

# Mineral Industry Surveys

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**For information, contact:**

Daniel L. Edelstein, Copper Commodity Specialist  
U.S. Geological Survey  
989 National Center  
Reston, VA 20192  
Telephone: (703) 648-4978, Fax: (703) 648-7757  
E-mail: dedelste@usgs.gov

Samir Hakim (Data)  
Telephone: (703) 648-7955  
Fax: (703) 648-7975  
E-mail: shakim@usgs.gov

**Internet:** <http://minerals.usgs.gov/minerals>

## COPPER IN JANUARY, FEBRUARY, AND MARCH 2010

Average daily mine production of copper in the first quarter of 2010 was down by about 8% from that in the first quarter of 2009 and 3% from that in the fourth quarter of 2009, according to data compiled by the U.S. Geological Survey. Measures to increase mine production, initiated during the fourth quarter of 2009, had yet to reverse the downward trend in production since yearend 2008. Smelter production in the first quarter of 2010, however, rose by about 10% compared with that of the first quarter of 2009, when a maintenance shutdown had reduced output. Refined copper production fell by about 5% during the same comparative periods; electrolytic, electrowon, and secondary production all declined. Consumption of refined copper rose by about 3% compared with that in the first quarter of 2009, principally owing to a 22% year-on-year increase in wire-rod mill consumption in March.

Freeport-McMoRan Copper & Gold Inc. (FCX) (Phoenix, AZ) reported that production from its U.S. operations totaled 128,000 metric tons (t) in the first quarter of 2010 and was down by about 9% from production during the first quarter of 2009. Net cash operating costs fell to \$1.13 per pound of copper from \$1.22 per pound of copper during the same comparative periods. In late 2008, FCX had revised operating plans at most of its U.S. operations that reduced operating costs at the expense of production. In the fourth quarter of 2009, however, FCX revised its production cutbacks and initiated plans to restart production at its Miami Mine in Arizona (Freeport-McMoRan Copper & Gold Inc., 2010, p. 4).

Rio Tinto plc (London, United Kingdom) reported that its Bingham Canyon Mine in Utah produced 61,300 t of copper in the first quarter of 2010, down by 18% and 8%, respectively, from production in the first and fourth quarters of 2009. Although mill throughput increased by 8% from that in the first quarter of 2009, the average mill-head grade fell to 0.52% copper from 0.69% copper in the first quarter of 2009 and 0.57% in the fourth quarter of 2009. In the first quarter of 2010, mill circuits were optimized for molybdenum and gold recovery, production of which rose by 60% and 25%,

respectively, from that in the first quarter of 2009 (Rio Tinto plc, 2010, p. 3, 22).

On December 9, 2009, Grupo México, S.A.B. de C.V. (Mexico City, Mexico) announced that the Chapter 11 restructuring of ASARCO LLC had been completed and that full control of Asarco had been returned to Grupo México. A combined \$3.63 billion payment was made to Asarco's creditors (\$720 million Grupo México contribution, \$1.5 billion secured financing, and \$1.41 billion available cash from Asarco) and a \$280 million promissory note delivered to asbestos creditors. Under terms of the restructuring, these payments rendered Asarco free of environmental contingencies and liabilities from past Asarco operations. ASARCO Incorporated, which operated the Mission, Ray, and Silver Bell Mines in Arizona, the Hayden, AZ, smelter, and the Amarillo, TX, refinery, had filed for bankruptcy protection in 2005 and had been operating as ASARCO LLC. In the first quarter of 2010, Grupo México reported that production from Asarco's mines was 59,600 t, an increase of 8.5% from production in the first quarter of 2009, principally owing to higher ore grades at the Mission Mine and increased recoveries at the Ray Mine. Production costs for Asarco's mines fell to \$1.16 per pound of copper in the first quarter of 2010 from \$1.48 in the first quarter of 2009 owing to greater productivity and higher byproduct prices (Grupo México, S.A.B. de C.V., 2009; 2010).

### References Cited

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- Grupo México, S.A.B. de C.V., 2010, First quarter 2010 results: Mexico City, Mexico, Grupo México, S.A.B. de C.V. press release, April 30, 14 p. (Accessed July 21, 2010, at <http://www.gmxico.com/pdf/quarterly-reports/CEO-Report-1Q10.pdf>.)
- Rio Tinto plc, 2010, First quarter 2010 operations review: London, United Kingdom, Rio Tinto plc media release, April 15, 26 p.

