

# Mineral Industry Surveys

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#### **COPPER IN JANUARY 2017**

In January 2017, domestic mine production of recoverable copper was 109,000 metric tons (t), a slight decrease from 112,000 t in December and 10% less than that in January 2016. Refinery production was 101,000 t, an increase of 7% from 94,100 t in December and 8% less than that in January 2016 (fig. 1; tables 2, 4).

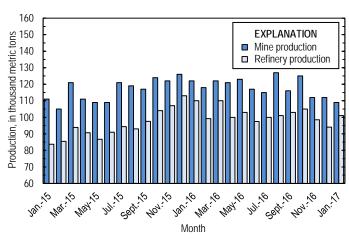


Figure 1. Monthly domestic copper mine production (recoverable) and refinery production from January 2015 through January 2017. Source: U.S. Geological Survey.

U.S. electrolytic refinery production in January 2017 was 51,100 t, an increase of 19% compared with that in December and unchanged from that in January 2016. Electrowon production was 46,800 t, a slight decline relative to that in December and 14% less than that in January 2016. Smelter production was 48,900 t, 11% less than that in December and 7% greater than that in January 2016 (tables 3, 4).

# Stocks

Refined copper stocks in the United States at the end of January 2017 totaled 250,000 t and rose by 7% relative to those at the end of December owing primarily to an increase of 16% in COMEX stocks. Total refined stocks were 14% greater than those at the end of January 2016 (fig. 2, table 10).

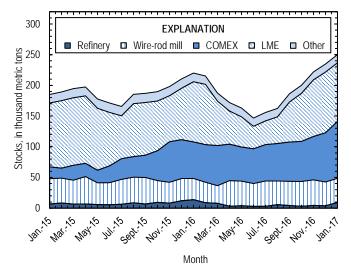


Figure 2. Monthly U.S. refined copper stocks, by type, from January 2015 through January 2017. Sources: American Metal Market, London Metal Exchange Ltd., and U.S. Geological Survey.

#### Prices

The average January 2017 COMEX spot copper price was \$2.62 per pound, the highest monthly average since June 2015. The January price increased slightly from \$2.57 per pound in December and was 30% greater than that in January 2016 (table 11). The average price for New York dealers' number 2 scrap was \$1.79 per pound, down slightly from the average price in December and up by 25% from the average price in January of the prior year (table 12).

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# TABLE 1 SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES $^{\rm 1}$

(Metric tons, unless otherwise specified)

				2016		
	Source				January-	2017
	table <sup>2</sup>	2015 <sup>p</sup>	November	December	December	January
Production:						
Primary:						
Mine, recoverable	(2)	1,410,000	112,000	112,000 <sup>r</sup>	1,430,000	109,000
Smelter, total	(3)	527,000	43,300	55,000	563,000	48,900
Refinery:						
Electrolytic, domestic and foreign	(4)	503,000	46,600	42,900	561,000	51,100
Electrowon	(4)	588,000	48,700	47,900	615,000	46,800
Total	(4)	1,090,000	95,300	90,800	1,180,000	97,900
Secondary recoverable copper:						
Refineries	(5)	48,800	3,220	3,330	46,300	3,240
Ingot makers <sup>3</sup>	(5)	56,300	6,090 <sup>r</sup>	6,090 <sup>r</sup>	73,100 <sup>r</sup>	6,090
Brass and wire-rod mills	(5)	570,000	52,900	52,000	621,000	52,900
Foundries, etc. <sup>3</sup>	(5)	50,200	3,940 <sup>r</sup>	3,940 <sup>r</sup>	47,200 <sup>r</sup>	3,940
Consumption:						
Apparent	(8)	1,810,000	139,000 <sup>r</sup>	143,000 <sup>r</sup>	1,880,000 <sup>r</sup>	156,000
Refined (reported)	(7)	1,800,000	150,000 <sup>r</sup>	133,000 <sup>r</sup>	1,780,000 <sup>r</sup>	147,000
Purchased copper-base scrap	(9)	875,000	77,500 <sup>r</sup>	76,400 <sup>r</sup>	917,000 <sup>r</sup>	80,400
Stocks at end of period:						
Total refined	(10)	210,000	222,000 r	235,000 <sup>r</sup>	235,000 <sup>r</sup>	250,000
Blister, etc.	(10)	13,900	13,800	14,200	14,200	11,700
Prices, U.S. producers cathode (cents per pound) <sup>4</sup>	(11)	256.150	251.388	261.183	224.873	266.363
Imports: <sup>5</sup>						
Ore and concentrate <sup>6</sup>	(13)	295			105	
Refined	(13)	686,000	67,100	72,000	708,000	72,600
Exports: <sup>5</sup>						
Ore and concentrate <sup>6</sup>	(14)	392,000	22,000	21,100	331,000	8,750
Refined	(14)	86,200	13,100	8,040	134,000	12,300

