

Mineral Industry Surveys

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ALUMINUM IN OCTOBER 2024

Domestic primary aluminum production in October 2024 was 57,000 metric tons (t). The average daily production in October 2024 was 1,830 t, compared with 1,820 t in September 2024, 7% less than that in October 2023, and 11% less than that in October 2022 (fig. 1, table 1).

Total aluminum recovered from scrap in October 2024 was 298,000 t, 4% more than that in September 2024, 1,000 t more than that in October 2023, and 7% more than that in October 2022. Of this, 167,000 t of aluminum was recovered from new scrap, and 131,000 t was recovered from old scrap (fig. 1, table 1).

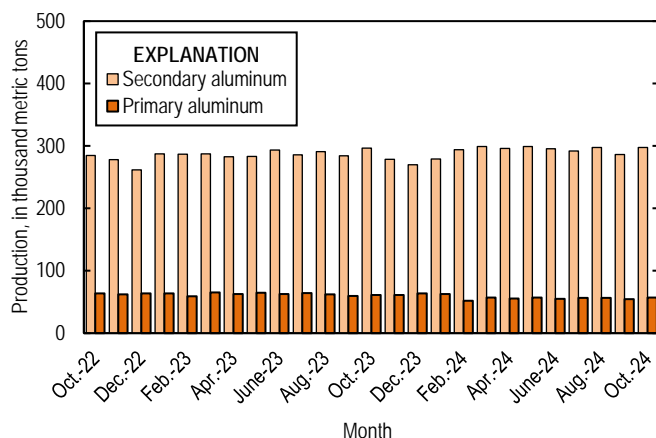


Figure 1. Monthly domestic primary and secondary aluminum production from October 2022 through October 2024.

Prices and Stocks

The October 2024 average U.S. spot market price of primary aluminum ingot was \$1.37 per pound, 5% more than that in September 2024, 15% more than that in October 2023, and 12% more than that in October 2022. The average cash price in October 2024 of primary aluminum ingot on the London Metal Exchange (LME) was \$1.18 per pound, 6% more than that in September 2024, 19% more than that in October 2023, and 16% more than that in October 2022 (fig. 2, table 6).

Inventories of primary aluminum in LME-approved warehouses, including off-warrant inventories, in the United States were 10,995 t at the end of October 2024, 10% more

than those at the end of September 2024. Inventories of aluminum alloy (North American Special Aluminum Alloy Contract) in LME-approved warehouses, including off-warrant inventories, in the United States were 431 t at the end of October 2024, unchanged from those at the end of September 2024 (London Metal Exchange Ltd., 2024a, b).

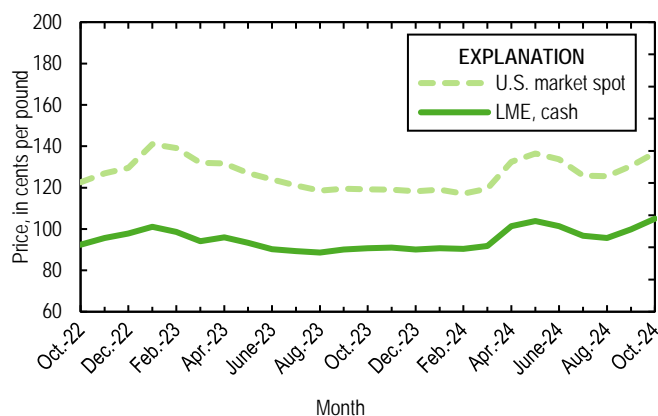


Figure 2. Average monthly prices for primary aluminum from October 2022 through October 2024. Source: S&P Global Platts Metals Week.

References Cited

- London Metal Exchange Ltd., 2024a, Off-warrant stock reporting: London, United Kingdom, London Metal Exchange Ltd. (Accessed December 27, 2024, via <https://www.lme.com/en/Market-data/Reports-and-data/Warehouse-and-stocks-reports/Off-warrant-stock-reporting>.)
- London Metal Exchange Ltd., 2024b, Stocks breakdown report: London, United Kingdom, London Metal Exchange Ltd. (Accessed December 27, 2024, via <https://www.lme.com/Market-data/Reports-and-data/Warehouse-and-stocks-reports/Stock-breakdown-report>.)

