Mineral Industry Surveys

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COPPER IN MAY 2022

In May 2022, domestic mine output of recoverable copper was 107,000 metric tons (t). The average daily mine production was 3,460 t, unchanged from that in April and 8% higher than that in May 2021 (fig. 1). Year-to-date recoverable mine production was 519,000 t, an increase of 6% compared with that through May 2021 (table 2).

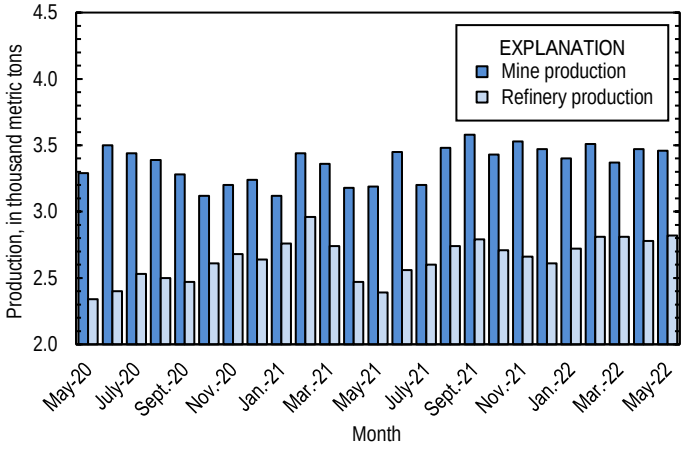

Figure 1. Average daily copper mine (recoverable) and refinery (primary and secondary) production in the United States from May 2020 through May 2022.

Owing to indefinite closures of ASARCO LLC's smelter in Arizona and electrolytic refinery in Texas since October 2019, smelter and electrolytic refinery production reported to the U.S. Geological Survey in May 2022 were withheld to avoid disclosing company proprietary data. Smelter and electrolytic refinery output in tables 3 and 4 are estimates based on information in annual and quarterly company reports. As of May 2022, ASARCO had not publicly announced when operations were expected to resume. The company's three copper mines and two electrowon refineries in Arizona continued to operate during the smelter and electrolytic refinery stoppages (Grupo México, S.A.B. de C.V., 2021, p. 83).

Estimated smelter output in the United States was 35,000 t in May 2022. Year-to-date estimated smelter production was 175,000 t, 13% greater than that through May 2021 (table 3).

Total U.S. refinery production was 87,300 t in May 2022; data for electrolytic and electrowon output, as well as refined production from scrap, are reported in table 4. Average daily refinery production was 2,820 t, a slight increase from that in April and 18% higher than that in May 2021 (fig. 1). Year-to-date refinery output was 421,000 t, an increase of 5% relative to the same time period in 2021.

Prices

In May 2022, the average Commodity Exchange Inc. (COMEX) copper price was $4.25 per pound, a decrease of 8% compared with $4.64 per pound in April 2022 and May 2021 (fig. 2, table 11). The lower copper price was attributed by analysts primarily to reduced demand resulting from ongoing coronavirus-related lockdowns in China since late March (Keen, 2022; Soares, 2022). In 2021, China accounted for 55% of global refined copper consumption (International Copper Study Group, 2022, p. 19). The average U.S. dealers buying price of number 2 copper scrap was $3.28 per pound in May 2022, a decline of 8% from $3.55 per pound in April and 4% less than $3.42 per pound in May 2021 (fig. 2, table 12).

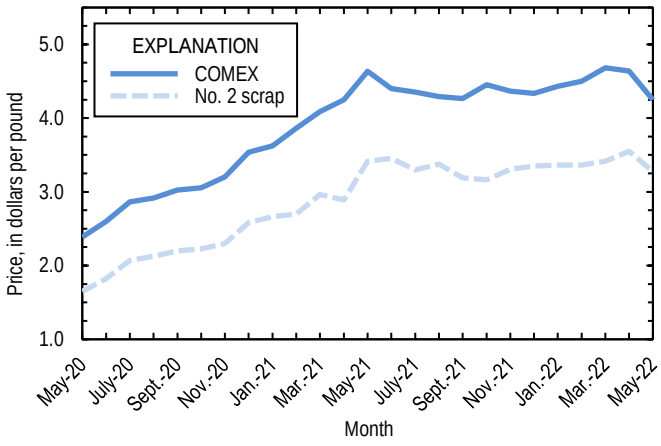

Figure 2. Monthly average Commodity Exchange Inc. (COMEX) copper price and no. 2 copper scrap U.S. dealers buying price from May 2020 through May 2022. Sources: Fastmarkets-AMM and S&P Global Platts Metals Week.