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>	2010				January- March
		2009 <sup>p</sup>	January	February	March	
Production:						
Primary:						
Mine, recoverable	(2)	1,180,000	99,500	82,400	93,500	275,000
Refinery:						
Electrolytic, domestic and foreign	(4)	636,000	51,000	49,100	58,700	159,000
Electrowon	(4)	476,000	40,900	36,400	36,900	114,000
Total	(4)	1,110,000	91,900	85,400	95,600	273,000
Secondary recoverable copper:						
Refineries	(5)	46,400	2,920	3,170	2,830	8,920
Ingot makers <sup>3</sup>	(5)	91,100 <sup>r</sup>	7,590	7,590	7,590	22,800
Brass and wire-rod mills	(5)	561,000	49,400	47,300	50,000	147,000
Foundries, etc. <sup>3</sup>	(5)	44,600 <sup>r</sup>	3,700	3,700	3,700	11,100
Smelter, total	(3)	597,000	51,200	43,500	52,000	147,000
Consumption:						
Apparent	(8)	1,600,000	137,000	124,000	158,000	419,000
Refined (reported)	(7)	1,650,000	141,000	143,000	154,000	438,000
Purchased copper-base scrap	(9)	939,000 <sup>r</sup>	80,200	78,500	82,100	241,000
Stocks at end of period:						
Total refined	(10)	433,000	466,000	486,000	466,000	XX
Blister, etc.	(10)	15,500	25,800	25,200	25,500	XX
Prices, U.S. producer cathode (cents per pound) <sup>4</sup>	(11)	241.243	339.592	317.744	345.367	334.234
Imports: <sup>5</sup>						
Ore and concentrate <sup>6</sup>	(13)	137	--	--	1,080	1,080
Refined	(13)	664,000	60,300	61,300	46,200	168,000
Exports: <sup>5</sup>						
Ore and concentrate <sup>6</sup>	(14)	151,000	9,370	10,400	12,200	32,000
Refined	(14)	80,800	6,200	13,900	13,600	33,800

<sup>p</sup>Preliminary. <sup>r</sup>Revised. XX Not applicable. -- 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 significant tables where these data are located.

<sup>3</sup>Monthly data estimated based on 2008 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
2009:						
March	57,800	49,100	107,000	38,900	69,900	109,000
April	53,700	36,200	89,900	35,600	56,400	92,100
May	58,700	45,600	104,000	38,200	68,200	106,000
June	59,000	43,200	102,000	39,400	64,700	104,000
July	62,700	37,000	99,700	42,800 <sup>r</sup>	58,800	102,000
August	58,200	46,900	105,000	40,500 <sup>r</sup>	66,600	107,000
September	56,500	34,100	90,700	36,600 <sup>r</sup>	55,900	92,400
October	60,700 <sup>r</sup>	37,000	97,700	39,000 <sup>r</sup>	60,300 <sup>r</sup>	99,400 <sup>r</sup>
November	59,000	43,800	103,000	39,700 <sup>r</sup>	64,700 <sup>r</sup>	104,000 <sup>r</sup>
December	62,000 <sup>r</sup>	26,600	88,600	42,400 <sup>r</sup>	47,800 <sup>r</sup>	90,200 <sup>r</sup>
January-December	712,000 <sup>r</sup>	470,000	1,180,000	476,000 <sup>r</sup>	728,000 <sup>r</sup>	1,200,000 <sup>r</sup>
2010:						
January	62,600	36,900	99,500	40,900	60,500	101,000
February	53,100	29,300	82,400	36,400	47,800	84,200
March	56,500	37,000	93,500	36,900	58,300	95,200
January-March	172,000	103,000	275,000	114,000	167,000	281,000

<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 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, BY SOURCE<sup>1,2</sup>

(Metric tons, copper content)

Period	Anode production
2009:	
March	54,800
April	55,300
May	47,300
June	39,100
July	55,800
August	55,400
September	51,700
October	58,200
November	52,700
December	48,400
January-December	597,000
2010:	
January	51,200
February	43,500
March	52,000
January-March	147,000

<sup>1</sup>Includes blister, anode and copper 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		
2009:					
March	52,600	38,900	91,500	4,390	95,900
April	53,700	35,600	89,300	4,420	93,700
May	49,600	38,200	87,800	4,030	91,800
June	46,700	39,400	86,100	4,200	90,300
July	47,500	42,800 <sup>r</sup>	90,300	4,090	94,400 <sup>r</sup>
August	54,200	40,500 <sup>r</sup>	94,700	2,900	97,600 <sup>r</sup>
September	54,700	36,600 <sup>r</sup>	91,300	2,980	94,300 <sup>r</sup>
October	58,800	39,000 <sup>r</sup>	97,800	2,960	101,000
November	55,300	39,700 <sup>r</sup>	94,900	3,040	98,000 <sup>r</sup>
December	54,900	42,400 <sup>r</sup>	97,300	3,210	101,000
January-December	636,000	476,000 <sup>r</sup>	1,110,000	46,400	1,160,000 <sup>r</sup>
2010:					
January	51,000	40,900	91,900	2,920	94,800
February	49,100	36,400	85,400	3,170	88,600
March	58,700	36,900	95,600	2,830	98,400
January-March	159,000	114,000	273,000	8,920	282,000

