

Mineral Industry Surveys

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COPPER IN JUNE 2018

In June 2018, domestic mine production of recoverable copper was 113,000 metric tons (t). The average daily mine production was 3,770 t, an increase of 18% from that in May and 4% higher compared with that in June 2017. Year-to-date recoverable mine production through June 2018 was 599,000 t, a decrease of 8% relative to that in the same period in 2017 (fig. 1, table 2).

The Bingham Canyon Mine, owned and operated by Rio Tinto plc (United Kingdom), produced slightly less copper in the first half of 2018 relative to that in the first half of 2017 owing to temporarily lower ore grades early in the year. The company reported that mining activity moved into a higher-grade section of the pit during the second quarter (Rio Tinto plc, 2018a, p. 4; 2018b, p. 6). Output from the Arizona and New Mexico mines of Freeport-McMoRan Inc. (Phoenix, AZ) was also affected by lower ore grades; Freeport reported a 10% decrease in recoverable copper production at domestic mines in the first half of 2018 compared with that in the same period of the prior year (Freeport-McMoRan Inc., 2018). At Capstone Mining Corp.’s (Canada) Pinto Valley Mine in Arizona, total first half production of copper decreased by 7% from that in the first half of 2017 owing to lower-than-expected throughput and recovery rates during the first quarter. Ore grades increased in the second quarter and were expected to rise throughout the rest of 2018 (Capstone Mining Corp., 2017, 2018a, b). A landslide on March 21 at ASARCO LLC’s (Tucson, AZ) Mission Mine also significantly affected copper output in the first half (Grupo México S.A.B. de C.V., 2018, p. 3).

Total refinery production in the United States was 88,000 t in June 2018; data for electrolytic and electrowon output, as well as refined production from scrap, are in table 4. The average daily total refinery production was 2,930 t, unchanged from that in May and 6% greater than that in June 2017. Year-to-date refinery production through June 2018 was 547,000 t, a slight decline relative to the same period in 2017 (fig. 1, table 4).

Smelter production in June 2018 was 45,700 t. The average daily smelter production was 1,520 t, 21% higher than that in May and an increase of 23% compared with the daily average in

June 2017. Year-to-date smelter production through June 2018 was 267,000 t, 8% greater than that through June 2017 (table 3). Rio Tinto plc continued to draw down stocks of copper concentrates at the company’s Utah smelter, which had accumulated during a 27-day shutdown in late 2017 (Rio Tinto plc, 2018b, p. 6). For much of the first half of the year, ASARCO was ramping up production at its smelter near Hayden, AZ, after completing a project to modernize the facility. As of the end of June, the smelter was operating at 80% capacity, with full production anticipated sometime in the third quarter 2018 (Grupo México S.A.B. de C.V., 2018, p. 3).

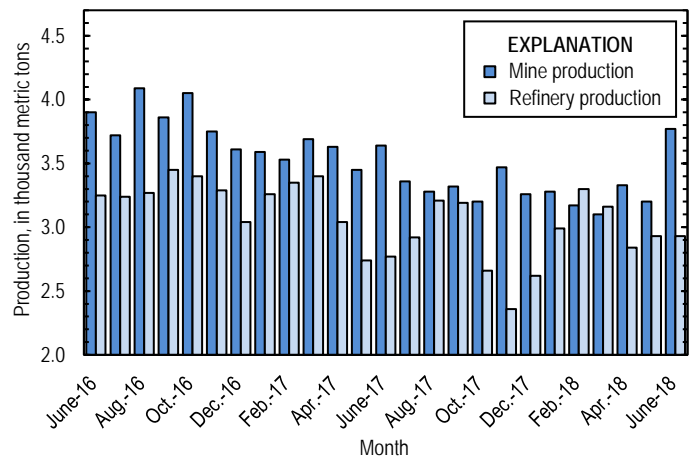


Figure 1. Average daily U.S. copper mine (recoverable) and refinery production from June 2016 through June 2018.

