

# Mineral Industry Surveys

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## COPPER IN AUGUST 2012

Average daily mine production of copper rose by 20% in August compared with that in July and was at the highest level since March 2009. Most of the increase was attributable to increased production in Utah, although mine production also increased in Arizona, Nevada, and New Mexico. Rio Tinto plc reported that although third quarter production at Kennecott Utah Copper's Bingham Canyon Mine was only 2% higher than that in the third quarter of 2011, it increased by 44% compared with that in the second quarter of 2012 owing to higher copper head grades. Gold and molybdenum production, however, declined by 6% and 4%, respectively, from that in the second quarter of 2012. Downstream, U.S. electrolytic refined copper production rose by 8% in August compared with that in July. Rio Tinto reported that production during the third quarter of 2012 increased by 169% from that during the second quarter of 2012, during which it had coordinated a smelter maintenance closure with the processing of lower copper grade ore (Rio Tinto plc, 2012, p. 3).

Copper inventories held in the United States continued their downward trend, declining by about 7,000 metric tons (t) owing to a more than 10,000-t drawdown in U.S.-located London Metals Exchange Ltd. (LME) inventories. However, unlike during the first half of 2012 when a steady drawdown of LME stocks was coincident with record-high exports of refined copper, much of the drawdown was for domestic consumption. Exports of refined copper in August totaled only 5,700 t, down from an average of almost 23,000 metric tons per month during the first half of 2012.

### Update

In October, the International Copper Study Group (ICSG) projected that global refined copper consumption in 2012 would exceed production by about 400,000 t, the third consecutive year of production deficit. Global consumption and production of copper were projected to increase by 1.5% and 2.6%, respectively. In developing its forecast, the ICSG used an apparent consumption calculation for China that was based on reported production, trade, and exchange stock changes. The apparent consumption for China, which has become the dominant global consumer of refined copper (see Copper in June 2012), did not account for unreported changes in inventories held by the State Reserve Bureau, industry, and investors. In 2013, the ICSG projected that global consumption would increase slightly and refined production would increase by about 6%, with the net result being a surplus of production relative to demand. Although industrial consumption of copper in China was expected to increase by about 5% in 2013, apparent consumption, which was projected to substantially exceed industrial consumption during 2012, was expected to decrease in 2013 (International Copper Study Group, 2012).

### References Cited

- International Copper Study Group, 2012, Copper market forecast 2012–2013: Lisbon, Portugal, International Copper Study Group press release, October 10, 1 p. (Accessed November 5, 2012, at [http://icsg.org/index.php?option=com\\_content&task=view&id=35&Itemid=48](http://icsg.org/index.php?option=com_content&task=view&id=35&Itemid=48).)
- Rio Tinto plc, 2012, Third quarter 2012 operations review: London, United Kingdom, Rio Tinto plc media release, October 16, 27 p. (Accessed November 5, 2012, at [http://www.riotinto.com/media/18435\\_media\\_releases\\_22378.asp](http://www.riotinto.com/media/18435_media_releases_22378.asp).)

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

(Metric tons, unless otherwise specified)

