

Mineral Industry Surveys

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COPPER IN APRIL 2020

In April 2020, domestic mine production of recoverable copper was 98,300 metric tons (t). The average daily mine production was 3,280 t, an increase of 6% from that in March and a decrease of 3% compared with that in April 2019 (fig. 1). Year-to-date recoverable mine production through April 2020 was 388,000 t, 4% lower than that through the same period in 2019 (table 2).

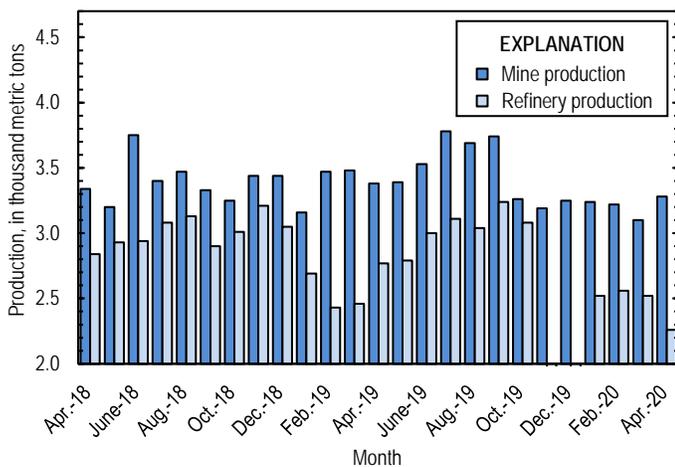


Figure 1. Average daily U.S. copper mine (recoverable) and total refinery production from April 2018 through April 2020. Refinery production in November and December 2019 were withheld to avoid disclosing company proprietary data.

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 April 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 April 2020 was 20,000 t. The estimated average daily output was 667 t, 39% less than that in April 2019. Year-to-date estimated smelter production through April 2020 was 110,000 t, a decline of 10% relative to the same period in 2019 (table 3). In early April, Rio Tinto Kennecott (South Jordan, UT) declared force majeure on shipments of copper cathode from its refinery near Salt Lake City, UT (Hotter and Bera, 2020). The company was in the process of rebuilding the flash converting furnace at its Kennecott smelter, which was damaged by a magnitude 5.7 earthquake on March 18 (Rio Tinto plc, 2020, p. 1, 8).

Total refinery production in the United States was 67,800 t in April 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 2,260 t, a decrease of 10% compared with that in March and 18% lower than that in April 2019 (fig. 1). Year-to-date refinery output through April 2020 was 298,000 t, a decline of 4% from that through April 2019 (table 4).

Prices

The average April 2020 COMEX spot copper price was \$2.31 per pound, a decrease of 3% from \$2.37 per pound in March and 21% lower than \$2.92 per pound in April 2019 (fig. 2, table 11). The average U.S. dealers buying price of number 2 scrap in April 2020 was \$1.48 per pound, 22% less than \$1.90 per pound in March (fig. 2, table 12).

Stocks

Refined copper stocks in the United States totaled 120,000 t at the end of April 2020, 6% greater than those in March and 7% less than those in April 2019. Wire-rod mill stocks fell by 30%, London Metal Exchange Ltd. stocks in U.S. warehouses decreased slightly, and COMEX stocks were 30% higher compared with those at the end of March (fig. 3, table 10).

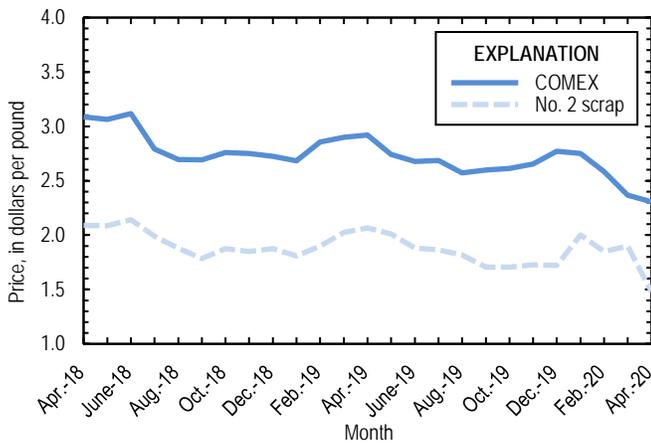


Figure 2. Monthly average COMEX copper price and no. 2 copper scrap dealers buying price from April 2018 through April 2020. As of January 2020, no. 2 prices were available only for the entire United States, whereas no. 2 prices were available only for individual domestic markets prior to January 2020.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

Industry News

The coronavirus pandemic continued to impact a significant number of copper mines, smelters, refineries, and manufacturing facilities around the world. However, total global production of mined and refined copper through April 2020 were essentially unchanged from those during the same period in 2019 (International Copper Study Group, 2020, p. 12, 17).

