

Mineral Industry Surveys

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COPPER IN SEPTEMBER 2020

In September 2020, domestic mine production of recoverable copper was 98,300 metric tons (t). The average daily mine production was 3,280 t, a decrease of 4% from that in August and a decline of 12% compared with that in September 2019 (fig. 1). Year-to-date recoverable mine output through September 2020 was 908,000 t, 5% less than that through the same period in 2019 (table 2).

smelter production through September 2020 was 225,000 t, a decrease of 37% relative to the same period in 2019 (table 3). Following planned major maintenance in May and June, the restart of Rio Tinto Kennecott's (South Jordan, UT) smelter near Salt Lake City, UT, was delayed owing to unexpected complications. The company had also recently completed an unexpected rebuild of the flash converting furnace, which was damaged by a magnitude 5.7 earthquake on March 18. Rio Tinto expected the facility to resume full operations by the end of October (Rio Tinto plc, 2020a, p. 2, 8; 2020b, p. 9).

Total refinery production in the United States was 74,200 t in September 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 2,470 t, a slight decline compared with that in August and 24% less than that in September 2019 (fig. 1). Year-to-date refinery output was 663,000 t, a decrease of 14% from that through September 2019 (table 4).

Prices

The average September 2020 COMEX spot copper price was \$3.02 per pound, an increase of 4% compared with \$2.92 per pound in August and 16% higher than \$2.60 per pound in September 2019. The COMEX price rose for the fifth consecutive month and was 31% greater than the year-to-date monthly minimum of \$2.31 per pound in April (fig. 2, table 11). The average U.S. dealers buying price of number 2 copper scrap in September 2020 was \$2.20 per pound, an increase of 4% from \$2.13 per pound in August (fig. 2, table 12).

Stocks

Refined copper stocks in the United States totaled 156,000 t at the end of September 2020, a slight increase compared with those in August and 30% higher than those in September 2019. Wire-rod mill stocks fell by 25%, COMEX stocks were 6% lower, and London Metal Exchange Ltd. stocks in U.S. warehouses rose by 31% from those at the end of August (fig. 3, table 10).

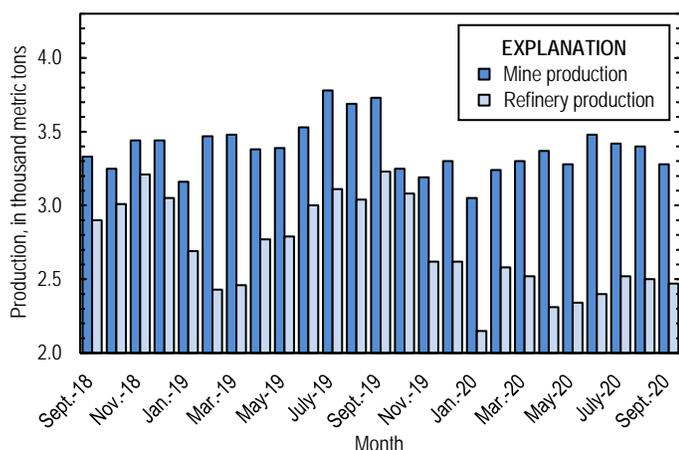


Figure 1. Average daily U.S. copper mine (recoverable) and refinery (primary and secondary) production from September 2018 through September 2020. Refinery production in November and December 2019 were withheld to avoid disclosing company proprietary data; the values shown reflect the daily average for cumulative production over this period rather than production in each month.

Owing to temporary closures of ASARCO LLC's (Tucson, AZ) smelter in Arizona and electrolytic refinery in Texas as a result of a worker strike, smelter and electrolytic refinery production reported to the U.S. Geological Survey in September 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 company reports.