	Source table <sup>2</sup>	2011 <sup>P</sup>	2012			
			June	July	August	January– August
<b>Production:</b>						
<b>Primary:</b>						
Mine, recoverable	(2)	1,110,000	87,600	88,700	107,000	749,000
<b>Refinery:</b>						
Electrolytic, domestic and foreign	(4)	545,000	28,800 <sup>r</sup>	42,600 <sup>r</sup>	46,000	306,000
Electrowon	(4)	449,000	36,200	37,200	39,100	310,000
<b>Total</b>	(4)	<b>994,000</b>	<b>65,000 <sup>r</sup></b>	<b>79,800 <sup>r</sup></b>	<b>85,100</b>	<b>616,000</b>
<b>Secondary recoverable copper:</b>						
Refineries	(5)	37,300	3,030	2,810	2,770	23,900
Ingot makers <sup>3</sup>	(5)	71,500	5,960	5,960	5,960	47,700
Brass and wire-rod mills	(5)	571,000	47,400	46,200	46,300	384,000
Foundries, etc. <sup>3</sup>	(5)	46,000	3,830	3,830	3,830	30,700
<b>Smelter, total</b>	(3)	<b>538,000</b>	<b>27,600</b>	<b>49,400</b>	<b>44,400</b>	<b>296,000</b>
<b>Consumption:</b>						
Apparent	(8)	1,710,000	150,000 <sup>r</sup>	151,000 <sup>r</sup>	148,000	1,180,000
Refined (reported)	(7)	1,750,000	151,000	143,000	157,000	1,200,000
Purchased copper-base scrap	(9)	924,000	76,500	74,300	75,000	618,000
<b>Stocks at end of period:</b>						
Total refined	(10)	409,000	210,000 <sup>r</sup>	200,000	193,000	193,000
Blister, etc.	(10)	13,000	12,600 <sup>r</sup>	12,300 <sup>r</sup>	12,500	12,500
Prices, U.S. producer cathode (cents per pound) <sup>4</sup>	(11)	405.854	340.586	349.728	347.628	366.428
<b>Imports:<sup>5</sup></b>						
Ore and concentrate <sup>6</sup>	(13)	15,100	25	4	1,160	5,610
Refined	(13)	670,000	57,200	53,400	49,500	400,000
<b>Exports:<sup>5</sup></b>						
Ore and concentrate <sup>6</sup>	(14)	252,000	28,800	29,900	31,800	203,000
Refined	(14)	40,400	10,200	4,940	5,700	146,000

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

<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>Monthly data estimated based on 2010 monthly average.

<sup>4</sup>Source: Platts Metals Week.

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

<sup>6</sup>Copper content.

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
2011: <sup>p</sup>						
August	65,000	27,300	92,400	38,100	56,600	94,700
September	64,400	27,600	91,900	37,700	56,500	94,100
October	66,500	31,800	98,300	40,400	60,400	101,000
November	67,100	35,800	103,000	41,300	63,800	105,000
December	65,600	29,300	94,900	40,200	56,900	97,100
January–December	751,000	361,000	1,110,000	449,000	690,000	1,140,000
2012:						
January	62,800	29,600	92,300	39,200	55,200	94,400
February	64,500	27,900	92,500	39,100	55,600	94,700
March	65,700	27,100	92,800	40,900	54,000	94,900
April	64,500	32,600	97,100	38,900	60,500	99,400
May	65,000	26,700	91,700	39,900	54,000	93,900
June	56,500	31,100	87,600	36,200	53,400	89,600
July	60,700	28,000	88,700	37,200	53,700	90,800
August	66,100	40,400	107,000	39,100	70,200	109,000
January–August	506,000	243,000	749,000	310,000	457,000	767,000

<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 Alaska, Idaho, 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
2011: <sup>p</sup>	
August	41,100
September	49,500
October	51,900
November	47,900
December	45,600
January–December	538,000
2012:	
January	44,800
February	36,800
March	29,500
April	34,100
May	29,400
June	27,600
July	49,400
August	44,400
January–August	296,000

<sup>p</sup>Preliminary.

<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 total 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		
2011: <sup>P</sup>					
August	38,400	38,100	76,500	3,200	79,700
September	53,000	37,700	90,600	3,010	93,600
October	46,200	40,400	86,500	3,110	89,600
November	50,700	41,300	92,100	3,010	95,100
December	53,700	40,200	93,800	2,630	96,500
January–December	545,000	449,000	994,000	37,300	1,030,000
2012:					
January	46,200	39,200	85,400	3,060	88,500
February	39,900	39,100	79,000	3,350	82,400
March	34,600	40,900	75,500	2,960	78,400
April	32,400	38,900	71,300	2,950	74,200
May	35,200 <sup>r</sup>	39,900	75,100 <sup>r</sup>	2,940	78,000 <sup>r</sup>
June	28,800 <sup>r</sup>	36,200	65,000 <sup>r</sup>	3,030	68,100 <sup>r</sup>
July	42,600 <sup>r</sup>	37,200	79,800 <sup>r</sup>	2,810	82,600 <sup>r</sup>
August	46,000	39,100	85,100	2,770	87,900
January–August	306,000	310,000	616,000	23,900	640,000

