

# Mineral Industry Surveys

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## ALUMINUM IN NOVEMBER 2020

Domestic primary aluminum production in November 2020 was 74,000 metric tons (t). The average daily production in November 2020 was 2,450 t, slightly less than that in October 2020, 18% less than that in November 2019, and 16% less than that in November 2018 (fig. 1, table 1).

Total aluminum recovered from scrap in November 2020 was 264,000 t, 5% less than that in October 2020, 5% less than that in November 2019, and 13% less than that in November 2018. Of this, 141,000 t of aluminum was recovered from new scrap, and 122,000 t was recovered from old scrap (fig. 1, table 1).

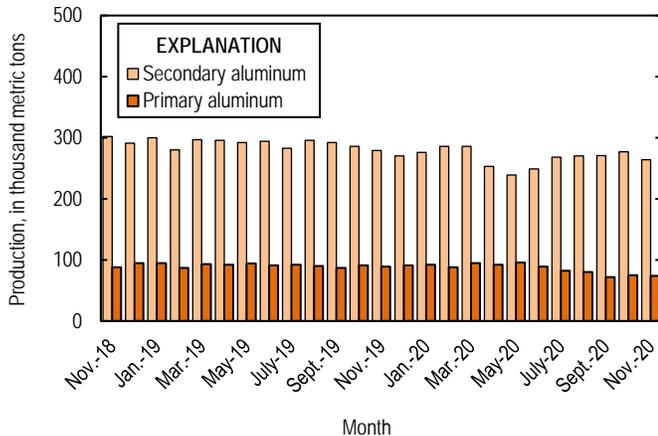


Figure 1. Monthly domestic primary and secondary aluminum production from November 2018 through November 2020.

**Prices and Stocks**

The November 2020 average U.S. spot market price of primary aluminum ingot was \$1.01 per pound, 7% more than that in October 2020, 5% more than that in November 2019, but 6% less than that in November 2018. The average cash price in November 2020 of primary aluminum ingot on the London Metal Exchange (LME) was \$0.876 per pound, 7% more than that in October 2020, 9% more than that in November 2019, but essentially unchanged from that in November 2018 (fig. 2, table 6).

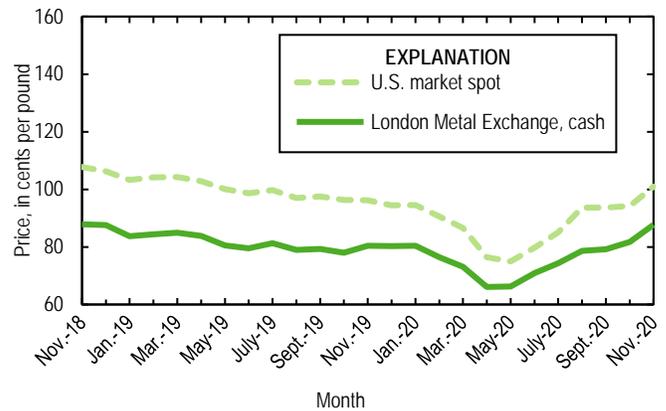


Figure 2. Average monthly prices for primary aluminum from November 2018 through November 2020. Source: S&P Global Platts Metals Week.

Inventories of primary aluminum in LME-approved warehouses, including off-warrant inventories, in the United States decreased to 210,981 t at the end of November from 212,748 t at the end of October. Inventories of secondary aluminum (North American Secondary Aluminum Alloy Contract) in LME-approved warehouses, including off-warrant inventories, in the United States decreased to 27,742 t at the end of November from 30,043 t at the end of October (London Metal Exchange Ltd., 2020a-c; 2021).

**Update**

On the morning of January 20, 2021, the President of the United States announced an exemption from the 10% tariff on aluminum imports from the United Arab Emirates. The tariff on aluminum imports into the United States was imposed on March 23, 2018 under authority of Section 232 of the Trade Expansion Act of 1962. Tariff exemptions were previously granted for aluminum imports from Argentina, Australia, Canada, and Mexico. The exemption for imports from the United Arab Emirates will be effective February 3, 2021 (Roh, 2021b; Shalal, 2021).