Stocks

Refined copper stocks in the United States totaled 127,000 t at the end of May 2022, a decrease of 5% from those in April and an increase of 47% compared with those in May 2021. London Metal Exchange Ltd. stocks in U.S. warehouses decreased by 1,730 t (6%), and COMEX stocks fell by 3,960 t (5%) from those at the end of April (fig. 3, table 10).

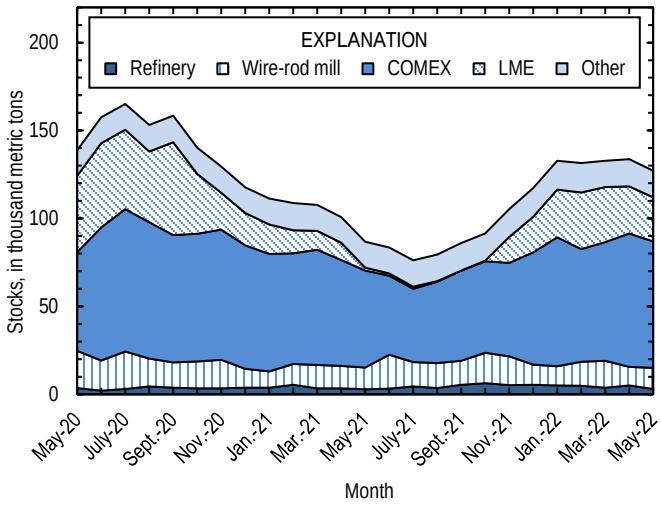

Figure 3. Domestic refined copper stocks at end of month, by type, from May 2020 through May 2022. Sources: London Metal Exchange Ltd., S&P Global Platts Metals Week, and U.S. Geological Survey.

Industry News

Peru.—On May 2, Southern Copper Corp. announced that the Cuajone Mine was operating at full capacity for the first time since February 28, when production was suspended owing to protests by the local community. According to the company, the shutdown resulted in a loss of approximately 15,300 t of copper. The Cuajone Mine produced 169,000 t of copper in concentrates in 2021, equivalent to about 1% of global mined copper output (Grupo México, S.A.B. de C.V., 2022, p. 202; Southern Copper Corp., 2022).

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TABLE 1
SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES[1]

(Metric tons, copper content, unless otherwise specified)

	Source table[2]	2021[p]	2022			
			March	April	May	January–May
Production:						
Primary (from ore):						
Mine, recoverable[3]	(2)	1,230,000	104,000	104,000	107,000	519,000
Smelter[e, 4]	(3)	360,000	35,000	35,000	35,000	175,000
Refinery:						
Electrolytic[e]	(4)	360,000	35,000	35,000	35,000	175,000
Electrowon	(4)	563,000	48,600	45,000	49,100	229,000
Total	(4)	923,000	83,600	80,000	84,100	404,000
Secondary (from copper-base scrap):[5]						
Refineries[6]	(5)	48,900	3,490	3,250	3,220	17,200
Ingot makers[e, 7]	(5)	51,600	4,300	4,300	4,300	21,500
Brass and wire-rod mills	(5)	655,000	54,800	53,700	53,400	270,000
Foundries, etc.[e, 7]	(5)	38,800	3,230	3,230	3,230	16,200
Consumption:						
Reported, refined copper	(7)	1,770,000	155,000	153,000	149,000	749,000
Apparent, primary refined and copper from old scrap[8]	(8)	1,960,000	142,000	155,000	175,000	812,000
Reported, purchased copper-base scrap (gross weight)	(9)	919,000	76,500	74,800	74,400	376,000
Stocks at end of period:						
Refined[9]	(10)	117,000	133,000	134,000	127,000	127,000
Blister and anodes	(10)	16,100	12,200	16,100	11,500	11,500
Price, U.S. producers cathode (cents per pound)[10]	(11)	432.264	477.228	473.388	434.929	459.174
Imports for consumption:[11]						
Ore and concentrates	(13)	11,000	1,950	--	--	3,490
Refined	(13)	919,000	48,700	64,800	74,300	363,000
Exports:[11]						
Ore and concentrates	(14)	347,000	26,100	23,100	29,400	132,000
Refined	(14)	47,600	2,590	2,820	2,890	13,900