<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>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	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2011: <sup>P</sup>									
August	1,650	1,550	972	4,990	44,300	1,420	2,730	1,110	58,700
September	1,510	1,500	972	4,990	46,900	1,490	2,730	1,110	61,200
October	1,590	1,520	972	4,990	44,700	1,500	2,730	1,110	59,100
November	1,510	1,500	972	4,990	45,500	1,420	2,730	1,110	59,700
December	1,180	1,450	972	4,990	45,400	1,480	2,730	1,110	59,300
January–December	18,900	18,400	11,700	59,800	553,000	17,600	32,700	13,300	726,000
2012:									
January	1,560	1,510	972	4,990	46,700	1,500	2,730	1,110	61,000
February	1,780	1,580	972	4,990	47,500	1,490	2,730	1,110	62,100
March	1,470	1,490	972	4,990	48,800	1,480	2,730	1,110	63,100
April	1,460	1,490	972	4,990	47,000	1,480	2,730	1,110	61,200
May	1,450	1,480	972	4,990	46,700	1,520	2,730	1,110	60,900
June	1,530	1,500	972	4,990	44,000	3,330	2,730	1,110	60,200
July	1,350	1,460	972	4,990	43,000	3,180	2,730	1,110	58,800
August	1,320	1,450	972	4,990	43,200	3,090	2,730	1,110	58,800
January–August	11,900	11,900	7,780	39,900	367,000	17,100	21,800	8,850	486,000

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

<sup>3</sup>Monthly data and 2011 cumulative data estimated based on 2010 annual data.

<sup>4</sup>Does not include an estimate, based on reported 2010 data, of 2,510 tons per month from new scrap and 1,830 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
2011: <sup>p</sup>						
August	79,400	104,000	79,300	107,000	29,300	25,600
September	79,300	104,000	77,900	104,000	30,700	25,100
October	78,100	106,000	78,400	110,000	30,300	21,600
November	77,100	98,600	77,800	97,400	29,600	22,800
December	77,900	91,400	77,600	87,200	29,900	27,000
January–December	951,000	1,250,000	951,000	1,250,000	29,900	27,000
2012:						
January	79,400	112,000	79,300	115,000	30,000	24,000
February	79,400	108,000	79,900	110,000	29,500	22,100
March	81,500	117,000	80,800	112,000	30,200	26,900
April	78,800	103,000	78,600	108,000	30,400	21,000
May	80,000	112,000	80,700	111,000	29,600	21,900 <sup>r</sup>
June	79,200	110,000	79,600	109,000	29,200	22,600
July	80,300	104,000	79,000	105,000	30,500	21,700
August	81,000	116,000	80,000	118,000	31,400	19,600
January–August	639,000	882,000	638,000	889,000	31,400	19,600

<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.

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

(Metric tons)

Period and item	Brass mills	Wire-rod mills	Other plants <sup>2</sup>	Total
2011: <sup>p</sup>				
August	35,700	107,000	4,800	148,000
September	35,200	106,000	4,800	146,000
October	34,300	107,000	4,800	146,000
November	36,200	99,500	4,800	140,000
December	34,200	89,600	4,800	129,000
January–December	430,000	1,270,000	57,600	1,750,000
2012:				
January	35,800	111,000	4,800	152,000
February	35,600	106,000	4,800	146,000
March	36,100	117,000	4,800	158,000
April	36,200	102,000	4,800	143,000
May	34,900	113,000	4,800	153,000
June	36,200	110,000	4,800	151,000
July	34,600	104,000	4,800	143,000
August:				
Cathodes	28,500	116,000	1,470	146,000
Wire bars	--	--	W	W
Ingots and ingot bars	1,240	--	1,440	2,680
Cakes and slabs	W	--	W	W
Billets and other	6,700	--	1,900	8,600
Total	36,500	116,000	4,800	157,000
January–August	286,000	879,000	38,400	1,200,000

<sup>p</sup>Preliminary. W Withheld to avoid disclosing company proprietary data; included with "Billets and other." -- Zero.

