

Mineral Industry Surveys

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COPPER IN OCTOBER 2022

In October 2022, mine output of recoverable copper in the United States was 104,000 metric tons (t). The average daily mine production was 3,350 t, essentially unchanged from that in September and 3% lower than that in October 2021 (fig. 1). Year-to-date recoverable mine production was 1.04 million metric tons, a slight increase compared with that through October 2021 (table 2).

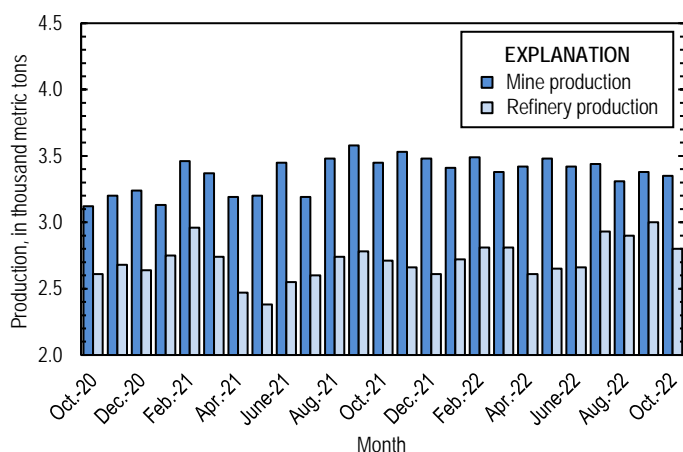


Figure 1. Average daily copper mine (recoverable) and refinery (primary and secondary) production in the United States from October 2020 through October 2022.

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 October 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 October 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 domestic smelter production was 35,000 t in October 2022. Year-to-date estimated smelter output was 350,000 t, 17% higher than that through October 2021 (table 3).

Total U.S. refinery production was 86,900 t in October 2022; data for electrolytic and electrowon output, as well as refined production from scrap, are reported in table 4. The average daily refinery production was 2,800 t, a decrease of 6% from that in September and 4% greater than that in October 2021 (fig. 1). Year-to-date refinery output was 848,000 t, an increase of 5% relative to the same time period in 2021.

Prices

In October 2022, the average Commodity Exchange Inc. (COMEX) copper price was \$3.47 per pound, unchanged from that in September and 22% less than \$4.45 per pound in October 2021 (fig. 2, table 11). The average U.S. dealers buying price of number 2 copper scrap was \$2.48 per pound in October 2022, a decrease of 3% compared with \$2.55 per pound in September and 22% lower than \$3.17 per pound in October 2021 (fig. 2, table 12).

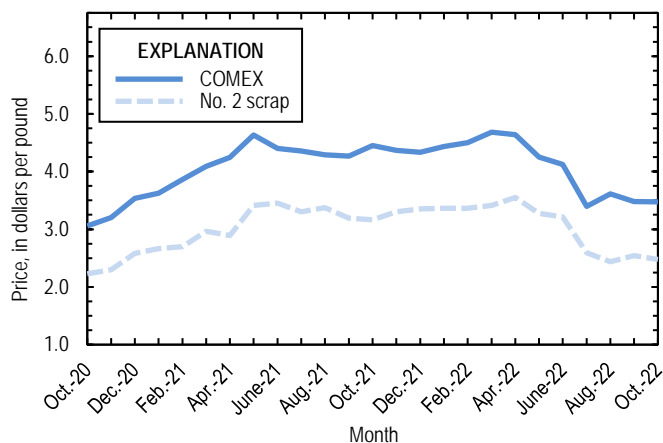


Figure 2. Monthly average Commodity Exchange Inc. (COMEX) copper price and no. 2 copper scrap U.S. dealers buying price from October 2020 through October 2022. Sources: Fastmarkets-AMM and S&P Global Platts Metals Week.

Stocks

Refined copper stocks in the United States totaled 103,000 t at the end of October 2022, a decrease of 11% from those in September and 12% higher than those in October 2021.

COMEX stocks decreased by 7,370 t (18%) and London Metal Exchange Ltd. stocks in U.S. warehouses were 3,930 t (11%) lower relative to those at the end of September (fig. 3, table 10).

