

# Mineral Industry Surveys

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## COPPER IN NOVEMBER 2019

In November 2019, mine production of recoverable copper in the United States was 104,000 metric tons (t). The average daily mine production was 3,460 t, a slight decrease from that in October and essentially unchanged from that in November 2018 (fig. 1). Year-to-date mine output through November 2019 was 1.17 million metric tons, an increase of 5% relative to the same period in 2018 (table 2). Smelter production and total domestic refinery production in November 2019 were withheld to protect company proprietary data due to an ongoing strike and subsequent closure at one of the three domestic copper smelters (KOLD News 13, 2019).

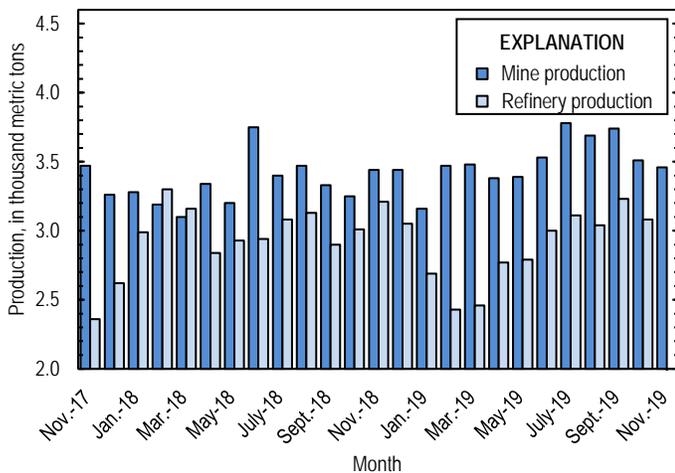


Figure 1. Average daily U.S. copper mine (recoverable) and refinery production from November 2017 through November 2019. Refinery production in November 2019 was withheld to protect company proprietary data.

**Prices**

The average November 2019 COMEX spot copper price was \$2.65 per pound, a slight increase from \$2.61 per pound in October and 4% lower than \$2.75 per pound in November 2018 (fig. 2, table 11). The average price of New York dealers' number 2 scrap in November 2019 was \$1.73 per pound, slightly higher than \$1.71 in October and a decrease of 7%

compared with \$1.85 per pound in November 2018 (fig. 2, table 12).

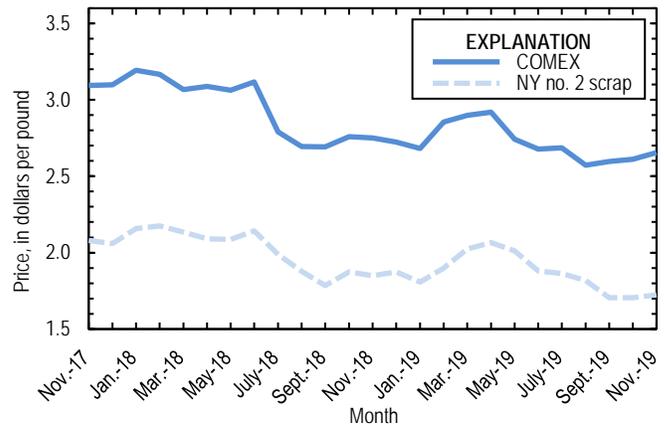


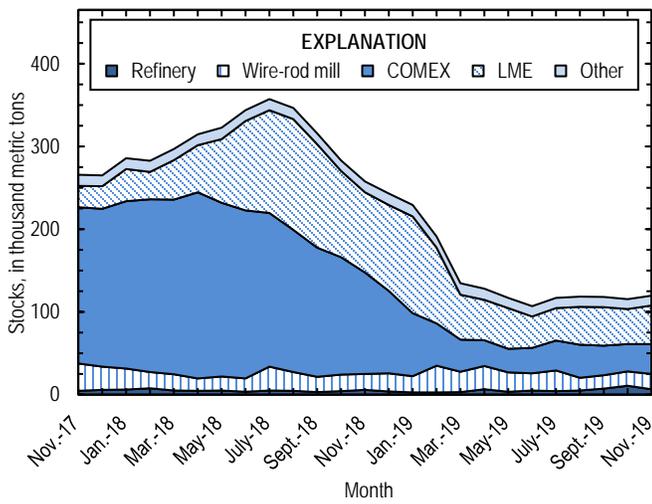
Figure 2. Monthly average COMEX copper price and New York no. 2 copper scrap price from November 2017 through November 2019. Sources: American Metal Market, Platts Metals Week.