<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	
2009:									
March	1,970	2,420	1,270 <sup>r</sup>	6,330 <sup>r</sup>	44,900	1,420	2,690 <sup>r</sup>	1,030 <sup>r</sup>	62,000 <sup>r</sup>
April	1,770	2,650	1,270 <sup>r</sup>	6,330 <sup>r</sup>	44,900	1,420	2,690 <sup>r</sup>	1,030 <sup>r</sup>	62,100 <sup>r</sup>
May	1,860	2,170	1,270 <sup>r</sup>	6,330 <sup>r</sup>	42,900	1,470	2,690 <sup>r</sup>	1,030 <sup>r</sup>	59,700 <sup>r</sup>
June	1,810	2,390	1,270 <sup>r</sup>	6,330 <sup>r</sup>	47,100	1,420	2,690 <sup>r</sup>	1,030 <sup>r</sup>	64,000 <sup>r</sup>
July	1,940	2,160	1,270 <sup>r</sup>	6,330 <sup>r</sup>	45,000	1,420	2,690 <sup>r</sup>	1,030 <sup>r</sup>	61,800 <sup>r</sup>
August	1,420	1,480	1,270 <sup>r</sup>	6,330 <sup>r</sup>	48,000	1,470	2,690 <sup>r</sup>	1,030 <sup>r</sup>	63,600 <sup>r</sup>
September	1,490	1,490	1,270 <sup>r</sup>	6,330 <sup>r</sup>	47,300	1,450	2,690 <sup>r</sup>	1,030 <sup>r</sup>	63,100 <sup>r</sup>
October	1,470	1,490	1,270 <sup>r</sup>	6,330 <sup>r</sup>	46,400	1,470	2,690 <sup>r</sup>	1,030 <sup>r</sup>	62,100 <sup>r</sup>
November	1,540	1,500	1,270 <sup>r</sup>	6,330 <sup>r</sup>	44,400	1,450	2,690 <sup>r</sup>	1,030 <sup>r</sup>	60,200 <sup>r</sup>
December	1,670	1,540	1,270 <sup>r</sup>	6,330 <sup>r</sup>	45,400 <sup>r</sup>	1,450	2,690 <sup>r</sup>	1,030 <sup>r</sup>	61,300 <sup>r</sup>
January-December	20,800	25,600	15,200 <sup>r</sup>	75,900 <sup>r</sup>	545,000 <sup>r</sup>	16,500 <sup>r</sup>	32,200 <sup>r</sup>	12,300 <sup>r</sup>	743,000 <sup>r</sup>
2010:									
January	1,440	1,480	1,270	6,330	48,000	1,470	2,690	1,030	63,700
February	1,360	1,810	1,270	6,330	45,900	1,420	2,690	1,030	61,800
March	1,320	1,510	1,270	6,330	48,500	1,420	2,690	1,030	64,100
January-March	4,130	4,790	3,800	19,000	142,000	4,300	8,060	3,090	190,000

<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 scrap based on source of material at smelter level.

<sup>3</sup>Monthly data and 2009 cumulative data estimated based on 2008 annual data.

<sup>4</sup>Does not include an estimate, based on reported 2008 data, of 3,140 tons per month from new scrap and 1,930 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
2009:						
March	80,000	90,800	81,800	97,500	32,900	23,000
April	78,700	101,000	79,900	99,700	31,700	24,600
May	77,900	99,500	77,500	92,800	32,100	31,300
June	82,800	97,100	83,600	93,500	31,300	34,800
July	79,300	83,200	79,000	95,300	31,600	22,700
August	83,400	103,000	83,200	106,000	32,200	20,500
September	84,300	99,200	83,400	95,700	33,100	24,100
October	81,400	95,600	82,000	95,900	32,500	23,800
November	78,700	78,200	78,300	81,300	32,900	20,700
December	76,900	78,200 <sup>r</sup>	77,100	77,900	32,700	20,900
January-December	958,000	1,140,000	961,000	1,140,000	XX	XX
2010:						
January	81,100	101,000	81,200	97,800	32,600	23,800
February	82,100	101,000	83,500	98,800	31,200	25,900
March	81,900	112,000	82,900	113,000	30,100	24,800
January-March	245,000	313,000	248,000	309,000	XX	XX

XX Not applicable.