[e]Estimated. [p]Preliminary.
[1]Data are rounded to no more than three significant digits, except prices; may not add to totals shown.
[2]Numbers in parentheses refer to the tables where these data are located.
[3]Includes the recoverable copper content of concentrates (of copper and other metals), copper produced by solvent extraction and electrowinning, and copper recovered as precipitates.
[4]May contain small quantities of copper from scrap.
[5]Copper recovered from copper-base scrap and converted to refined metal, alloys, and other forms. Does not include copper recovered from scrap other than copper-base.
[6]Electrolytically refined and fire-refined copper.
[7]Plants are surveyed by the U.S. Geological Survey on an annual basis; data after 2020 not yet available. Monthly data are estimated based on the monthly average of 2020 annual data.
[8]Primary refined copper production plus copper recovered from old scrap (of copper-base and non-copper-base) plus refined imports for consumption minus refined exports, including adjustments for changes in refined stocks. Old scrap consists of copper items used by consumers.
[9]Stocks of refined copper at brass mills, exchanges, refineries, wire-rod mills, and other manufacturers.
[10]Source: S&P Global Platts Metals Week. Sum of the monthly average Commodity Exchange Inc. (COMEX) price and New York dealers cathode premium; reflects the delivered spot price of copper cathode to U.S. consumers by U.S. producers.
[11]Source: U.S. Census Bureau. See tables 13 and 14 for listings of the relevant Harmonized Tariff Schedule (imports) and Schedule B (exports) codes.

TABLE 2
MINE PRODUCTION OF COPPER IN THE UNITED STATES[1]

(Metric tons)

Period	Recoverable copper[2]			Contained copper		
	Arizona	Others[3]	Total	Electrowon	Concentrates[4]	Total
2021:[p]						
January–May	354,000	138,000	492,000	226,000	277,000	503,000
May	68,400	30,600	99,000	44,400	56,800	101,000
June	74,200	29,200	103,000	46,600	59,000	106,000
July	68,200	31,000	99,200	47,200	54,100	101,000
August	76,000	31,800	108,000	51,300	58,800	110,000
September	75,400	32,100	107,000	49,000	60,800	110,000
October	73,100	33,200	106,000	50,400	57,900	108,000
November	73,500	32,300	106,000	45,800	62,300	108,000
December	75,000	32,400	107,000	46,900	63,000	110,000
January–December	869,000	360,000	1,230,000	563,000	692,000	1,260,000
2022:						
January	72,200	33,200	105,000	45,500	62,200	108,000
February	66,500	31,600	98,100	40,400	60,000	100,000
March	73,100	31,200	104,000	48,600	57,900	106,000
April	71,500	32,700	104,000	45,000	61,400	106,000
May	74,600	32,600	107,000	49,100	60,300	109,000
January–May	358,000	161,000	519,000	229,000	302,000	530,000

[p]Preliminary.
[1]Data are rounded to no more than three significant digits; may not add to totals shown.
[2]Includes the recoverable copper content of concentrates (of copper and other metals), copper produced by solvent extraction and electrowinning, and copper recovered as precipitates.
[3]Includes production from Michigan, Missouri, Montana, Nevada, New Mexico, and Utah.
[4]Includes the contained copper content of concentrates (of copper and other metals) and copper recovered as precipitates.

TABLE 3
COPPER PRODUCED AT SMELTERS IN
THE UNITED STATES[1, 2]

(Metric tons, copper content)

Period	Anode production[e, 3]
2021:[p]	
January–May	155,000
May	25,000
June	25,000
July	30,000
August	30,000
September	30,000
October	30,000
November	30,000
December	30,000
January–December	360,000
2022:	
January	35,000
February	35,000
March	35,000
April	35,000
May	35,000
January–May	175,000

[e]Estimated. [p]Preliminary.
[1]Data are rounded to no more than three significant digits; may not add to totals shown.
[2]Primary production. May contain small quantities of copper from scrap.
[3]To avoid disclosing company proprietary data, monthly smelter production data are estimated based on information in annual and quarterly public company reports and do not reflect actual production reported to the U.S. Geological Survey.

TABLE 4
U.S. PRODUCTION OF REFINED COPPER[1]

(Metric tons)

Period	From primary materials			From scrap[3]	Total refined
	Electrolytic[e, 2]	Electrowon	Total primary		
2021:[p]					
January–May	155,000	226,000	381,000	20,600	402,000
May	25,000	44,400	69,400	4,560	74,000
June	25,000	46,600	71,600	5,060	76,700
July	30,000	47,200	77,200	3,340	80,500
August	30,000	51,300	81,300	3,750	85,000
September	30,000	49,000	79,000	4,590	83,500
October	30,000	50,400	80,400	3,540	84,000
November	30,000	45,800	75,800	3,990	79,800
December	30,000	46,900	76,900	4,060	80,900
January–December	360,000	563,000	923,000	48,900	972,000
2022:					
January	35,000	45,500	80,500	3,990	84,400
February	35,000	40,400	75,400	3,280	78,700
March	35,000	48,600	83,600	3,490	87,100
April	35,000	45,000	80,000	3,250	83,300
May	35,000	49,100	84,100	3,220	87,300
January–May	175,000	229,000	404,000	17,200	421,000

[e]Estimated. [p]Preliminary.
[1]Data are rounded to no more than three significant digits; may not add to totals shown.
[2]To avoid disclosing company proprietary data, monthly electrolytically refined production data are estimated based on information in annual and quarterly public company reports and do not reflect actual production reported to the U.S. Geological Survey.
[3]Electrolytically refined and fire-refined copper.

