

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 OCTOBER 2022

Domestic primary aluminum production in October 2022 was 64,000 metric tons (t). The average daily production in October 2022 was 2,050 t, slightly more than that in September 2022, 17% less than that in October 2021, and 15% less than that in October 2020 (fig. 1, table 1).

Total aluminum recovered from scrap in October 2022 was 283,000 t, essentially unchanged than that in September 2022, slightly more than that in October 2021, and 6% more than that in October 2020. Of this, 154,000 t of aluminum was recovered from new scrap, and 129,000 t was recovered from old scrap (fig. 1, table 1).

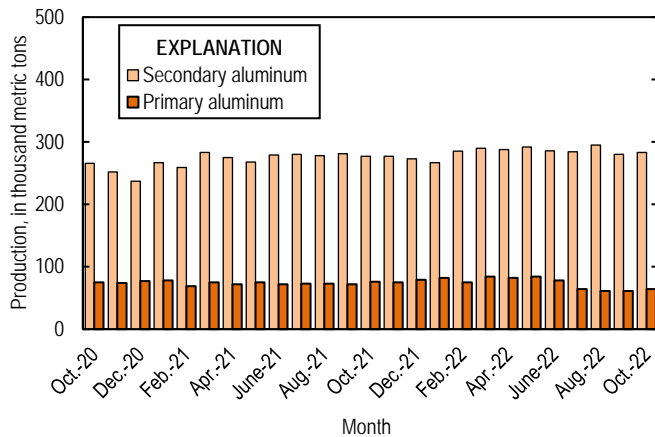


Figure 1. Monthly domestic primary and secondary aluminum production from October 2020 through October 2022.

Prices and Stocks

The October 2022 average U.S. spot market price of primary aluminum ingot was \$1.23 per pound, slightly less than that in September 2022, 27% less than that in October 2021, and 30% more than that in October 2020. The average cash price in October 2022 of primary aluminum ingot on the London Metal Exchange (LME) was \$1.02 per pound, essentially unchanged than that in September 2022, 24% less than that in October 2021, and 24% more than that in October 2020 (fig. 2, table 6).

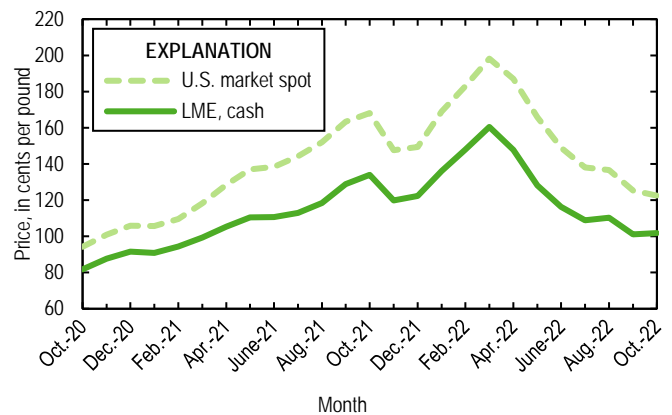


Figure 2. Average monthly prices for primary aluminum from October 2020 through October 2022. Source: S&P Global Platts Metals Week.

Inventories of primary aluminum in LME-approved warehouses, including off-warrant inventories, in the United States decreased to 12,532 t at the end of October 2022 from 15,587 t at the end of September 2022. Inventories of secondary aluminum (North American Secondary Aluminum Alloy Contract) in LME-approved warehouses, including off-warrant inventories, in the United States decreased to 3,917 t at the end of October 2022 from 4,277 t at the end of September 2022 (London Metal Exchange Ltd., 2022a, b, c, d).

References Cited

London Metal Exchange Ltd., 2022a, Primary aluminium stocks: London, United Kingdom, London Metal Exchange Ltd., September 30, 4 p.
 London Metal Exchange Ltd., 2022b, Primary aluminium stocks: London, United Kingdom, London Metal Exchange Ltd., October 31, 4 p.
 London Metal Exchange Ltd., 2022c, Off-warrant stock reporting—September 2022: London, United Kingdom, London Metal Exchange Ltd., November 10, 1 p. (Accessed November 15, 2022, via <https://www.lme.com/en/Market-data/Reports-and-data/Warehouse-and-stocks-reports/Off-warrant-stock-reporting>.)
 London Metal Exchange Ltd., 2022d, Off-warrant stock reporting—October 2022: London, United Kingdom, London Metal Exchange Ltd., December

10, 1 p. (Accessed December 19, 2022, via <https://www.lme.com/en/Market-data/Reports-and-data/Warehouse-and-stocks-reports/Off-warrant-stock-reporting>.)