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.

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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.]

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	1,860	1,560	3,430	3,810	1,040	4,850	9,020	1,820
October	61	166	130	297	313	85	398	756	1,830
November	61	154	125	278	277	81	358	697	1,780
December	64	150	119	270	311	86	397	731	1,820
January–October	625	1,560 ^r	1,320 ^r	2,880 ^r	3,220	869 ^r	4,090 ^r	7,600 ^r	1,820
2024									
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	794	1,720
May	57	166 ^r	132	299	270	120	390	746	1,800
June	55	163	133	295	340	106	446	796	1,690
July	57	159	133	292	293	113	406	755	1,690
August	56	166	132	297	268	94	362	715	1,800
September	55	160	126	286	332	94	426	766 ^r	1,656
October	57	167	131	298	297	96	393	748	NA
January–October	564	1,630	1,310	2,940	3,040	1,030	4,070	7,170	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	1,880	1,590	1,450	101	93	3	3	4,210	3,430
October	210	158	143	131	8	8	(¹)	(¹)	362	297
November	210	157	124	113	8	8	(¹)	(¹)	343	278
December	206	154	119	108	8	8	(¹)	(¹)	333	270
January–October	2,100 ^r	1,570 ^r	1,350	1,220	84	77	3	3	3,540 ^r	2,880 ^r
2024										
January	206	155	127	116	8	8	(¹)	(¹)	342	279
February	209	158	141	128	8	8	(¹)	(¹)	359	294
March	213	159	145	132	8	8	(¹)	(¹)	367	299
April	214	160	141	128	8	8	(¹)	(¹)	364	296
May	209	156	148	135	8	8	(¹)	(¹)	365 ^r	299
June	208	156	144	131	8	8	(¹)	(¹)	361	295
July	208	154	142	129	8	8	(¹)	(¹)	359	292
August	207	154	148	135 ^r	8	8	(¹)	(¹)	364	297
September	210	155	134	122 ^r	8	8	(¹)	(¹)	353	286
October	213	157	145	132	8	8	(¹)	(¹)	366	298
January–October	2,100	1,560	1,420	1,290	84	77	3	3	3,600	2,940

¹Less than ½ unit.

Table 3. Consumption of and recovery from purchased new and old aluminum scrap in October 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	177,000	213,000	131,000	157,000
Independent mill fabricators	131,000	145,000	120,000	132,000
Foundries	7,040	8,450	6,440	7,730
Other consumers	242	290	242	290
Total	316,000	366,000	258,000	298,000

Table 4. Purchased and toll-treated aluminum-base scrap in October 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	October			January–October		
	Stocks, opening ¹	Net receipts ²	Melted or consumed	Stocks, closing	Net receipts ²	Melted or consumed
New scrap						
Extrusions	18,800	45,100	45,100	18,800	453,000	453,000
Can stock clippings	96,400	29,000	29,000	96,400	311,000	311,000
Other wrought sheet/clippings	156,000	43,600	44,100	156,000	404,000	405,000
Castings	20,400	6,380	6,380	20,400	51,000	51,000
Borings and turnings	41,500	11,500	11,500	41,500	114,000	114,000
Dross and skimmings ³	340,000	50,500	50,500	340,000	482,000	482,000
Total new scrap	674,000	186,000	187,000	673,000	1,820,000	1,820,000
Old scrap						
Used castings	24,700	28,800	28,800	24,700	277,000	277,000
Used extrusions	15,600	13,200	13,200	15,600	132,000	132,000
Used cans (shredded, loose, baled)	73,600	49,400	49,400	73,600	492,000	492,000
Other wrought products	36,700	25,900	25,900	36,700	260,000	260,000
Fragmentized shredder (auto shredder)	3,500	12,000	12,000	3,500	123,000	123,000
Total old scrap	154,000	129,000	129,000	154,000	1,290,000	1,290,000
Grand total, all classes	828,000	315,000	316,000	827,000	3,110,000	3,110,000