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

<sup>2</sup>Monthly and 2011 cumulative consumption data by ingot makers, chemical plants, foundries, and miscellaneous manufacturers is estimated based on 2010 annual data.

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

(Metric tons)

Period	Refined copper production	Copper in old scrap <sup>2</sup>	Refined general imports <sup>3</sup>	Refined exports <sup>3</sup>	Stock change during period	Apparent consumption
2011: <sup>p</sup>						
August	76,500	10,900	31,300	5,140	1,160	112,000
September	90,600	10,900	64,300	2,140	7,510	156,000
October	86,500	10,900	46,700	2,350	5,660	136,000
November	92,100	10,800	49,200	6,870	3,780	141,000
December	93,800	10,900	48,800	4,690	22,300	126,000
January–December	994,000	131,000	649,000	40,400	25,100	1,710,000
2012:						
January	85,400	10,900	37,500	9,610	(16,000)	140,000
February	79,000	11,000	50,400	18,300	(35,200)	157,000
March	75,500	10,900	46,800	26,000	(48,300)	155,000
April	71,300	10,900	51,300	37,900	(41,500)	137,000
May	75,100 <sup>r</sup>	10,900	52,400	33,000	(32,900)	138,000
June	65,000 <sup>r</sup>	12,800	56,900	10,200	(25,200) <sup>r</sup>	150,000 <sup>r</sup>
July	79,800 <sup>r</sup>	12,600	53,400	4,940	(10,200) <sup>r</sup>	151,000 <sup>r</sup>
August	85,100	12,500	49,500	5,700	(7,040)	148,000
January–August	616,000	92,400	398,000	146,000	(216,000)	1,180,000

<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>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 2010 data.

<sup>3</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	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2011: <sup>p</sup>									
August	1,720	1,580	2,880	6,440	54,900	1,430	4,020	1,490	74,400
September	1,560	1,540	2,880	6,440	58,200	1,540	4,020	1,490	77,600
October	1,640	1,560	2,880	6,440	56,000	1,560	4,020	1,490	75,600
November	1,560	1,540	2,880	6,440	56,600	1,430	4,020	1,490	76,000
December	1,250	1,460	2,880	6,440	56,800	1,540	4,020	1,490	75,900
January–December	19,700	18,700	34,500	77,200	689,000	18,200	48,200	17,900	924,000
2012:									
January	1,600	1,560	2,330	6,980	58,000	1,570	4,020	1,490	77,600
February	1,850	1,610	2,330	6,980	59,300	1,560	4,020	1,490	79,100
March	1,520	1,530	2,330	6,980	60,900	1,530	4,020	1,490	80,300
April	1,510	1,530	2,330	6,980	58,300	1,530	4,020	1,490	77,700
May	1,500	1,530	2,330	6,980	58,000	1,600	4,020	1,490	77,400
June	1,570	1,550	2,330	6,980	55,100	3,470	4,020	1,490	76,500
July	1,390	1,500	2,330	6,980	53,300	3,280	4,020	1,490	74,300
August	1,360	1,490	2,330	6,980	54,100	3,240	4,020	1,490	75,000
January–August	12,300	12,300	18,600	55,900	457,000	17,800	32,200	11,900	618,000