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 SUPPLY¹

(Thousand metric tons)

Period	Primary production	Secondary recovery ⁴			Imports for consumption			Total new supply ²	Stocks, end of period ³
		New	Old	Total	Metals and alloys, crude	Plates, sheets, bars, etc.	Total		
2021 ^P	889	1,780	1,520	3,300	3,630	1,290	4,920	9,110	1,860
2021:									
October	76	149	127	277	339	107	446	799	1,780
November	75	151	126	277	338	119	457	809	1,820
December	79	146	127	273	316	109	425	777	1,860
January–October	734	1,480 ^r	1,260 ^r	2,750 ^r	2,970	1,070	4,040	7,520 ^r	NA
2022:									
January	82	152	115	267	343	112	455	804	1,880
February	75	159	126	285	262	107	369	729	1,900
March	84	159	132	290	341	129	470	844	1,910
April	82	155	132	288	331	125	456	826	1,910
May	84	162	130	292	404	144	548	923	1,880
June	78	154	132	286	460	124	583	948	1,910
July	64	150	134	284	345	129	474	822	1,940 ^r
August	61	162	132	295	360	130	491	847	1,980 ^r
September	61	152	128	280	317	128	444	785 ^r	1,980
October	64	153	129	283	322	125	446	792	NA
January–October	735	1,560	1,290	2,850	3,480	1,250	4,740	8,320	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.

TABLE 2
ESTIMATED FULL COVERAGE CONSUMPTION OF AND METALLIC RECOVERY FROM
PURCHASED NEW AND OLD ALUMINUM SCRAP¹

(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
	2021 ^P	2,320	1,750	1,590	1,450	101	93	4	4	4,020
2021:										
October	195	146	134	122	8	8	(2)	(2)	338	277
November	196	147	133	122	8	8	(2)	(2)	338	277
December	194	146	130	119	8	8	(2)	(2)	333	273
January–October	1,930 ^r	1,450 ^r	1,330	1,210	84	77	3	3	3,350 ^r	2,750 ^r
2022:										
January	195	146	123	113	8	8	(2)	(2)	327	267
February	193	145	144	132	8	8	(2)	(2)	346	285
March	200	149	145	133	8	8	(2)	(2)	354	290
April	199	149	143	130	8	8	(2)	(2)	351	288
May	201	150	146	134	8	8	(2)	(2)	356	292
June	202	151	140	127	8	8	(2)	(2)	351	286
July	199	148	141	128	8	8	(2)	(2)	348	284
August	202	152	148	135	8	8	(2)	(2)	358	295
September	201	149	137	125	8	8	(2)	(2)	347	281
October	205	152	136	124	8	8	(2)	(2)	349	284
January–October	2,000	1,490	1,400	1,280	84	77	3	3	3,490	2,850

^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 OCTOBER 2022¹

(Metric tons)

	Consumption		Calculated metallic recovery	
	Tabulated reports	Estimated full coverage	Tabulated reports	Estimated full coverage
Secondary smelters	171,000	205,000	127,000	152,000
Independent mill fabricators	123,000	136,000	111,000	124,000
Foundries	7,040	8,450	6,440	7,730
Other consumers	273	328	273	328
Total	300,000	349,000	245,000	284,000

¹Data 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 OCTOBER 2022¹

(Metric tons)

	October			January–October ²		
	Stocks, opening ²	Net receipts ³	Melted or consumed	Stocks, closing	Net receipts ³	Melted or consumed
New scrap:						
Extrusion	18,700	36,100	36,100	18,700	408,000	409,000
Can stock clippings	10,500	27,900	27,900	10,500	296,000	296,000
Other wrought sheet/clippings	8,110	39,200	39,200	8,040	368,000	368,000
Casting	5,920	7,410	7,410	5,920	79,600	79,600
Borings and turnings	5,270	14,200	14,200	5,270	135,000	135,000
Dross and skimmings ⁴	18,500	47,600	47,600	18,500	453,000	453,000
Total new scrap	67,000	172,000	172,000	66,900	1,740,000	1,740,000
Old scrap:						
Used castings	8,160	27,300	27,300	8,160	276,000	276,000
Used extrusion	7,840	16,700	16,700	7,840	172,000	172,000
Used cans (shredded, loose, baled)	7,850	45,500	45,500	7,850	442,000	442,000
Other wrought products	19,100	25,000	25,000	19,100	253,000	253,000
Fragmentized shredder (auto shredder)	5,970	12,200	12,200	5,970	122,000	122,000
Total old scrap	48,900	127,000	127,000	48,900	1,270,000	1,270,000
Total all classes	116,000	299,000	299,000	116,000	3,010,000	3,010,000

