

Mineral Industry Surveys

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COPPER IN MARCH 2020

In March 2020, domestic mine production of recoverable copper was 96,000 metric tons (t). The average daily mine production was 3,100 t, a decrease of 4% from that in February and a decline of 11% compared with that in March 2019 (fig. 1). Year-to-date recoverable mine production through March 2020 was 290,000 t, 4% lower than that through the same period in 2019 (table 2).

company's Bingham Canyon Mine and Kennecott refinery resumed normal operations by the end of the month, but damage to the smelter necessitated a comprehensive rebuild of the flash converting furnace. The company did not specify a timeline for the completion of repairs (Rio Tinto plc, 2020, p. 1, 8). Estimated smelter output in March 2020 was identical to that in February because production was estimated on a quarterly basis. Year-to-date smelter production through March 2020 was 90,000 t, a slight increase relative to the same period in 2019 (table 3).

Total refinery production in the United States was 78,100 t in March 2020; data for electrolytic and electrowon output, as well as refined production from scrap, are reported in table 4. Average daily total refinery production was 2,520 t, a slight decrease compared with that in February and slightly higher than that in March 2019 (fig. 1). Year-to-date refinery output through March 2020 was 231,000 t, a slight increase from that through March 2019 (table 4).

Prices

The average March 2020 COMEX spot copper price declined by 8% to \$2.37 per pound from \$2.58 per pound in February, owing to reduced global demand as the coronavirus outbreak spread beyond China. The COMEX price in March 2020 was 18% lower than \$2.90 per pound in March 2019 (fig. 2, table 11). The average U.S. dealers price of number 2 scrap in March 2020 was \$1.90 per pound, an increase of 3% compared with \$1.85 per pound in February (fig. 2, table 12).

Stocks

Refined copper stocks in the United States totaled 114,000 t at the end of March 2020, 6% greater than those in February and 17% less than those in March 2019. London Metal Exchange Ltd. stocks in U.S. warehouses rose by 4%, COMEX stocks increased by 15%, and stocks at wire-rod mills were 30% higher compared with those at the end of February (fig. 3, table 10). Reported U.S. consumption of refined copper in March 2020 decreased by 9% from that in February, consistent with the increased stockpiles (table 7).

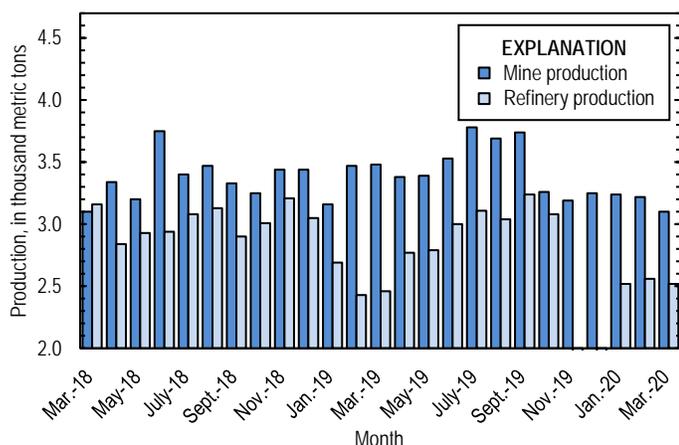


Figure 1. Average daily U.S. copper mine (recoverable) and total refinery production from March 2018 through March 2020. Refinery production in November and December 2019 were withheld to avoid disclosing company proprietary data.

Owing to temporary closures of ASARCO LLC's (Tucson, AZ) smelter and electrolytic refinery as a result of a worker strike, smelter and electrolytic refinery production reported to the U.S. Geological Survey in March 2020 were withheld to avoid disclosing company proprietary data. Smelter and electrolytic refinery output in tables 3 and 4 are estimates based on information in quarterly public company reports.