Estimated U.S. smelter production in September 2020 was 25,000 t. The estimated average daily output was 833 t, 42% lower than that in September 2019. Year-to-date estimated

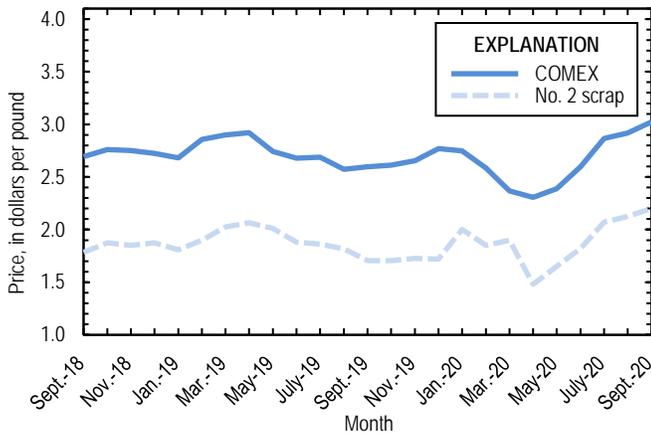


Figure 2. Monthly average COMEX copper price and no. 2 copper scrap dealers buying price from September 2018 through September 2020. As of January 2020, no. 2 prices were available only for the entire United States, whereas no. 2 prices were available only for individual domestic markets prior to January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

Industry News

Peru.—In 2019, three operations in Peru ranked among the ten leading global copper mines: Freeport-McMoRan Inc.’s (Phoenix, AZ) Cerro Verde Mine, Glencore plc’s (Switzerland) Antamina Mine, and MMG Ltd.’s (Australia) Las Bambas Mine. These three mines produced a combined 1.29 million metric tons of copper in 2019, equivalent to about 6% of worldwide mine output. Through September 2020, combined production from these mines was about 155,000 t (21%) lower than that through September 2019 because of COVID-19 safety measures implemented by the Government of Peru, which were expected to continue until at least the end of October. Output from Las Bambas was also affected by multiple protests that inhibited the transport of concentrates to port (Freeport-McMoRan Inc., 2020a, p. 26; 2020b, p. 5, II; Glencore plc, 2020a, p. 72–73; 2020b, p. 6, 10; MMG Ltd., 2020a, p. 22; 2020b, p. 4–5).

United States.—Freeport-McMoRan announced in its third quarter report that it had completed development of the Lone Star project, an expansion of the Safford Mine in Arizona, and was ramping up production. At full capacity, the company expected Lone Star to produce about 90,000 metric tons per year of copper. Freeport also disclosed that the Chino Mine in New Mexico would restart in 2021 at about 50% of capacity; operations at the mine were suspended in April after multiple workers tested positive for COVID-19 (Freeport-McMoRan Inc., 2020b, p. 4; Scheyder, 2020).

On September 4, SDI LaFarga LLC, a joint venture of Steel Dynamics, Inc. (Fort Wayne, IN) and the LaFarga Group (Spain), commissioned a new furnace at its wire-rod facility in New Haven, IN. The furnace was expected to more than double the plant capacity and increase the company’s U.S. wire-rod production to about 17,500 metric tons per month (Bera, 2020).

References Cited

Bera, R.D., 2020, Cu scrap spreads widen on lack of buying: Fastmarkets-AMM, September 10. (Accessed October 30, 2020, via <https://www.amm.com/>.)

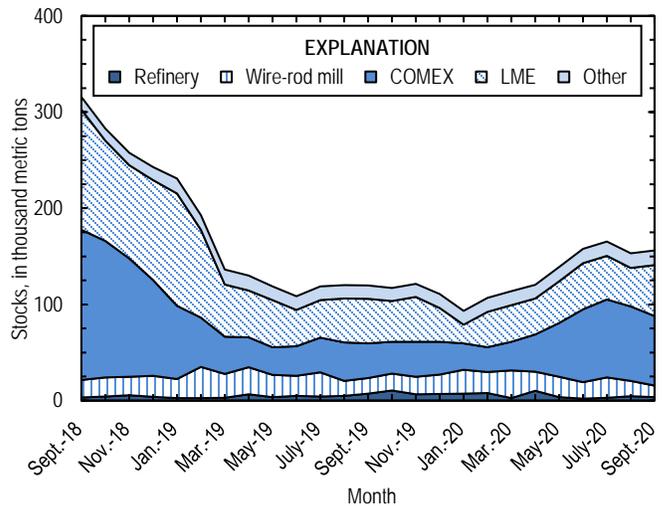


Figure 3. Monthly domestic refined copper stocks, by type, from September 2018 through September 2020. Sources: Fastmarkets-AMM, London Metal Exchange Ltd., and U.S. Geological Survey.