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
ALUMINUM ALLOYS PRODUCED AT SECONDARY SMELTERS IN THE UNITED
STATES IN OCTOBER 2022^{1,2}

(Metric tons)

	October				January–October	
	Stocks, opening ³	Production	Net shipments	Stocks, closing	Production	Net shipments
Die-cast alloys:						
13% Si, 360, etc. (0.6% Cu, max.)	2,570	2,870	2,870	2,570	28,700	28,700
380 and variations	7,970	18,900	18,900	7,970	189,000	189,000
Sand and permanent mold:						
95/5 Al-Si, 356, etc. (0.6% Cu, max.)	1,950	2,830	2,830	1,950	28,300	28,300
No. 319 and variations	2,230	2,000	2,000	2,230	20,000	20,000
F-132 alloy and variations	143	221	221	143	2,210	2,210
Al-Zn alloys	172	85	85	172	851	851
Al-Si alloys (0.6% to 2.0% Cu)	101	166	166	101	1,660	1,660
Al-Cu alloys (1.5% Si, max.)	405	564	564	405	5,640	5,640
Other ⁴	7,250	8,250	8,250	7,250	82,500	82,500
Wrought alloys, extrusion billets	10,700	54,800	54,800	10,700	556,000	556,000
Total all alloys	33,400	90,700	90,700	33,400	915,000	915,000
Less:						
Primary aluminum consumed	XX	16,600	XX	XX	170,000	XX
Primary silicon consumed	XX	1,680	XX	XX	16,800	XX
Other alloying ingredients consumed	XX	791	XX	XX	7,980	XX
Net metallic recovery from aluminum scrap consumed in production of secondary aluminum ingot⁵						
	XX	71,600	XX	XX	721,000	XX

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)

Period	Midwest U.S. market price	LME cash price Grade A
2021:		
October	168.110	134.028
November	147.557	119.796
December	149.417	122.237
January–December	138.511	112.281
2022:		
January	169.020	136.197
February	182.873	147.883
March	198.185	160.448
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
January–October	157.455	125.868

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)
2021:					
October	87.50	80.63	72.25	71.25	67.75
November	84.00	78.00	70.50	70.00	68.00
December	85.70	74.60	70.50	70.00	70.40
January–December	76.50	73.03	67.87	68.39	67.16
2022:					
January	99.38	77.75	72.75	72.13	71.75
February	111.63	81.75	78.50	76.13	74.00
March	129.30	86.10	86.20	83.70	79.20
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

Source: Fastmarkets–AMM.

TABLE 8
U.S. IMPORTS FOR CONSUMPTION OF ALUMINUM IN OCTOBER 2022¹

(Metric tons)

Country or locality	Metals and alloys, crude		Plates, sheets, bars, etc.		Scrap		Total	
	October	January– October	October	January– October	October	January– October	October	January– October
Argentina	17,200	132,000	65	292	--	--	17,300	132,000
Australia	7,440	173,000	40	297	--	--	7,480	173,000
Austria	--	25	3,560	30,400	12	67	3,570	30,500
Bahrain	15,900	228,000	3,000	44,600	--	2	18,900	272,000
Belgium	20	268	1,380	10,600	--	--	1,400	10,800
Brazil	1,400	27,200	6,540	13,300	37	4,950	7,980	45,400
Canada	205,000	2,130,000	17,400	171,000	34,400	321,000	256,000	2,620,000
Chile	--	--	--	2	82	1,620	82	1,620
China ²	54	1,380	18,300	186,000	--	432	18,400	188,000
Colombia	--	--	291	2,920	610	4,860	901	7,780
Costa Rica	--	--	--	123	94	2,020	94	2,140
France	316	2,150	558	5,080	16	176	890	7,400
Germany	257	2,050	3,860	34,100	266	1,580	4,380	37,800
Greece	--	--	3,730	24,500	52	224	3,780	24,800
Guatemala	--	--	20	39	393	6,860	413	6,900
Honduras	--	--	175	2,410	130	1,670	305	4,080
India	7,120	88,200	2,500	16,800	--	1	9,620	105,000
Indonesia	--	922	1,700	12,500	--	--	1,700	13,400
Italy	29	1,350	1,130	11,300	--	4	1,160	12,700
Japan	2	3	2,560	43,200	--	66	2,560	43,300
Korea, Republic of	373	23,100	8,310	103,000	--	66	8,690	126,000
Malaysia	20	224	1,560	11,500	--	--	1,580	11,700
Mexico	848	12,600	6,250	71,700	15,400	179,000	22,400	263,000
Netherlands	53	652	225	2,080	4	1,070	282	3,800
Norway	1,530	5,060	997	9,060	--	--	2,530	14,100
Oman	--	624	9,980	102,000	--	--	9,980	103,000
Qatar	14,500	68,600	24	86	--	--	14,500	68,700
Romania	--	--	3	812	--	--	3	812
Russia	--	165,000	132	6,480	--	--	132	172,000
Saudi Arabia	839	839	2,960	27,000	--	--	3,800	27,900
South Africa	20	2,960	3,470	37,200	--	2,170	3,490	42,300
Spain	177	2,040	1,060	9,730	--	1	1,240	11,800
Sweden	--	4,970	864	9,160	--	--	864	14,100
Switzerland	--	89	858	5,950	--	99	858	6,140
Taiwan	--	162	338	4,700	--	3	338	4,870
Thailand	--	1,790	8,890	87,400	34	186	8,920	89,400
Turkey	434	13,000	3,050	41,900	--	(3)	3,480	54,900
United Arab Emirates	48,400	396,000	116	7,760	--	97	48,500	404,000
United Kingdom	--	48	1,010	13,800	(3)	117	1,010	14,000
Vietnam	16	25	2,300	33,300	--	22	2,310	33,400
Other	164	228	5,300	58,100	880	17,900	6,340	76,200
Total	322,000	3,480,000	125,000	1,250,000	52,400	546,000	499,000	5,280,000