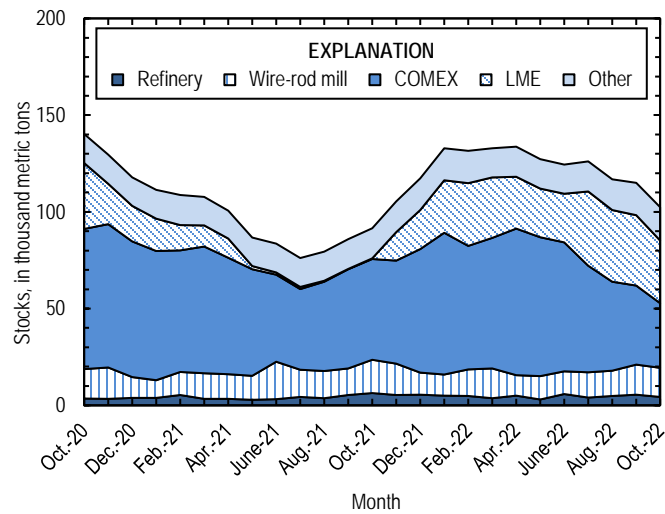


Figure 3. Domestic refined copper stocks at end of month, by type, from October 2020 through October 2022. Sources: London Metal Exchange Ltd., S&P Global Platts Metals Week, and U.S. Geological Survey.

Industry News

China.—Daye Nonferrous Metals Co. Ltd. commenced operations at a new copper smelter in Hubei province with a capacity of 400,000 metric tons per year of copper anode. According to International Copper Study Group data, the facility will be ranked among the twenty leading copper smelters in the world and account for nearly 2% of global anode capacity once the rampup to full production is complete (International Copper Study Group, 2022, p. 189–211; Zhang, 2022).

References Cited

Grupo México, S.A.B. de C.V., 2021, Reporte anual 2020 [Annual report 2020]: Mexico City, Mexico, Grupo México, S.A.B. de C.V., [329] p. (Accessed June 4, 2021, at https://www.gmexico.com/GMDocs/ReportesFinancieros/ING/2020/RF_EN_2020_BMV.pdf.) [In Spanish.]
International Copper Study Group, 2022, Directory of copper mines and plants up to 2026: Lisbon, Portugal, International Copper Study Group, August 10, [288] p.
Zhang, Sally, 2022, China’s Daye starts trial production at new copper smelter, sources: Fastmarkets-AMM, October 25. (Accessed December 1, 2022, via <https://dashboard.fastmarkets.com/home>.)

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

(Metric tons, copper content, unless otherwise specified)

	Source table ²	2021 ^P	2022			
			August	September	October	January– October
Production:						
Primary (from ore):						
Mine, recoverable ³	(2)	1,230,000	103,000 ^r	102,000	104,000	1,040,000
Smelter ^{e, 4}	(3)	360,000	40,000	40,000	35,000	350,000
Refinery:						
Electrolytic ^e	(4)	360,000	40,000	40,000	35,000	350,000
Electrowon	(4)	562,000	46,700	46,700 ^r	48,700	464,000
Total	(4)	922,000	86,700	86,700 ^r	83,700	814,000
Secondary (from copper-base scrap): ⁵						
Refineries ⁶	(5)	48,900	3,260	3,220	3,220	33,500
Ingot makers ^{e, 7}	(5)	51,600	4,300	4,300	4,300	43,000
Brass and wire-rod mills	(5)	655,000	54,800	54,100	54,300	540,000
Foundries, etc. ^{e, 7}	(5)	38,800	3,230	3,230	3,230	32,300
Consumption:						
Reported, refined copper	(7)	1,770,000	146,000	141,000	150,000	1,490,000
Apparent, primary refined and copper from old scrap ⁸	(8)	1,960,000	142,000	150,000	158,000	1,600,000
Reported, purchased copper-base scrap (gross weight)	(9)	919,000	75,800	75,100	75,200	752,000
Stocks at end of period:						
Refined ⁹	(10)	117,000	117,000	115,000	103,000	103,000
Blister and anodes	(10)	16,100	14,200	14,900	18,500	18,500
Price, U.S. producers cathode (cents per pound) ¹⁰	(11)	432.264	372.500	359.021	358.386	415.893
Imports for consumption: ¹¹						
Ore and concentrates	(13)	11,000	1,780	1,430	1,180	11,600
Refined	(13)	919,000	36,400	50,700	49,700	656,000
Exports: ¹¹						
Ore and concentrates	(14)	347,000	34,000	36,800	30,400	277,000
Refined	(14)	47,600	3,060	2,470	1,190	24,300

^eEstimated. ^PPreliminary. ^rRevised.