<sup>&</sup>lt;sup>p</sup>Preliminary. <sup>r</sup>Revised. -- Zero.

<sup>&</sup>lt;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>&</sup>lt;sup>3</sup>Monthly data estimated based on 2015 monthly average.

<sup>&</sup>lt;sup>4</sup>Source: Platts Metals Week.

<sup>&</sup>lt;sup>5</sup>Source: U.S. Census Bureau.

<sup>&</sup>lt;sup>6</sup>Copper content.

 ${\bf TABLE~2}$  MINE PRODUCTION OF RECOVERABLE COPPER IN THE UNITED STATES  $^1$ 

# (Metric tons)

-	Red	coverable copp	er		Contained copper	
Period	Arizona	Others <sup>2</sup>	Total	Electrowon	Concentrates <sup>3</sup>	Total
2016: <sup>p</sup>						_
January	84,500	37,100	122,000	54,500	70,400	125,000
February	79,400	38,900	118,000	48,500	72,800	121,000
March	81,600	40,100	122,000	51,400	73,000	124,000
April	81,200	39,500	121,000	49,700	73,900	124,000
May	83,500	39,400	123,000	51,700	74,000	126,000
June	79,800	37,200	117,000	50,700	69,000	120,000
July	80,200	35,100	115,000	54,000	63,700	118,000
August	86,400	40,300	127,000	52,700	76,900	130,000
September	79,400	36,400	116,000	51,400	67,000	118,000
October	81,800	43,700	125,000	53,300	74,900	128,000
November	74,200	38,200	112,000	48,700	66,100	115,000
December	76,600 <sup>r</sup>	35,300	112,000 <sup>r</sup>	47,900	66,600 <sup>r</sup>	115,000 <sup>r</sup>
January-December	969,000 <sup>r</sup>	461,000	1,430,000	615,000	848,000	1,460,000
2017, January	70,200	39,200	109,000	46,800	65,000	112,000

<sup>&</sup>lt;sup>p</sup>Preliminary. <sup>r</sup>Revised.

 $\begin{tabular}{ll} TABLE 3 \\ COPPER PRODUCED AT SMELTERS IN \\ THE UNITED STATES $^{1,2}$ \\ \end{tabular}$ 

(Metric tons, copper content)

	Anode
Period	production
2016: <sup>p</sup>	
January	45,600
February	46,100
March	41,400
April	47,300
May	51,900
June	45,400
July	33,100
August	47,700
September	54,000
October	51,900
November	43,300
December	55,000
January-December	563,000
2017, January	48,900
PD1:	

<sup>&</sup>lt;sup>p</sup>Preliminary.

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

 $<sup>^2 \</sup>mbox{Includes}$  production from Michigan, Missouri, Montana, Nevada, New Mexico, and Utah.

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

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

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

 ${\it TABLE~4}$  PRODUCTION OF REFINED COPPER, BY SOURCE AND METHOD OF RECOVERY  $^{\rm I}$ 

#### (Metric tons)

	Prir	nary materials			
	Electrolytically				Total
Period	refined <sup>2</sup>	Electrowon	Total	Scrap	refined
2016: <sup>p</sup>					
January	51,100	54,500	106,000	4,250	110,000
February	43,500	48,500	92,000	7,190	99,200
March	53,300	51,400	105,000	4,900	110,000
April	47,100	49,700	96,800	3,200	100,000
May	48,200	51,700	99,900	3,180	103,000
June	43,600	50,700	94,200	3,260	97,500
July	43,200	54,000	97,200	3,280	100,000
August	45,200	52,700	97,900	3,300	101,000
September	48,200	51,400	99,500	3,810	103,000
October	48,800	53,300	102,000	3,410	105,000
November	46,600	48,700	95,300	3,220	98,500
December	42,900	47,900	90,800	3,330	94,100
January-December	561,000	615,000	1,180,000	46,300	1,220,000
2017, January	51,100	46,800	97,900	3,240	101,000

<sup>&</sup>lt;sup>p</sup>Preliminary.