Prices

The average June 2018 COMEX spot copper price was \$3.12 per pound, a slight increase from \$3.06 per pound in May and 20% greater than \$2.60 per pound in June 2017 (fig. 2, table 11). The average price of New York dealers’ number 2 scrap in June 2018 was \$2.14 per pound, up slightly from \$2.09 per pound in May and 22% higher than \$1.76 per pound in June 2017 (fig. 2, table 12).

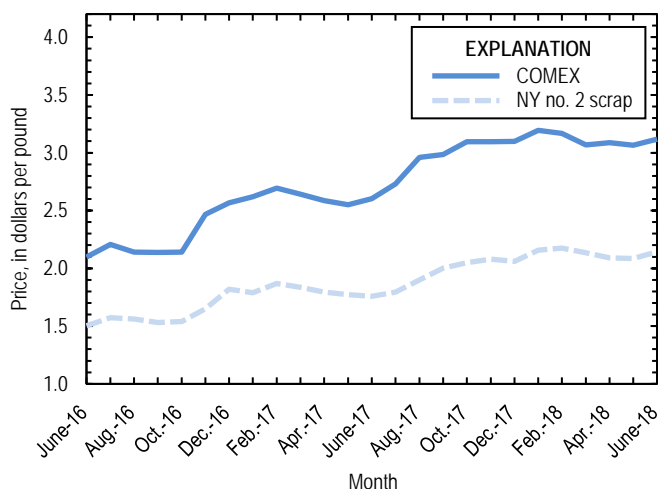


Figure 2. Monthly average COMEX copper price and New York no. 2 copper scrap price from June 2016 through June 2018. Sources: American Metal Market, Platts Metals Week.

Stocks

Refined copper stocks in the United States totaled 348,000 t at the end of June 2018, an increase of 6% from those in May and 59% more than those in June 2017. COMEX stocks fell by 3%, stocks at wire-rod mills decreased by 7%, and London Metal Exchange Ltd. stocks in U.S. warehouses were 40% higher compared with those at the end of May (fig. 3, table 10). The price differential between refined copper stored in COMEX and LME warehouses rose to 3.01 cents per pound in May and 3.72 cents per pound in June compared with an average of roughly 1.4 cents per pound in the first 4 months of 2018 (table 11). Some copper traders consequently may have bought material from COMEX warehouses and shifted it to LME facilities (Barker, 2018).

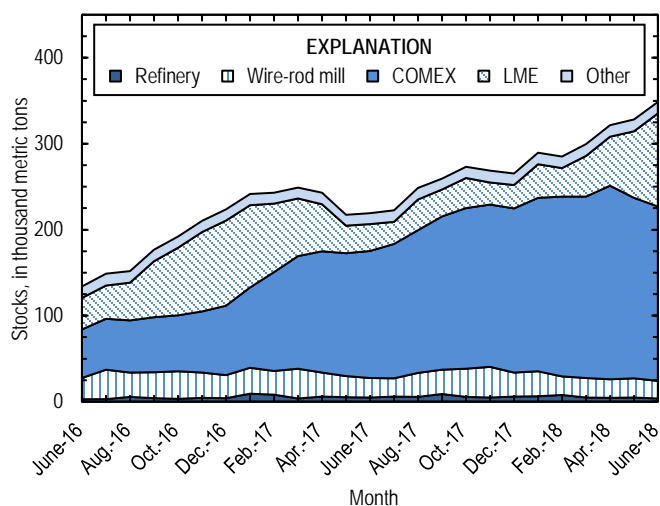


Figure 3. Monthly domestic refined copper stocks, by type, from June 2016 through June 2018. Sources: American Metal Market, London Metal Exchange Ltd., and U.S. Geological Survey.