Freeport-McMoRan Inc., 2020a, Form 10-K—2019: Washington, DC, U.S. Securities and Exchange Commission, 186 p. (Accessed March 31, 2020, at https://s22.q4cdn.com/529358580/files/doc_financials/10-K/10_k2019.pdf.)

Freeport-McMoRan Inc., 2020b, Freeport-McMoRan reports third-quarter and nine-month 2020 results: Phoenix, AZ, Freeport-McMoRan Inc. news release, October 22, 37 p. (Accessed October 28, 2020, at https://s22.q4cdn.com/529358580/files/doc_news/2020/FCX_201022_3Q_2020_Earnings_Release.pdf.)

Glencore plc, 2020a, Annual report 2019: Baar, Switzerland, Glencore plc, 250 p. (Accessed December 9, 2020, at <https://www.glencore.com/dam/jcr:79fd3300-ee50-4ee1-870d-6372274c71b5/glen-2019-annual-report-interactive.pdf>.)

Glencore plc, 2020b, Third quarter 2020 production report: Baar, Switzerland, Glencore plc news release, October 30, 17 p. (Accessed December 9, 2020, at https://www.glencore.com/dam/jcr:3b5ec265-1700-4269-8f66-1a1fded7bc87/GLEN_2020-Q3_ProductionReport.pdf.)

MMG Ltd., 2020a, Annual report 2019: Southbank, Victoria, Australia, MMG Ltd., 184 p. (Accessed December 9, 2020, at https://www.mm.com/wp-content/uploads/2020/03/MMG1597_AR_FA_Web_LR.pdf.)

MMG Ltd., 2020b, Third quarter production report for the three months ended 30 September 2020: Hong Kong, MMG Ltd., October 26, 17 p. (Accessed December 9, 2020, at <https://www.mm.com/wp-content/uploads/2020/10/MMG-3Q20-Production-Report.pdf>.)

Rio Tinto plc, 2020a, Rio Tinto releases second quarter production results: London, United Kingdom, Rio Tinto plc news release, July 17, 24 p. (Accessed September 14, 2020, at <https://mc-56397411-4872-452d-b48e-428890-cdn-endpoint.azureedge.net/-/media/Content/Documents/Invest/Financial-news-and-performance/Production/RT-Second-Quarter-Operations-Review-2020-pdf.pdf?rev=0f6cf4aac41a4591a5a63ba6c5390e0f>.)

Rio Tinto plc, 2020b, Rio Tinto releases third quarter production results: London, United Kingdom, Rio Tinto plc news release, October 16, 25 p. (Accessed October 19, 2020, at <https://mc-56397411-4872-452d-b48e-428890-cdn-endpoint.azureedge.net/-/media/Content/Documents/Invest/Financial-news-and-performance/Production/RT-Third-Quarter-Operations-Review-2020-pdf.pdf?rev=30a9ec7ca2e64201aca48f9faa4cb106>.)

Scheyder, Ernest, 2020, Freeport-McMoRan closes New Mexico mine as coronavirus cases spread: Reuters, April 13. (Accessed September 30, 2020, at <https://www.reuters.com/article/us-health-coronavirus-freeport-mcmoran/freeport-mcmoran-closes-new-mexico-mine-as-coronavirus-cases-spread-idUSKCN21V07B>.)

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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	2019 ^p	2020			January– September
			July	August	September	
Production:						
Primary:						
Mine, recoverable	(2)	1,260,000	106,000	105,000	98,300	908,000
Smelter	(3)	464,000	25,000 ^e	25,000 ^e	25,000 ^e	225,000 ^e
Refinery:						
Electrolytic, domestic and foreign	(4)	457,000	25,000 ^e	25,000 ^e	25,000 ^e	225,000 ^e
Electrowon	(4)	527,000	49,500	49,000 ^r	45,700	405,000
Total	(4)	985,000	74,500	74,000 ^r	70,700	630,000
Secondary recoverable copper:³						
Refineries	(5)	44,400	3,720	3,380 ^r	3,490	33,400
Ingot makers ⁴	(5)	57,900	4,820	4,820	4,820	43,400
Brass and wire-rod mills	(5)	653,000	56,700	55,300	54,000	498,000
Foundries, etc. ⁴	(5)	36,700	3,060	3,060	3,060	27,500
Consumption:						
Apparent, primary refined and copper from old scrap	(8)	1,810,000	112,000	152,000 ^r	116,000	1,180,000
Reported, refined copper	(7)	1,830,000	147,000	143,000	146,000	1,320,000
Purchased copper-base scrap (gross weight)	(9)	923,000	79,100	77,900 ^r	79,900	705,000
Stocks at end of period:						
Total refined	(10)	111,000	165,000	153,000	156,000	156,000
Blister and anode	(10)	16,400	11,300	15,700 ^r	14,100	14,100
Price, U.S. producers cathode (cents per pound) ⁵	(11)	279.596	293.300	298.377	309.052	271.181
Imports:⁶						
Ore and concentrates	(13)	27,000	58	653	595	1,310
Refined	(13)	663,000	37,300	59,800	39,900	508,000
Exports:⁶						
Ore and concentrates	(14)	363,000	36,000	35,500	33,100	291,000
Refined	(14)	125,000	5,300	6,470	4,570	30,300