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 October 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	October			January–October		
	Stocks, opening ¹	Production	Net shipments	Stocks, closing	Production	Net shipments
Die-cast alloys						
13% Si, 360, etc. (0.6% Cu, max.)	4,370	2,700	2,700	4,370	27,000	24,600
380 and variations	7,750	17,600	17,600	7,750	176,000	173,000
Sand and permanent mold						
95/5 Al-Si, 356, etc. (0.6% Cu, max.)	1,940	2,130	2,130	1,940	21,300	21,300
No. 319 and variations	1,200	1,390	1,390	1,200	13,900	13,900
F-132 alloy and variations	89	233	233	89	2,330	2,330
Al-Zn alloys	339	71	71	339	709	709
Al-Si alloys (0.6% to 2.0% Cu)	230	195	195	230	1,950	1,950
Al-Cu alloys (1.5% Si, max.)	139	724	724	139	7,240	7,240
Other ²	3,740	4,450	4,450	3,740	44,500	44,500
Other						
Wrought alloys, extrusion billets	14,600	61,900	61,900	14,600	610,000	610,000
Total all alloys	34,400	91,400	91,400	34,400	905,000	899,000
Less						
Primary aluminum consumed	—	15,200	—	—	152,000	—
Primary silicon consumed	—	1,600	—	—	16,000	—
Other alloying ingredients consumed	—	839	—	—	8,390	—
Other						
Net metallic recovery from aluminum scrap consumed in production of secondary aluminum ingot ³	—	73,800	—	—	729,000	—

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		
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
May	136.524	116.334
June	133.738	113.154
July	125.870	107.137
August	125.571	105.865
September	130.393	111.185
October	136.848	117.840
January–October	127.697	108.409

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					
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
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
August	90.90	76.50	77.00	79.50	80.10
September	99.00	76.25	77.00	78.00	77.13
October	104.00	77.20	78.20	79.10	76.90
January–October	88.95	74.85	76.99	78.70	76.60

Table 8. U.S. imports for consumption of aluminum in October 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	
	October	January–October	October	January–October	October	January–October	October	January–October
Argentina	1,780	138,000	0	22	0	0	1,780	138,000
Australia	4,690	68,800	45	322	0	0	4,730	69,100
Austria	0	5	2,640	21,700	2	33	2,640	21,700
Bahrain	11,300	83,600	3,470	35,900	0	0	14,800	119,000
Belgium	20	122	1,230	17,600	112	188	1,360	17,900
Brazil	0	5	10	28,000	74	5,930	84	33,900
Canada	241,000	2,320,000	19,300	187,000	34,300	340,000	295,000	2,850,000
Chile	0	0	0	19	248	1,970	248	1,990
China ²	20	551	11,700	132,000	25	282	11,700	133,000
Colombia	0	0	420	4,460	599	6,440	1,020	10,900
Costa Rica	0	0	27	585	279	1,250	305	1,830
France	993	8,510	98	6,980	18	178	1,110	15,700
Germany	0	510	1,230	15,600	659	6,610	1,890	22,700
Greece	0	0	3,650	32,600	4	108	3,660	32,700
Guatemala	0	0	2	20	1,090	10,300	1,090	10,300
Honduras	0	0	816	7,300	143	1,130	959	8,440
India	4,700	55,100	2,430	26,400	0	(³)	7,130	81,500
Indonesia	0	822	694	10,600	0	0	694	11,400
Italy	394	2,940	985	11,600	0	60	1,380	14,600
Japan	0	4	704	13,100	87	433	791	13,600
Korea, Republic of	96	6,710	15,100	147,000	0	27	15,200	154,000
Malaysia	0	0	1,270	12,500	0	2	1,270	12,500
Mexico	310	3,420	4,250	45,400	21,200	184,000	25,800	233,000
Netherlands	65	1,090	56	824	0	93	121	2,010
New Zealand	0	4,020	(³)	3	0	0	0	4,020
Norway	19	2,400	614	8,070	0	0	634	10,500
Oman	0	0	5,240	49,200	0	0	5,240	49,200
Qatar	2,540	37,600	(³)	24	0	0	2,540	37,600
Romania	0	0	519	1,170	186	224	705	1,390
Russia	0	0	0	26	0	0	0	26
Saudi Arabia	0	0	1,240	7,790	0	0	1,240	7,790
South Africa	0	121	449	11,100	0	101	449	11,300
Spain	246	2,530	1,510	11,600	40	232	1,790	14,400
Sweden	0	0	1,060	9,350	0	0	1,060	9,350
Switzerland	0	0	52	4,170	0	0	52	4,170
Taiwan	0	182	348	2,870	18	74	366	3,130
Thailand	175	1,830	3,340	26,200	0	14	3,510	28,100
Turkey	137	572	2,130	24,200	0	0	2,270	24,800
United Arab Emirates	28,300	296,000	441	2,720	0	102	28,700	299,000
United Kingdom	1	126	807	9,970	0	477	807	10,600
Vietnam	0	0	1,320	32,400	0	10	1,320	32,400
Other	0	80	7,010	70,000	2,630	20,100	9,640	90,100
Total	297,000	3,040,000	96,200	1,030,000	61,700	581,000	455,000	4,650,000