United States.—Freeport-McMoRan Inc. (Phoenix, AZ) suspended operations at its Chino Mine in New Mexico after multiple workers tested positive for COVID-19. The company stated that the restart of the mine would be dependent on public health and market conditions (Freeport-McMoRan Inc., 2020b, p. 4; Scheyder, 2020). In 2019, Chino produced a combined 79,400 t of electrowon copper and copper recoverable in concentrates, equivalent to 6% of total mine production in the United States (table 2; Freeport-McMoRan Inc., 2020a, p. 26).

Nevada Copper Corp. (Canada) temporarily ceased production of copper at its Pumpkin Hollow Mine in Nevada, owing to restrictions implemented by the State of Nevada in response to COVID-19. The company expected that the suspension would last for at least six weeks. Production at the mine began in December 2019 (Nevada Copper Corp., 2019, 2020).

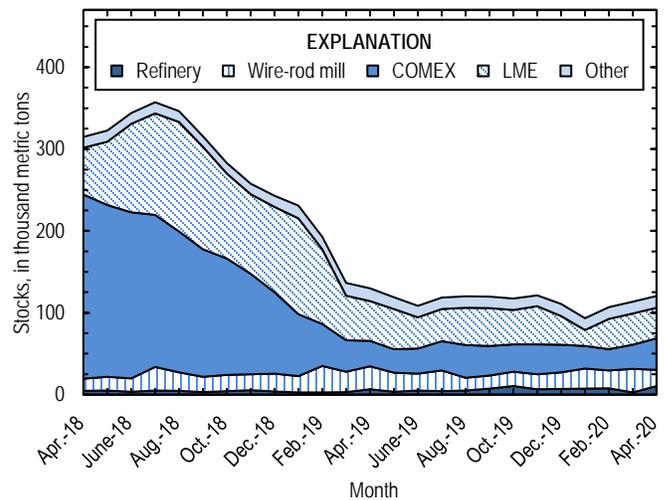


Figure 3. Monthly domestic refined copper stocks, by type, from April 2018 through April 2020. Sources: American Metal Market, London Metal Exchange Ltd., and U.S. Geological Survey.

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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				January– April
		2019 ^p	February	March	April	
Production:						
Primary:						
Mine, recoverable	(2)	1,260,000	93,200	96,000	98,300	388,000
Smelter	(3)	464,000	30,000 ^e	30,000 ^e	20,000 ^e	110,000 ^e
Refinery:						
Electrolytic, domestic and foreign	(4)	457,000	30,000 ^e	30,000 ^e	20,000 ^e	110,000 ^e
Electrowon	(4)	528,000	41,000	44,800	44,600	175,000
Total	(4)	985,000	71,000	74,800	64,600	285,000
Secondary recoverable copper:³						
Refineries	(5)	44,400	3,220	3,220	3,220	12,900
Ingot makers ⁴	(5)	57,900	4,820	4,820	4,820	19,300
Brass and wire-rod mills	(5)	653,000	56,000	55,500	54,700	223,000
Foundries, etc. ⁴	(5)	36,700	3,060	3,060	3,060	12,200
Consumption:						
Apparent	(8)	1,810,000	102,000	147,000	143,000	556,000
Refined (reported)	(7)	1,830,000	156,000	143,000	146,000	605,000
Purchased copper-base scrap (gross weight)	(9)	924,000	78,700	77,700	78,200	314,000
Stocks at end of period:						
Total refined	(10)	111,000	107,000	114,000	120,000	120,000
Bliaster and anodes	(10)	16,400	17,900	21,900	14,600	14,600
Price, U.S. producers cathode (cents per pound) ⁵	(11)	279.596	265.695	243.464	236.881	257.127
Imports:⁶						
Ore and concentrates	(13)	27,000	--	--	--	--
Refined	(13)	663,000	34,400	70,500	74,300	242,000
Exports:⁶						
Ore and concentrates	(14)	363,000	28,300	27,900	38,900	122,000
Refined	(14)	125,000	2,470	4,000	1,580	12,200

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

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–April	274,000	130,000	404,000	168,000	245,000	413,000
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
April	74,000	24,300	98,300	44,600	55,800	100,000
January–April	278,000	110,000	388,000	175,000	222,000	397,000

^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–April	122,000
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
April	20,000
January–April	110,000

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

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

²Data are rounded to no more than three significant digits; may not add to totals shown.