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

(Metric tons of copper content, unless otherwise specified)

	Source table ²	2018				January– June
		2017 ^P	April	May	June	
Production:						
Primary:						
Mine, recoverable	(2)	1,260,000	100,000	99,100 ^r	113,000	599,000
Smelter, total	(3)	470,000	44,800	39,000	45,700	267,000
Refinery:						
Electrolytic, domestic and foreign	(4)	482,000	38,700	41,600	39,800	262,000
Electrowon	(4)	557,000	43,200	46,000	44,800	266,000
Total	(4)	1,040,000	81,900	87,500	84,600	527,000
Secondary recoverable copper:³						
Refineries	(5)	40,100	3,260	3,330	3,400	19,700
Ingot makers ⁴	(5)	57,600	4,800	4,800	4,800	28,800
Brass and wire-rod mills	(5)	645,000	54,100	56,200	55,400	323,000
Foundries, etc. ⁴	(5)	46,800	3,900	3,900	3,900	23,400
Consumption:						
Apparent	(8)	1,870,000	121,000	143,000 ^r	131,000	877,000
Refined (reported)	(7)	1,770,000	136,000	146,000	138,000	854,000
Purchased copper-base scrap (gross weight)	(9)	924,000	77,400	79,500	78,700	463,000
Stocks at end of period:						
Total refined	(10)	266,000	321,000 ^r	328,000	348,000	348,000
Bliester, etc.	(10)	12,600	9,880	8,130	14,300	14,300
Price, U.S. producers cathode (cents per pound) ⁵	(11)	285.393	314.129	312.402	318.152	317.317
Imports:⁶						
Ore and concentrate	(13)	14,000	3	4,370	4	22,900
Refined	(13)	813,000	61,800	64,600	66,200	431,000
Exports:⁶						
Ore and concentrate	(14)	237,000	15,400	17,300	19,700	115,000
Refined	(14)	94,200	13,700	13,800	11,200	67,600

^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 2016 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
2017: ^P						
January–June	432,000	217,000	649,000	278,000	386,000	664,000
June	71,900	37,100	109,000	46,600	64,700	111,000
July	73,500	30,600	104,000	44,900	61,600	107,000
August	71,200	30,500	102,000	46,900	57,000	104,000
September	75,000	24,500	99,500	46,700	55,000	102,000
October	66,900	32,400	99,300	46,600	54,800	101,000
November	72,800	31,200	104,000	46,600	59,700	106,000
December	76,100	24,900	101,000	47,600	55,700	103,000
January–December	868,000	391,000	1,260,000	557,000	730,000	1,290,000
2018:						
January	68,800	32,900	102,000	46,800	56,900	104,000
February	61,000	27,700	88,600	40,600	50,000	90,500
March	68,200	27,800	96,000	44,300	53,700	98,000
April	65,400	34,600	100,000	43,200	58,800	102,000
May	69,300	29,800 ^r	99,100 ^r	46,000	55,200 ^r	101,000
June	71,100	41,900	113,000	44,800	70,600	115,000
January–June	404,000	195,000	599,000	266,000	345,000	611,000

^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
2017: ^P	
January–June	247,000
June	37,100
July	45,800
August	47,200
September	49,000
October	29,300
November	14,500
December	37,800
January–December	470,000
2018:	
January	53,900
February	42,200
March	41,500
April	44,800
May	39,000
June	45,700
January–June	267,000

^PPreliminary.

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

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

TABLE 4
PRODUCTION OF REFINED COPPER, BY SOURCE AND METHOD OF RECOVERY¹

(Metric tons)

Period	Primary materials			Scrap	Total refined
	Electrolytically refined ²	Electrowon	Total		
2017: ^P					
January–June	261,000	278,000	539,000	20,500	559,000
June	33,100	46,600	79,800	3,280	83,000
July	42,400	44,900	87,300	3,220	90,600
August	49,200	46,900	96,100	3,340	99,400
September	45,700	46,700	92,400	3,310	95,700
October	32,500	46,600	79,100	3,280	82,400
November	21,100	46,600	67,700	3,240	70,900
December	30,400	47,600	77,900	3,250	81,200
January–December	482,000	557,000	1,040,000	40,100	1,080,000
2018:					
January	42,800	46,800	89,600	3,220	92,800
February	48,500	40,600	89,000	3,260	92,300
March	50,400	44,300	94,800	3,220	98,000
April	38,700	43,200	81,900	3,260	85,200
May	41,600	46,000	87,500	3,330	90,900
June	39,800	44,800	84,600	3,400	88,000
January–June	262,000	266,000	527,000	19,700	547,000

^PPreliminary.