<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 data estimated from 2010 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		LME <sup>5</sup>
2011: <sup>P</sup>								
August	13,000	5,990	20,200	7,440	4,380	77,500	254,000	370,000
September	14,300	7,050	18,100	7,160	4,380	79,400	261,000	377,000
October	18,500	5,890	16,200	8,690	4,380	81,600	266,000	383,000
November	14,500	7,980	17,200	6,940	4,380	79,000	271,000	387,000
December	13,000	8,360	24,000	6,850	4,380	79,800	286,000	409,000
2012:								
January	10,900	8,020	26,400	7,210	4,380	80,800	266,000	393,000
February	14,200	4,360	26,900	7,160	4,380	83,100	232,000	358,000
March	16,500	3,410	19,500	6,790	4,380	78,500	197,000	309,000
April	19,200	4,370	14,200	6,450	4,380	69,000	170,000	268,000
May	15,000	4,740	21,700	6,410	4,380	54,200	144,000	235,000
June	12,600 <sup>r</sup>	1,770 <sup>r</sup>	17,300	6,580	4,380	48,400	131,000	210,000 <sup>r</sup>
July	12,300 <sup>r</sup>	4,160 <sup>r</sup>	18,900	7,220	4,380	43,700	121,000	200,000
August	12,500	2,220	22,400	6,570	4,380	46,100	111,000	193,000

<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 reported and 2010 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 delivered price cathode <sup>1</sup>	Comex first position <sup>2</sup>	LME cash price Grade A
2011:			
August	413.683	407.857	410.084
September	379.602	373.776	377.131
October	340.186	334.360	333.259
November	350.045	344.219	342.524
December	349.033	343.207	343.240
Year	405.854	400.050	399.790
2012:			
January	372.691	366.865	364.824
February	390.409	384.583	382.016
March	389.774	383.948	383.582
April	377.744	371.918	374.616
May	362.860	357.034	359.212
June	340.586	334.760	336.555
July	349.728	343.902	344.217
August	347.628	341.802	339.827
January–August	366.428	360.602	360.606

<sup>1</sup>Listed as "U.S. producer cathode."

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

Source: Platts Metals Week.

TABLE 12  
NEW YORK AVERAGE BUYING PRICES FOR COPPER SCRAP

(Cents per pound)

Month	Brass mills No. 1 scrap	Refiners No. 2 scrap	Dealers (New York)	
			No. 2 Scrap	Red brass turnings and borings
2011:				
August	395.87	354.78	322.83	205.00
September	363.48	329.52	304.29	201.19
October	326.38	298.38	242.98	185.00
November	334.20	308.75	269.00	185.00
December	335.16	308.16	268.42	185.00
Year	389.12	350.72	301.67	188.28
2012:				
January	357.75	330.55	277.50	189.25
February	374.00	343.30	302.75	200.00
March	375.55	340.45	307.50	200.00
April	364.25	328.25	298.93	200.00
May	350.36	315.05	295.00	197.05
June	328.86	298.38	274.64	190.00
July	340.29	310.00	277.50	190.00
August	338.48	307.09	277.50	190.00
January–August	353.69	321.63	288.92	194.54

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 territory	Ore and concentrate			Matte, ash, and precipitates			Blister and anodes			Refined		
	2012			2012			2012			2012		
	2011	August	January–August	2011	August	January–August	2011	August	January–August	2011	August	January–August
Belgium	--	--	--	200	13	87	--	--	--	1	--	6
Canada	8,430	16	64	239	45	192	2	--	11	138,000	9,280	78,500
Chile	--	--	--	--	--	--	--	--	--	370,000	30,100	242,000
China	--	--	--	79	--	180	(2)	--	1	203	2	51
Finland	--	--	--	--	--	--	310	16	209	(2)	--	--
Germany	--	--	15	54	--	--	(2)	--	--	3,020	265	1,570
Japan	--	--	--	(2)	(2)	1	16	(2)	8	5,540	288	3,250
Mexico	6,710	1,140	5,520	--	54	175	--	--	--	97,100	7,150	63,000
Netherlands	--	--	--	193	55	278	1	1	1	(2)	(2)	6
Peru	--	--	--	--	--	--	--	--	--	55,200	2,450	11,700
Other	--	3	11	218	62	135	142	18	153	884	2	236
Total	15,100	1,160	5,610	983	229	1,050	471	35	383	670,000	49,500	400,000