**Stocks**

Refined U.S. copper stocks totaled 120,000 t at the end of November 2019, an increase of 4% from those in October and 54% less than those in November 2018. Stocks at wire-rod mills increased by 4%, COMEX stocks increased by 10%, and London Metal Exchange Ltd. stocks in U.S. warehouses were 11% higher than those at the end of October (fig. 3, table 10).

**Reference Cited**

KOLD News 13, 2019, ASARCO mine workers go on strike: Tucson, AZ, KOLD News 13, October 14. (Accessed October 25, 2019, at <https://www.kold.com/2019/10/14/asarco-mine-workers-go-strike/>.)



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Figure 3. Monthly domestic refined copper stocks, by type, from November 2017 through November 2019. Sources: American Metal Market, London Metal Exchange Ltd., and U.S. Geological Survey.

TABLE 1  
SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES<sup>1</sup>

(Metric tons of copper content, unless otherwise specified)

	Source table <sup>2</sup>	2019				January– November
		2018 <sup>p</sup>	September	October	November	
<b>Production:</b>						
<b>Primary:</b>						
Mine, recoverable	(2)	1,220,000	112,000	109,000	104,000	1,170,000
Smelter	(3)	536,000	43,200	43,800	W	W
<b>Refinery:</b>						
Electrolytic, domestic and foreign	(4)	538,000	49,000	46,500	W	W
Electrowon	(4)	532,000	44,700	45,800	41,100	484,000
Total	(4)	1,070,000	93,700	92,300	W	W
<b>Secondary recoverable copper:<sup>3</sup></b>						
Refineries	(5)	41,200	3,360	3,220	3,240	41,100
Ingot makers <sup>4</sup>	(5)	56,800	4,730	4,730	4,730	52,100
Brass and wire-rod mills	(5)	652,000	52,000	53,500	54,200	599,000
Foundries, etc. <sup>4</sup>	(5)	36,300	3,030	3,030	3,030	33,300
<b>Consumption:</b>						
Apparent	(8)	1,800,000	158,000	167,000	W	W
Refined (reported)	(7)	1,810,000	149,000	157,000	151,000	1,690,000
Purchased copper-base scrap (gross weight)	(9)	918,000	74,400	76,000	76,600	850,000
<b>Stocks at end of period:</b>						
Total refined	(10)	243,000	118,000	115,000	120,000	120,000
Blister, etc.	(10)	9,230	8,340	25,400 <sup>r</sup>	10,200	10,200
Price, U.S. producers cathode (cents per pound) <sup>5</sup>	(11)	298.737	266.490	268.065	272.588	279.164
<b>Imports:<sup>6</sup></b>						
Ore and concentrates	(13)	32,200	3,510	1,180	--	27,000
Refined	(13)	778,000	60,700	69,300	46,500	604,000
<b>Exports:<sup>6</sup></b>						
Ore and concentrates	(14)	253,000	25,600	26,000	41,500	316,000
Refined	(14)	190,000	8,410	8,530	9,510	118,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised. -- Zero. W Withheld to avoid disclosing company proprietary data.

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

<sup>2</sup>Numbers in parentheses refer to the tables where these data are located.

<sup>3</sup>Copper recovered from copper-base scrap only.

<sup>4</sup>Estimated based on the monthly average of 2017 annual data.

<sup>5</sup>Source: Platts Metals Week.

<sup>6</sup>Source: U.S. Census Bureau.