Estimated U.S. smelter production in March 2020 was 30,000 t. The estimated average daily output was 968 t, 19% less than that in March 2019. On March 18, Rio Tinto Kennecott (South Jordan, UT) temporarily halted all operations near Salt Lake City, UT, in response to a magnitude 5.7 earthquake. The

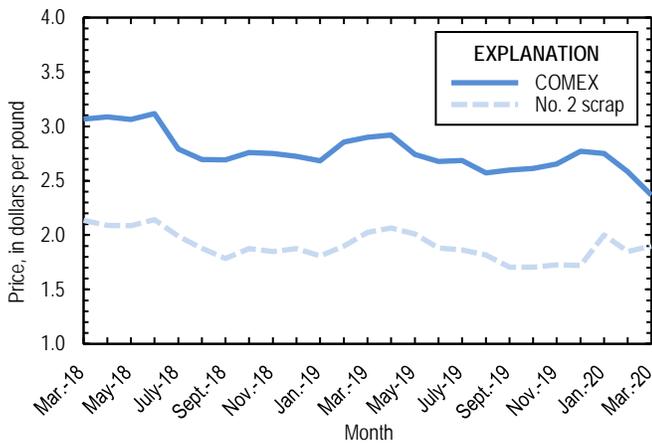


Figure 2. Monthly average COMEX copper price and no. 2 copper scrap dealers buying price from March 2018 through March 2020. As of January 2020, no. 2 prices were available only for the entire United States, whereas no. 2 prices were available only for individual domestic markets prior to January 2020. Prices shown prior to January 2020 are for New York dealers no. 2 scrap. Sources: American Metal Market, Platts Metals Week.

Industry News

In March 2020, a significant number of copper mines and facilities around the world suspended or reduced operations in response to the coronavirus. The International Copper Study Group estimated that yearend 2020 mine and refined production of copper would decrease by 950,000 t and 1.1 million metric tons, respectively, as a result of the pandemic (International Copper Study Group, 2020, p. 3).

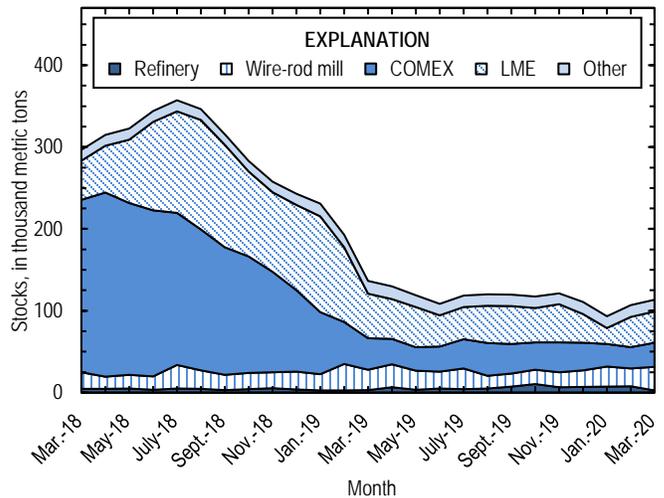


Figure 3. Monthly domestic refined copper stocks, by type, from March 2018 through March 2020. Sources: American Metal Market, London Metal Exchange Ltd., and U.S. Geological Survey.

References Cited

- International Copper Study Group, 2020, The impact of the COVID-19 pandemic on world copper supply: Lisbon, Portugal, International Copper Study Group Secretariat Briefing Paper, no. 18, May 21, 24 p.
- Rio Tinto plc, 2020, Rio Tinto releases first quarter production results: London, United Kingdom, Rio Tinto plc news release, April 17, 26 p. (Accessed September 7, 2020, at <https://mc-56397411-4872-452d-b48e-428890-cdn-endpoint.azureedge.net/-/media/Content/Documents/Invest/Financial-news-and-performance/Production/RT-First-Quarter-Operations-Review-2020-pdf.pdf?rev=f02bfa7ba62c4087b32629111bdcc789>.)

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TABLE 1
SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES¹

(Metric tons of copper content, unless otherwise specified)