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.

³Includes the recoverable copper content of concentrates (of copper and other metals), copper produced by solvent extraction and electrowinning, and copper recovered as precipitates.

⁴May contain small quantities of copper from scrap.

⁵Copper 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.

⁶Electrolytically refined and fire-refined copper.

⁷Plants 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.

⁸Primary 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.

⁹Stocks of refined copper at brass mills, exchanges, refineries, wire-rod mills, and other manufacturers.

¹⁰Source: 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.

¹¹Source: 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 STATES¹

(Metric tons)

Period	Recoverable copper ²			Contained copper		
	Arizona	Others ³	Total	Electrowon	Concentrates ⁴	Total
2021: ^p						
January–October	720,000	298,000	1,020,000	469,000	570,000	1,040,000
October	73,600	33,400	107,000	50,400	58,900	109,000
November	73,400	32,600	106,000	45,700	62,600	108,000
December	75,100	32,700	108,000	46,800	63,400	110,000
January–December	868,000	363,000	1,230,000	562,000	696,000	1,260,000
2022:						
January	72,200	33,500	106,000	45,400	62,800	108,000
February	65,500	32,100	97,600	40,300	59,400	99,800
March	73,100	31,700	105,000	48,500	58,400	107,000
April	72,200	30,400	103,000	44,900	59,900	105,000
May	77,900 ^r	29,800	108,000 ^r	49,100 ^r	60,900 ^r	110,000 ^r
June	73,900	28,600	103,000	46,500	58,200	105,000
July	73,300 ^r	33,500 ^r	107,000	47,600	61,400	109,000
August	70,100 ^r	32,600 ^r	103,000 ^r	46,700	58,100	105,000
September	70,000 ^r	31,500 ^r	102,000	46,700 ^r	56,800 ^r	104,000
October	71,400	32,300	104,000	48,700	57,000	106,000
January–October	720,000	316,000	1,040,000	464,000	593,000	1,060,000

^pPreliminary. ^rRevised.

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

²Includes the recoverable copper content of concentrates (of copper and other metals), copper produced by solvent extraction and electrowinning, and copper recovered as precipitates.

³Includes production from Michigan, Missouri, Montana, Nevada, New Mexico, and Utah.

⁴Includes 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–October	300,000
October	30,000
November	30,000
December	30,000
January–December	360,000
2022:	
January	35,000
February	35,000
March	35,000
April	30,000
May	30,000
June	30,000
July	40,000
August	40,000
September	40,000
October	35,000
January–October	350,000

^eEstimated. ^pPreliminary.

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

²Primary production. May contain small quantities of copper from scrap.

³To 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 COPPER¹

(Metric tons)

Period	From primary materials			From scrap ³	Total refined
	Electrolytic ^{e,2}	Electrowon	Total primary		
2021: ^p					
January–October	300,000	469,000	769,000	40,900	810,000
October	30,000	50,400	80,400	3,540	83,900
November	30,000	45,700	75,700	3,990	79,700
December	30,000	46,800	76,800	4,060	80,800
January–December	360,000	562,000	922,000	48,900	971,000
2022:					
January	35,000	45,400	80,400	3,990	84,400
February	35,000	40,300	75,300	3,280	78,600
March	35,000	48,500	83,500	3,490	87,000
April	30,000	44,900	74,900	3,250	78,200
May	30,000	49,100 ^r	79,100 ^r	3,220	82,300 ^r
June	30,000	46,500	76,500	3,370	79,900
July	40,000	47,600	87,600	3,250	90,800
August	40,000	46,700	86,700	3,260	90,000
September	40,000	46,700 ^r	86,700 ^r	3,220	89,900 ^r
October	35,000	48,700	83,700	3,220	86,900
January–October	350,000	464,000	814,000	33,500	848,000

^eEstimated. ^pPreliminary. ^rRevised.

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

²To 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.

³Electrolytically 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–October	16,800	24,100	3,940	39,100	515,000	35,600	7,630	24,700	667,000
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
June	1,680	1,690	394	3,910	49,800	3,710	763	2,470	64,400
July	1,680	1,570	394	3,910	50,700	3,110	763	2,470	64,600
August	1,680	1,580	394	3,910	51,400	3,330	763	2,470	65,600
September	1,680	1,540	394	3,910	50,800	3,340	763	2,470	64,900
October	1,680	1,540	394	3,910	51,100	3,230	763	2,470	65,100
January–October	16,800	16,800	3,940	39,100	504,000	36,000	7,630	24,700	649,000

^eEstimated. ^pPreliminary.