 ${\it TABLE~5}$  COPPER RECOVERABLE IN UNALLOYED AND ALLOYED FORM FROM PURCHASED COPPER-BASE SCRAP  $^1$ 

#### (Metric tons, copper content)

	Refin	eries <sup>2</sup>	Ingot m	akers <sup>3</sup>	Brass and w	ire-rod mills	Foundrie	es, etc. <sup>3</sup>	
Period	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	Total <sup>4</sup>
2016: <sup>p</sup>									
January	1,640	2,620	1,290 <sup>r</sup>	4,800 r	46,300	3,430	3,040 <sup>r</sup>	898 <sup>r</sup>	64,000 <sup>r</sup>
February	1,640	5,550	1,290 <sup>r</sup>	4,800 <sup>r</sup>	45,700	3,190	3,040 <sup>r</sup>	898 <sup>r</sup>	66,100 <sup>r</sup>
March	1,660	3,240	1,290 <sup>r</sup>	4,800 <sup>r</sup>	46,000	3,150	3,040 <sup>r</sup>	898 <sup>r</sup>	64,100 <sup>r</sup>
April	1,630	1,570	1,290 <sup>r</sup>	4,800 r	50,500	2,790	3,040 <sup>r</sup>	898 <sup>r</sup>	66,500 <sup>r</sup>
May	1,610	1,570	1,290 <sup>r</sup>	4,800 <sup>r</sup>	50,400	2,610	3,040 <sup>r</sup>	898 <sup>r</sup>	66,200 <sup>r</sup>
June	1,680	1,580	1,290 <sup>r</sup>	4,800 <sup>r</sup>	49,600	3,000	3,040 <sup>r</sup>	898 <sup>r</sup>	65,800 <sup>r</sup>
July	1,680	1,600	1,290 <sup>r</sup>	4,800 <sup>r</sup>	48,200	2,600	3,040 <sup>r</sup>	898 <sup>r</sup>	64,100 <sup>r</sup>
August	1,680	1,620	1,290 <sup>r</sup>	4,800 <sup>r</sup>	48,900	2,790	3,040 <sup>r</sup>	898 <sup>r</sup>	65,000 <sup>r</sup>
September	1,680	2,130	1,290 <sup>r</sup>	4,800 r	49,700	2,730	3,040 <sup>r</sup>	898 <sup>r</sup>	66,300 <sup>r</sup>
October	1,680	1,740	1,290 <sup>r</sup>	4,800 r	51,800	3,020	3,040 <sup>r</sup>	898 <sup>r</sup>	68,300 <sup>r</sup>
November	1,680	1,540	1,290 <sup>r</sup>	4,800 <sup>r</sup>	49,900	3,060	3,040 <sup>r</sup>	898 <sup>r</sup>	66,200 <sup>r</sup>
December	1,680	1,650	1,290 <sup>r</sup>	4,800 <sup>r</sup>	49,100	2,860	3,040 <sup>r</sup>	898 <sup>r</sup>	65,300 <sup>r</sup>
January-December	19,900	26,400	15,400 <sup>r</sup>	57,600 <sup>r</sup>	586,000	35,200	36,500 <sup>r</sup>	10,800 <sup>r</sup>	788,000 <sup>r</sup>
2017, January	1,680	1,560	1,290	4,800	49,500	3,360	3,040	898	66,100

<sup>&</sup>lt;sup>p</sup>Preliminary. <sup>r</sup>Revised.

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

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

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

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

<sup>&</sup>lt;sup>3</sup>Monthly data and 2016 cumulative data estimated based on 2015 annual data.

<sup>&</sup>lt;sup>4</sup>Does not include an estimate, based on reported 2015 data, of 3,050 tons per month from new scrap and 2,510 tons per month from old scrap, of copper recovered from scrap other than copper-base.

