157,000	168,000	168,000
Castings	20,100	4,530	4,530	20,100	18,900	18,900
Borings and turnings	41,700	12,800	12,800	41,700	49,300	49,300
Dross and skimmings ³	340,000	49,600	49,600	340,000	190,000	190,000
Total new scrap	674,000	184,000	184,000	674,000	726,000	726,000
Old scrap						
Used castings	24,800	28,200	28,200	24,800	112,000	112,000
Used extrusions	15,600	13,200	13,200	15,600	52,800	52,800
Used cans (shredded, loose, baled)	73,600	46,800	46,800	73,600	191,000	191,000
Other wrought products	36,700	30,000	30,000	36,700	108,000	108,000
Fragmentized shredder (auto shredder)	4,740	14,000	14,000	4,740	55,200	55,200
Total old scrap	156,000	132,000	132,000	156,000	519,000	519,000
Grand total, all classes	830,000	316,000	316,000	830,000	1,250,000	1,250,000

¹May include revisions to previously published data.²Includes data on imported aluminum-base scrap.³Gross 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 April 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	April			January–April		
	Stocks, opening ¹	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	10,800	10,800
380 and variations	7,430	20,800	20,800	7,430	83,300	83,300
Sand and permanent mold						
95/5 Al-Si, 356, etc. (0.6% Cu, max.)	1,940	2,130	2,130	1,940	8,510	8,510
No. 319 and variations	1,420	1,390	1,390	1,420	5,560	5,560
F-132 alloy and variations	89	233	233	89	932	932
Al-Zn alloys	339	71	71	339	284	284
Al-Si alloys (0.6% to 2.0% Cu)	230	195	195	230	779	779
Al-Cu alloys (1.5% Si, max.)	139	724	724	139	2,900	2,900
Other ²	3,730	4,450	4,450	3,730	17,800	17,800
Other						
Wrought alloys, extrusion billets	14,200	60,600	60,600	14,200	243,000	243,000
Total all alloys	32,400	93,300	93,300	32,400	373,000	373,000
Less						
Primary aluminum consumed	—	15,400	—	—	61,700	—
Primary silicon consumed	—	1,720	—	—	6,860	—
Other alloying ingredients consumed	—	839	—	—	3,360	—
Other						
Net metallic recovery from aluminum scrap consumed in production of secondary aluminum ingot ³	—	75,300	—	—	301,000	—

¹May include revisions to previously published data.

²Includes alloys No. 12, Al-Mg, Al-Zn, Al-Cu, Al-Si-Cu-Ni, aluminum-base hardeners, variations of these alloys, plus other aluminum alloys.

³No 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.]

Period	Midwest U.S. market price	LME cash price Grade A
2023		
April	131.764	106.168
May	127.088	102.837
June	124.000	98.917
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
2024		
January	118.966	99.514
February	117.083	98.984
March	119.438	100.791
April	132.536	113.285
January–April	122.006	103.144

Table 7. Average buying prices for aluminum scrap.

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

Period	Used beverage cans	Mixed low copper clips	Old sheet	Old cast	Turnings (clean and dry)
2023					
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
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
2024					
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
January–April	79.00	70.79	72.83	75.86	71.79