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

Table 9. U.S. exports of aluminum in October 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	
	October	January–October	October	January–October	October	January–October	October	January–October
Australia	39	538	69	1,580	0	0	108	2,120
Belgium	0	2	118	2,010	1,250	6,980	1,370	8,990
Brazil	0	2	257	2,820	237	3,490	495	6,310
Canada	5,820	55,900	12,600	260,000	11,200	110,000	29,700	426,000
China ²	90	2,790	895	11,000	28,900	186,000	29,900	199,000
Colombia	0	101	8	403	20	529	28	1,030
Dominican Republic	0	(³)	18	335	726	4,730	743	5,070
France	503	5,060	621	8,880	154	2,030	1,280	16,000
Germany	837	3,580	477	4,670	158	1,660	1,470	9,900
Guatemala	0	1	11	94	0	0	11	95
India	37	1,080	285	3,960	26,500	346,000	26,800	351,000
Indonesia	0	36	2	50	6,450	41,200	6,450	41,200
Ireland	0	2	12	217	0	806	12	1,030
Israel	9	18	840	6,550	0	0	849	6,560
Italy	(³)	145	145	1,900	214	6,210	359	8,260
Jamaica	0	7	0	84	0	0	0	91
Japan	199	1,520	1,180	11,400	2,540	24,800	3,910	37,700
Korea, Republic of	438	2,730	1,790	21,100	14,900	197,000	17,100	221,000
Malaysia	24,100	286,000	220	3,260	28,200	310,000	52,500	599,000
Mexico	14,500	151,000	26,800	265,000	13,100	119,000	54,400	535,000
Netherlands	(³)	483	25	395	547	6,360	573	7,240
New Zealand	0	10	29	521	0	0	29	531
Norway	(³)	91	3	18	0	621	4	729
Pakistan	111	1,340	1	10	1,820	16,600	1,940	17,900
Panama	0	6	2	29	0	0	2	35
Philippines	0	164	41	254	54	903	95	1,320
Poland	0	15	54	943	0	23	54	981
Romania	(³)	(³)	20	1,070	0	0	20	1,070
Saudi Arabia	0	2	16	200	0	0	16	202
Singapore	86	2,320	134	1,240	65	200	285	3,760
Spain	0	13	66	1,660	755	6,570	820	8,250
Taiwan	35	307	201	3,180	1,950	31,600	2,190	35,100
Thailand	909	6,880	78	916	31,300	273,000	32,300	281,000
Turkey	0	6	313	3,350	86	699	400	4,060
United Arab Emirates	0	73	7	489	40	2,060	46	2,630
United Kingdom	(³)	68	758	7,380	0	741	758	8,190
Vietnam	0	903	133	982	1,860	15,700	1,990	17,600
Other	21	1,490	281	3,680	734	11,700	1,040	16,900
Total	47,700	525,000	48,500	632,000	174,000	1,730,000	270,000	2,880,000

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