

# Mineral Industry Surveys

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## COPPER IN JUNE 2012

Average daily copper mine production was nearly unchanged in June, as a 10% decline in average daily mine production in Arizona was nearly offset by a 20% increase from other States. Total year-to-date mine production through June, however, was about 3% higher than that in the same period of 2011. In Arizona, where most major mines reported lower production in June, the onset of a heavy monsoon season may have reduced output, and in Utah, the leading contributor to production from “other States,” production rose significantly in June following relocation of the in-pit conveyor at the Bingham Canyon Mine. Year-to-date production at Bingham Canyon, however, remained well below that for the same period of 2011 owing to reduced mill throughput and the processing of lower grade ore. (See Copper in April 2012.) Consumption of refined copper in the first half of 2012 was essentially unchanged from that in the same period of 2011.

Freeport-McMoRan Copper & Gold Inc. reported that production from its U.S. mines in the first half of 2012 increased to 324,000 metric tons (t) and was 12% more than that in the same period of 2011. Most of the increase was attributable to the Safford Mine in Arizona and the Chino Mine in New Mexico, the former owing to an increase in the mining rate and the latter owing to restart of the concentrator during midyear 2011 and to continued increases in the mining rate. Production also rose at the Miami Mine in Arizona, where mining of leach ore resumed during the second half of 2010 (Freeport-McMoRan Copper & Gold Inc., 2012, p. 4, 14).

According to preliminary data compiled by the International Copper Study Group (ICSG) (2012), the global refined copper market balance for the first half of 2012 indicated that refined copper consumption exceeded production by 473,000 t. After making seasonal adjustments for production and consumption, the production shortfall declined to 292,000 t. This compared with a production deficit of 131,000 t and a seasonally adjusted surplus of 56,000 t in the same period of 2011.

According to ICSG data, world apparent consumption of refined copper in the first half of 2012 increased by 7.3% compared with that in the same period of 2011, principally

owing to strong growth in China’s apparent consumption, which rose by 27% compared with that during the same period of 2011 to account for 42.5% of world refined copper consumption. China’s net imports of refined copper increased by 80% from the relatively low net imports levels in the first half of 2011, which were 40% lower than during the same period of 2010. Anecdotal evidence suggests, however, that the high import level in the first half of 2012 was accompanied by increased inventories held in bonded warehouses and was not fully accounted for by increased consumer demand. Consumption in the rest of the world declined by an aggregated 3.7%, with declines in the European Union and Japan of 8.7% and 4.4%, respectively.

According to ICSG data, world mine production in the first half of 2012 increased by 2.4% compared with production in the same period of 2011. Concentrate production increased slightly while electrowon production increased by 9.2%. Increases in China (27%), Mexico (26%), Congo (Kinshasa) (25%), the United States (3%), and Chile (2%), more than offset declines in Indonesia (46%) and Zambia (11%). The average world mine capacity utilization rate for the first half of 2012 was unchanged at about 78%. World refined production increased by 3.8% in the first half of 2012 compared with refined production in the same period of 2011. Primary production increased by 3.2% (mainly from the increase in electrowon production) and secondary production increased by 6.6%.

## References Cited

- Freeport-McMoRan Copper & Gold Inc., 2012, Freeport-McMoRan Copper & Gold Inc. reports second-quarter and six-months 2012 results: Phoenix, AZ, Freeport-McMoRan Copper & Gold Inc. news release, July 19, 41 p. (Accessed August 2, 2012, at [http://www.fcx.com/ir/news\\_releases.htm](http://www.fcx.com/ir/news_releases.htm).)
- International Copper Study Group, 2012, Copper—Preliminary data for 1st half 2012: Lisbon, Portugal, International Copper Study Group press release, September 21, 1 p. (Accessed September 21, 2012, at [http://www.icsg.org/index.php?option=com\\_content&task=view&id=63&Itemid=78](http://www.icsg.org/index.php?option=com_content&task=view&id=63&Itemid=78).)