TABLE 2  
MINE PRODUCTION OF RECOVERABLE COPPER IN THE UNITED STATES<sup>1</sup>

(Metric tons)

Period	Recoverable copper			Contained copper		
	Arizona	Others <sup>2</sup>	Total	Electrowon	Concentrates <sup>3</sup>	Total
<b>2018:<sup>P</sup></b>						
January–November	732,000	384,000	1,120,000	486,000	653,000	1,140,000
November	65,200	38,000	103,000	43,000	62,400	105,000
December	69,300	37,300	107,000	45,800	63,000	109,000
January–December	801,000	421,000	1,220,000	532,000	716,000	1,250,000
<b>2019:</b>						
January	67,900	29,900	97,800	42,400	57,600	99,900
February	63,600	33,500	97,100	39,800	59,500	99,200
March	72,400	35,500	108,000	44,600	65,700	110,000
April	69,700	31,600	101,000	41,300	62,300	104,000
May	71,500	33,700	105,000	44,700	62,800	108,000
June	73,400	32,400	106,000	45,900	62,100	108,000
July	79,200	38,000	117,000	47,600	72,300	120,000
August	77,300	37,200	114,000	46,500	70,500	117,000
September	74,000	38,100	112,000	44,700	69,900	115,000
October	72,800	35,900	109,000	45,800	65,200	111,000
November	66,600	37,100	104,000	41,100	64,900	106,000
January–November	788,000	383,000	1,170,000	484,000	713,000	1,200,000

<sup>P</sup>Preliminary.

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

<sup>2</sup>Includes production from Michigan, Missouri, Montana, Nevada, New Mexico, and Utah.

<sup>3</sup>Includes copper content of precipitates and other metal concentrates.

TABLE 3  
COPPER PRODUCED AT SMELTERS IN  
THE UNITED STATES<sup>1,2</sup>

(Metric tons, copper content)

Period	Anode production
2018: <sup>P</sup>	
January–November	495,000
November	45,300
December	40,600
January–December	536,000
2019:	
January	34,700
February	17,700
March	37,000
April	32,900
May	54,100
June	51,800
July	34,500
August	49,200
September	43,200
October	43,800
November	W
January–November	W

<sup>P</sup>Preliminary. W Witheld to avoid disclosing company proprietary data.

<sup>1</sup>Includes blister and copper anode from primary or secondary sources.

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

TABLE 4  
PRODUCTION OF REFINED COPPER, BY SOURCE AND METHOD OF RECOVERY<sup>1</sup>

(Metric tons)

Period	Primary materials			Scrap	Total refined
	Electrolytically refined <sup>2</sup>	Electrowon	Total		
2018: <sup>P</sup>					
January–November	492,000	486,000	979,000	37,600	1,020,000
November	50,000	43,000	93,000	3,370	96,400
December	45,300	45,800	91,200	3,520	94,700
January–December	538,000	532,000	1,070,000	41,200	1,110,000
2019:					
January	37,100	42,400	79,500	3,770	83,200
February	25,000	39,800	64,800	3,330	68,100
March	27,800	44,600	72,500	3,950	76,400
April	38,100	41,300	79,400	3,600	83,000
May	38,300	44,700	83,000	3,470	86,500
June	40,600	45,900	86,500	3,480	90,000
July	45,100	47,600	92,600	3,860	96,500
August	41,800	46,500	88,300	5,860	94,100
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
January–November	W	484,000	W	41,100	W

<sup>P</sup>Preliminary. W Withheld to avoid disclosing company proprietary data.

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

<sup>2</sup>From domestic and foreign source materials.