-- Zero.

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

²Includes Hong Kong.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 9
U.S. EXPORTS OF ALUMINUM IN OCTOBER 2022¹

(Metric tons)

Country or locality	Metals and alloys, crude		Plates, sheets, bars, etc.		Scrap		Total	
	October	January– October	October	January– October	October	January– October	October	January– October
Australia	52	852	287	1,720	--	--	339	2,570
Belgium	--	8	129	1,120	563	15,500	692	16,600
Brazil	16	48	616	3,970	172	923	804	4,940
Canada	5,810	56,600	26,000	268,000	10,700	101,000	42,500	426,000
China ²	71	1,600	1,120	11,300	8,080	129,000	9,270	142,000
Colombia	--	31	38	315	382	1,740	420	2,090
Dominican Republic	--	5	2	322	193	2,380	195	2,710
France	1,090	4,490	510	8,030	99	789	1,700	13,300
Germany	1,560	4,080	514	6,310	21	4,530	2,100	14,900
Guatemala	--	1	19	96	--	2	19	99
India	43	578	251	1,900	40,800	397,000	41,100	399,000
Indonesia	--	3	1	52	5,850	55,300	5,850	55,300
Ireland	1	43	163	1,140	--	--	164	1,180
Israel	--	2	715	5,980	--	(3)	715	5,980
Italy	--	69	168	1,390	989	11,300	1,160	12,800
Jamaica	1	27	1	16	--	--	2	43
Japan	150	1,080	774	7,910	2,530	22,600	3,460	31,600
Korea, Republic of	169	1,210	2,250	15,400	23,800	241,000	26,300	258,000
Malaysia	6,900	38,300	485	5,650	37,700	329,000	45,100	373,000
Mexico	14,900	137,000	24,000	236,000	16,100	170,000	55,000	542,000
Netherlands	5	60	76	459	611	6,230	692	6,750
New Zealand	8	11	97	940	--	--	105	951
Norway	--	8	4	28	36	36	40	72
Pakistan	22	22	4	49	1,490	14,400	1,520	14,500
Panama	--	2	2	56	--	40	2	98
Philippines	--	4	23	231	485	5,230	508	5,460
Poland	--	14	105	807	(3)	11	105	832
Romania	(3)	(3)	297	3,200	--	--	297	3,200
Russia	--	--	(3)	8	--	2,720	(3)	2,730
Saudi Arabia	(3)	(3)	10	50	--	--	10	50
Singapore	65	419	410	4,440	--	721	475	5,580
Spain	1	1	124	525	425	4,520	550	5,050
Taiwan	106	1,080	286	5,560	4,860	33,100	5,250	39,700
Thailand	(3)	93	86	1,220	12,200	88,700	12,300	90,000
Turkey	--	3	317	2,430	246	12,300	563	14,800
United Arab Emirates	--	45	335	4,740	337	4,490	672	9,280
United Kingdom	20	539	599	8,310	21	1,990	640	10,800
Vietnam	--	3	38	2,510	1,760	12,000	1,790	14,500
Other	16	636	450	4,540	1,100	14,600	1,570	19,700
Total	31,000	248,000	61,300	617,000	172,000	1,680,000	264,000	2,550,000

-- Zero.

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

²Includes Hong Kong.

³Less than ½ unit.

Source: U.S. Census Bureau.