	Source table ²	2020				
		2019 ^P	January	February	March	January– March
Production:						
Primary:						
Mine, recoverable	(2)	1,260,000	100,000	93,200	96,000	290,000
Smelter	(3)	464,000	30,000 ^e	30,000 ^e	30,000 ^e	90,000 ^e
Refinery:						
Electrolytic, domestic and foreign	(4)	457,000	30,000 ^e	30,000 ^e	30,000 ^e	90,000 ^e
Electrowon	(4)	528,000	45,000	41,000	44,800	131,000
Total	(4)	985,000	75,000	71,000	74,800	221,000
Secondary recoverable copper:³						
Refineries	(5)	44,400	3,260	3,220	3,220	9,700
Ingot makers ⁴	(5)	57,900	4,820	4,820	4,820	14,500
Brass and wire-rod mills	(5)	653,000	57,200	56,000	55,500	169,000
Foundries, etc. ⁴	(5)	36,700	3,060	3,060	3,060	9,180
Consumption:						
Apparent	(8)	1,810,000	163,000	102,000	147,000	413,000
Refined (reported)	(7)	1,830,000	160,000	156,000	143,000	458,000
Purchased copper-base scrap (gross weight)	(9)	924,000	79,500	78,700	77,700	236,000
Stocks at end of period:						
Total refined	(10)	111,000	93,300	107,000	114,000	114,000
Blister and anodes	(10)	16,400	9,590	17,900	21,900	21,900
Price, U.S. producers cathode (cents per pound) ⁵	(11)	279.596	282.467	265.695	243.464	263.875
Imports:⁶						
Ore and concentrates	(13)	27,000	--	--	--	--
Refined	(13)	663,000	62,300	34,400	70,500	167,000
Exports:⁶						
Ore and concentrates	(14)	363,000	26,600	28,300	27,900	82,800
Refined	(14)	125,000	4,170	2,470	4,000	10,600

^eEstimated. ^PPreliminary. -- Zero. W Withheld to avoid disclosing company proprietary data.

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

²Numbers in parentheses refer to the tables where these data are located.

³Copper recovered from copper-base scrap only.

⁴Estimated based on the monthly average of 2018 annual data.

⁵Source: Platts Metals Week.

⁶Source: U.S. Census Bureau.

TABLE 2
MINE PRODUCTION OF RECOVERABLE COPPER IN THE UNITED STATES¹

(Metric tons)

Period	Recoverable copper			Contained copper		
	Arizona	Others ²	Total	Electrowon	Concentrates ³	Total
2019:^P						
January–March	204,000	98,900	303,000	127,000	183,000	309,000
March	72,400	35,500	108,000	44,600	65,700	110,000
April	69,700	31,600	101,000	41,300	62,300	104,000
May	71,500	33,700	105,000	44,700	62,800	108,000
June	73,400	32,400	106,000	45,900	62,100	108,000
July	79,200	38,000	117,000	47,600	72,300	120,000
August	77,400	37,200	115,000	46,500	70,500	117,000
September	74,000	38,100	112,000	44,700	69,900	115,000
October	72,300	28,600	101,000	45,800	57,100	103,000
November	66,000	29,800	95,800	41,100	56,800	97,900
December	70,100	30,500	101,000	43,200	59,600	103,000
January–December	858,000	399,000	1,260,000	528,000	756,000	1,280,000
2020:						
January	71,500	28,900	100,000	45,000	58,400	103,000
February	64,500	28,700	93,200	41,000	54,300	95,300
March	67,500	28,500	96,000	44,800	53,200	98,000
January–March	204,000	86,100	290,000	131,000	166,000	297,000

^PPreliminary.

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

²Includes production from Michigan, Missouri, Montana, Nevada, New Mexico, and Utah.

³Includes copper content of precipitates and other metal concentrates.

TABLE 3
COPPER PRODUCED AT SMELTERS IN
THE UNITED STATES^{1,2}

(Metric tons, copper content)

Period	Anode production
2019:^P	
January–March	89,400
March	37,000
April	32,900
May	54,100
June	51,800
July	34,500
August	49,200
September	43,200
October	43,800
November	W
December	W
January–December	464,000
2020:^{E,3}	
January	30,000
February	30,000
March	30,000
January–March	90,000

^EEstimated. ^PPreliminary. W Withheld to avoid disclosing company proprietary data.

¹Includes blister and copper anode from primary or secondary sources.

³To avoid disclosing company proprietary data, monthly smelter production data in 2020 are estimates based on information from public company reports and do not reflect actual production reported to the U.S. Geological Survey.