^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.

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–September	649,000	310,000	959,000	397,000	582,000	980,000
September	74,000	38,000	112,000	44,700	69,800	114,000
October	72,300	28,500	101,000	45,800	57,000	103,000
November	66,000	29,700	95,700	41,100	56,700	97,800
December	71,900	30,500	102,000	43,200	61,400	105,000
January–December	859,000	398,000	1,260,000	527,000	758,000	1,290,000
2020:						
January	65,800	28,800	94,600	33,300	63,700	97,000
February	65,400	28,600	94,000	41,000	55,100	96,100
March	73,800	28,400	102,000	44,900	59,600	104,000
April	76,400	24,700	101,000	44,600	58,800	103,000
May	75,500	26,200	102,000	48,200	55,700	104,000
June	77,700	26,800	105,000	48,200	58,600	107,000
July	79,300	26,700	106,000	49,500	58,900	108,000
August	78,800	26,700 ^r	105,000	49,000 ^r	58,800	108,000 ^r
September	72,400	25,900	98,300	45,700	54,600	100,000
January–September	665,000	243,000	908,000	405,000	524,000	928,000

^pPreliminary. ^rRevised.

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–September	355,000
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
May	20,000
June	20,000
July	25,000
August	25,000
September	25,000
January–September	225,000

^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.

²Includes 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 in 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, BY SOURCE AND METHOD OF RECOVERY¹

(Metric tons)

Period	Primary materials			Scrap	Total refined
	Electrolytically refined ²	Electrowon	Total		
2019: ^P					
January–September	343,000	397,000	740,000	34,700	775,000
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	527,000	985,000	44,400	1,030,000
2020:					
January	30,000 ^{e,3}	33,300	63,300	3,260	66,600
February	30,000 ^{e,3}	41,000	71,000	3,820	74,800
March	30,000 ^{e,3}	44,900	74,900	3,220	78,100
April	20,000 ^{e,3}	44,600	64,600	4,530	69,100
May	20,000 ^{e,3}	48,200	68,200	4,380	72,600
June	20,000 ^{e,3}	48,200	68,200	3,620	71,800
July	25,000 ^{e,3}	49,500	74,500	3,720	78,200
August	25,000 ^{e,3}	49,000 ^r	74,000 ^r	3,380 ^r	77,400 ^r
September	25,000 ^{e,3}	45,700	70,700	3,490	74,200
January–September	225,000 ^{e,3}	405,000	630,000	33,400	663,000

^eEstimated. ^PPreliminary. ^rRevised. 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 in quarterly 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 SCRAP
IN THE UNITED STATES¹

(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–September	15,100	19,600	6,910	36,500	462,000	29,200	19,300	8,220	597,000
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	3,760	2,150	913	68,300
February	1,680	2,140	768	4,060	52,400	3,580	2,150	913	67,700
March	1,680	1,540	768	4,060	52,100	3,370	2,150	913	66,600
April	1,680	2,850	768	4,060	51,800	2,950	2,150	913	67,100
May	1,680	2,700	768	4,060	51,300	2,600	2,150	913	66,200
June	1,680	1,940	768	4,060	51,700	3,030	2,150	913	66,300
July	1,680	2,040	768	4,060	53,400	3,290	2,150	913	68,300
August	1,680	1,700 ^r	768	4,060	52,200	3,120	2,150	913	66,600 ^r
September	1,680	1,810	768	4,060	50,700	3,300	2,150	913	65,400
January–September	15,100	18,300	6,910	36,500	469,000	29,000	19,300	8,220	602,000

^eEstimated. ^pPreliminary. ^rRevised.