TABLE 5
COPPER RECOVERED AS REFINED COPPER AND IN ALLOYS AND OTHER FORMS FROM PURCHASED COPPER-BASE SCRAP IN THE UNITED STATES[1, 2]

(Metric tons)

Period	Refineries[3]		Ingot makers[e, 4]		Brass and wire-rod mills		Foundries, etc.[e, 4]		Total[5]
	New scrap[e]	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2021:[p]									
January–May	8,390	12,200	1,970	19,500	261,000	18,700	3,820	12,300	338,000
May	1,680	2,890	394	3,910	50,600	3,600	763	2,470	66,300
June	1,680	3,390	394	3,910	50,100	3,430	763	2,470	66,100
July	1,680	1,660	394	3,910	50,400	3,330	763	2,470	64,600
August	1,680	2,080	394	3,910	50,500	3,540	763	2,470	65,400
September	1,680	2,910	394	3,910	51,300	3,130	763	2,470	66,500
October	1,680	1,860	394	3,910	51,900	3,490	763	2,470	66,400
November	1,680	2,320	394	3,910	50,900	3,080	763	2,470	65,500
December	1,680	2,380	394	3,910	48,500	2,480	763	2,470	62,600
January–December	20,100	28,800	4,730	46,900	614,000	41,100	9,160	29,600	795,000
2022:									
January	1,680	2,310	394	3,910	51,800	4,470	763	2,470	67,800
February	1,680	1,600	394	3,910	48,100	3,530	763	2,470	62,500
March	1,680	1,810	394	3,910	50,900	3,950	763	2,470	65,900
April	1,680	1,570	394	3,910	49,900	3,750	763	2,470	64,400
May	1,680	1,540	394	3,910	49,800	3,640	763	2,470	64,100
January–May	8,390	8,840	1,970	19,500	250,000	19,300	3,820	12,300	325,000

[e]Estimated. [p]Preliminary.

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

[2]New scrap refers to material generated during the manufacturing process. Old scrap consists of copper items used by consumers.

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

[4]Plants are surveyed by the U.S. Geological Survey on an annual basis; data after 2020 not yet available. Monthly data are estimated based on the monthly average of 2020 annual data.

[5]Does not include an estimate, based on 2020 annual data, of 2,670 tons per month from new scrap and 1,870 tons per month from old scrap of copper recovered from scrap other than copper-base.

TABLE 6

U.S. PRODUCTION, SHIPMENTS, AND STOCKS OF BRASS AND WIRE-ROD SEMIFABRICATES[1]

(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
2021:[p]						
January–May	371,000	574,000	371,000	575,000	28,400	18,300
May	73,200	120,000	73,300	117,000	28,400	18,300
June	74,200	119,000	74,000	119,000	28,600	19,100
July	74,600	112,000	74,800	114,000	28,400	17,000
August	74,600	117,000	74,500	113,000	28,600	21,200
September	74,000	118,000	74,300	120,000	28,300	18,800
October	74,600	115,000	74,400	110,000	28,600	23,400
November	74,500	115,000	74,300	110,000	28,800	29,200
December	74,400	86,100	74,200	95,100	29,100	20,200
January–December	892,000	1,360,000	892,000	1,360,000	29,100	20,200
2022:						
January	74,300	117,000	74,300	114,000	29,100	25,400
February	76,000	103,000	75,800	107,000	29,300	19,300
March	76,900	118,000	77,000	116,000	29,300	21,500
April	76,300	117,000	76,100	112,000	29,500	26,200
May	74,200	112,000	74,300	116,000	29,400	21,900
January–May	378,000	568,000	377,000	566,000	29,400	21,900

[p]Preliminary.

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

TABLE 7
U.S. CONSUMPTION OF REFINED COPPER[1]

(Metric tons)

Period	Brass mills	Wire-rod mills	Other plants[e, 2]	Total
2021:[p]				
January–May	173,000	545,000	25,900	744,000
May	34,100	119,000	5,180	158,000
June	34,200	112,000	5,180	151,000
July	34,400	108,000	5,180	147,000
August	34,500	113,000	5,180	153,000
September	34,700	112,000	5,180	152,000
October	34,700	109,000	5,180	148,000
November	34,300	110,000	5,180	150,000
December	34,700	81,800	5,180	122,000
January–December	415,000	1,290,000	62,100	1,770,000
2022:				
January	34,900	111,000	5,180	151,000
February	34,800	101,000	5,180	141,000
March	36,600	114,000	5,180	155,000
April	34,600	113,000	5,180	153,000
May	34,900	109,000	5,180	149,000
January–May	176,000	548,000	25,900	749,000

[e]Estimated. [p]Preliminary.