TABLE 4
PRODUCTION OF REFINED COPPER, BY SOURCE AND METHOD OF RECOVERY¹

(Metric tons)

Period	Primary materials			Scrap	Total refined
	Electrolytically refined ²	Electrowon	Total		
2019: ^P					
January–March	90,000	127,000	217,000	11,100	228,000
March	27,800	44,600	72,500	3,950	76,400
April	38,100	41,300	79,400	3,600	83,000
May	38,300	44,700	83,000	3,470	86,500
June	40,600	45,900	86,500	3,480	90,000
July	45,100	47,600	92,700	3,860	96,500
August	41,800	46,500	88,300	5,860	94,200
September	49,000	44,700	93,700	3,360	97,000
October	46,500	45,800	92,300	3,220	95,500
November	W	41,100	W	3,240	W
December	W	43,200	W	3,240	W
January–December	457,000	528,000	985,000	44,400	1,030,000
2020:					
January	30,000 ^{e,3}	45,000	75,000	3,260	78,200
February	30,000 ^{e,3}	41,000	71,000	3,220	74,200
March	30,000 ^{e,3}	44,800	74,800	3,220	78,100
January–March	90,000 ^{e,3}	131,000	221,000	9,700	231,000

^eEstimated. ^PPreliminary. W Withheld to avoid disclosing company proprietary data.

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

²From domestic and foreign source materials.

³To avoid disclosing company proprietary data, monthly electrolytically refined production data in 2020 are estimates based on information from public company reports and do not reflect actual production reported to the U.S. Geological Survey.

TABLE 5
COPPER RECOVERABLE IN UNALLOYED AND ALLOYED FORM FROM PURCHASED COPPER-BASE SCRAP¹

(Metric tons, copper content)

Period	Refineries ²		Ingot makers ³		Brass and wire-rod mills		Foundries, etc. ³		Total ⁴
	New scrap ^e	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2019: ^p									
January–March	5,030	6,020	2,300	12,200	156,000	10,000	6,440	2,740	201,000
March	1,680	2,270	768	4,060	52,200	3,310	2,150	913	67,400
April	1,680	1,930	768	4,060	51,400	3,340	2,150	913	66,200
May	1,680	1,790	768	4,060	51,600	3,330	2,150	913	66,300
June	1,680	1,800	768	4,060	51,400	3,550	2,150	913	66,300
July	1,680	2,190	768	4,060	49,100	3,590	2,150	913	64,400
August	1,680	4,180	768	4,060	52,800	3,030	2,150	913	69,600
September	1,680	1,680	768	4,060	49,700	2,330	2,150	913	63,300
October	1,680	1,540	768	4,060	51,000	2,490	2,150	913	64,600
November	1,680	1,560	768	4,060	51,700	2,560	2,150	913	65,400
December	1,680	1,560	768	4,060	51,800	2,290	2,150	913	65,200
January–December	20,100	24,200	9,220	48,700	617,000	36,500	25,800	11,000	792,000
2020:									
January	1,680	1,590	768	4,060	53,400	3,750	2,150	913	68,300
February	1,680	1,540	768	4,060	52,400	3,580	2,150	913	67,100
March	1,680	1,540	768	4,060	52,100	3,360	2,150	913	66,600
January–March	5,030	4,670	2,300	12,200	158,000	10,700	6,440	2,740	202,000

^eEstimated ^pPreliminary.

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

²Electrolytically refined and fire refined from scrap based on source of material at smelter or refinery level.

³Monthly data estimated based on the monthly average of 2018 annual data.

⁴Does not include an estimate, based on reported 2018 annual data, of 3,380 tons per month from new scrap and 2,710 tons per month from old scrap of copper recovered from scrap other than copper-base.

TABLE 6
 PRODUCTION, SHIPMENTS, AND STOCKS OF BRASS AND WIRE-ROD SEMIFABRICATES¹

(Metric tons, gross weight)