On December 15, 2020, approximately 400 employees represented by the United Steelworkers union went on strike at a secondary smelter and rolling mill in Muscle Shoals, AL. A dispute over terms of a new labor contract was cited for the strike. The smelter and rolling mill, owned by Constellium SE, recycled used beverage cans and other scrap to produce can sheet and other types of aluminum sheet. On January 11, 2021, the employees voted to accept five-year contract offer and returned to work the next day. During the labor dispute production continued at a lower rate by approximately 800 workers not involved in the dispute (Roh, 2020; 2021a).

Matalco Inc. completed construction of a new secondary aluminum smelter in Wisconsin Rapids, WI, and started production on November 19. The smelter capacity was approximately 110,000 metric tons per year (t/yr) and its products included extrusion billet and rolling slab (Coyne, 2020).

In October, Alumino Argentina Ltd. (Aluar) restarted capacity at its primary aluminum smelter in Puerto Madryn, Argentina that was shut down in March in response to the COVID-19 pandemic. The 460,000-t/yr smelter decreased the production rate to one-half of its capacity in March. (See Aluminum in January 2020). By the end of December, approximately 70% of the smelting capacity was producing and Aluar planned to be producing at 75% of capacity by the end of January. Increased demand from Brazil was cited for the capacity restart (Rostas, 2021).

ELYSIS Corp., a joint venture between Alcoa Corp. and Rio Tinto plc., completed construction of its research and development smelter in Saguenay, Quebec, Canada in December. Construction on the smelter started in August 2019. The smelter was designed to produce primary aluminum using an inert anode instead of a carbon anode and would eliminate direct carbon emissions from carbon dioxide and fluorocarbons. Commissioning of the facility was scheduled for completion in the first half of 2021. Capacity of the smelter was not available (ELYSIS Corp., 2020; Hotter, 2020).

The Government of Brazil set the 2021 quota of aluminum imports exempt from a 6% tariff at 262,000 t. Since 2014, the Government of Brazil has eliminated the tariff for a limited amount of aluminum during a specific time, citing the shutdown of smelting capacity caused by high power prices and other issues. In 2020, the initial quota was 150,000 t and in October the quota was increased by an additional 30,000 t as demand increased (Rostas, 2020).

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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		
2019 <sup>p</sup>	1,093	1,920	1,540	3,470	3,800	1,490	5,290	9,840	1,600
2019:									
November	89	150	128	279	302	106	408	776	1,600
December	91	149	121	270	317	95	412	773	1,600
January–November	1,001	1,780 <sup>r</sup>	1,420 <sup>r</sup>	3,200 <sup>r</sup>	3,480 <sup>r</sup>	1,400 <sup>r</sup>	4,870 <sup>r</sup>	9,070 <sup>r</sup>	1,600
2020:									
January	92	151	125	276	347	111	458	826	1,650
February	88	161	124	286	261	93	354	728	1,580
March	95	158	127	286	308	102	410	791	1,590
April	92	133	120	253	338	87	425	770	1,590
May	96	128	111	239	316	80	396	730	1,530
June	89	132	117	249	262	88	350	688	1,430
July	82	146	122	268	253	84	337	687	1,410
August	80	144	126	270	270	85	355	705	1,410
September	72	147	124	271	214	79	293	636	1,400
October	75	150	127	277	231	80	311	663	1,450
November	74	141	122	264	241	80	321	659	NA
January–November	935	1,590	1,340	2,940	3,040	969	4,010	7,880	NA

<sup>p</sup>Preliminary. NA Not available. <sup>r</sup>Revised.

<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
2019 <sup>p</sup>	2,300	1,750	1,770	1,620	101	93	4	4	4,180	3,470
2019:										
November	193	147	136	124	8	8	(2)	(2)	338	279
December	187	144	129	118	8	8	(2)	(2)	326	270
January–November	2,110 <sup>r</sup>	1,610 <sup>r</sup>	1,640	1,500	93	85	4	4	3,850 <sup>r</sup>	3,200 <sup>r</sup>
2020:										
January	189	144	135	124	8	8	(2)	(2)	333	276
February	189	144	145	134	8	8	(2)	(2)	343	286
March	191	145	147	135	6	5	(2)	(2)	344	286
April	182	140	119	108	6	5	(2)	(2)	307	253
May	174	135	108	98	6	5	(2)	(2)	289	239
June	175	136	118	107	6	5	(2)	(2)	300	249
July	182	139	132	120	8	8	(2)	(2)	323	268
August	184	141	133	121	8	8	(2)	(2)	326	270
September	187	143	132	121	8	8	(2)	(2)	328	271
October	189	145	136	124	8	8	(2)	(2)	334	277
November	186	141	126	114	8	8	(2)	(2)	320	264
January–November	2,030	1,550	1,430	1,310	80	76	4	4	3,550	2,940