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

²From domestic and foreign source materials.

TABLE 5
COPPER RECOVERABLE IN UNALLOYED AND ALLOYED FORM FROM PURCHASED COPPER-BASE SCRAP¹

(Metric tons, copper content)

Period	Refineries ²		Ingot makers ³		Brass and wire-rod mills		Foundries, etc. ³		Total ⁴
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2017: ^P									
January–June	10,100	10,400	4,800	24,000	306,000	18,700	18,300	5,070	398,000
June	1,680	1,600	800	4,000	51,300	3,070	3,060	845	66,400
July	1,680	1,540	800	4,000	50,700	3,010	3,060	845	65,700
August	1,680	1,660	800	4,000	52,100	3,360	3,060	845	67,500
September	1,680	1,630	800	4,000	49,200	2,870	3,060	845	64,100
October	1,680	1,600	800	4,000	52,200	3,350	3,060	845	67,600
November	1,680	1,560	800	4,000	49,900	3,110	3,060	845	65,000
December	1,680	1,570	800	4,000	48,000	2,500	3,060	845	62,400
January–December	20,100	20,000	9,600	48,000	608,000	36,900	36,700	10,100	790,000
2018:									
January	1,680	1,540	800	4,000	51,100	3,300	3,060	845	66,300
February	1,680	1,580	800	4,000	50,000	2,940	3,060	845	64,900
March	1,680	1,540	800	4,000	46,800	3,350	3,060	845	62,100
April	1,680	1,580	800	4,000	50,800	3,270	3,060	845	66,100
May	1,680	1,650	800	4,000	53,000	3,180	3,060	845	68,200
June	1,680	1,720	800	4,000	52,400	2,960	3,060	845	67,500
January–June	10,100	9,600	4,800	24,000	304,000	19,000	18,300	5,070	395,000

^PPreliminary.

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 2016 annual data.

⁴Does not include an estimate, based on reported 2016 annual data, of 3,120 tons per month from new scrap and 2,490 tons per month from old scrap of copper recovered from scrap other than copper-base.

TABLE 6
PRODUCTION, SHIPMENTS, AND STOCKS OF BRASS AND WIRE-ROD SEMIFABRICATES¹

(Metric tons, gross weight)

Period	Production		Shipments		Stocks, end of period	
	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills
2017: ^P						
January–June	441,000	675,000	441,000	673,000	28,600	26,400
June	73,300	115,000	73,000	117,000	28,600	26,400
July	73,000	97,200	73,200	97,400	28,400	26,700
August	75,000	111,000	74,200	112,000	29,300	25,800
September	74,000	108,000	73,600	103,000	29,700	30,300
October	74,100	107,000	74,100	109,000	29,700	28,500
November	72,500	100,000	72,800	100,000	29,300	28,300
December	72,100	93,400	72,000	91,100	29,500	30,600
January–December	882,000	1,290,000	881,000	1,290,000	29,500	30,600
2018:						
January	73,600	105,000	73,500	105,000	29,500	30,800
February	72,700	101,000	73,400	103,000	28,800	28,500
March	74,300	108,000	74,000	107,000	29,200	28,800
April	73,600	95,500	73,600	103,000	29,200	21,200
May	73,600	105,000	74,000	106,000	28,800	21,000
June	73,900	110,000	73,800	105,000	28,900	26,000
January–June	442,000	625,000	442,000	629,000	28,900	26,000

^PPreliminary.