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
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
2019:^p						
January–September	660,000	998,000	661,000	1,010,000	29,400	26,400
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
May	73,400	95,300	73,400	91,400	29,000	30,000
June	73,700	89,400	73,600	96,100	29,200	23,400
July	73,500	108,000	73,300	104,000	29,300	27,000
August	73,700	104,000	73,600	111,000	29,400	20,000
September	73,800	106,000	73,700	108,000	29,500	19,100
January–September	663,000	924,000	663,000	930,000	29,500	19,100

^pPreliminary.

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 ²	Total
2019: ^p				
January–September	312,000	1,020,000	49,000	1,380,000
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
May	34,100	102,000	5,450	142,000
June	34,700	95,300	5,450	135,000
July	34,300	107,000	5,450	147,000
August	34,700	103,000	5,450	143,000
September	34,600	106,000	5,450	146,000
January–September	309,000	959,000	49,000	1,320,000

^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–September	740,000	118,000	487,000	99,500	-123,000	1,370,000
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	63,300	13,000	62,300	4,170	-17,300	152,000
February	71,000	13,400	34,400	2,470	13,400	103,000
March	74,900	12,600	70,500	4,000	6,860	147,000
April	64,600	13,500	74,300	1,580	6,790	144,000
May	68,200	13,000	66,200	540	18,600	128,000
June	68,200	12,700	63,300	1,220	18,900	124,000
July	74,500	13,000	37,300	5,300	7,430	112,000
August	74,000 ^r	12,500 ^r	59,800	6,470	-12,100 ^r	152,000 ^r
September	70,700	12,800	39,900	4,570	2,900	116,000
January–September	630,000	116,000	508,000	30,300	45,500	1,180,000

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

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

²Copper recovered from old scrap and converted to refined metal and alloys. Includes 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
U.S. 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–September	15,600	20,200	18,500	43,100	535,000	30,800	23,100	9,060	695,000
September	1,730	1,730	2,050	4,790	57,800	2,510	2,570	1,010	74,200
October	1,730	1,730	2,050	4,790	59,200	2,720	2,570	1,010	75,800
November	1,730	1,610	2,050	4,790	59,800	2,760	2,570	1,010	76,400
December	1,730	1,610	2,050	4,790	59,900	2,460	2,570	1,010	76,100
January–December	20,700	25,100	24,600	57,500	714,000	38,800	30,800	12,100	923,000
2020:									
January	1,730	1,660	2,050	4,790	61,600	3,960	2,570	1,010	79,400
February	1,730	2,180	2,050	4,790	60,500	3,790	2,570	1,010	78,700
March	1,730	1,590	2,050	4,790	60,300	3,590	2,570	1,010	77,600
April	1,730	2,940	2,050	4,790	59,900	3,150	2,570	1,010	78,100
May	1,730	2,790	2,050	4,790	59,500	2,760	2,570	1,010	77,200
June	1,730	2,000	2,050	4,790	59,900	3,160	2,570	1,010	77,200
July	1,730	2,100	2,050	4,790	61,500	3,340	2,570	1,010	79,100
August	1,730	1,750 ^r	2,050	4,790	60,800	3,200	2,570	1,010	77,900 ^r
September	1,730	1,870	2,050	4,790	62,400	3,410	2,570	1,010	79,900
January–September	15,600	18,900	18,500	43,100	546,000	30,400	23,100	9,060	705,000

^cEstimated. ^pPreliminary. ^rRevised.

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 IN THE UNITED STATES AT END OF PERIOD¹

(Metric tons)

Period	Blister and anode ²	Refined copper					LME ⁴	Total refined
		Refineries	Wire-rod mills	Brass mills	Other ³	Comex		
2019: ^p								
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	7,200	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	7,940	2,750	28,600	7,290	7,070	29,800	38,100	114,000
April	7,430	10,300	19,900	7,210	7,070	38,700	37,200	120,000
May	11,900	3,550	21,200	7,730	7,070	55,900	43,500	139,000
June	11,000	2,070	17,200	7,900	7,070	75,600	48,000	158,000
July	11,300	3,090	21,200	7,770	7,070	81,000	45,200	165,000
August	15,700 ^r	4,490 ^r	15,900	8,210	7,070	77,400	40,200	153,000
September	14,100	3,780	11,900	8,200	7,070	72,400	52,700	156,000

^pPreliminary. ^rRevised.