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

[2]Chemical plants, foundries, ingot makers, and miscellaneous manufacturers. These plants are surveyed by the U.S. Geological Survey on an annual basis; data after 2020 not yet available. Monthly data are estimated based on the monthly average of 2020 annual data.

TABLE 8
U.S. APPARENT CONSUMPTION OF COPPER[1]

(Metric tons)

Period	Primary refined copper production	Copper in old scrap[2]	Refined imports for consumption[3]	Refined exports[3]	Refined stock change during period	Apparent consumption[4]
2021:[p]						
January–May	381,000	72,100	367,000	21,600	-31,100	829,000
May	69,400	14,700	66,600	5,600	-14,100	159,000
June	71,600	15,100	69,600	6,880	-3,100	152,000
July	77,200	13,200	57,100	5,270	-7,320	150,000
August	81,300	13,900	105,000	1,830	3,260	195,000
September	79,000	14,300	90,700	2,300	6,480	175,000
October	80,400	13,600	92,300	3,490	5,550	177,000
November	75,800	13,600	60,000	2,630	13,900	133,000
December	76,900	13,100	77,300	3,630	11,900	152,000
January–December	923,000	169,000	919,000	47,600	-513	1,960,000
2022:						
January	80,500	15,000	140,000	2,530	15,500	218,000
February	75,400	13,400	34,300	3,110	-1,320	121,000
March	83,600	14,000	48,700	2,590	1,350	142,000
April	80,000	13,600	64,800	2,820	794	155,000
May	84,100	13,400	74,300	2,890	-6,470	175,000
January–May	404,000	69,400	363,000	13,900	9,850	812,000

[p]Preliminary.
[1]Data are rounded to no more than three significant digits; may not add to totals shown.
[2]Copper recovered from old scrap (of copper-base and non-copper-base) and converted to refined metal, alloys, and other forms. Includes reported monthly production and estimates for annual reporters based on the monthly average of 2020 annual data. Old scrap consists of copper items used by consumers.
[3]Source: U.S. Census Bureau. Includes Harmonized Tariff Schedule (imports) and Schedule B (exports) codes 7403.11.0000, 7403.12.0000, 7403.13.0000, and 7403.19.0000.
[4]Primary refined copper production plus copper in old scrap plus refined imports for consumption minus refined exports minus refined stock change during period.

TABLE 9

U.S. CONSUMPTION OF PURCHASED COPPER-BASE SCRAP[1, 2]

(Metric tons, gross weight)

Period	Smelters and refineries		Ingot makers[e, 3]		Brass and wire-rod mills[4]		Foundries, etc.[e, 3]		Total
	New scrap[e]	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2021:[p]									
January–May	8,650	12,600	5,250	23,000	301,000	19,600	4,490	14,500	389,000
May	1,730	2,980	1,050	4,600	58,800	3,820	897	2,900	76,700
June	1,730	3,490	1,050	4,600	58,200	3,680	897	2,900	76,600
July	1,730	1,710	1,050	4,600	58,500	3,520	897	2,900	74,900
August	1,730	2,140	1,050	4,600	58,700	3,750	897	2,900	75,800
September	1,730	3,000	1,050	4,600	59,300	3,260	897	2,900	76,800
October	1,730	1,920	1,050	4,600	59,900	3,630	897	2,900	76,700
November	1,730	2,390	1,050	4,600	59,000	3,240	897	2,900	75,800
December	1,730	2,450	1,050	4,600	56,500	2,610	897	2,900	72,800
January–December	20,700	29,700	12,600	55,200	711,000	43,200	10,800	34,800	919,000
2022:									
January	1,730	2,380	1,050	4,600	59,800	4,610	897	2,900	78,000
February	1,730	1,650	1,050	4,600	56,200	3,720	897	2,900	72,800
March	1,730	1,870	1,050	4,600	59,200	4,250	897	2,900	76,500
April	1,730	1,620	1,050	4,600	58,100	3,980	897	2,900	74,800
May	1,730	1,590	1,050	4,600	57,800	3,810	897	2,900	74,400
January–May	8,650	9,110	5,250	23,000	291,000	20,400	4,490	14,500	376,000

[e]Estimated. [p]Preliminary.

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

[2]New scrap refers to material generated during the manufacturing process. Old scrap consists of copper items used by consumers.

[3]Plants are surveyed by the U.S. Geological Survey on an annual basis; data after 2020 not yet available. Monthly data are estimated based on the monthly average of 2020 annual data.

[4]Consumption at brass and wire-rod mills assumed equal to receipts.