TABLE 5  
COPPER RECOVERABLE IN UNALLOYED AND ALLOYED FORM FROM PURCHASED COPPER-BASE SCRAP<sup>1</sup>

(Metric tons, copper content)

Period	Refineries <sup>2</sup>		Ingot makers <sup>3</sup>		Brass and wire-rod mills		Foundries, etc. <sup>3</sup>		Total <sup>4</sup>
	New scrap <sup>c</sup>	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2018: <sup>p</sup>									
January–November	18,400	19,200	7,810	44,300	566,000	33,100	24,200	9,130	722,000
November	1,680	1,690	710	4,020	53,900	1,470	2,200	830	66,500
December	1,680	1,840	710	4,020	50,800	2,700	2,200	830	64,800
January–December	20,100	21,000	8,520	48,300	617,000	35,800	26,400	9,960	787,000
2019:									
January	1,680	2,100	710	4,020	52,100	3,520	2,200	830	67,200
February	1,680	1,660	710	4,020	51,900	3,170	2,200	830	66,200
March	1,680	2,270	710	4,020	52,200	3,310	2,200	830	67,200
April	1,680	1,930	710	4,020	51,400	3,340	2,200	830	66,100
May	1,680	1,790	710	4,020	51,600	3,330	2,200	830	66,100
June	1,680	1,800	710	4,020	51,400	3,550	2,200	830	66,100
July	1,680	2,190	710	4,020	49,100	3,590	2,200	830	64,300
August	1,680	4,180	710	4,020	52,800	3,030	2,200	830	69,400
September	1,680	1,680	710	4,020	49,700	2,330	2,200	830	63,200
October	1,680	1,540	710	4,020	51,000	2,490	2,200	830	64,400
November	1,680	1,560	710	4,020	51,700	2,560	2,200	830	65,200
January–November	18,400	22,700	7,810	44,300	565,000	34,200	24,200	9,130	726,000

<sup>c</sup>Estimated; <sup>p</sup>Preliminary.

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

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

<sup>3</sup>Monthly data estimated based on the monthly average of 2017 annual data.

<sup>4</sup>Does not include an estimate, based on reported 2017 annual data, of 3,190 tons per month from new scrap and 2,560 tons per month from old scrap of copper recovered from scrap other than copper-base.

TABLE 6  
 PRODUCTION, SHIPMENTS, AND STOCKS OF BRASS AND WIRE-ROD SEMIFABRICATES<sup>1</sup>

(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
<b>2018:<sup>P</sup></b>						
January–November	810,000	1,230,000	811,000	1,240,000	28,900	21,300
November	73,500	113,000	73,400	108,000	28,900	21,300
December	73,800	97,700	73,000	92,100	29,700	27,000
January–December	884,000	1,330,000	884,000	1,330,000	29,700	27,000
<b>2019:</b>						
January	74,200	113,000	73,800	116,000	30,000	23,700
February	73,500	103,000	73,600	110,000	29,900	17,100
March	74,200	117,000	73,800	112,000	30,400	22,400
April	73,700	104,000	73,900	111,000	30,200	23,800
May	73,800	116,000	74,100	112,000	29,800	28,400
June	73,600	109,000	73,500	116,000	30,000	22,100
July	70,300	110,000	70,900	113,000	29,400	25,200
August	73,800	112,000	73,700	116,000	29,500	22,700
September	73,200	113,000	73,300	110,000	29,400	26,400
October	73,900	112,000	74,000	114,000	29,200	23,800
November	73,200	101,000	73,000	100,000	29,400	24,600
January–November	807,000	1,210,000	808,000	1,230,000	29,400	24,600

<sup>P</sup>Preliminary.

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

TABLE 7  
CONSUMPTION OF REFINED COPPER<sup>1</sup>

(Metric tons)

Period	Brass mills	Wire-rod mills	Other plants <sup>2</sup>	Total
2018: <sup>P</sup>				
January–November	384,000	1,230,000	56,900	1,670,000
November	34,700	113,000	5,170	153,000
December	34,600	98,000	5,170	138,000
January–December	419,000	1,330,000	62,100	1,810,000
2019:				
January	34,900	116,000	5,170	156,000
February	34,800	106,000	5,170	146,000
March	34,900	123,000	5,170	163,000
April	34,900	119,000	5,170	159,000
May	35,400	114,000	5,170	154,000
June	34,200	110,000	5,170	150,000
July	34,100	107,000	5,170	147,000
August	34,000	116,000	5,170	155,000
September	34,100	110,000	5,170	149,000
October	34,200	118,000	5,170	157,000
November	34,100	112,000	5,170	151,000
January–November	380,000	1,250,000	56,900	1,690,000

<sup>P</sup>Preliminary.