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

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

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

⁴Plants 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.

⁵Does 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 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
2021: ^p						
January–October	743,000	1,160,000	743,000	1,150,000	28,600	23,400
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
June	74,800	111,000	74,900	115,000	29,300	17,200
July	74,600	117,000	74,800	114,000	29,100	21,000
August	75,300	112,000	75,200	115,000	29,200	17,900
September	79,900	116,000 ^r	79,400	119,000 ^r	29,800	15,600
October	75,400	114,000	75,100	112,000	30,000	17,700
January–October	758,000	1,140,000	757,000	1,140,000	30,000	17,700

^pPreliminary. ^rRevised.

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

TABLE 7
U.S. CONSUMPTION OF REFINED COPPER¹

(Metric tons)

Period	Brass mills	Wire-rod mills	Other plants ^{6, 2}	Total
2021: ^p				
January–October	346,000	1,100,000	51,800	1,500,000
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
June	34,800	107,000	5,180	147,000
July	34,900	112,000	5,180	152,000
August	35,000	106,000	5,180	146,000
September	34,900	101,000	5,180	141,000
October	35,000	109,000	5,180	150,000
January–October	350,000	1,080,000	51,800	1,490,000

⁶Estimated. ^pPreliminary.

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

²Chemical 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 COPPER¹

(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–October	769,000	142,000	782,000	41,300	-26,200	1,680,000
October	80,400	13,600	92,300	3,490	5,550	177,000
November	75,700	13,600	60,000	2,630	13,900	133,000
December	76,800	13,100	77,300	3,630	11,900	152,000
January–December	922,000	169,000	919,000	47,600	-513	1,960,000
2022:						
January	80,400	15,000	140,000	2,530	15,500	218,000
February	75,300	13,400	34,300	3,110	-1,320	121,000
March	83,500	14,000	48,700	2,590	1,350	142,000
April	74,900	13,600	64,800	2,820	794	150,000
May	79,100 ^r	13,400	74,300	2,890	-6,470	170,000
June	76,500	13,600	75,900	1,720	-2,560	167,000
July	87,600	12,900	80,900	1,900	1,560	178,000
August	86,700	13,200	36,400	3,060	-9,190	142,000
September	86,700 ^r	13,100	50,700	2,470	-1,970	150,000
October	83,700	13,000	49,700	1,190	-12,400	158,000
January–October	814,000	135,000	656,000	24,300	-14,700	1,600,000

^pPreliminary. ^rRevised.

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

²Copper 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.

³Source: 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.

⁴Primary 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 ^c	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2021: ^p									
January–October	17,300	24,900	10,500	46,000	596,000	37,400	8,970	29,000	770,000
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
June	1,730	1,740	1,050	4,600	57,900	3,880	897	2,900	74,700
July	1,730	1,620	1,050	4,600	58,800	3,220	897	2,900	74,800
August	1,730	1,630	1,050	4,600	59,500	3,490	897	2,900	75,800
September	1,730	1,590	1,050	4,600	58,900	3,510	897	2,900	75,100
October	1,730	1,590	1,050	4,600	59,100	3,340	897	2,900	75,200
January–October	17,300	17,300	10,500	46,000	585,000	37,800	8,970	29,000	752,000

^cEstimated. ^pPreliminary.

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

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

³Plants 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.

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

TABLE 10
COPPER STOCKS IN THE UNITED STATES AT END OF PERIOD¹

(Metric tons, copper content)

Period	Blister and anodes	Refined copper						Total refined
		Refineries	Wire-rod mills	Brass mills	Other ^{e, 2}	COMEX ³	LME ⁴	
2021: ^p								
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
June	13,100	5,800	11,700	8,330	6,850	66,700	25,100	125,000
July	12,900	3,980	13,100	8,640	6,850	55,100	38,400	126,000
August	14,200	4,790	13,100	9,010	6,850	46,000	37,100	117,000
September	14,900	5,570	15,500	9,840	6,850	40,800	36,400	115,000
October	18,500	4,300	15,100	10,400	6,850	33,400	32,400	103,000

^eEstimated. ^pPreliminary.

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

²Chemical 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.

³Commodity Exchange Inc.