TABLE 10
COPPER STOCKS IN THE UNITED STATES AT END OF PERIOD[1]

(Metric tons, copper content)

Period	Blister and anodes	Refined copper						
		Refineries	Wire-rod mills	Brass mills	Other[e, 2]	COMEX[3]	LME[4]	Total refined
2021:[p]								
May	13,100	2,860	12,400	7,850	6,850	55,100	1,630	86,600
June	10,300	3,230	19,300	7,950	6,850	45,000	1,180	83,500
July	12,300	4,410	14,000	8,190	6,850	41,600	1,180	76,200
August	12,000	3,620	14,200	8,330	6,850	46,100	400	79,500
September	10,200	5,400	13,700	8,670	6,850	51,200	125	86,000
October	15,700	6,400	17,200	8,640	6,850	52,100	325	91,500
November	15,900	5,250	16,300	9,080	6,850	53,200	14,700	105,000
December	16,100	5,440	11,500	9,500	6,850	63,800	20,200	117,000
2022:								
January	11,800	5,000	10,900	9,530	6,850	73,300	27,200	133,000
February	13,300	4,870	13,700	9,860	6,850	63,900	32,300	131,000
March	12,200	3,690	15,400	8,160	6,850	67,400	31,300	133,000
April	16,100	4,990	10,600	8,620	6,850	75,800	26,800	134,000
May	11,500	3,090	12,000	8,330	6,850	71,800	25,100	127,000

[e]Estimated. [p]Preliminary.
[1]Data are rounded to no more than three significant digits; may not add to totals shown.
[2]Chemical plants, foundries, ingot makers, and miscellaneous manufacturers. These plants are surveyed by the U.S. Geological Survey on an annual basis; data after 2020 not yet available. Monthly data are estimated based on yearend 2020 stocks.
[3]Commodity Exchange Inc.
[4]London Metal Exchange Ltd., U.S. warehouses.

TABLE 11
AVERAGE PRICES FOR REFINED COPPER IN THE UNITED STATES
AND ON THE LONDON METAL EXCHANGE

(Cents per pound)

Period	COMEX first position[1]	U.S. producers cathode[2]	LME grade A cash[3]
2021:			
May	463.535	471.410	461.937
June	439.832	448.082	436.012
July	435.479	443.779	427.900
August	429.230	437.543	424.435
September	426.538	434.888	422.916
October	445.112	453.612	443.497
November	436.574	445.074	442.914
December	433.320	441.820	433.140
Year	424.306	432.264	422.496
2022:			
January	443.113	451.613	443.364
February	450.211	458.711	450.870
March	468.228	477.228	464.329
April	463.763	473.388	461.863
May	424.929	434.929	424.657
January–May	450.049	459.174	449.017

[1]Listed as "COMEX high grade first position." COMEX refers to the Commodity Exchange Inc.
[2]Sum of "COMEX high grade first position" and "NY dealer premium cathode." Reflects the delivered spot price of copper cathode to U.S. consumers by U.S. producers.
[3]LME refers to the London Metal Exchange Ltd.

Source: S&P Global Platts Metals Week.

TABLE 12
AVERAGE BUYING PRICES FOR COPPER SCRAP IN THE UNITED STATES

(Cents per pound)

Period	Brass mills no. 1 scrap	Refiners no. 2 scrap	Dealers	
			No. 2 scrap	Red brass turnings and borings
2021:				
May	444.95	405.23	341.50	239.00
June	421.77	381.68	345.50	230.50
July	417.36	374.12	330.00	227.00
August	410.36	368.41	337.50	238.00
September	409.62	368.38	319.00	229.00
October	430.88	390.64	316.50	222.00
November	423.05	383.05	330.50	222.00
December	420.45	380.45	335.00	230.00
Year	408.14	369.04	314.79	212.63
2022:				
January	433.10	393.50	336.50	235.00
February	440.32	399.84	336.50	225.00
March	459.30	423.17	341.50	217.00
April	454.35	418.85	355.00	211.50
May	414.90	379.40	327.50	196.50
January–May	440.39	402.95	339.40	217.00

Source: Fastmarkets-AMM.