<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 NOVEMBER 2020<sup>1</sup>

(Metric tons)

	Consumption		Calculated metallic recovery	
	Tabulated reports	Estimated full coverage	Tabulated reports	Estimated full coverage
Secondary smelters	155,000	186,000	118,000	141,000
Independent mill fabricators	113,000	126,000	103,000	114,000
Foundries	7,040	8,450	6,440	7,730
Other consumers	273	328	273	328
Total	275,000	320,000	227,000	264,000

<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 NOVEMBER 2020<sup>1</sup>

(Metric tons)

	November				January–November <sup>2</sup>	
	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	20,300	39,500	39,400	20,400	459,000	459,000
Can stock clippings	4,480	23,600	23,400	4,590	274,000	274,000
Other wrought sheet/clippings	7,710	31,700	33,100	6,360	366,000	373,000
Casting	3,550	5,960	5,960	3,550	64,300	64,300
Borings and turnings	4,770	15,600	15,500	4,890	162,000	162,000
Dross and skimmings	10,900	38,400	38,400	10,900	407,000	407,000
Total new scrap	51,700	155,000	156,000	50,700	1,730,000	1,740,000
Old scrap:						
Used castings	7,380	28,000	28,000	7,380	292,000	292,000
Used extrusion	7,320	17,600	17,600	7,320	193,000	193,000
Used cans (shredded, loose, baled)	9,180	39,800	39,700	9,290	436,000	436,000
Other wrought products	4,280	22,800	21,700	5,370	248,000	256,000
Fragmentized shredder (auto shredder)	4,140	12,200	12,100	4,300	131,000	130,000
Total old scrap	32,300	120,000	119,000	33,700	1,300,000	1,310,000
Total all classes	84,000	275,000	275,000	84,300	3,030,000	3,050,000

<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.

TABLE 5  
ALUMINUM ALLOYS PRODUCED AT SECONDARY SMELTERS IN THE UNITED  
STATES IN NOVEMBER 2020<sup>1,2</sup>

(Metric tons)

	November			January–November <sup>3</sup>		
	Stocks, opening <sup>3</sup>	Production	Net shipments	Stocks, closing	Production	Net shipments
<b>Die-cast alloys:</b>						
13% Si, 360, etc. (0.6% Cu, max.)	3,270	2,440	2,440	3,270	23,000	23,000
380 and variations	8,820	19,300	19,300	8,820	182,000	182,000
<b>Sand and permanent mold:</b>						
95/5 Al-Si, 356, etc. (0.6% Cu, max.)	2,180	3,020	3,020	2,180	28,400	28,400
No. 319 and variations	3,820	3,850	3,850	3,820	36,200	36,200
F-132 alloy and variations	182	249	249	182	2,340	2,340
Al-Zn alloys	467	81	81	467	762	762
Al-Si alloys (0.6% to 2.0% Cu)	219	133	133	219	1,250	1,250
Al-Cu alloys (1.5% Si, max.)	318	245	245	318	2,300	2,300
Other <sup>4</sup>	7,560	10,000	10,000	7,560	94,200	94,200
Wrought alloys, extrusion billets	10,400	45,000	45,000	10,400	423,000	423,000
Total all alloys	37,200	84,400	84,400	37,200	793,000	793,000
<b>Less:</b>						
Primary aluminum consumed	XX	15,600	XX	XX	146,000	XX
Primary silicon consumed	XX	1,810	XX	XX	17,000	XX
Other alloying ingredients consumed	XX	795	XX	XX	7,470	XX
Net metallic recovery from aluminum scrap consumed in production of secondary aluminum ingot <sup>5</sup>	XX	66,200	XX	XX	622,000	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
2019:		
November	96.236	80.375
December	94.488	80.288
January–December	99.537	81.256
2020:		
January	94.545	80.351
February	90.540	76.451
March	86.591	73.070
April	76.450	66.095
May	74.961	66.215
June	79.682	70.943
July	85.022	74.360
August	93.613	78.648
September	93.627	79.167
October	94.236	81.774
November	100.921	87.639
January–November	88.199	75.883