 ${\it TABLE~6}$  PRODUCTION, SHIPMENTS, AND STOCKS OF BRASS AND WIRE-ROD SEMIFABRICATES  $^1$ 

(Metric tons, gross weight)

	Production Sh		Shi	pments	Stocks, e	end of period
Period	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills
2016: <sup>p</sup>						
January	73,600	112,000	73,400	110,000	28,600	27,600
February	73,600	109,000	73,900	108,000	28,200	28,900
March	75,000	117,000	74,200	113,000	28,900	33,100
April	73,500	109,000	73,300	108,000	29,200	29,400
May	72,300	110,000	73,700	111,000	27,800	28,300
June	72,300	112,000	71,200	110,000	28,900	30,200
July	72,800	103,000	72,700	103,000	29,100	29,600
August	74,400	113,000	73,800	113,000	29,600	29,600
September	72,500	106,000	73,500	110,000	28,700	25,200
October	74,800	111,000	75,100	109,000	28,500	27,100
November	72,700	108,000	72,800	107,000	28,300	28,100
December	72,300	96,100	72,100	97,900	28,500	26,300
January-December	880,000	1,310,000	880,000	1,300,000	28,500	26,300
2017, January	73,500	109,000	72,900	111,000	29,100	24,000

Preliminary.

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

(Metric tons)

	Brass	Wire-rod	Other		
Period and item	mills	mills	plants <sup>2</sup>	Total	
2016: <sup>p</sup>			•		
January	34,800	110,000	5,820 <sup>r</sup>	150,000 <sup>r</sup>	
February	35,700	107,000	5,820 <sup>r</sup>	149,000 <sup>r</sup>	
March	35,400	116,000	5,820 <sup>r</sup>	157,000 <sup>r</sup>	
April	34,900	107,000	5,820 <sup>r</sup>	148,000 <sup>r</sup>	
May	34,400	108,000	5,820 <sup>r</sup>	149,000 <sup>r</sup>	
June	35,500	110,000	5,820 <sup>r</sup>	151,000 <sup>r</sup>	
July	35,500	100,000	5,820 <sup>r</sup>	142,000 <sup>r</sup>	
August	35,600	111,000	5,820 <sup>r</sup>	153,000 <sup>r</sup>	
September	35,400	103,000	5,820 <sup>r</sup>	145,000 <sup>r</sup>	
October	35,400	110,000	5,820 <sup>r</sup>	151,000 <sup>r</sup>	
November	34,400	110,000	5,820 <sup>r</sup>	150,000 <sup>r</sup>	
December	33,800	93,000	5,820 <sup>r</sup>	133,000 <sup>r</sup>	
January-December	421,000	1,290,000	69,800 r	1,780,000 r	
2017, January	34,600	106,000	5,820	147,000	

<sup>&</sup>lt;sup>p</sup>Preliminary. <sup>r</sup>Revised.

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

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<sup>&</sup>lt;sup>2</sup>Monthly and 2016 cumulative consumption data by ingot makers, chemical plants, foundries, and miscellaneous manufacturers is estimated based on 2015 annual data.

 $\label{eq:table 8} \text{U.S. APPARENT CONSUMPTION OF COPPER}^1$ 

#### (Metric tons)

	Refined copper	Copper in	Refined general	Refined	Stock change	Apparent
Period	production	old scrap <sup>2</sup>	imports <sup>3</sup>	exports <sup>3</sup>	during period	consumption
2016: <sup>p</sup>		•		•		
January	106,000	14,300 <sup>r</sup>	56,000	6,390	11,500	158,000
February	91,800	17,000 °	43,800	16,800	(4,810)	141,000
March	105,000	14,600 <sup>r</sup>	43,400	24,800	(27,900)	166,000
April	96,700	12,600 <sup>r</sup>	52,400	9,650	(15,500)	167,000
May	99,900	12,400 <sup>r</sup>	52,400	22,000	(8,810)	152,000
June	94,200	12,800 <sup>r</sup>	63,400	5,600	(16,400)	181,000
July	97,200	12,400 <sup>r</sup>	68,200	6,510	9,060	162,000
August	97,900	12,600 <sup>r</sup>	62,000	6,420	6,690	159,000
September	99,600	13,100 <sup>r</sup>	66,500	6,630	23,800	149,000
October	102,000	13,000 <sup>r</sup>	66,700	7,750	13,900	160,000
November	95,300	12,800 <sup>r</sup>	66,100	13,100	21,700	139,000
December	90,800	12,700 <sup>r</sup>	60,400	8,040	12,800	143,000
January-December	1,180,000	160,000 r	701,000	134,000	26,100	1,880,000
2017, January	97,900	13,100	72,400	12,300	15,300	156,000

<sup>&</sup>lt;sup>p</sup>Preliminary. <sup>r</sup>Revised.