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			
			April	May	June	January– June
<b>Production:</b>						
<b>Primary:</b>						
Mine, recoverable	(2)	1,110,000	97,100 <sup>r</sup>	91,700 <sup>r</sup>	87,600	554,000
<b>Refinery:</b>						
Electrolytic, domestic and foreign	(4)	545,000	32,400	34,400	29,600	217,000
Electrowon	(4)	449,000	38,900	39,900	36,200	234,000
<b>Total</b>	(4)	<b>994,000</b>	<b>71,300</b>	<b>74,300</b>	<b>65,800</b>	<b>451,000</b>
<b>Secondary recoverable copper:</b>						
Refineries	(5)	37,300	2,950	2,940	3,030	18,300
Ingot makers <sup>3</sup>	(5)	71,500	5,960	5,960	5,960	35,800
Brass and wire-rod mills	(5)	571,000	48,000	48,200 <sup>r</sup>	47,400	291,000
Foundries, etc. <sup>3</sup>	(5)	46,000	3,830	3,830	3,830	23,000
<b>Smelter, total</b>	(3)	<b>538,000</b>	<b>34,100</b>	<b>29,400 <sup>r</sup></b>	<b>27,600</b>	<b>202,000</b>
<b>Consumption:</b>						
Apparent	(8)	1,710,000	137,000	138,000 <sup>r</sup>	148,000	876,000
Refined (reported)	(7)	1,750,000	143,000	153,000 <sup>r</sup>	151,000	903,000
Purchased copper-base scrap	(9)	924,000	77,700	77,400 <sup>r</sup>	76,500	469,000
<b>Stocks at end of period:</b>						
Total refined	(10)	409,000	268,000	235,000 <sup>r</sup>	212,000	212,000
Blister, etc.	(10)	13,000	19,200	15,000	20,200	20,200
Prices, U.S. producer cathode (cents per pound) <sup>4</sup>	(11)	405.854	377.744	362.860	340.586	372.344
<b>Imports:<sup>5</sup></b>						
Ore and concentrate <sup>6</sup>	(13)	15,100	--	6	25	4,450
Refined	(13)	670,000	51,600	52,400	57,200	297,000
<b>Exports:<sup>5</sup></b>						
Ore and concentrate <sup>6</sup>	(14)	252,000	29,000	25,200	28,800	142,000
Refined	(14)	40,400	37,900	33,000	10,200	135,000

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

<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>						
June	63,900	29,600	93,500	38,600	57,100	95,700
July	61,900	30,200	92,200	36,600	57,800	94,400
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 <sup>r</sup>	29,600	92,300 <sup>r</sup>	39,200	55,200 <sup>r</sup>	94,400 <sup>r</sup>
February	64,500 <sup>r</sup>	27,900	92,500 <sup>r</sup>	39,100	55,600 <sup>r</sup>	94,700 <sup>r</sup>
March	65,700	27,100	92,800 <sup>r</sup>	40,900	54,000	94,900
April	64,500 <sup>r</sup>	32,600	97,100 <sup>r</sup>	38,900	60,500 <sup>r</sup>	99,400 <sup>r</sup>
May	65,000 <sup>r</sup>	26,700	91,700 <sup>r</sup>	39,900	54,000 <sup>r</sup>	93,900 <sup>r</sup>
June	56,500	31,100	87,600	36,200	53,400	89,600
January–June	379,000	175,000	554,000	234,000	333,000	567,000

<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 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>	
June	33,400
July	44,100
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 <sup>r</sup>
June	27,600
January–June	202,000

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

<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>					
June	44,800	38,600	83,400	3,060	86,400
July	39,600	36,600	76,200	3,030	79,200
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	34,400	39,900	74,300	2,940	77,300
June	29,600	36,200	65,800	3,030	68,800
January–June	217,000	234,000	451,000	18,300	470,000