Table 8. U.S. imports for consumption of aluminum in April 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 ¹		Scrap		Total	
	April	January–April	April	January–April	April	January–April	April	January–April
Argentina	7,640	48,700	0	0	0	0	7,640	48,700
Australia	8,730	28,700	19	55	0	0	8,740	28,700
Austria	0	4	2,150	7,520	6	22	2,160	7,550
Bahrain	14,800	29,200	4,650	15,600	0	0	19,400	44,800
Belgium	0	63	2,120	7,960	0	0	2,120	8,020
Brazil	0	5	7,060	13,300	49	866	7,110	14,200
Canada	243,000	964,000	20,900	78,700	34,800	129,000	299,000	1,170,000
Chile	0	0	0	19	525	1,050	525	1,070
China ²	34	208	15,100	57,100	1	43	15,100	57,300
Colombia	0	0	493	1,800	658	1,620	1,150	3,430
Costa Rica	0	0	4	152	87	388	91	540
France	382	3,030	909	2,030	13	38	1,300	5,100
Germany	229	335	1,450	6,120	496	2,140	2,180	8,600
Greece	0	0	3,140	15,100	28	60	3,170	15,100
Guatemala	0	0	0	18	1,070	3,860	1,070	3,880
Honduras	0	0	803	2,730	41	460	843	3,190
India	5,330	21,300	3,290	11,300	0	(³)	8,620	32,700
Indonesia	187	379	1,350	5,930	0	0	1,540	6,310
Italy	0	1,130	925	4,710	2	6	927	5,850
Japan	0	0	2,010	6,710	0	14	2,010	6,730
Korea, Republic of	553	2,730	11,900	40,300	27	27	12,500	43,000
Malaysia	0	0	1,150	4,350	(³)	2	1,150	4,350
Mexico	343	2,050	4,820	18,700	16,200	64,600	21,400	85,300
Netherlands	148	472	93	252	0	0	241	724
New Zealand	1,090	3,220	1	1	0	0	1,090	3,220
Norway	415	1,520	895	2,660	0	0	1,310	4,180
Oman	0	0	4,180	15,400	0	0	4,180	15,400
Qatar	3,640	19,800	4	5	0	0	3,640	19,800
Romania	0	0	50	125	0	20	50	145
Russia	0	0	0	26	0	0	0	26
Saudi Arabia	0	0	686	2,830	0	0	686	2,830
South Africa	0	121	2,070	3,540	0	101	2,070	3,760
Spain	60	481	1,110	3,660	0	0	1,170	4,140
Sweden	0	0	1,120	3,310	0	0	1,120	3,310
Switzerland	0	0	825	1,910	0	0	825	1,910
Taiwan	1	120	318	1,180	(³)	(³)	320	1,300
Thailand	261	644	1,320	6,080	(³)	10	1,580	6,730
Turkey	0	192	3,050	12,600	0	0	3,050	12,800
United Arab Emirates	43,100	112,000	253	776	0	0	43,400	113,000
United Kingdom	(³)	27	886	4,150	37	325	923	4,500
Vietnam	0	0	5,980	22,100	0	0	5,980	22,100
Other	24	80	6,140	24,400	1,880	6,990	8,050	31,500
Total	330,000	1,240,000	113,000	405,000	55,900	212,000	500,000	1,860,000

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

Table 9. U.S. exports of aluminum in April 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 ¹		Scrap		Total	
	April	January–April	April	January–April	April	January–April	April	January–April
Australia	10	162	232	736	0	0	242	898
Belgium	1	1	228	872	576	1,580	805	2,450
Brazil	0	1	260	912	292	2,380	552	3,300
Canada	5,820	23,900	29,300	117,000	11,400	44,400	46,500	185,000
China ²	193	1,730	1,850	4,880	10,300	67,500	12,300	74,200
Colombia	4	94	41	139	40	324	84	557
Dominican Republic	0	0	47	142	546	1,540	593	1,690
France	851	2,690	804	4,610	95	691	1,750	8,000
Germany	390	1,670	336	1,620	366	653	1,090	3,940
Guatemala	0	1	20	41	0	0	20	41
India	143	343	375	1,570	40,400	128,000	40,900	130,000
Indonesia	0	36	2	14	5,090	12,900	5,090	13,000
Ireland	0	0	55	86	0	806	55	893
Israel	(³)	1	553	2,780	0	0	553	2,780
Italy	1	80	248	812	616	1,850	865	2,750
Jamaica	0	4	6	40	0	0	6	44
Japan	148	422	1,270	4,210	1,990	9,110	3,410	13,700
Korea, Republic of	440	1,440	2,590	8,840	23,700	88,000	26,700	98,300
Malaysia	37,600	126,000	367	1,720	35,700	124,000	73,700	252,000
Mexico	17,400	59,800	27,400	104,000	10,400	41,400	55,200	205,000
Netherlands	1	120	50	186	708	2,430	759	2,740
New Zealand	(³)	(³)	100	204	0	0	100	205
Norway	0	91	4	8	77	451	81	550
Pakistan	0	19	0	7	1,480	6,070	1,480	6,090
Panama	(³)	6	2	13	0	0	2	19
Philippines	0	54	43	96	91	395	134	545
Poland	5	11	67	412	0	20	72	444
Romania	(³)	(³)	80	520	0	0	80	520
Saudi Arabia	0	0	112	122	0	0	112	122
Singapore	0	933	114	540	0	98	114	1,570
Spain	0	6	129	788	306	1,800	435	2,600
Taiwan	21	60	588	1,480	4,370	17,000	4,980	18,500
Thailand	613	2,560	93	308	27,900	107,000	28,600	110,000
Turkey	0	(³)	418	1,850	39	344	456	2,200
United Arab Emirates	0	1	8	362	115	520	122	883
United Kingdom	(³)	24	739	3,350	306	604	1,040	3,980
Vietnam	144	506	92	487	1,860	8,230	2,100	9,220
Other	154	1,290	447	1,600	1,350	5,050	1,950	7,940
Total	64,000	224,000	69,100	267,000	180,000	675,000	313,000	1,170,000

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