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)
2019:					
November	53.24	39.00	33.74	33.24	26.50
December	53.12	39.00	35.48	34.98	27.12
January–December	54.95	45.96	40.88	39.85	33.59
2020:					
January	53.40	40.10	37.38	37.07	29.62
February	51.66	42.16	39.29	39.24	33.82
March	50.02	41.80	38.95	39.95	35.18
April	40.79	37.12	32.45	34.17	30.21
May	39.80	36.80	32.35	33.80	29.25
June	44.77	37.50	35.39	35.77	29.91
July	47.45	40.09	37.86	37.20	31.23
August	48.40	42.69	40.52	39.60	34.64
September	50.93	46.10	43.90	43.60	37.88
October	52.18	48.18	46.73	47.00	40.55
November	56.55	51.45	51.42	51.76	46.06
January–November	48.72	42.18	39.66	39.92	34.40

Source: Fastmarket-AMM.

TABLE 8  
U.S. IMPORTS FOR CONSUMPTION OF ALUMINUM IN NOVEMBER 2020<sup>1</sup>

(Metric tons)

Country or locality	Metals and alloys, crude		Plates, sheets, bars, etc		Scrap		Total	
	November	January– November	November	January– November	November	January– November	November	January– November
Argentina	10,100	148,000	--	3	--	--	10,100	148,000
Australia	8,690	82,200	8	368	--	19	8,700	82,600
Austria	--	--	2,170	22,300	--	--	2,170	22,300
Bahrain	4,160	67,100	41	17,700	--	--	4,200	84,800
Belgium	39	150	615	5,130	--	--	654	5,280
Brazil	--	--	2	9,070	492	6,730	494	15,800
Canada	157,000	2,140,000	20,400	193,000	35,000	322,000	213,000	2,660,000
Chile	--	--	--	--	122	1,740	122	1,740
China	5	732	9,500	107,000	20	114	9,520	108,000
Colombia	--	--	488	6,040	160	772	648	6,810
Costa Rica	--	--	11	17	265	1,690	276	1,710
France	107	2,210	182	10,300	12	832	301	13,300
Germany	57	517	3,850	58,500	220	2,610	4,130	61,600
Greece	1	1	704	14,600	1	18	706	14,700
Guatemala	--	--	31	44	629	4,240	660	4,280
Honduras	--	--	383	4,650	39	118	422	4,770
Hong Kong	--	--	236	1,930	6	6	242	1,930
Iceland	--	566	--	--	--	--	--	566
India	6,930	88,500	576	21,900	--	343	7,500	111,000
Indonesia	--	--	1,010	18,800	--	--	1,010	18,800
Italy	--	296	1,090	19,400	1	1,010	1,090	20,700
Japan	--	--	1,310	12,700	20	748	1,330	13,500
Korea, Republic of	942	11,900	1,520	24,500	206	3,070	2,670	39,500
Malaysia	--	224	1,070	7,470	--	24	1,070	7,720
Mexico	304	410	4,220	31,800	10,600	130,000	15,100	163,000
Netherlands	105	1,020	120	4,940	297	1,330	522	7,290
New Zealand	--	6,850	--	6	--	--	--	6,850
Norway	--	155	836	3,390	--	--	836	3,540
Oman	--	99	4,400	58,000	--	--	4,400	58,100
Qatar	8,650	64,000	64	181	--	--	8,720	64,200
Romania	--	--	187	6,000	--	36	187	6,030
Russia	9,650	102,000	1,720	19,200	--	39	11,400	122,000
Saudi Arabia	--	5,450	6,710	66,100	--	--	6,710	71,500
South Africa	20	4,490	3,380	31,500	--	--	3,400	36,000
Spain	87	996	692	20,000	140	656	919	21,700
Sweden	--	--	481	6,230	--	7	481	6,240
Switzerland	--	--	626	5,560	--	--	626	5,560
Taiwan	--	344	541	23,800	2	252	543	24,400
Thailand	69	939	753	30,100	--	285	822	31,300
Turkey	--	8	1,400	37,900	--	--	1,400	37,900
United Arab Emirates	33,900	307,000	153	1,700	--	35	34,100	309,000
United Kingdom	--	329	965	4,480	543	3,430	1,510	8,240
Venezuela	--	25	--	--	--	--	--	25
Vietnam	--	--	2,520	21,300	3	13	2,520	21,300
Other	--	133	4,590	41,600	768	10,200	5,360	51,900
Total	241,000	3,040,000	79,500	969,000	49,600	493,000	370,000	4,500,000