 ${\bf TABLE~9}$   ${\bf CONSUMPTION~OF~PURCHASED~COPPER-BASE~SCRAP}^1$ 

# (Metric tons, gross weight)

	Sme	lters			Brass	s and			
	and ref	ineries	Ingot n	nakers <sup>2</sup>	wire-ro	d mills <sup>3</sup>	Foundrie	es, etc. <sup>2</sup>	Total scrap
Period	New scrap	Old scrap	New scrap		New scrap	Old scrap	New scrap	Old scrap	used
2016: <sup>p</sup>									
January	1,690	2,680	2,890 r	5,460 r	54,200	3,520	3,660 <sup>r</sup>	992 <sup>r</sup>	75,100 <sup>r</sup>
February	1,690	2,680	2,890 r	5,460 r	53,600	3,290	3,660 <sup>r</sup>	992 <sup>r</sup>	74,200 <sup>r</sup>
March	1,710	2,830	2,890 r	5,460 r	53,900	3,230	3,660 <sup>r</sup>	992 <sup>r</sup>	74,600 <sup>r</sup>
April	1,680	1,570	2,890 r	5,460 r	58,400	2,880	3,660 <sup>r</sup>	992 <sup>r</sup>	77,600 <sup>r</sup>
May	1,660	1,570	2,890 r	5,460 r	58,400	2,690	3,660 <sup>r</sup>	992 <sup>r</sup>	77,300 <sup>r</sup>
June	1,730	1,590	2,890 r	5,460 r	57,500	3,090	3,660 <sup>r</sup>	992 <sup>r</sup>	76,900 <sup>r</sup>
July	1,730	1,590	2,890 r	5,460 r	56,200	2,670	3,660 <sup>r</sup>	992 <sup>r</sup>	75,100 <sup>r</sup>
August	1,730	1,590	2,890 r	5,460 r	56,900	2,870	3,660 <sup>r</sup>	992 <sup>r</sup>	76,000 <sup>r</sup>
September	1,730	1,590	2,890 r	5,460 r	57,600	2,800	3,660 <sup>r</sup>	992 <sup>r</sup>	76,700 <sup>r</sup>
October	1,730	1,590	2,890 r	5,460 r	59,800	3,120	3,660 <sup>r</sup>	992 <sup>r</sup>	79,200 <sup>r</sup>
November	1,730	1,590	2,890 r	5,460 r	58,000	3,250	3,660 <sup>r</sup>	992 <sup>r</sup>	77,500 <sup>r</sup>
December	1,730	1,590	2,890 r	5,460 <sup>r</sup>	57,100	2,990	3,660 <sup>r</sup>	992 <sup>r</sup>	76,400 <sup>r</sup>
January-December	20,500	22,400	34,700 r	65,500 <sup>r</sup>	681,000	36,400	43,900 r	11,900 <sup>r</sup>	917,000 <sup>r</sup>
2017, January	1,820	4,630	2,890	5,460	57,500	3,490	3,660	992	80,400

<sup>&</sup>lt;sup>p</sup>Preliminary. <sup>r</sup>Revised.

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

<sup>&</sup>lt;sup>2</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 2015 data.

<sup>&</sup>lt;sup>3</sup>Source: U.S. Census Bureau.

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

<sup>&</sup>lt;sup>2</sup>Monthly data estimated from 2015 annual data.