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

<sup>2</sup>Monthly consumption data by ingot makers, chemical plants, foundries, and miscellaneous manufacturers are estimated based on the monthly average of 2017 annual data.

TABLE 8  
U.S. APPARENT CONSUMPTION OF COPPER<sup>1</sup>

(Metric tons)

Period	Refined copper production <sup>2</sup>	Copper in old scrap <sup>3</sup>	Refined general imports <sup>4</sup>	Refined exports <sup>4</sup>	Stock change during period	Apparent consumption
2018: <sup>P</sup>						
January–November	979,000	134,000	703,000	177,000	-7,650	1,650,000
November	93,000	10,600	51,000	36,200	-25,400	144,000
December	91,200	12,000	44,800	12,400	-14,900	150,000
January–December	1,070,000	146,000	747,000	190,000	-22,500	1,800,000
2019:						
January	79,500	13,000	57,600	12,600	-13,800	151,000
February	64,800	12,200	37,000	13,100	-37,900	139,000
March	72,500	13,000	39,900	10,200	-56,500	172,000
April	79,400	12,700	65,000	13,500	-6,390	150,000
May	83,000	12,500	52,000	11,000	-11,200	148,000
June	86,500	12,800	54,800	13,800	-10,100	150,000
July	92,600	13,200	68,200	9,810	10,000	154,000
August	88,300	14,600	51,100	6,960	1,580	145,000
September	93,700	11,400	61,200	8,410	-484	158,000
October	92,300	11,400	69,600	8,540	-2,550	167,000
November	W	11,500	46,500	9,510	4,327	W
January–November	W	138,000	603,000	117,000	123,000	W

<sup>P</sup>Preliminary. W Withold to avoid disclosing company proprietary data.

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

<sup>2</sup>Includes electrowon production and electrolytically-refined copper from primary materials. All refined copper consumed in scrap form is included in "Copper in old scrap."

<sup>3</sup>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 2017 annual data.

<sup>4</sup>Source: U.S. Census Bureau.

TABLE 9  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP<sup>1</sup>

(Metric tons, gross weight)

Period	Smelters and refineries		Ingot makers <sup>2</sup>		Brass and wire-rod mills <sup>3</sup>		Foundries, etc. <sup>2</sup>		Total scrap used
	New scrap <sup>e</sup>	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2018: <sup>p</sup>									
January–November	19,000	18,800	22,300	55,400	654,000	34,000	28,900	10,300	842,000
November	1,730	1,750	2,030	5,040	61,900	1,510	2,620	935	77,500
December	1,730	1,900	2,030	5,040	58,700	2,770	2,620	935	75,800
January–December	20,700	20,700	24,400	60,500	712,000	36,800	31,500	11,200	918,000
2019:									
January	1,730	2,160	2,030	5,040	60,100	3,610	2,620	935	78,300
February	1,730	1,710	2,030	5,040	59,900	3,260	2,620	935	77,200
March	1,730	2,340	2,030	5,040	60,200	3,410	2,620	935	78,300
April	1,730	1,990	2,030	5,040	59,400	3,450	2,620	935	77,200
May	1,730	1,850	2,030	5,040	59,700	3,540	2,620	935	77,500
June	1,730	1,850	2,030	5,040	59,400	3,910	2,620	935	77,500
July	1,730	2,260	2,030	5,040	57,100	3,880	2,620	935	75,600
August	1,730	4,310	2,030	5,040	61,000	3,240	2,620	935	80,900
September	1,730	1,730	2,030	5,040	57,800	2,510	2,620	935	74,400
October	1,730	1,730	2,030	5,040	59,200	2,720	2,620	935	76,000
November	1,730	1,610	2,030	5,040	59,800	2,760	2,620	935	76,600
January–November	19,000	23,500	22,300	55,400	654,000	36,300	28,900	10,300	850,000

<sup>e</sup>Estimated. <sup>p</sup>Preliminary.