TABLE 13

U.S. IMPORTS FOR CONSUMPTION OF UNMANUFACTURED COPPER[1]

(Metric tons, copper content)

Country or locality	Ore and concentrates[2]			Matte, ash, and precipitates[3]			Blister and anodes[4]			Refined[5]		
		2022			2022			2022			2022	
	2021	May	January–May	2021	May	January–May	2021	May	January–May	2021	May	January–May
Belgium	--	--	--	236	--	97	--	--	--	29	--	2
Bolivia	--	--	--	--	--	--	--	--	--	763	--	--
Brazil	--	--	--	--	--	--	--	--	--	5,720	--	--
Canada	11,000	--	3,490	651	23	162	(6)	--	(6)	141,000	13,000	44,800
Chile	--	--	--	--	--	--	--	--	--	613,000	47,600	250,000
China	--	--	--	--	--	--	--	--	(6)	654	238	382
Congo (Kinshasa)	--	--	--	--	--	--	--	--	--	22,200	195	8,330
Finland	--	--	--	--	--	--	371	15	74	35	--	39
Germany	--	--	--	155	--	94	(6)	--	--	2,150	378	1,400
Japan	1	--	--	483	--	--	1	--	(6)	1,440	191	623
Mexico	--	--	--	8	(6)	2	(6)	--	--	87,300	6,880	36,400
Peru	--	--	--	--	--	--	--	--	--	28,500	5,810	19,100
Russia	--	--	--	--	--	--	--	--	--	3,900	--	--
South Africa	--	--	--	--	--	--	--	--	--	277	--	--
Zambia	--	--	--	--	--	--	--	--	--	11,400	--	1,230
Other	10	--	(6)	49	14	14	12	1	17	155	12	52
Total	11,000	--	3,490	1,580	36	368	384	16	91	919,000	74,300	363,000

-- Zero.

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

[2]Harmonized Tariff Schedule of the United States (HTS) code 2603.00.0010. Includes copper ore and concentrates only; excludes copper contained in ore and concentrates of other metals.

[3]HTS codes 2620.30.0010 and 7401.00.0000. Includes copper matte, ash, and precipitates only; excludes the copper content of mattes and ashes of other metals.

[4]HTS code 7402.00.0000.

[5]HTS codes 7403.11.0000, 7403.12.0000, 7403.13.0000, and 7403.19.0000.

[6]Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 14

U.S. EXPORTS OF UNMANUFACTURED COPPER[1]

(Metric tons, copper content)

Country or locality	Ore and concentrates[2]			Matte, ash, and precipitates[3]			Blister and anodes[4]			Refined[5]		
		2022			2022			2022			2022	
	2021	May	January–May	2021	May	January–May	2021	May	January–May	2021	May	January–May
Belgium	246	17	37	6,120	483	2,510	1,490	15	120	--	--	--
Canada	39,500	3,770	13,600	16,200	2,270	7,240	18,800	45	469	24,700	1,920	7,710
China	65,600	7,500	22,200	548	--	28	171	--	20	3,190	210	1,550
Dominican Republic	202	9	63	--	--	--	--	--	--	10	--	(6)
Finland	783	--	--	--	--	--	--	--	--	--	--	--
Germany	784	--	--	430	19	39	190	--	20	20	--	1
Hong Kong	2	--	--	44	--	(6)	310	--	11	9	--	--
India	--	--	--	30	--	--	433	110	414	--	--	(6)
Italy	--	--	--	--	--	--	113	--	67	22	1	5
Japan	6,350	35	3,690	760	164	200	17	--	1	11	--	2
Korea, Republic of	2,370	--	38	171	--	60	1,320	186	600	30	--	--
Malaysia	5	6	6	47	--	48	188	19	59	13	--	1
Mexico	228,000	18,000	88,000	33	--	1	258	1	177	19,100	744	4,520
Philippines	2,350	--	2,320	1	--	(6)	39	60	60	--	--	35
Singapore	--	--	--	300	28	28	92	1	40	22	2	6
Slovakia	--	--	--	1,450	50	497	--	--	--	--	--	--
Spain	--	--	--	1,130	117	680	20	--	22	(6)	--	(6)
Taiwan	1,490	--	--	19	--	16	291	20	40	282	--	22
Trinidad and Tobago	--	--	--	--	--	--	157	--	--	--	--	--
Other	92	--	1,580	208	1	460	499	109	224	125	13	89
Total	347,000	29,400	132,000	27,500	3,130	11,800	24,400	565	2,350	47,600	2,890	13,900

-- Zero.

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

[2]Schedule B of the United States code 2603.00.0010. Includes copper ore and concentrates only; excludes copper contained in ore and concentrates of other metals.

[3]Schedule B codes 2620.30.0000, 7401.00.0010, and 7401.00.0050. Includes copper matte, ash, and precipitates only; excludes the copper content of mattes and ashes of other metals.

[4]Schedule B code 7402.00.0000.

[5]Schedule B codes 7403.11.0000, 7403.12.0000, 7403.13.0000, and 7403.19.0000.