Period	Production		Shipments		Stocks, end of period	
	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills
2019: ^p						
January–March	222,000	333,000	221,000	337,000	30,400	22,400
March	74,200	117,000	73,800	112,000	30,400	22,400
April	73,700	104,000	73,900	111,000	30,200	23,800
May	73,800	116,000	74,100	112,000	29,800	28,400
June	73,600	109,000	73,500	116,000	30,000	22,100
July	70,300	110,000	70,900	113,000	29,400	25,200
August	73,800	112,000	73,700	116,000	29,500	22,700
September	73,200	113,000	73,300	110,000	29,400	26,400
October	73,900	112,000	74,000	114,000	29,200	23,800
November	73,200	101,000	73,000	100,000	29,400	24,600
December	72,700	93,500	72,200	94,100	29,900	24,000
January–December	880,000	1,300,000	880,000	1,320,000	29,900	24,000
2020:						
January	73,700	110,000	74,200	106,000	29,400	27,800
February	73,900	110,000	73,600	106,000	29,700	31,800
March	74,500	108,000	74,100	112,000	30,100	27,800
January–March	222,000	327,000	222,000	323,000	30,100	27,800

^pPreliminary.

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

TABLE 7
CONSUMPTION OF REFINED COPPER¹

(Metric tons)

Period	Brass mills	Wire-rod mills	Other plants ²	Total
2019: ^p				
January–March	105,000	346,000	16,300	467,000
March	34,900	123,000	5,450	164,000
April	34,900	119,000	5,450	160,000
May	35,400	114,000	5,450	155,000
June	34,200	110,000	5,450	150,000
July	34,100	107,000	5,450	147,000
August	34,000	116,000	5,450	155,000
September	34,100	110,000	5,450	150,000
October	34,200	118,000	5,450	158,000
November	34,100	112,000	5,450	151,000
December	33,100	104,000	5,450	142,000
January–December	413,000	1,360,000	65,400	1,830,000
2020:				
January	34,500	120,000	5,450	160,000
February	33,600	117,000	5,450	156,000
March	33,600	104,000	5,450	143,000
January–March	102,000	340,000	16,300	458,000

^pPreliminary.

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

²Monthly consumption data by ingot makers, chemical plants, foundries, and miscellaneous manufacturers are estimated based on the monthly average of 2018 annual data.

TABLE 8
U.S. APPARENT CONSUMPTION OF COPPER¹

(Metric tons)

Period	Primary refined copper production	Copper in old scrap ²	Refined imports for consumption ³	Refined exports ³	Stock change during period	Apparent consumption
2019: ^p						
January–March	217,000	39,100	135,000	35,900	-106,000	461,000
March	72,500	13,300	40,500	10,200	-56,500	172,000
April	79,400	12,900	65,400	13,500	-6,390	151,000
May	83,000	12,800	52,400	11,000	-11,200	148,000
June	86,500	13,000	55,200	13,800	-10,100	151,000
July	92,700	13,500	68,200	9,810	10,000	155,000
August	88,300	14,900	50,500	6,960	1,580	145,000
September	93,700	11,700	60,700	8,410	-484	158,000
October	92,300	11,700	66,800	8,540	-2,550	165,000
November	W	11,800	49,000	9,510	4,330	W
December	W	11,500	59,500	7,830	-10,900	W
January–December	985,000	153,000	663,000	125,000	-132,000	1,810,000
2020:						
January	75,000	13,000	62,300	4,170	-17,300	163,000
February	71,000	12,800	34,400	2,470	13,400	102,000
March	74,800	12,600	70,500	4,000	6,870	147,000
January–March	221,000	38,400	167,000	10,600	2,970	413,000

^pPreliminary. W Withheld to avoid disclosing company proprietary data.

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

²Includes reported monthly production of copper from old scrap of copper-base, an estimate for annual reporters, and a monthly average of copper from non-copper-base materials based on 2018 annual data.

³Source: U.S. Census Bureau.

TABLE 9
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP¹

(Metric tons, gross weight)