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

²Copper content.

³Monthly estimates based on 2018 annual data, comprising stocks at ingot makers, chemical plants, foundries, and miscellaneous manufacturers.

⁴London 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:			
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
May	245.090	238.715	237.402
June	266.305	259.805	260.470
July	293.300	286.600	288.202
August	298.377	291.752	294.685
September	309.052	302.302	304.470
January-September	271.181	264.430	264.597

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 IN THE UNITED STATES

(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:				
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
May	230.18	208.95	165.00	111.00
June	253.82	232.41	182.09	120.55
July	279.55	258.32	207.09	130.00
August	282.05	258.79	212.52	124.76
September	291.05	262.19	220.00	128.86
January–September	254.10	229.72	189.97	125.91

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: Fastmarkets-AMM.

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 ⁴			Refined ⁵		
	2020			2020			2020			2020		
	2019	September	January–September	2019	September	January–September	2019	September	January–September	2019	September	January–September
Belgium	--	--	--	228	--	221	--	--	--	2,300	--	--
Bolivia	--	--	--	13	--	--	--	--	--	1,510	--	264
Canada	(6)	595	1,310	451	62	244	(6)	--	(6)	138,000	11,400	117,000
Chile	--	--	--	--	--	--	--	--	--	422,000	23,900	299,000
Finland	--	--	--	--	--	--	191	31	228	38	--	--
Germany	--	--	--	(6)	--	--	--	--	(6)	2,010	161	1,530
Japan	--	--	--	295	--	82	(6)	(6)	(6)	2,540	18	1,740
Mexico	27,000	--	--	138	(6)	(6)	(6)	--	--	82,300	2,350	75,700
Netherlands	--	--	--	120	--	--	4	--	(6)	(6)	--	(6)
Peru	(6)	--	--	--	--	--	--	--	--	10,000	2,020	11,300
Saudi Arabia	--	--	--	98	--	--	--	--	--	--	--	--
Spain	--	--	--	540	--	49	1	--	--	(6)	--	654
Tunisia	--	--	--	--	--	--	35	--	--	--	--	--
Zambia	--	--	--	--	--	--	--	--	--	689	--	--
Other	27	--	--	76	1	8	5	2	4	1,160	15	604
Total	27,000	595	1,310	1,960	63	603	236	33	233	663,000	39,900	508,000

-- 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 COPPER (UNMANUFACTURED), BY CLASS¹

(Metric tons, copper content)

Country or locality	Ore and concentrates ²			Matte, ash, and precipitates ³			Blister and anodes ⁴			Refined ⁵		
	2020			2020			2020			2020		
	2019	September	January-- September	2019	September	January-- September	2019	September	January-- September	2019	September	January-- September
Austria	--	--	--	--	--	--	127	--	--	--	--	--
Belgium	161	26	172	3,290	331	4,950	359	15	109	129	20	64
Brazil	5,370	--	--	--	--	--	39	3	13	1	--	4
Bulgaria	15,900	--	4,350	--	--	--	--	--	--	--	--	--
Canada	14,400	3,600	25,900	14,700	1,650	9,640	2,600	80	1,060	32,100	1,250	9,260
China	7	2,140	22,700	97	1	24	200	21	106	13	14	90
Germany	--	--	--	597	--	242	286	--	100	1	(6)	20
Hong Kong	--	--	9	19	--	--	279	--	76	20	18	18
India	--	--	20	--	19	19	259	19	147	36	--	--
Italy	--	--	--	--	--	--	208	24	74	26	(6)	86
Japan	27,400	2,120	11,200	48	--	58	26	--	23	11	1	3
Korea, Republic of	15,500	--	6,300	74	--	1	1,520	119	1,050	682	258	1,140
Malaysia	35	--	--	--	3	3	188	54	172	1	--	--
Mexico	248,000	25,200	200,000	1,210	2,000	2,000	32	22	34	92,100	2,980	19,500
Philippines	11,900	--	6,250	--	--	--	56	--	10	2	--	--
Slovakia	--	--	--	1,080	97	799	--	--	--	--	--	--
Spain	22,700	--	8,990	259	178	1,210	61	--	35	--	--	--
Sweden	--	--	--	--	--	--	463	--	135	(6)	--	--
Other	1,950	32	4,550	763	3	407	564	37	703	181	30	150
Total	363,000	33,100	291,000	22,200	4,280	19,300	7,270	392	3,840	125,000	4,570	30,300

-- 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 2620.30.0000, 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.