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

<sup>2</sup>Monthly data estimated based on the monthly average of 2017 annual data.

<sup>3</sup>Consumption at brass and wire-rod mills assumed equal to receipts.

TABLE 10  
COPPER STOCKS AT END OF PERIOD<sup>1</sup>

(Metric tons)

Period	Crude copper <sup>2</sup>	Refined copper					Total refined	
		Refineries <sup>3</sup>	Wire-rod mills <sup>3</sup>	Brass mills <sup>3</sup>	Other <sup>4</sup>	Comex		
2018: <sup>P</sup>								
November	7,380	5,580	19,200	7,660	5,350	123,000	96,900	258,000
December	9,230	3,850	21,800	8,210	5,350	99,600	104,000	243,000
2019:								
January	9,550	2,700	19,700	8,370	5,350	76,100	117,000	229,000
February	10,200	2,750	32,300	8,270	5,350	51,200	91,300	191,000
March	15,000	2,970	24,800	8,400	5,350	38,700	54,400	135,000
April	8,860	6,630	28,100	8,370	5,350	31,100	48,600	128,000
May	9,210	3,550	23,200	7,250	5,350	28,700	49,000	117,000
June	13,600	5,000	20,700	7,120	5,350	30,700	38,000	107,000
July	15,500	4,350	25,000	7,070	5,350	36,000	39,200	117,000
August	14,500	5,050	15,400	6,930	5,350	40,000	45,700	118,000
September	8,340	7,180	16,200	6,800	5,350	36,000	46,500	118,000
October	25,400 <sup>r</sup>	10,600	17,500	6,680	5,350	33,200	42,200	115,000
November	10,200	6,650	18,200	6,580	5,350	36,400	46,600	120,000

<sup>P</sup>Preliminary. <sup>r</sup>Revised.

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

<sup>2</sup>Copper content of blister and anode.

<sup>3</sup>Stocks of refined copper as reported; no estimates are made for nonrespondents.

<sup>4</sup>Monthly estimates based on 2017 annual data, comprising stocks at ingot makers, chemical plants, foundries, and miscellaneous manufacturers.

<sup>5</sup>London 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 <sup>1</sup>	Comex first position <sup>2</sup>	LME cash price Grade A
<b>2018:</b>			
November	281.598	275.098	280.882
December	279.026	272.338	276.397
Year	298.737	292.567	295.960
<b>2019:</b>			
January	275.588	268.238	269.052
February	293.129	285.566	284.754
March	297.974	289.974	292.581
April	299.820	292.007	292.317
May	282.232	274.282	273.412
June	274.968	267.843	266.166
July	275.657	268.657	269.397
August	264.293	257.243	258.890
September	266.490	259.740	260.588
October	268.065	261.165	260.470
November	272.588	265.463	265.774
January–November	279.164	271.834	272.127

<sup>1</sup>Sum of "Comex high grade first position" and "NY dealer premium cathode."

<sup>2</sup>Listed as "Comex high grade first position."

Source: Platts Metals Week.

TABLE 12  
AVERAGE BUYING PRICES FOR COPPER SCRAP

(Cents per pound)

Period	Brass mills No. 1 scrap	Refiners No. 2 scrap	Dealers (New York)	
			No. 2 scrap	Red brass turnings and borings
2018:				
November	267.50	240.10	185.00	130.00
December	264.52	238.72	187.50	141.00
Year	283.19	254.90	200.31	150.76
2019:				
January	260.33	235.19	180.79	139.00
February	278.66	252.39	189.82	140.42
March	282.69	253.31	202.50	145.00
April	284.26	252.17	206.50	147.00
May	265.41	231.95	201.05	143.18
June	257.40	225.70	188.00	138.00
July	258.48	227.95	186.32	138.00
August	247.20	217.00	181.68	134.18
September	250.05	220.50	170.50	131.00
October	250.04	221.04	170.50	128.00
November	253.84	224.84	172.50	127.53
January–November	262.58	232.91	186.38	137.39

Source: American Metal Market.