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

TABLE 7
CONSUMPTION OF REFINED COPPER¹

(Metric tons)

Period	Brass mills	Wire-rod mills	Other plants ²	Total
2017: ^P				
January–June	209,000	682,000	33,700	925,000
June	34,700	114,000	5,620	155,000
July	35,000	96,300	5,620	137,000
August	35,300	98,600	5,620	140,000
September	35,200	108,000	5,620	148,000
October	35,400	107,000	5,620	148,000
November	34,700	99,900	5,620	140,000
December	34,900	92,700	5,620	133,000
January–December	420,000	1,280,000	67,400	1,770,000
2018:				
January	34,600	105,000	5,620	145,000
February	35,100	100,000	5,620	141,000
March	34,900	107,000	5,620	148,000
April	35,100	95,300	5,620	136,000
May	34,900	105,000	5,620	146,000
June	34,900	97,400	5,620	138,000
January–June	210,000	610,000	33,700	854,000

^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 2016 annual data.

TABLE 8
U.S. APPARENT CONSUMPTION OF COPPER¹

(Metric tons)

Period	Refined copper production ²	Copper in old scrap ³	Refined general imports ⁴	Refined exports ⁴	Stock change during period	Apparent consumption
2017: ^p						
January–June	539,000	73,100	394,000	58,800	-3,820 ^r	951,000 ^r
June	79,800	12,000	79,500	6,140	1,330 ^r	164,000
July	87,300	11,900	91,900 ^r	7,140	3,230 ^r	181,000
August	96,100	12,400	54,200 ^r	6,680	26,000 ^r	130,000
September	92,400	11,800	84,400 ^r	7,170 ^r	11,100 ^r	170,000 ^r
October	79,100	12,300	70,600 ^r	5,210	13,400 ^r	143,000 ^r
November	67,700	12,000	66,500	4,400	-3,970 ^r	146,000
December	77,900	11,400	58,900	4,810	-3,280 ^r	147,000
January–December	1,040,000	145,000	820,000	94,200	42,700 ^r	1,870,000
2018:						
January	89,600	12,200	81,100	9,550	23,400 ^r	150,000
February	89,000	11,900	77,500	7,270	-3,810 ^r	175,000
March	94,800	12,200	75,200	12,100	14,300 ^r	156,000 ^r
April	81,900	12,200	62,400	13,700	21,500 ^r	121,000
May	87,500	12,200	64,600	13,800	7,020 ^r	143,000 ^r
June	84,600	12,000	66,200	11,200	20,100	131,000
January–June	527,000	72,600	427,000	67,600	82,600	877,000

^pPreliminary. ^rRevised.

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

²Includes electron production and electrolytically-refined copper from primary materials. All refined copper produced from scrap is included in "Copper in old scrap."

³Includes 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 2016 annual data.

⁴Source: U.S. Census Bureau.

TABLE 9
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP¹

(Metric tons, gross weight)

Period	Smelters and refineries		Ingot makers ²		Brass and wire-rod mills ³		Foundries, etc. ²		Total scrap used
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2017: ^p									
January–June	10,400	9,580	12,400	30,800	354,000	19,400	21,900	5,740	464,000
June	1,730	1,650	2,060	5,130	59,300	3,180	3,660	956	77,700
July	1,730	1,590	2,060	5,130	58,700	3,070	3,660	956	76,900
August	1,730	1,590	2,060	5,130	60,100	3,450	3,660	956	78,700
September	1,730	1,690	2,060	5,130	57,100	2,920	3,660	956	75,200
October	1,730	1,650	2,060	5,130	60,200	3,460	3,660	956	78,900
November	1,730	1,610	2,060	5,130	57,900	3,180	3,660	956	76,200
December	1,730	1,620	2,060	5,130	55,900	2,560	3,660	956	73,600
January–December	20,800	19,300	24,700	61,600	704,000	38,000	43,900	11,500	924,000
2018:									
January	1,730	1,590	2,060	5,130	59,000	3,380	3,660	956	77,500
February	1,730	1,630	2,060	5,130	57,900	3,010	3,660	956	76,100
March	1,730	1,590	2,060	5,130	54,700	3,450	3,660	956	73,300
April	1,730	1,630	2,060	5,130	58,800	3,380	3,660	956	77,400
May	1,730	1,700	2,060	5,130	61,000	3,270	3,660	956	79,500
June	1,730	1,770	2,060	5,130	60,400	3,030	3,660	956	78,700
January–June	10,400	9,900	12,400	30,800	352,000	19,500	21,900	5,740	463,000

^pPreliminary.