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–April	128,000	168,000	296,000	14,700	311,000
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
April	20,000 ^{e, 3}	44,600	64,600	3,220	67,800
January–April	110,000 ^{e, 3}	175,000	285,000	12,900	298,000

^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: ^b									
January–April	6,710	7,950	3,070	16,200	208,000	13,300	8,580	3,650	267,000
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
April	1,680	1,540	768	4,060	51,800	2,950	2,150	913	65,800
January–April	6,710	6,200	3,070	16,200	210,000	13,600	8,580	3,650	268,000

^eEstimated. ^bPreliminary.

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–April	296,000	437,000	295,000	449,000	30,200	23,800
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
April	72,500	94,600	73,500	96,200	29,000	26,100
January–April	295,000	421,000	295,000	419,000	29,000	26,100

^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–April	140,000	465,000	21,800	626,000
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
April	34,500	107,000	5,450	146,000
January–April	136,000	447,000	21,800	605,000

^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–April	296,000	52,000	200,000	49,500	-113,000	612,000
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
April	64,600	12,200	74,300	1,580	6,790	143,000
January–April	285,000	50,600	242,000	12,200	9,770	556,000

^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–April	6,920	8,190	8,040	19,900	240,000	13,700	10,400	3,600	310,000
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
April	1,730	2,940	2,010	4,990	59,900	3,150	2,600	900	78,200
January–April	6,920	8,370	8,040	20,000	242,000	14,500	10,400	3,600	314,000

^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					LME ⁵	Total refined
		Refineries ³	Wire-rod mills ³	Brass mills ³	Other ⁴	Comex		
2019: ^P								
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
April	14,600	10,300	19,900	7,210	7,070	38,700	37,200	120,000

^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:			
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
April	236.881	230.631	228.985
January–April	257.127	250.174	249.035

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:				
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
April	219.33	196.05	148.00	125.00
January–April	237.56	211.70	180.75	129.50

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	April	January–April	2019	April	January–April	2019	April	January–April	2019	April	January–April
Belgium	--	--	--	228	--	109	--	--	--	2,300	--	--
Bolivia	--	--	--	13	--	--	--	--	--	1,510	--	264
Canada	(4)	--	--	451	39	73	(4)	--	(4)	138,000	11,500	51,600
Chile	--	--	--	--	--	--	--	--	--	422,000	47,900	147,000
Finland	--	--	--	--	--	--	191	16	68	38	--	--
Germany	--	--	--	(4)	--	--	--	--	--	2,010	193	834
Japan	--	--	--	295	82	82	(4)	(4)	(4)	2,540	272	1,060
Mexico	27,000	--	--	138	(4)	(4)	(4)	--	--	82,300	14,400	35,500
Netherlands	--	--	--	120	--	--	4	(4)	(4)	(4)	(4)	(4)
Peru	(4)	--	--	--	--	--	--	--	--	10,000	--	4,810
Saudi Arabia	--	--	--	98	--	--	--	--	--	--	--	--
Spain	--	--	--	540	--	--	1	--	--	(4)	--	654
Tunisia	--	--	--	--	--	--	35	--	--	--	--	--
Zambia	--	--	--	--	--	--	--	--	--	689	--	--
Other	27	--	--	76	3	4	5	(4)	2	1,160	38	223
Total	27,000	--	--	1,960	123	268	236	17	70	663,000	74,300	242,000