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

# $\label{eq:table 10} \text{COPPER STOCKS AT END OF PERIOD}^1$

#### (Metric tons)

		Refined copper						
	Crude		Wire-rod					Total
Period	copper <sup>2</sup>	Refineries <sup>3</sup>	$mills^3$	Brass mills <sup>3</sup>	Other <sup>4</sup>	Comex	LME <sup>5</sup>	refined
2016: <sup>p</sup>	••							
January	13,700	13,800	34,600	8,340	5,730 <sup>r</sup>	59,500	98,100	220,000 r
February	14,500	8,820	33,400	7,840	5,730 <sup>r</sup>	61,200	98,300	215,000 <sup>r</sup>
March	13,600	7,900	28,700	7,460	5,730 <sup>r</sup>	65,300	72,400	187,000 <sup>r</sup>
April	12,400	3,200	41,600	7,950	5,730 <sup>r</sup>	59,400	54,100	172,000 <sup>r</sup>
May	15,500	3,950	40,100	8,670	5,730 <sup>r</sup>	55,400	49,300	163,000 <sup>r</sup>
June	18,700	2,820	37,300	7,680	5,730 <sup>r</sup>	56,600	36,600	147,000 <sup>r</sup>
July	13,500	3,040	41,200	7,940	5,730 <sup>r</sup>	59,300	38,600	156,000 <sup>r</sup>
August	12,500	5,660	38,500	7,930	5,730 <sup>r</sup>	61,000	43,600	162,000 <sup>r</sup>
September	12,600	4,230	39,500	7,650	5,730 <sup>r</sup>	64,000	65,200	186,000 <sup>r</sup>
October	14,700	3,230	40,200	7,270	5,730 <sup>r</sup>	65,300	78,400	200,000 r
November	13,800	4,290	41,800	7,070	5,730 <sup>r</sup>	70,600	92,400	222,000 <sup>r</sup>
December	14,200	3,750	38,900	7,380	5,730 <sup>r</sup>	80,100	98,900	235,000 <sup>r</sup>
2017, January	11,700	9,250	39,300	7,430	5,730	92,600	95,700	250,000

<sup>&</sup>lt;sup>p</sup>Preliminary. <sup>r</sup>Revised.

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

### (Cents per pound)

		Comex	LME
	U.S. producers	first	cash price
Period	cathode1	position <sup>2</sup>	Grade A
2016:			
January	205.695	200.945	202.406
February	212.505	207.505	208.424
March	228.409	223.159	224.394
April	223.726	218.288	220.017
May	216.831	211.143	213.544
June	215.520	209.770	210.025
July	226.296	220.733	220.235
August	219.284	214.096	215.811
September	218.752	213.752	213.496
October	218.885	214.010	214.629
November	251.388	246.638	246.878
December	261.183	256.683	256.997
Year	224.873	219.727	220.571
2017, January	266.363	261.863	260.225

<sup>&</sup>lt;sup>1</sup>Sum of "Comex high grade first position" and "NY Dealer Premium Cathode."

Source: Platts Metals Week.

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

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

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

<sup>&</sup>lt;sup>4</sup>Monthly estimates based on reported and 2015 annual data, comprising stocks at ingot makers, chemical plants, foundries, and miscellaneous manufacturers.

<sup>&</sup>lt;sup>5</sup>London Metal Exchange Ltd., U.S. warehouses.

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

 ${\it TABLE~12} \\ {\it NEW~YORK~AVERAGE~BUYING~PRICES~FOR~COPPER~SCRAP} \\$ 

#### (Cents per pound)

			Dealers	(New York)
				Red brass
	Brass mills	Refiners	No. 2	turnings and
Month	No. 1 scrap	No. 2 scrap	Scrap	borings
2016:				
January	198.61	178.84	143.61	125.37
February	205.90	187.18	141.50	125.00
March	222.17	202.72	151.02	128.70
April	217.98	199.00	152.50	130.00
May	210.83	192.43	154.26	132.38
June	210.30	191.68	150.27	130.14
July	221.00	201.70	157.15	134.10
August	213.54	192.26	156.20	133.35
September	213.43	191.88	153.21	131.57
October	212.71	190.05	153.88	131.95
November	241.32	218.05	165.00	137.50
December	248.38	224.48	181.98	146.00
Year	218.01	197.52	155.05	132.17
2017, January	254.78	228.38	178.80	144.65

Source: American Metal Market.