⁴London 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:			
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
June	412.540	422.540	409.684
July	339.610	350.610	341.513
August	361.500	372.500	361.070
September	348.021	359.021	350.800
October	347.386	358.386	345.649
January–October	405.930	415.893	405.380

¹Listed as “COMEX high grade first position.” COMEX refers to the Commodity Exchange Inc.

²Sum 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.

³LME 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:				
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
June	401.81	366.31	321.50	185.00
July	329.10	295.60	259.00	172.50
August	350.65	322.65	244.00	153.00
September	335.52	307.81	254.50	148.00
October	333.62	308.71	247.50	148.00
January–October	395.27	361.58	302.35	189.15

Source: Fastmarkets-AMM.

TABLE 13
U.S. IMPORTS FOR CONSUMPTION OF UNMANUFACTURED COPPER¹

(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	October	January– October	2021	October	January– October	2021	October	January– October	2021	October	January– October
Belgium	--	--	--	236	134	231	--	--	--	29	--	2
Bolivia	--	--	--	--	--	--	--	--	--	763	--	--
Brazil	--	--	--	--	--	--	--	--	(6)	5,720	--	(6)
Canada	11,000	1,180	11,500	651	92	383	(6)	--	(6)	141,000	15,100	99,600
Chile	--	--	--	--	--	--	--	--	--	613,000	27,500	433,000
China	--	--	--	--	--	--	--	--	(6)	654	1	890
Congo (Kinshasa)	--	--	--	--	--	--	--	--	--	22,200	--	8,910
Finland	--	--	--	--	--	--	371	92	218	35	--	39
Germany	--	--	(6)	155	--	94	(6)	--	(6)	2,150	232	2,680
Japan	1	(6)	(6)	483	--	--	1	--	(6)	1,440	53	893
Mexico	--	--	--	8	17	20	(6)	--	(6)	87,300	2,080	68,000
Peru	--	--	--	--	--	--	--	--	--	28,500	4,630	40,500
Russia	--	--	--	--	--	--	--	--	--	3,900	--	--
South Africa	--	--	--	--	--	--	--	--	--	277	--	--
Zambia	--	--	--	--	--	--	--	--	--	11,400	--	1,230
Other	10	--	19	49	1	57	12	1	23	155	118	271
Total	11,000	1,180	11,600	1,580	245	784	384	93	242	919,000	49,700	656,000

-- Zero.

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

²Harmonized 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.

³HTS 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.

⁴HTS code 7402.00.0000.

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

⁶Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 14
U.S. EXPORTS OF UNMANUFACTURED COPPER¹

(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	October	January– October	2021	October	January– October	2021	October	January– October	2021	October	January– October
Belgium	246	--	37	6,120	576	5,230	1,490	11	193	--	--	--
Canada	39,500	2,930	30,500	16,200	956	11,100	18,800	1,530	2,550	24,700	848	11,500
China	65,600	4,270	45,500	548	58	151	171	--	40	3,190	19	2,140
Dominican Republic	202	5	114	--	--	6	--	--	--	10	--	(6)
Finland	783	--	552	--	--	--	--	--	--	--	--	--
Germany	784	--	--	430	5	142	190	60	244	20	--	1
Hong Kong	2	--	--	44	--	(6)	310	--	22	9	7	8
India	--	--	--	30	16	16	433	189	1,280	--	--	14
Italy	--	--	--	--	--	--	113	--	133	22	--	10
Japan	6,350	3,360	11,000	760	17	298	17	--	20	11	(6)	23
Korea, Republic of	2,370	--	48	171	--	115	1,320	162	1,400	30	39	77
Malaysia	5	26	142	47	80	147	188	20	139	13	--	33
Mexico	228,000	19,800	178,000	33	--	30	258	11	251	19,100	182	7,410
Philippines	2,350	--	7,770	1	--	(6)	39	--	67	--	--	35
Singapore	--	--	--	300	90	245	92	--	40	22	3	22
Slovakia	--	--	--	1,450	126	1,170	--	--	--	--	--	--
Spain	--	--	--	1,130	--	916	20	--	22	(6)	84	186
Taiwan	1,490	--	--	19	2	43	291	--	137	282	--	23
Trinidad and Tobago	--	--	--	--	--	--	157	--	--	--	--	--
Other	92	(6)	2,800	208	198	1,020	499	9	473	125	13	2,820
Total	347,000	30,400	277,000	27,500	2,120	20,600	24,400	1,990	7,010	47,600	1,190	24,300

-- Zero.