<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>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>									
June	1,540	1,520	972	4,990	46,300	1,420	2,730	1,110	60,500
July	1,530	1,500	972	4,990	45,200	1,470	2,730	1,110	59,500
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 <sup>r</sup>	1,520	2,730	1,110	60,900 <sup>r</sup>
June	1,530	1,500	972	4,990	44,000	3,330	2,730	1,110	60,200
January–June	9,250	9,040	5,830	29,900	281,000	10,800	16,400	6,640	369,000

<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>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>						
June	81,000	109,000	81,300	109,000	29,300	27,500
July	76,700	98,200	76,800	96,200	29,200	29,500
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 <sup>r</sup>	80,700	111,000	29,600	21,700
June	79,200	110,000	79,600	109,000	29,200	22,600
January–June	478,000	661,000	479,000	666,000	29,200	22,600

<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>				
June	36,400	110,000	4,800	151,000
July	36,000	100,000	4,800	141,000
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 <sup>r</sup>	4,800	153,000 <sup>r</sup>
June:				
Cathodes	28,300	110,000	1,470	139,000
Wire bars	--	--	W	W
Ingots and ingot bars	1,240	--	1,440	2,680
Cakes and slabs	W	--	W	W
Billets and other	6,670	--	1,900	8,560
Total	36,200	110,000	4,800	151,000
January–June	215,000	659,000	28,800	903,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised. 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>						
June	83,400	10,900	42,400	1,930	(5,560)	140,000
July	76,200	10,900	68,900	1,850	9,070	145,000
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	74,300	10,900	52,400	33,000	(32,900) <sup>r</sup>	138,000 <sup>r</sup>
June	65,800	12,800	56,900	10,200	(22,600)	148,000
January–June	451,000	67,400	295,000	135,000	(197,000)	876,000

<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>									
June	1,610	1,550	2,880	6,440	57,700	1,430	4,020	1,490	77,100
July	1,570	1,550	2,880	6,440	55,900	1,520	4,020	1,490	75,400
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 <sup>r</sup>	1,600	4,020	1,490	77,400 <sup>r</sup>
June	1,570	1,550	2,330	6,980	55,100	3,470	4,020	1,490	76,500
January–June	9,550	9,310	14,000	41,900	350,000	11,300	24,100	8,940	469,000

<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>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>								
June	20,100	5,740	21,000	7,860	4,380	72,700	248,000	359,000
July	20,100	5,570	16,400	8,160	4,380	75,100	259,000	368,000
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 <sup>r</sup>	6,410	4,380	54,200	144,000	235,000 <sup>r</sup>
June	20,200	4,400	17,300	6,580	4,380	48,400	131,000	212,000

<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:			
June	416.740	410.914	410.279
July	445.951	440.125	436.301
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
January-June	372.344	366.518	366.801

<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:				
June	401.45	370.09	319.09	180.00
July	426.65	396.95	335.25	197.50
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
January–June	358.46	326.00	292.72	196.05

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		January– June	2012		January– June	2012		January– June	2012		January– June
	2011	June		2011	June		2011	June		2011	June	
Belgium	--	--	--	200	--	73	--	--	--	1	--	6
Canada	8,430	25	44	239	6	128	2	(2)	9	138,000	7,840	60,700
Chile	--	--	--	--	--	--	--	--	--	370,000	39,400	174,000
China	--	--	--	79	--	180	(2)	1	1	203	2	50
Finland	--	--	--	--	--	--	310	18	140	(2)	--	--
Germany	--	--	15	54	--	--	(2)	--	--	3,020	183	1,200
Japan	--	--	--	(2)	--	1	16	2	7	5,540	369	2,680
Mexico	6,710	--	4,380	--	31	84	--	--	--	97,100	8,190	49,400
Netherlands	--	--	--	193	19	217	1	--	--	(2)	--	6
Peru	--	--	--	--	--	--	--	--	--	55,200	1,200	8,810
Other	--	--	9	218	9	53	142	--	116	884	19	197
Total	15,100	25	4,450	983	65	736	471	21	273	670,000	57,200	297,000