Period	Smelters and refineries		Ingot makers ²		Brass and wire-rod mills ³		Foundries, etc. ²		Total scrap used
	New scrap ^c	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2019: ^p									
January–March	5,190	6,210	6,030	15,000	180,000	10,300	7,800	2,700	233,000
March	1,730	2,340	2,010	4,990	60,200	3,410	2,600	900	78,200
April	1,730	1,990	2,010	4,990	59,400	3,450	2,600	900	77,100
May	1,730	1,850	2,010	4,990	59,700	3,540	2,600	900	77,400
June	1,730	1,850	2,010	4,990	59,400	3,910	2,600	900	77,400
July	1,730	2,260	2,010	4,990	57,100	3,880	2,600	900	75,500
August	1,730	4,310	2,010	4,990	61,000	3,240	2,600	900	80,800
September	1,730	1,730	2,010	4,990	57,800	2,510	2,600	900	74,300
October	1,730	1,730	2,010	4,990	59,200	2,720	2,600	900	75,900
November	1,730	1,610	2,010	4,990	59,800	2,760	2,600	900	76,400
December	1,730	1,610	2,010	4,990	59,900	2,460	2,600	900	76,200
January–December	20,700	25,100	24,100	59,800	714,000	38,800	31,200	10,800	924,000
2020:									
January	1,730	1,660	2,010	4,990	61,600	3,960	2,600	900	79,500
February	1,730	2,180	2,010	4,990	60,500	3,790	2,600	900	78,700
March	1,730	1,590	2,010	4,990	60,300	3,590	2,600	900	77,700
January–March	5,190	5,430	6,030	15,000	182,000	11,300	7,800	2,700	236,000

^cEstimated. ^pPreliminary.

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

²Monthly data estimated based on the monthly average of 2018 annual data.

³Consumption at brass and wire-rod mills assumed equal to receipts.

TABLE 10
COPPER STOCKS AT END OF PERIOD¹

(Metric tons)

Period	Crude copper ²	Refined copper					Total refined	
		Refineries ³	Wire-rod mills ³	Brass mills ³	Other ⁴	Comex		
2019: ^P								
March	15,000	2,970	24,800	8,400	7,070	38,700	54,400	136,000
April	8,860	6,630	28,100	8,370	7,070	31,100	48,600	130,000
May	9,210	3,550	23,200	7,250	7,070	28,700	49,000	119,000
June	13,600	5,000	20,700	7,120	7,070	30,700	38,000	109,000
July	15,500	4,350	25,000	7,070	7,070	36,000	39,200	119,000
August	14,500	5,050	15,400	6,930	7,070	40,000	45,700	120,000
September	8,340	7,180	16,200	6,800	7,070	36,000	46,500	120,000
October	25,400	10,600	17,500	6,680	7,070	33,200	42,200	117,000
November	10,200	6,650	18,200	6,580	7,070	36,400	46,600	121,000
December	16,400	7,010	20,000	7,520	7,070	34,100	35,000	111,000
2020:								
January	9,590	7,210	24,800	7,330	7,070	27,600	19,300	93,300
February	17,900	7,810	21,900	7,250	7,070	26,000	36,700	107,000
March	21,900	2,760	28,600	7,290	7,070	29,800	38,100	114,000

^PPreliminary.

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

²Copper content of blister and anode.

³Stocks of refined copper as reported; no estimates are made for nonrespondents.

⁴Monthly estimates based on 2018 annual data, comprising stocks at ingot makers, chemical plants, foundries, and miscellaneous manufacturers.

⁵London Metal Exchange Ltd., U.S. warehouses.

TABLE 11
 AVERAGE PRICE OF COPPER IN THE UNITED STATES
 AND ON THE LONDON METAL EXCHANGE

(Cents per pound)

Period	U.S. producers cathode ¹	Comex first position ²	LME cash price Grade A
2019:			
March	297.974	289.974	292.581
April	299.820	292.007	292.317
May	282.232	274.282	273.412
June	274.968	267.843	266.166
July	275.657	268.657	269.397
August	264.293	257.243	258.890
September	266.490	259.740	260.588
October	268.065	261.165	260.470
November	272.588	265.463	265.774
December	284.342	277.029	274.970
Year	279.596	272.267	272.364
2020:			
January	282.467	274.967	274.362
February	265.695	258.382	257.907
March	243.464	236.714	234.886
January–March	263.875	256.688	255.718

¹Sum of "Comex high grade first position" and "NY dealer premium cathode."

²Listed as "Comex high grade first position."

Source: Platts Metals Week.