<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
2009:				
March	37,200	90,100	4,170 <sup>r</sup>	131,000 <sup>r</sup>
April	37,200	101,000	4,170 <sup>r</sup>	142,000 <sup>r</sup>
May	39,800	100,000	4,170 <sup>r</sup>	144,000 <sup>r</sup>
June	39,600	98,300	4,170 <sup>r</sup>	142,000 <sup>r</sup>
July	39,000	84,300	4,170 <sup>r</sup>	127,000 <sup>r</sup>
August	38,600	104,000	4,170 <sup>r</sup>	146,000 <sup>r</sup>
September	37,100	101,000	4,170 <sup>r</sup>	143,000 <sup>r</sup>
October	37,000	97,300	4,170 <sup>r</sup>	138,000 <sup>r</sup>
November	35,400	79,600	4,170 <sup>r</sup>	119,000 <sup>r</sup>
December	35,900	78,700	4,170 <sup>r</sup>	119,000 <sup>r</sup>
January-December	454,000	1,140,000	50,000 <sup>r</sup>	1,650,000 <sup>r</sup>
2010:				
January	38,100	99,100	4,170	141,000
February	39,600	98,900	4,170	143,000
March:				
Cathodes	27,700	110,000	719	139,000
Wire bars	--	--	(3)	(3)
Ingots and ingot bars	1,240	--	1,560	2,800
Cakes and slabs	(3)	--	(3)	(3)
Billets and other	10,100	--	1,890	12,000
Total	39,000	110,000	4,170	154,000
January-March	117,000	308,000	12,500	438,000

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

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

<sup>2</sup>Consumption by ingot makers, chemical plants, foundries, and miscellaneous manufacturers is estimated based on 2008 annual data.

<sup>3</sup>Withheld to avoid disclosing company proprietary data; included with "Billets and other."

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
2009:						
March	91,500	14,400	79,500	3,770	50,300	131,000
April	89,300	14,700	53,900	6,510	266	151,000
May	87,800	14,200	42,700	21,400	(24,400)	148,000
June	86,100	14,400	33,800	19,200	(28,400)	144,000
July	90,300 <sup>r</sup>	14,500	53,600	8,870	9,040	140,000 <sup>r</sup>
August	94,700 <sup>r</sup>	13,800	35,700	6,280	4,820	133,000 <sup>r</sup>
September	91,300 <sup>r</sup>	13,800	52,300	3,980	24,800	129,000 <sup>r</sup>
October	97,800 <sup>r</sup>	13,900	38,300	2,110	16,300	132,000 <sup>r</sup>
November	94,900 <sup>r</sup>	13,800	55,200	3,030	40,300	121,000 <sup>r</sup>
December	97,300 <sup>r</sup>	13,900	55,500	3,160	54,000	110,000 <sup>r</sup>
January-December	1,110,000 <sup>r</sup>	172,000	645,000	80,800	246,000	1,600,000 <sup>r</sup>
2010:						
January	91,900	12,200	71,300	6,200	32,500	137,000
February	85,400	12,500	60,400	13,900	20,100	124,000
March	95,600	12,200	44,700	13,600	(19,500)	158,000
January-March	273,000	36,800	176,000	33,800	33,000	419,000