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

²Monthly data estimated based on the monthly average of 2016 annual data.

³Consumption at brass and wire-rod mills assumed equal to receipts.

TABLE 10
COPPER STOCKS AT END OF PERIOD¹

(Metric tons)

Period	Crude copper ²	Refined copper					Total refined	
		Refineries ³	Wire-rod mills ³	Brass mills ³	Other ⁴	Comex		LME ⁵
2017: ^P								
June	11,000	4,670	22,700	7,430	5,470	148,000	31,000	219,000
July	11,000	5,810	21,500	7,920	5,470	156,000 ^r	25,800	222,000
August	7,350	5,610	27,800	7,740	5,470	166,000 ^r	35,900	248,000 ^r
September	12,100	8,740	28,600	7,440	5,470	178,000 ^r	31,300	260,000 ^r
October	13,600	5,620	32,600	7,650	5,470	187,000	34,800	273,000
November	16,700	4,700	35,700	8,190	5,470	189,000 ^r	25,600	269,000
December	12,600	5,840	28,000	7,870	5,470	191,000 ^r	27,100	266,000
2018:								
January	15,000	6,190	29,000	8,040	5,470	202,000	38,800	289,000
February	14,600	7,690	21,800	7,880	5,470	209,000	33,200	285,000
March	9,010	4,790	22,600	8,000	5,470	211,000 ^r	47,600	300,000 ^r
April	9,880	4,500	21,600	7,870	5,470	225,000 ^r	57,000	321,000 ^r
May	8,130	4,960	22,200	8,190	5,470	210,000	77,200	328,000
June	14,300	3,590	20,600	7,980	5,470	203,000	108,000	348,000

^PPreliminary. ^rRevised.

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

²Copper content of blister and anode.

³Stocks of refined copper as reported; no estimates are made for nonrespondents.

⁴Monthly estimates based on 2016 annual data, comprising stocks at ingot makers, chemical plants, foundries, and miscellaneous manufacturers.

⁵London Metal Exchange Ltd., U.S. warehouses.

TABLE 11
AVERAGE PRICE OF COPPER IN THE UNITED STATES
AND ON THE LONDON METAL EXCHANGE

(Cents per pound)

Period	U.S. producers cathode ¹	Comex first position ²	LME cash price Grade A
2017:			
June	265.143	260.193	258.506
July	277.821	272.883	271.162
August	300.928	295.878	293.822
September	303.468	298.405	298.585
October	314.747	309.559	308.299
November	314.717	309.417	309.581
December	314.825	309.825	308.471
Year	285.393	280.425	279.518
2018:			
January	324.640	319.390	321.137
February	322.495	316.745	317.574
March	312.083	306.683	308.227
April	314.129	308.754	310.169
May	312.402	306.402	309.409
June	318.152	311.714	315.436
January-June	317.317	311.615	313.659

¹Sum of "Comex high grade first position" and "NY dealer premium cathode."

²Listed as "Comex high grade first position."

Source: Platts Metals Week.