TABLE 12
AVERAGE BUYING PRICES FOR COPPER SCRAP

(Cents per pound)

Period	Brass mills No. 1 scrap	Refiners No. 2 scrap	Dealers (United States) ¹	
			No. 2 scrap	Red brass turnings and borings
2019:				
March	282.69	253.31	202.50	145.00
April	284.26	252.17	206.50	147.00
May	265.41	231.95	201.05	143.18
June	257.40	225.70	188.00	138.00
July	258.48	227.95	186.32	138.00
August	247.20	217.00	181.68	134.18
September	250.05	220.50	170.50	131.00
October	250.04	221.04	170.50	128.00
November	253.84	224.84	172.50	127.53
December	264.76	236.19	172.12	127.00
Year	262.76	233.19	185.19	136.53
2020:				
January	262.29	234.76	200.00	139.00
February	244.87	218.26	185.00	115.00
March	223.75	197.73	190.00	139.00
January–March	243.64	216.92	191.67	131.00

¹As of January 2020, domestic dealers prices were available only for the entire United States, whereas dealers prices were available only for individual domestic markets prior to January 2020. Dealers prices in 2019 are for New York, and dealers prices in 2020 are for the entire United States.

Source: American Metal Market.

TABLE 13
U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY CLASS¹

(Metric tons, copper content)

Country or locality	Ore and concentrates ²			Matte, ash, and precipitates ³			Blister and anodes			Refined		
	2020			2020			2020			2020		
	2019	March	January–March	2019	March	January–March	2019	March	January–March	2019	March	January–March
Belgium	--	--	--	228	--	109	--	--	--	2,300	--	--
Bolivia	--	--	--	13	--	--	--	--	--	1,510	--	264
Canada	(4)	--	--	451	24	35	(4)	--	(4)	138,000	15,200	40,000
Chile	--	--	--	--	--	--	--	--	--	422,000	45,000	98,800
Finland	--	--	--	--	--	--	191	51	51	38	--	--
Germany	--	--	--	(4)	--	--	--	--	--	2,010	135	641
Japan	--	--	--	295	--	--	(4)	(4)	(4)	2,540	335	789
Mexico	27,000	--	--	138	(4)	(4)	(4)	--	--	82,300	9,630	21,100
Netherlands	--	--	--	120	--	--	4	(4)	(4)	(4)	--	--
Peru	(4)	--	--	--	--	--	--	--	--	10,000	--	4,810
Saudi Arabia	--	--	--	98	--	--	--	--	--	--	--	--
Spain	--	--	--	540	--	--	1	--	--	(4)	204	654
Tunisia	--	--	--	--	--	--	35	--	--	--	--	--
Zambia	--	--	--	--	--	--	--	--	--	689	--	--
Other	27	--	--	76	(4)	2	5	1	2	1,160	48	185
Total	27,000	--	--	1,960	24	145	236	52	53	663,000	70,500	167,000

-- Zero.

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

²Copper ore and concentrates only; excludes copper contained in ore and concentrates of other metals.

³Copper matte, ash, and precipitates only; excludes the copper content of mattes and ashes of other metals.

⁴Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 14
U.S. EXPORTS OF COPPER (UNMANUFACTURED), BY CLASS¹

(Metric tons, copper content)

Country or locality	Ore and concentrates ²			Matte, ash, and precipitates ³			Blister and anodes			Refined		
	2020			2020			2020			2020		
	2019	March	January– March	2019	March	January– March	2019	March	January– March	2019	March	January– March
Austria	--	--	--	--	--	--	127	--	--	--	--	--
Belgium	161	25	79	3,290	679	1,910	359	11	65	129	--	--
Brazil	5,370	--	--	--	--	--	39	2	10	1	--	--
Bulgaria	15,900	--	--	--	--	--	--	--	--	--	--	--
Canada	14,400	2,590	9,380	14,700	996	3,180	2,600	75	513	32,100	2,590	6,740
China	7	--	--	97	--	(4)	200	20	40	13	2	25
Germany	--	--	--	597	20	33	286	20	60	1	--	--
Hong Kong	--	--	2	19	--	--	279	32	52	20	--	1
India	--	1	1	--	--	--	259	33	76	36	--	--
Italy	--	--	--	--	--	--	208	22	22	26	(4)	85
Japan	27,400	--	--	48	58	58	26	20	20	11	--	1
Korea, Republic of	15,500	1,880	3,940	74	--	--	1,520	100	349	682	3	8
Malaysia	35	--	--	--	--	--	188	19	54	1	--	--
Mexico	248,000	23,400	62,400	1,210	--	--	32	4	9	92,100	1,380	3,720
Philippines	11,900	--	1,890	--	--	--	56	5	5	2	--	--
Slovakia	--	--	--	1,070	97	431	--	--	--	--	--	--
Spain	22,700	--	5,070	259	56	176	61	20	20	--	--	--
Sweden	--	--	--	--	--	--	463	135	135	(4)	--	--
Other	1,940	27	80	763	43	140	564	49	403	181	22	52
Total	363,000	27,900	82,800	22,200	1,950	5,930	7,270	566	1,830	125,000	4,000	10,600

-- Zero.