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

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash, and precipitates			Blister and anodes			Refined		
	2012			2012			2012			2012		
	2011	August	January–August	2011	August	January–August	2011	August	January–August	2011	August	January–August
Canada	14,300	1,390	9,190	35,900	3,910	23,600	4,440	126	1,750	3,980	9	294
China	97,000	9,790	66,300	1,190	--	439	616	--	109	4,460	425	99,100
Germany	110	--	34	402	42	265	911	40	299	81	(2)	14
Hong Kong	17	--	--	--	--	4	1,150	178	1,170	19	3	77
Italy	--	--	--	--	--	--	176	20	129	1,480	2	47
Japan	22,000	5,510	9,920	172	--	--	862	100	610	11	4	769
Korea, Republic of	--	3,520	11,100	--	--	--	761	276	813	104	--	76
Mexico	114,000	11,500	85,500	--	--	--	255	4	107	27,800	5,150	43,600
Singapore	--	--	--	--	--	--	431	5	41	--	--	3
Spain	6	(2)	(2)	--	--	--	228	--	90	1,040	--	209
Sweden	--	--	--	--	--	--	2	--	10	384	86	617
Switzerland	--	--	--	--	--	--	21	--	29	3	2	4
Taiwan	1	--	4	--	--	--	799	283	2,930	7	--	4
Other	4,550	60	21,000	609	--	97	3,610	204	1,820	1,050	24	850
Total	252,000	31,800	203,000	38,300	3,960	24,400	14,300	1,240	9,910	40,400	5,700	146,000

-- 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 15  
U.S. COPPER SCRAP IMPORTS<sup>1</sup>

(Metric tons, gross weight)

Country or territory	Unalloyed			Alloyed		
	2012			2012		
	2011	August	January– August	2011	August	January– August
Canada	14,600	1,140	9,290	34,800	2,810	22,000
Chile	39	--	33	403	44	192
Costa Rica	834	37	414	2,300	108	1,070
Guatemala	666	15	398	1,960	90	1,650
Honduras	47	--	40	1,060	75	667
Jamaica	95	--	--	325	--	--
Japan	29	--	10	33	--	--
Mexico	8,390	555	6,220	28,400	2,400	17,700
Nicaragua	1,080	78	660	968	64	535
Other	4,620	391	2,990	9,210	743	5,980
Total	30,400	2,220	20,000	79,400	6,330	49,800

-- 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.

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

(Metric tons, gross weight)

Country or territory	Unalloyed							Alloyed				
	2012							2012				
	2011	No. 1		No. 2		Other		2011	Segregated		Unsegregated	
		August	January–August	August	January–August	August	January–August		August	January–August	August	January–August
Belgium	14,400	806	10,400	263	2,520	115	1,280	14,300	--	1,060	796	7,480
Canada	20,400	--	--	--	--	1,760	13,300	38,000	152	1,100	3,040	29,700
China	383,000	3,730	32,400	14,700	115,000	9,200	80,000	557,000	21,500	161,000	23,600	200,000
Germany	8,470	822	9,320	87	1,660	489	1,720	13,900	59	1,360	1,210	8,290
Hong Kong	5,970	17	349	166	2,070	19	971	29,000	1,170	6,270	3,310	17,600
India	1,690	--	177	--	759	--	52	12,200	413	5,680	40	541
Japan	8,810	145	1,740	251	1,250	550	4,160	7,480	281	2,830	290	1,510
Korea, Republic of	19,100	187	2,630	704	5,170	408	2,690	17,100	1,080	5,100	360	1,040
Mexico	3,150	38	365	--	14	13	3,140	7,000	65	438	319	3,160
Spain	5,170	77	1,370	217	1,780	--	232	11,600	--	651	497	4,710
Taiwan	4,170	61	513	102	1,330	36	215	3,400	274	1,140	41	1,460
Thailand	491	--	198	--	--	--	98	2,040	20	343	--	18
Other	25,200	1,520	11,200	520	5,770	499	3,030	25,400	822	3,330	1,180	10,300
Total	501,000	7,400	70,700	17,000	138,000	13,100	111,000	739,000	25,800	191,000	34,700	286,000

-- 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.