TABLE 12
AVERAGE BUYING PRICES FOR COPPER SCRAP

(Cents per pound)

Period	Brass mills No. 1 scrap	Refiners No. 2 scrap	Dealers (New York)	
			No. 2 scrap	Red brass turnings and borings
2017:				
June	255.59	232.27	175.95	144.00
July	267.82	243.18	179.50	146.00
August	285.74	260.67	190.07	151.17
September	286.25	261.35	200.30	154.45
October	297.34	270.18	204.95	156.18
November	295.42	267.25	208.00	157.50
December	298.58	271.05	206.00	157.00
Year	271.69	245.68	189.25	149.55
2018:				
January	308.14	279.00	215.79	160.81
February	304.63	275.68	217.50	161.00
March	295.18	268.32	213.50	160.00
April	299.33	274.36	209.02	158.00
May	297.50	271.68	208.59	158.55
June	301.67	274.14	214.17	160.57
January-June	301.08	273.86	213.10	159.82

Source: American Metal Market.

TABLE 13
U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY CLASS¹

(Metric tons, copper content)

Country or locality	Ore and concentrates ²			Matte, ash, and precipitates ³			Blister and anodes			Refined		
	2018			2018			2018			2018		
	2017	June	January–June	2017	June	January–June	2017	June	January–June	2017	June	January–June
Belgium	--	--	--	69	33	66	--	--	--	(4)	--	10,100
Bolivia	--	--	--	--	--	--	--	--	--	1,560	--	439
Brazil	--	--	--	--	--	--	--	--	--	3,580	--	297
Canada	6 ^r	--	40	284	54	285	--	--	--	209,000	12,500	92,600
Chile	--	--	--	--	--	--	--	--	--	486,000	40,100	272,000
China	--	4	8	33	--	(4)	--	--	--	50 ^r	6	36
Congo (Kinshasa)	--	--	--	--	--	--	--	--	--	9,190	265	3,260
Finland	--	--	--	--	--	--	359	34	153	4	--	--
Germany	--	--	--	7	--	--	(4)	--	(4)	2,310	96	552
India	--	--	--	--	--	--	--	--	--	224	--	(4)
Japan	--	--	--	76	--	--	2	--	(4)	4,630	322	1,990
Malaysia	--	--	--	--	--	--	126	--	54	--	--	--
Mexico	14,000	--	22,900	588	24	355	--	--	--	75,200	7,800	32,100
Netherlands	--	--	--	166	--	66	3	--	(4)	3	--	(4)
Peru	--	--	--	--	--	--	--	--	--	18,000	--	5,010
South Africa	--	--	--	--	--	--	--	--	--	1,510	--	963
Other	9	--	--	397 ^r	--	36	14	(4)	2	1,230	5,130	12,000
Total	14,000 ^r	4	22,900	1,620 ^r	111	807	504	34	210	813,000	66,200	431,000

^rRevised. -- Zero.

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

²Copper ore and concentrates only; excludes copper contained in ore and concentrates of other metals.

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

⁴Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 14
U.S. EXPORTS OF COPPER (UNMANUFACTURED), BY CLASS¹

(Metric tons, copper content)

Country or locality	Ore and concentrates ²			Matte, ash, and precipitates ³			Blister and anodes			Refined		
	2018			2018			2018			2018		
	2017	June	January–June	2017	June	January–June	2017	June	January–June	2017	June	January–June
Belgium	--	--	--	4,860	134	1,160	447	18	106	(4)	--	--
Canada	23,500	1,590	9,440	17,300 ^r	1,100	10,800	3,290	45	2,520	18,300	2,100	15,600
China	70,800	8,190	31,900	392	23	476	249	--	105	10,100	3	984
Germany	--	--	--	576	169	656	215	20	93	14	--	2
Hong Kong	--	--	--	--	--	--	1,110	59	257	1	--	(4)
India	1	--	--	(4)	--	25	730	97	362	15	--	6
Italy	--	--	--	73	3	10	325	30	132	14	2	20
Japan	1,540	--	48	189	96	96	80	--	16	16	--	11
Korea, Republic of	99	--	2,150	397	35	335	1,780	117	697	2,460	--	1,510
Mexico	141,000	9,940	71,700	99	--	4	102	4	63	62,600	9,060	49,200
Singapore	--	--	--	--	--	--	40	--	26	5	(4)	(4)
Spain	--	--	--	124	2	210	121	20	61	1	--	(4)
Switzerland	--	--	--	--	--	--	31	6	14	5	2	4
Taiwan	--	--	--	146	--	--	122	--	20	19	--	12
Vietnam	--	--	--	--	--	--	--	--	--	503	--	1
Other	137	6	44	1,090	51	509	1,040	28	323	142	78	215
Total	237,000	19,700	115,000	25,200 ^r	1,610	14,300	9,690	445	4,790	94,200	11,200	67,600

^rRevised. -- Zero.