TABLE 13  
U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY CLASS<sup>1</sup>

(Metric tons, copper content)

Country or locality	Ore and concentrates <sup>2</sup>			Matte, ash, and precipitates <sup>3</sup>			Blister and anodes			Refined		
	2019			2019			2019			2019		
	2018	November	January–November	2018	November	January–November	2018	November	January–November	2018	November	January–November
Belgium	--	--	--	283	--	228	--	--	--	10,100	--	2,300
Bolivia	--	--	--	--	--	--	--	--	--	1,460	--	1,510
Canada	40	--	(4)	613	33	405	(4)	--	(4)	172,000	10,600	125,000
Chile	--	--	--	--	--	--	--	--	--	483,000	27,900	387,000
China	8	--	--	2	--	--	--	--	(4)	111	59	321
Congo (Brazzaville)	--	--	--	--	--	--	--	--	--	1,040	--	--
Congo (Kinshasa)	--	--	--	--	--	--	--	--	--	3,380	--	--
Finland	--	--	--	--	--	--	292	--	174	--	--	38
Germany	--	--	--	--	(4)	--	(4)	--	--	1,260	181	1,910
Japan	--	--	--	10	--	295	2	--	(4)	3,990	90	2,280
Malaysia	--	--	--	--	--	--	54	--	--	--	--	--
Mexico	32,100	--	27,000	539	(4)	138	--	--	(4)	63,100	7,120	73,700
Netherlands	--	--	--	115	--	--	2	--	3	(4)	--	(4)
Peru	--	--	--	--	--	--	--	--	--	19,100	--	8,020
Saudi Arabia	--	--	--	85	--	98	--	--	--	--	--	--
Zambia	--	--	--	--	--	--	--	--	--	18,900	5	689
Other	--	--	27	175	2	600	5	(4)	40	562	584	831
Total	32,200	--	27,000	1,820	34	1,760	355	(4)	218	778,000	46,500	604,000

-- Zero.

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

<sup>2</sup>Copper ore and concentrates only; excludes copper contained in ore and concentrates of other metals.

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

<sup>4</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 14  
U.S. EXPORTS OF COPPER (UNMANUFACTURED), BY CLASS<sup>1</sup>

(Metric tons, copper content)

Country or locality	Ore and concentrates <sup>2</sup>			Matte, ash, and precipitates <sup>3</sup>			Blister and anodes			Refined		
	2019			2019			2019			2019		
	2018	November	January– November	2018	November	January– November	2018	November	January– November	2018	November	January– November
Belgium	20	--	111	2,150	181	2,790	226	11	352	--	--	129
Brazil	3,040	--	8,690	--	--	--	62	--	39	23	--	1
Bulgaria	2,990	2,270	15,900	--	--	--	--	--	--	--	--	--
Canada	17,200	1,310	12,900	19,500	463	13,800	4,320	126	3,740	37,300	2,010	28,000
China	47,500	--	7	1,650	(4)	91	210	20	192	47,600	(4)	10
Germany	4,810	--	--	1,130	59	558	282	--	266	2	--	1
Hong Kong	--	--	--	--	--	19	462	--	279	(4)	--	20
India	--	--	--	44	--	--	585	39	257	9	--	36
Italy	1	--	--	10	--	--	281	--	206	24	(4)	26
Japan	13,500	2,520	12,800	230	--	48	36	1	25	14	(4)	5
Korea, Republic of	4,690	--	9,450	817	--	74	1,680	96	1,450	2,200	6	186
Malaysia	545	--	35	413	--	--	178	--	168	62	--	4
Mexico	147,000	27,500	225,000	1,430	--	1,210	80	2	29	102,000	7,480	89,000
Philippines	1,180	4,190	11,900	--	--	--	42	--	50	(4)	--	2
Slovakia	--	--	--	526	176	1,020	--	--	--	--	--	--
Spain	10,500	2270	17,300	210	99	219	101	--	40	1	--	--
Other	120	1,410	1,930	1,850	112	670	503	45	1,100	278	5	173
Total	253,000	41,500	316,000	30,000	1,090	20,500	9,060	340	8,190	190,000	9,510	118,000

-- Zero.