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

²Copper ore and concentrates only; excludes copper contained in ore and concentrates of other metals.

³Copper matte, ash, and precipitates only; excludes the copper content of mattes and ashes of other metals.

⁴Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 15
U.S. IMPORTS FOR CONSUMPTION OF COPPER SCRAP¹

(Metric tons, gross weight)

Country or locality	Unalloyed			Alloyed		
	2020			2020		
	2019	March	January– March	2019	March	January– March
Bahamas	--	--	--	736	63	234
Canada	16,700	1,240	3,880	49,900	3,360	9,890
Chile	--	--	--	1,300	--	--
Colombia	251	19	19	1,050	82	196
Costa Rica	473	67	78	1,160	54	223
Dominican Republic	610	85	183	2,120	132	364
El Salvador	--	--	--	695	42	130
Germany	188	12	67	111	--	23
Guatemala	17	--	--	603	54	87
Honduras	63	8	34	679	76	212
Japan	1,040	--	--	--	--	--
Mexico	11,500	594	2,060	42,100	3,950	10,400
Pakistan	151	--	--	--	--	--
Panama	736	106	353	483	30	108
Suriname	124	--	18	100	8	21
Venezuela	28	--	--	554	--	--
Vietnam	114	8	30	17	1	8
Other	519	27	99	3,850	167	465
Total	32,600	2,170	6,830	105,000	8,020	22,300

-- Zero.

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

Source: U.S. Census Bureau.

TABLE 16
U.S. EXPORTS OF COPPER SCRAP¹

(Metric tons, gross weight)

Country or locality	Unalloyed							Alloyed				
	2020							2020				
	2019	No. 1		No. 2		Other		2019	Segregated		Unsegregated	
		March	January– March	March	January– March	March	January– March		March	January– March	March	January– March
Belgium	23,600	609	1,620	1,660	4,060	155	351	14,300	95	291	955	2,260
Canada	49,200	--	--	--	--	5,360	14,400	42,000	--	--	2,490	7,480
China	74,800	2,040	5,910	1,520	4,510	1,630	4,030	13,100	123	177	618	1,320
Germany	29,400	1,830	4,920	245	1,500	513	1,930	14,300	114	270	1,590	4,140
Greece	8,180	1,280	1,860	20	320	105	492	973	54	224	161	293
Hong Kong	19,900	381	1,080	44	84	81	660	30,500	297	883	684	3,070
India	14,400	293	911	668	1,730	516	1,410	45,500	2,100	7,060	1,890	4,870
Japan	22,600	206	597	516	1,550	151	882	20,300	259	492	1,020	2,930
Korea, Republic of	46,900	2,050	7,460	389	1,850	788	2,240	25,000	663	2,300	1,340	3,210
Malaysia	65,300	471	1,200	840	2,880	2,310	7,300	156,000	1,300	4,430	8,050	20,800
Netherlands	4,300	158	444	42	122	256	256	1,010	--	--	72	183
Pakistan	882	1	13	98	254	--	--	19,800	19	82	953	4,210
Poland	5,450	216	1,160	118	514	--	642	45	--	--	352	390
Spain	1,510	54	123	132	311	79	158	8,510	173	797	513	1,160
Taiwan	20,300	436	1,900	203	1,180	985	3,100	20,300	230	962	951	2,470
Thailand	4,120	129	744	59	532	168	1,030	16,300	272	1,480	518	2,630
Other	31,200	1,470	4,770	1,340	4,610	1,390	3,080	21,300	596	1,020	1,530	4,200
Total	422,000	11,600	34,700	7,900	26,000	14,500	42,000	450,000	6,300	20,500	23,700	65,600

-- Zero.

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

Source: U.S. Census Bureau.