 ${\it TABLE~13}$  U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY  ${\it CLASS}^1$ 

# (Metric tons, copper content)

	Ore and concentrate		latte, ash, and precipitat		Blister and anodes		Refined	
Country or	2017		2017		2017		2017	
territory	2016	January	2016	January	2016	January	2016	January
Belgium			27	25				
Canada	72		355	1	2		193,000	18,100
Chile							354,000	42,600
China					(2)		77	
Congo (Kinshasa)							21,100	2,300
Finland					175	(2)	110	
Germany					(2)		1,830	146
India	3						1,210	
Japan			109		3		4,090	228
Mexico	3		41				102,000	8,510
Netherlands			69		(2)	(2)	(2)	
Peru							24,800	500
Other	27		205	11	95	10	4,680	240
Total	105		806	37	274	11	708,000	72,600

<sup>--</sup> Zero.

Source: U.S. Census Bureau.

 $<sup>^{1}\</sup>mbox{Data}$  are rounded to no more than three significant digits; may not add to totals shown.

<sup>&</sup>lt;sup>2</sup>Less than ½ unit.

 ${\it TABLE~14} \\ {\it U.S.~EXPORTS~OF~COPPER~(UNMANUFACTURED),~BY~CLASS}^1$ 

(Metric tons, copper content)

	Ore and concentrate		latte, ash, and precipitate		Blister and anodes		Refined	
Country or		2017		2017		2017		2017
territory	2016	January	2016	January	2016	January	2016	January
Belgium	(2)		5,700	605	679	52		(2)
Canada	25,800	2,530	12,300	455	2,050	296	32,300	1,630
China	57,800	1,520	52		485		32,600	3,030
Germany			204	56	517		21	
Hong Kong			36		1,070	79		
Italy					356	22	240	1
Japan	20,400		180		453		157	(2)
Korea, Republic of	138		352	18	1,420	210	85	3
Mexico	226,000	4,690			99	9	67,700	7,680
Singapore					42		13	
Spain			40		266	20	4	(2)
Switzerland					24	1	5	
Taiwan			359	18	60	20	62	5
Other	855	11	884		1,970	253	518	4
Total	331,000	8,750	20,100	1,150	9,490	962	134,000	12,300

<sup>--</sup> Zero.

Source: U.S. Census Bureau.

 $\label{eq:table 15} \text{U.S. COPPER SCRAP IMPORTS}^1$ 

(Metric tons, gross weight)

	Unallo	oyed	Alloyed		
Country or		2017		2017	
territory	2016	January	2016	January	
Canada	13,200	1,770	52,100	6,280	
Chile	41		211	17	
Colombia	259		1,180	128	
Costa Rica	344	24	1,030	61	
Guatemala			326	17	
Honduras	102		357	18	
Mexico	12,900	749	34,400	3,120	
Nicaragua			264		
Other	2,170	313	6,180	544	
Total	29,100	2,860	96,100	10,200	

<sup>--</sup> Zero.

Source: U.S. Census Bureau.

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

<sup>&</sup>lt;sup>2</sup>Less than ½ unit.

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

 $\label{eq:table 16} \text{U.S. COPPER SCRAP EXPORTS}^1$ 

(Metric tons, gross weight)

	Unalloyed					Alloyed			
	-	2017				2017			
Country or		No. 1	No. 2	Other		Segregated	Unsegregated		
territory	2016	January	January	January	2016	January	January		
Belgium	9,030	192	226	417	8,370	41	160		
Canada	23,400			3,280	51,200		4,320		
China	283,000	9,400	8,290	11,200	377,000	9,220	17,500		
Germany	24,900	736	271	49	8,150	12	551		
Hong Kong	6,570	115	24	212	17,100	119	861		
India	1,580	79	25	18	23,000	728	178		
Japan	6,520	35	119	279	8,730		701		
Korea, Republic of	17,100	674	106	297	10,300	282	283		
Mexico	1,660	340		5	951	6	3		
Netherlands	12,100	498	19	274	1,170		18		
Spain	182	12	9		7,770	114	194		
Taiwan	8,260	419	107		1,740	76	79		
Thailand	121			3	1,050	40			
Other	14,900	1,690	425	56	16,900	208	1,160		
Total	410,000	14,200	9,620	16,100	534,000	10,800	26,000		

<sup>--</sup> Zero.

Source: U.S. Census Bureau.

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