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

²Schedule 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.

³Schedule 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.

⁴Schedule B code 7402.00.0000.

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

⁶Less 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 ²			Alloyed ³		
	2022			2022		
	2021	October	January– October	2021	October	January– October
Bahamas	--	--	--	608	64	534
Bolivia	114	--	39	442	--	76
Canada	19,900	1,400	15,100	48,200	4,150	35,800
Cayman Islands	--	--	--	219	26	170
Colombia	174	19	137	643	--	106
Costa Rica	729	34	587	1,480	28	1,110
Dominican Republic	1,550	103	1,200	2,720	137	1,900
Ecuador	88	--	24	277	--	57
El Salvador	--	--	--	583	89	883
Germany	210	27	199	191	--	50
Guatemala	--	--	--	484	32	269
Honduras	75	5	22	907	67	656
Jamaica	7	--	7	159	18	380
Mexico	12,600	1,140	9,610	43,800	3,300	36,600
Panama	1,040	61	1,080	496	35	345
Peru	19	--	--	439	20	225
Suriname	254	27	277	58	15	64
Uruguay	481	10	63	58	7	32
Venezuela	--	--	--	675	--	43
Vietnam	114	--	62	64	--	50
Other	301	7	113	2,060	78	1,640
Total	37,700	2,840	28,500	105,000	8,070	81,000

-- Zero.

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

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

³HTS 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 SCRAP¹

(Metric tons, gross weight)

Country or locality	Unalloyed ²							Alloyed ³				
	2022							2022				
	2021	No. 1		No. 2		Other		2021	Segregated		Unsegregated	
		October	January– October	October	January– October	October	January– October		October	January– October	October	January– October
Austria	1,250	33	53	118	1,070	--	--	193	58	676	108	273
Belgium	20,700	725	12,100	1,130	9,910	617	5,820	8,520	58	1,080	867	6,760
Canada	61,000	--	--	--	--	5,220	51,500	53,900	--	--	3,690	39,000
Chile	2,380	--	21	--	--	--	--	345	--	--	--	--
China	195,000	6,660	67,700	3,850	42,300	11,300	108,000	43,300	2,150	18,200	1,100	7,800
Germany	19,100	783	9,290	213	1,310	68	2,100	15,300	38	1,590	819	12,000
Greece	15,000	119	5,140	--	230	130	3,120	2,140	--	262	166	1,670
Hong Kong	23,100	102	1,100	543	8,330	306	5,180	7,570	83	321	174	3,170
India	12,800	694	7,210	548	2,800	772	7,280	39,600	2,070	22,500	5,580	34,800
Japan	19,900	381	2,790	1,300	15,600	572	3,270	7,490	113	1,270	475	4,700
Korea, Republic of	47,200	1,840	15,500	853	11,000	898	9,920	17,100	671	4,370	199	6,140
Malaysia	63,900	653	4,740	312	3,060	1,180	13,400	88,200	707	8,340	2,740	26,100
Mexico	3,590	280	2,750	--	--	--	104	4,640	94	1,240	2,150	6,490
Netherlands	2,950	525	5,030	--	296	460	1,240	569	--	20	55	1,390
Pakistan	476	40	1,150	--	233	--	109	24,400	80	1,350	2,230	22,000
Poland	11,300	192	2,360	20	337	922	9,910	2,280	--	39	59	737
Russia	1,410	--	--	--	39	--	77	766	--	--	--	38
Slovakia	1,850	63	1,310	--	--	--	--	1,760	20	1,880	56	176
Spain	2,960	22	2,030	--	201	--	1,160	7,070	265	2,050	503	4,260
Sweden	1,080	19	19	--	--	70	488	2,480	--	--	212	1,840
Taiwan	13,800	201	2,850	114	2,590	325	6,400	6,310	82	1,130	329	2,630
Thailand	9,750	190	2,780	135	609	1,660	16,300	35,900	239	2,470	2,380	30,900
United Arab Emirates	1,770	--	654	--	23	--	58	3,320	116	229	828	4,840
Other	6,440	691	3,680	86	457	206	912	5,020	51	632	693	4,910
Total	539,000	14,200	150,000	9,220	100,000	24,700	247,000	378,000	6,900	69,600	25,400	222,000

-- Zero.

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

²Schedule 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).

³Schedule 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.