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

<sup>2</sup>Copper ore and concentrates only; excludes copper contained in ore and concentrates of other metals.

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

<sup>4</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 15  
U.S. IMPORTS FOR CONSUMPTION OF COPPER SCRAP<sup>1</sup>

(Metric tons, gross weight)

Country or locality	Unalloyed			Alloyed		
	2019			2019		
	2018	November	January– November	2018	November	January– November
Bahamas	23	--	--	569	78	685
Canada	16,800	1,630	15,700	72,000	2,870	47,600
Chile	177	--	--	321	--	1,300
Colombia	367	41	231	926	36	958
Costa Rica	459	30	468	750	87	1,110
Dominican Republic	80	79	595	901	180	1,960
Guatemala	92	9	17	501	47	597
Honduras	5	8	57	589	103	612
Hong Kong	7	--	16	1,450	--	229
Japan	278	(2)	1,040	52	--	--
Mexico	10,800	622	10,800	38,600	3,400	38,800
Pakistan	567	--	151	--	--	--
Panama	1,020	80	620	640	30	424
Spain	--	--	--	637	--	--
Venezuela	2,540	--	28	646	--	526
Other	1,270	79	864	4,150	256	4,150
Total	34,500	2,580	30,600	123,000	7,090	98,900

-- Zero.

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

<sup>2</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 16  
U.S. EXPORTS OF COPPER SCRAP<sup>1</sup>

(Metric tons, gross weight)

Country or locality	Unalloyed						Alloyed					
	2018	2019					2018	2019				
		No. 1		No. 2		Other		Segregated		Unsegregated		
		November	January– November	November	January– November	November		November	January– November	November	January– November	
Belgium	19,500	1,210	7,310	1,110	11,900	296	2,460	11,800	98	772	1,070	12,700
Canada	51,900	--	--	--	--	3,900	45,900	40,200	--	--	2,270	40,200
China	193,000	1,850	24,700	1,110	26,200	1,170	21,300	78,600	106	5,330	260	7,720
Germany	24,000	1,050	16,800	541	7,360	253	2,080	13,300	56	1,260	1,140	12,200
Greece	7,630	161	5,340	19	514	40	1,210	1,150	58	371	19	355
Hong Kong	20,700	440	6,630	99	5,320	248	7,030	23,600	136	8,650	1,810	21,000
India	14,000	124	2,410	473	4,090	669	7,280	34,300	2,840	28,900	1,100	12,500
Japan	29,300	244	5,370	674	12,300	329	3,640	26,700	306	4,800	971	14,000
Korea, Republic of	45,800	3,440	22,600	1,160	5,990	1,430	12,500	25,900	773	11,100	1,220	11,900
Malaysia	47,800	645	10,900	1,460	17,500	2,710	31,700	71,800	2,050	26,500	12,200	120,000
Netherlands	8,030	97	753	--	414	78	3,030	2,280	--	216	79	756
Pakistan	1,450	2	477	33	596	--	57	16,500	--	411	1,730	17,700
Spain	760	32	359	141	380	62	475	10,100	198	2,870	287	5,330
Taiwan	17,100	879	8,640	417	2,420	802	6,860	18,300	648	5,400	1,920	12,100
Thailand	3,000	45	828	58	869	391	1,600	11,100	407	1,010	1,320	13,200
Other	25,700	964	13,200	2,590	11,000	1,250	6,970	17,900	434	3,790	1,110	16,400
Total	509,000	11,200	126,000	9,890	107,000	13,600	154,000	403,000	8,110	101,000	28,500	318,000

-- Zero.

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

Source: U.S. Census Bureau.