-- Zero.

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

Source: U.S. Census Bureau.

TABLE 9  
U.S. EXPORTS OF ALUMINUM IN NOVEMBER 2020<sup>1</sup>

(Metric tons)

Country or locality	Metals and alloys, crude		Plates, sheets, bars, etc.		Scrap		Total	
	November	January– November	November	January– November	November	January– November	November	January– November
Australia	85	577	49	1,780	--	--	134	2,360
Belgium	--	25	25	225	487	6,240	512	6,490
Brazil	--	57	102	2,680	1,030	4,580	1,140	7,320
Canada	4,080	71,400	25,200	274,000	6,540	66,700	35,800	413,000
China	221	1,630	1,500	18,700	3,540	151,000	5,260	172,000
Colombia	--	6	70	695	--	151	70	852
Dominican Republic	--	10	3	256	192	433	195	699
France	1	338	337	6,350	49	1,080	387	7,770
Germany	1	250	161	4,790	259	8,140	421	13,200
Guatemala	--	3	13	61	--	--	13	64
Hong Kong	--	39	63	677	6,270	57,800	6,330	58,500
India	35	383	70	1,170	30,300	277,000	30,400	278,000
Indonesia	--	8	2	92	11,100	90,500	11,100	90,600
Ireland	--	3	53	520	--	67	53	590
Israel	1	13	1,640	15,900	--	--	1,640	15,900
Italy	--	178	78	1,270	280	4,930	358	6,380
Jamaica	--	81	3	59	--	16	3	156
Japan	35	1,110	357	11,600	3,070	17,600	3,460	30,300
Korea, Republic of	7	612	1,410	19,400	25,200	268,000	26,700	288,000
Malaysia	112	3,730	105	2,050	44,300	382,000	44,500	388,000
Mexico	10,300	83,100	23,100	244,000	16,600	136,000	49,900	463,000
Netherlands	--	101	10	352	423	2,310	433	2,770
New Zealand	--	--	45	473	--	19	45	492
Norway	--	1	--	20	--	--	--	21
Pakistan	--	39	1	16	1,310	12,300	1,310	12,300
Panama	--	13	4	34	--	--	4	47
Philippines	--	237	7	222	341	5,360	348	5,820
Poland	--	1	23	270	18	181	41	452
Romania	7	105	46	2,070	--	--	53	2,180
Russia	--	1	4	31	7,340	28,800	7,350	28,900
Saudi Arabia	--	13	8	485	342	1,720	350	2,220
Singapore	8	101	283	2,660	10	2,930	301	5,690
Spain	2	18	9	392	706	5,590	717	6,000
Taiwan	310	2,400	234	3,730	3,920	39,000	4,460	45,100
Thailand	6	7	117	744	6,280	65,700	6,410	66,500
Turkey	--	34	38	3,480	1,180	9,080	1,220	12,600
United Arab Emirates	--	4	72	646	618	8,320	690	8,970
United Kingdom	4	345	391	5,960	343	2,700	738	9,000
Vietnam	--	166	118	1,200	1,830	15,600	1,950	17,000
Other	59	681	328	3,770	997	19,000	1,380	23,500
Total	15,300	168,000	56,000	633,000	175,000	1,690,000	246,000	2,490,000

-- Zero.

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

Source: U.S. Census Bureau.