[6]Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 15
U.S. IMPORTS FOR CONSUMPTION OF COPPER SCRAP[1]

(Metric tons, gross weight)

Country or locality	Unalloyed[2]			Alloyed[3]		
		2022			2022	
	2021	May	January–May	2021	May	January–May
Bahamas	--	--	--	608	150	339
Bolivia	114	--	--	442	--	57
Canada	19,900	1,490	8,010	48,200	3,900	17,400
Cayman Islands	--	--	--	219	13	91
Colombia	174	19	78	643	12	86
Costa Rica	729	59	300	1,480	316	659
Dominican Republic	1,550	131	682	2,720	243	1,110
Ecuador	88	--	12	277	--	42
El Salvador	--	--	--	583	205	531
Germany	210	30	108	191	--	2
Guatemala	--	--	--	484	39	157
Honduras	75	1	9	907	65	258
Jamaica	7	4	7	159	73	197
Mexico	12,600	958	4,730	43,800	3,720	17,800
Panama	1,040	75	537	496	35	177
Peru	19	--	--	439	--	185
Suriname	254	43	160	58	1	25
Uruguay	481	--	33	58	--	10
Venezuela	--	--	--	675	5	21
Vietnam	114	16	62	64	11	50
Other	301	--	89	2,060	177	1130
Total	37,700	2,830	14,800	105,000	8,960	40,400

-- Zero.

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

[2]Harmonized Tariff Schedule of the United States (HTS) codes 7404.00.3020 and 7404.00.6020.

[3]HTS codes 7404.00.3045, 7404.00.3055, 7404.00.3065, 7404.00.3090, 7404.00.6045, 7404.00.6055, 7404.00.6065, and 7404.00.6090.

Source: U.S. Census Bureau.

TABLE 16

U.S. EXPORTS OF COPPER SCRAP[1]

(Metric tons, gross weight)

Country or locality	Unalloyed[2]							Alloyed[3]				
		2022							2022			
		No. 1		No. 2		Other			Segregated		Unsegregated	
	2021	May	January–May	May	January–May	May	January–May	2021	May	January–May	May	January–May
Austria	1,250	--	--	20	450	--	--	193	--	--	--	--
Belgium	20,700	1,980	7,060	782	4,460	665	3,260	8,520	134	623	1,080	2,690
Canada	61,000	--	--	--	--	5,290	26,300	53,900	--	--	3,780	18,400
Chile	2,380	--	21	--	--	--	--	345	--	--	--	--
China	195,000	6,740	33,300	4,320	24,200	8,540	56,700	43,300	1,880	8,810	1,330	4,300
Germany	19,100	782	4,640	62	425	308	1,060	15,300	39	738	993	5,890
Greece	15,000	473	2,580	--	42	200	1,590	2,140	18	149	250	895
Hong Kong	23,100	128	673	1,240	6,120	509	3,730	7,570	40	160	180	2,670
India	12,800	554	3,420	375	1,050	1,560	4,360	39,600	2,380	8,100	4,590	14,300
Japan	19,900	412	1,500	1,320	8,650	422	1,380	7,490	72	584	516	2,480
Korea, Republic of	47,200	1,640	7,000	665	5,400	860	5,400	17,100	480	2,290	414	4,660
Malaysia	63,900	364	1,860	271	1,160	1,850	8,600	88,200	924	5,100	2,530	12,900
Mexico	3,590	294	1,280	--	--	16	65	4,640	142	758	326	1,970
Netherlands	2,950	480	2,720	--	296	58	699	569	--	20	--	1,010
Pakistan	476	301	698	18	145	9	9	24,400	79	352	2,410	10,400
Poland	11,300	178	805	--	137	1,250	4,300	2,280	--	39	90	426
Russia	1,410	--	--	--	39	--	77	766	--	--	--	38
Slovakia	1,850	294	752	--	--	--	--	1,760	488	1,470	--	120
Spain	2,960	62	1,290	--	20	137	866	7,070	399	901	451	2,020
Sweden	1,080	--	--	--	--	73	258	2,480	--	--	107	664
Taiwan	13,800	341	1,630	230	1,340	917	4,280	6,310	137	487	125	939
Thailand	9,750	358	1,400	57	341	1,880	8,830	35,900	270	1,090	2,890	15,800
United Arab Emirates	1,770	328	630	--	21	--	--	3,320	--	--	809	2,370
Other	6,440	201	1,180	67	302	44	265	5,020	50	218	1,010	2,140
Total	539,000	15,900	74,500	9,430	54,600	24,600	132,000	378,000	7,530	31,900	23,900	107,000

-- Zero.

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

[2]Schedule B of the United States codes 7404.00.0010 and 7404.00.0015 (no. 1), 7404.00.0025 (no. 2), and 7404.00.0030 (other).

[3]Schedule B codes for segregated alloyed copper scrap are 7404.00.0041, 7404.00.0046, 7404.00.0051, 7404.00.0056, 7404.00.0061, 7404.00.0066, and 7404.00.0075. Schedule B codes for unsegregated alloyed copper scrap are 7404.00.0085 and 7404.00.0095.

Source: U.S. Census Bureau.