-- 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	April	January–April	2019	April	January–April	2019	April	January–April	2019	April	January–April
Austria	--	--	--	--	--	--	127	--	--	--	--	--
Belgium	161	--	79	3,290	590	2,500	359	--	65	129	--	--
Brazil	5,370	--	--	--	--	--	39	--	10	1	3	3
Bulgaria	15,900	--	--	--	--	--	--	--	--	--	--	--
Canada	14,400	1,090	10,500	14,700	578	3,750	2,600	62	575	32,100	1,060	7,810
China	7	--	--	97	--	(4)	200	22	62	13	2	27
Germany	--	--	--	597	58	91	286	40	100	1	--	--
Hong Kong	--	--	2	19	--	--	279	--	52	20	--	1
India	--	--	1	--	--	--	259	22	98	36	--	--
Italy	--	--	--	--	--	--	208	1	23	26	--	85
Japan	27,400	5,880	5,880	48	--	58	26	--	20	11	(4)	1
Korea, Republic of	15,500	--	3,940	74	--	--	1,520	77	426	682	17	25
Malaysia	35	--	--	--	--	--	188	20	74	1	--	--
Mexico	248,000	26,600	89,100	1,210	--	--	32	(4)	9	92,100	486	4,200
Philippines	11,900	2,050	3,940	--	--	--	56	5	10	2	--	--
Slovakia	--	--	--	1,070	38	469	--	--	--	--	--	--
Spain	22,700	1,840	6,910	259	101	276	61	--	20	--	--	--
Sweden	--	--	--	--	--	--	463	--	135	(4)	--	--
Other	1,940	1,410	1,490	763	135	275	564	27	430	181	13	65
Total	363,000	38,900	122,000	22,200	1,500	7,420	7,270	277	2,110	125,000	1,580	12,200

-- 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	April	January– April	2019	April	January– April
Bahamas	--	--	--	736	6	240
Canada	16,700	1,320	5,200	49,900	3,040	12,900
Chile	--	--	--	1,300	20	20
Colombia	251	12	31	1,050	70	266
Costa Rica	473	35	112	1,160	27	250
Dominican Republic	610	30	213	2,120	70	434
El Salvador	--	--	--	695	12	142
Germany	188	35	103	111	20	43
Guatemala	17	--	--	603	--	87
Honduras	63	--	34	679	--	212
Japan	1,040	--	--	--	--	--
Mexico	11,500	579	2,640	42,100	2,070	12,400
Pakistan	151	--	--	--	--	--
Panama	736	16	369	483	14	122
Suriname	124	--	18	100	--	21
Venezuela	28	--	--	554	27	27
Vietnam	114	13	43	17	1	8
Other	519	47	147	3,850	169	634
Total	32,600	2,080	8,910	105,000	5,540	27,900

-- 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	
		April	January– April	April	January– April	April	April		April	January– April	April	January– April
Belgium	23,600	393	2,020	927	4,990	61	412	14,300	60	351	1,230	3,490
Canada	49,232	--	--	--	--	3,990	18,400	42,035	--	--	1,550	9,030
China	74,800	2,300	8,210	820	5,330	1,830	5,860	13,100	721	899	1,020	2,340
Germany	29,400	1,300	6,220	132	1,630	423	2,350	14,300	23	293	1,900	6,030
Greece	8,180	136	1,990	135	456	117	609	973	18	242	100	394
Hong Kong	19,900	551	1,630	53	136	79	739	30,500	20	903	708	3,780
India	14,400	42	953	61	1,790	116	1,530	45,500	585	7,640	663	5,530
Japan	22,600	159	756	707	2,260	178	1,060	20,300	166	658	1,140	4,070
Korea, Republic of	46,900	2,510	9,970	745	2,600	725	2,970	25,000	389	2,690	902	4,110
Malaysia	65,300	389	1,590	733	3,610	851	8,150	156,000	1,370	5,810	9,290	30,000
Netherlands	4,300	126	570	--	122	318	574	1,010	--	--	99	282
Pakistan	882	--	13	40	294	--	--	19,800	--	82	328	4,540
Poland	5,450	382	1,540	--	514	119	762	45	--	--	524	914
Spain	1,510	19	142	248	559	124	282	8,510	218	1,010	552	1,710
Taiwan	20,300	412	2,320	174	1,360	565	3,670	20,300	185	1,150	781	3,250
Thailand	4,120	27	771	60	592	196	1,230	16,300	114	1,590	1,070	3,700
Other	31,200	1,500	6,270	593	5,200	771	3,850	21,300	204	1,230	1,250	5,460
Total	422,000	10,300	45,000	5,430	31,400	10,500	52,400	450,000	4,080	24,500	23,100	88,700

-- Zero.

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

Source: U.S. Census Bureau.