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

²Copper ore and concentrates only; excludes copper contained in ore and concentrates of other metals.

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

⁴Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 15
U.S. IMPORTS FOR CONSUMPTION OF COPPER SCRAP¹

(Metric tons, gross weight)

Country or territory	Unalloyed			Alloyed		
	2018			2018		
	2017	June	January– June	2017	June	January– June
Canada	18,900	1,300	8,480	81,900	6,460	38,400
Chile	57	20	121	301	--	74
Colombia	598	21	197	1,360	88	540
Costa Rica	636	65	294	1,060	65	360
Guatemala	36	5	61	446	58	243
Honduras	61	1	1	352	87	220
Mexico	10,400	787	5,330	35,300	3,020	18,200
Nicaragua	38	--	19	321	--	185
Pakistan	694	95	491	--	--	--
Panama	1,440	105	736	790	53	359
Venezuela	958	445	1,780	1,870	107	457
Other	1,720 ^r	75	895	6,190	580	3,140
Total	35,500	2,920	18,400	130,000	10,500	62,100

^rRevised. -- Zero.

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

Source: U.S. Census Bureau.

TABLE 16
U.S. EXPORTS OF COPPER SCRAP¹

(Metric tons, gross weight)

Country or territory	Unalloyed							Alloyed					
	2017	2018						2017	2018				
		No. 1		No. 2		Other			Segregated		Unsegregated		
		January–	June	January–	June	January–	June		January–	June	January–	June	
Belgium	7,870	871	2,350	1,300	3,170	283	1,330	8,560	115	248	765	3,810	
Canada	43,800 ^r	--	--	--	--	4,700	26,600	49,700 ^r	--	--	2,020	16,200	
China	352,000 ^r	2,990	53,500	3,220	49,600	4,990	47,800	336,000 ^r	1,410	27,800	1,800	36,200	
Germany	19,700	1,120	7,840	429	2,590	134	701	10,900	315	1,810	645	5,020	
Hong Kong	5,580 ^r	525	2,380	122	513	1,430	4,170	30,800 ^r	407	3,860	972	8,600	
India	4,810 ^r	979	3,300	767	1,370	286	959	20,100 ^r	1,380	6,910	564	2,500	
Japan	11,800	375	1,360	1,260	6,310	263	1,930	9,300	290	768	1,160	8,200	
Korea, Republic of	17,200 ^r	2,090	10,100	792	2,070	1,180	3,270	14,100 ^r	1,170	3,890	1,180	4,460	
Mexico	3,500	320	2,160	--	5	19	39	507	1	30	51	365	
Netherlands	7,260	249	2,180	39	158	414	2,180	1,120	--	119	11	855	
Pakistan	3,790 ^r	54	258	82	269	--	2	5,780	--	126	873	3,870	
Spain	1,220	--	201	20	127	--	59	6,280	307	1,330	576	3,480	
Taiwan	5,750 ^r	487	3,050	82	452	283	1,860	2,900	225	674	1,170	5,110	
Thailand	204	26	982	25	380	316	1,410	472	6	401	1,310	8,830	
Other	9,690 ^r	1,510	7,350	1,900	6,270	3,500	12,300	13,600	3,550	9,510	3,100	17,200	
Total	494,000 ^r	11,600	97,000	10,000	73,300	17,800	105,000	510,000	9,160	57,500	16,200	125,000	

^rRevised. -- Zero.

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

Source: U.S. Census Bureau.