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 15
U.S. IMPORTS FOR CONSUMPTION OF COPPER SCRAP¹

(Metric tons, gross weight)

Country or locality	Unalloyed ²			Alloyed ³		
	2020			2020		
	2019	September	January–September	2019	September	January–September
Bahamas	--	--	--	736	104	519
Canada	16,700	1,000	11,200	49,900	3,800	29,600
Chile	--	--	--	1,300	--	40
Colombia	251	--	60	1,050	51	515
Costa Rica	473	35	428	1,160	120	596
Dominican Republic	610	136	641	2,120	126	866
El Salvador	--	--	--	695	14	174
Germany	188	45	147	111	3	106
Guatemala	17	--	--	603	43	214
Honduras	63	2	40	679	158	604
Japan	1,040	--	--	--	--	--
Mexico	11,500	951	6,170	42,100	3,650	25,600
Pakistan	151	--	--	--	--	--
Panama	736	46	518	483	50	231
Suriname	124	--	29	100	5	40
Venezuela	28	--	--	554	55	110
Vietnam	114	14	90	17	4	16
Other	519	11	714	3,850	244	1,700
Total	32,600	2,240	20,000	105,000	8,430	60,900

-- 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					
	2020							2020					
	2019	No. 1		No. 2		Other		2019	Segregated		Unsegregated		
		September	January– September	September	January– September	September	January– September		September	January– September	September	January– September	
Belgium	23,600	703	4,490	1,070	9,410	63	1,030	14,300	109	689	1,010	7,880	
Canada	49,200	--	--	--	--	4,340	39,100	42,000	--	--	3,720	22,000	
China	74,800	1,520	20,500	1,440	14,900	2,480	23,500	13,100	498	9,660	2,000	16,600	
Germany	29,400	1,230	11,600	417	2,790	372	3,790	14,300	39	528	995	11,500	
Greece	8,180	413	4,720	225	1,650	--	799	973	34	426	142	614	
Hong Kong	19,900	213	5,530	19	401	--	1,240	30,500	--	1,200	245	6,180	
India	14,400	360	2,000	244	2,790	256	2,290	45,500	1,840	14,900	1,390	10,400	
Japan	22,600	380	2,360	798	6,200	358	2,060	20,300	213	1,610	812	9,070	
Korea, Republic of	46,900	1,780	18,400	672	5,340	1,730	9,830	25,000	421	4,910	615	9,750	
Malaysia	65,300	244	3,080	951	9,520	3,660	21,100	156,000	2,060	14,600	8,710	75,600	
Netherlands	4,300	191	1,730	184	812	78	1,310	1,010	--	20	35	542	
Pakistan	882	2	26	53	602	--	--	19,800	20	125	1,220	10,000	
Poland	5,450	139	1,980	157	848	--	1,120	45	19	19	640	3,790	
Spain	1,510	239	694	81	1,460	161	861	8,510	394	2,240	285	3,800	
Taiwan	20,300	577	4,790	270	3,330	331	5,870	20,300	144	2,260	1,010	13,100	
Thailand	4,120	25	1,100	13	738	180	1,820	16,300	4	2,690	2,360	11,800	
Other	31,200	1,100	10,600	1,390	9,610	313	5,930	21,300	497	3,360	1,970	11,700	
Total	422,000	9,120	93,600	7,980	70,400	14,300	122,000	450,000	6,300	59,200	27,200	224,000	

-- 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 7404.00.0010 and 7404.00.0015 (no. 1), 7404.00.0025 (no. 2), and 7404.00.0030 (other).

³HTS 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. HTS codes for unsegregated alloyed copper scrap are 7404.00.0085 and 7404.00.0095.

Source: U.S. Census Bureau.