-- 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	June	January– June	2011	June	January– June	2011	June	January– June	2011	June	January– June
Canada	14,300	1,450	6,840	35,900	3,690	16,500	4,440	232	1,360	3,980	88	256
China	97,000	6,560	41,500	1,190	--	439	616	10	99	4,460	5,600	98,400
Germany	110	4	34	402	113	204	911	40	239	81	--	14
Hong Kong	17	--	--	--	--	4	1,150	79	790	19	9	72
Italy	--	--	--	--	--	--	176	20	107	1,480	43	44
Japan	22,000	4,410	4,410	172	--	--	862	101	450	11	164	682
Korea, Republic of	--	--	7,570	--	--	--	761	78	407	104	--	--
Mexico	114,000	12,900	61,000	--	--	--	255	24	96	27,800	4,210	33,900
Singapore	--	--	--	--	--	--	431	--	31	--	--	2
Spain	6	--	--	--	--	--	228	--	90	1,040	--	209
Sweden	--	--	--	--	--	--	2	--	10	384	20	531
Switzerland	--	--	--	--	--	--	21	6	29	3	--	3
Taiwan	1	--	4	--	--	--	799	101	2,160	7	--	3
Other	4,550	3,430	20,900	609	--	97	3,610	170	1,370	1,050	46	802
Total	252,000	28,800	142,000	38,300	3,810	17,300	14,300	861	7,230	40,400	10,200	135,000

-- 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.

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

(Metric tons, gross weight)

Country or territory	Unalloyed			Alloyed		
	2012			2012		
	2011	June	January– June	2011	June	January– June
Canada	14,600	1,210	7,340	34,800	2,540	16,100
Chile	39	19	33	403	30	128
Costa Rica	834	23	295	2,300	99	827
Guatemala	666	55	360	1,960	246	1,330
Honduras	47	13	40	1,060	107	501
Jamaica	95	--	--	325	--	--
Japan	29	--	10	33	--	--
Mexico	8,390	856	5,030	28,400	2,130	13,200
Nicaragua	1,080	65	540	968	36	405
Other	4,620	345	2,310	9,210	901	4,530
Total	30,400	2,590	16,000	79,400	6,090	37,000

-- 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.

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

(Metric tons, gross weight)

Country or territory	Unalloyed							Alloyed				
	2011	2012						2011	2012			
		No. 1		No. 2		Other			Segregated		Unsegregated	
		June	January–June	June	January–June	June	January–June		June	January–June	June	January–June
Belgium	14,400	792	8,390	299	1,920	79	1,050	14,300	6	925	1,080	6,050
Canada	20,400	--	--	--	--	1,820	10,100	38,000	108	815	4,170	22,400
China	383,000	2,800	25,400	12,100	86,300	10,900	61,700	557,000	18,600	120,000	23,300	154,000
Germany	8,470	544	7,100	293	1,360	290	978	13,900	136	1,220	742	6,310
Hong Kong	5,970	4	322	243	1,480	18	951	29,000	425	4,450	3,000	11,600
India	1,690	--	57	211	625	40	52	12,200	649	4,790	98	403
Japan	8,810	354	1,420	141	853	388	3,170	7,480	116	2,470	375	954
Korea, Republic of	19,100	325	2,170	528	4,000	308	2,090	17,100	531	3,140	152	562
Mexico	3,150	62	328	--	14	1,780	2,290	7,000	68	311	235	2,330
Spain	5,170	347	1,230	224	1,370	--	103	11,600	--	588	479	3,840
Taiwan	4,170	40	371	258	1,010	--	179	3,400	118	858	88	1,320
Thailand	491	--	198	--	--	--	--	2,040	80	242	--	18
Other	25,200	1,410	8,420	572	4,560	529	2,000	25,400	487	2,380	1,390	7,980
Total	501,000	6,670	55,400	14,800	103,000	16,100	84,700	739,000	21,300	142,000	35,100	218,000

-- 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.