<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 2008 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	
2009:									
March	1,970	2,180	2,810 <sup>r</sup>	8,750 <sup>r</sup>	55,900	1,430 <sup>r</sup>	4,230 <sup>r</sup>	1,170 <sup>r</sup>	78,400 <sup>r</sup>
April	2,380	2,140	2,810 <sup>r</sup>	8,750 <sup>r</sup>	55,700	1,430 <sup>r</sup>	4,230 <sup>r</sup>	1,170 <sup>r</sup>	78,600 <sup>r</sup>
May	1,960	2,170	2,810 <sup>r</sup>	8,750 <sup>r</sup>	53,000	1,510 <sup>r</sup>	4,230 <sup>r</sup>	1,170 <sup>r</sup>	75,600 <sup>r</sup>
June	2,240	2,180	2,810 <sup>r</sup>	8,750 <sup>r</sup>	58,300	1,430 <sup>r</sup>	4,230 <sup>r</sup>	1,170 <sup>r</sup>	81,100 <sup>r</sup>
July	1,810	2,140	2,810 <sup>r</sup>	8,750 <sup>r</sup>	55,300	1,430 <sup>r</sup>	4,230 <sup>r</sup>	1,170 <sup>r</sup>	77,700 <sup>r</sup>
August	1,600	1,550	2,810 <sup>r</sup>	8,750 <sup>r</sup>	59,100	1,510 <sup>r</sup>	4,230 <sup>r</sup>	1,170 <sup>r</sup>	80,700 <sup>r</sup>
September	1,440	1,510	2,810 <sup>r</sup>	8,750 <sup>r</sup>	57,800	1,490 <sup>r</sup>	4,230 <sup>r</sup>	1,170 <sup>r</sup>	79,200 <sup>r</sup>
October	1,520	1,530	2,810 <sup>r</sup>	8,750 <sup>r</sup>	57,100	1,520 <sup>r</sup>	4,230 <sup>r</sup>	1,170 <sup>r</sup>	78,600 <sup>r</sup>
November	1,590	1,550	2,810 <sup>r</sup>	8,750 <sup>r</sup>	54,800	1,480 <sup>r</sup>	4,230 <sup>r</sup>	1,170 <sup>r</sup>	76,300 <sup>r</sup>
December	1,730	1,590	2,810 <sup>r</sup>	8,750 <sup>r</sup>	55,300 <sup>r</sup>	1,490 <sup>r</sup>	4,230 <sup>r</sup>	1,170 <sup>r</sup>	77,000 <sup>r</sup>
January-December	24,300	22,900	33,700 <sup>r</sup>	105,000 <sup>r</sup>	671,000	16,900 <sup>r</sup>	50,700 <sup>r</sup>	14,000 <sup>r</sup>	939,000 <sup>r</sup>
2010:									
January	1,490	1,530	2,810	8,750	58,800	1,520	4,230	1,170	80,200
February	1,760	1,510	2,810	8,750	56,800	1,430	4,230	1,170	78,500
March	1,420	1,500	2,810	8,750	60,800	1,430	4,230	1,170	82,100
January-March	4,670	4,530	8,420	26,200	176,000	4,370	12,700	3,500	241,000

<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 2008 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 <sup>5</sup>	LME <sup>6</sup>	
2009:								
March	21,300	14,300	25,100	8,580	3,230 <sup>r</sup>	42,200	243,000	337,000 <sup>r</sup>
April	25,200	11,100	15,900	9,760	3,230 <sup>r</sup>	43,600	253,000	337,000 <sup>r</sup>
May	22,500	14,600	18,400	7,860	3,230 <sup>r</sup>	50,500	218,000	312,000 <sup>r</sup>
June	23,800	11,600	18,700	9,460	3,230 <sup>r</sup>	54,200	187,000	284,000 <sup>r</sup>
July	26,100	10,700	19,500	8,600	3,230 <sup>r</sup>	49,900	201,000	293,000 <sup>r</sup>
August	32,500	9,260	16,700	7,630	3,230 <sup>r</sup>	48,300	213,000	298,000 <sup>r</sup>
September	27,100	11,500	25,300	9,520	3,230 <sup>r</sup>	48,600	225,000	323,000 <sup>r</sup>
October	28,900	18,300	18,600	9,220	3,230 <sup>r</sup>	56,200	233,000	339,000 <sup>r</sup>
November	28,200	19,200	15,200	8,030	3,230 <sup>r</sup>	77,700	256,000	379,000 <sup>r</sup>
December	15,500	23,700	25,300	7,610	3,230 <sup>r</sup>	90,000	283,000	433,000 <sup>r</sup>
2010:								
January	25,800	18,800	27,000	6,890	3,230	94,000	316,000	466,000
February	25,200	20,600	26,200	6,720	3,230	93,700	335,000	486,000
March	25,500	14,100	19,400	6,540	3,230	91,700	331,000	466,000

<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 2008 annual data, comprising stocks at ingot makers, chemical plants, foundries, and miscellaneous manufacturers.

<sup>5</sup>Comex Division of New York Mercantile Exchange, Inc., New York.

<sup>6</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
2009:			
March	177.524	171.698	170.042
April	210.440	204.614	199.846
May	216.439	210.613	207.208
June	234.165	228.339	227.394
July	244.381	238.555	236.531
August	286.886	281.060	279.627
September	287.305	281.479	281.035
October	293.683	287.857	285.190
November	309.356	303.530	302.769
December	324.599	318.773	316.644
January-December	241.243	235.417	233.556
2010:			
January	339.592	333.766	335.005
February	317.744	311.918	310.605
March	345.367	339.541	338.487
January-March	334.234	328.408	328.032

<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
2009:				
March	167.59	153.77	109.32	84.55
April	200.10	188.10	129.40	94.76
May	206.75	197.15	139.00	101.50
June	220.91	204.36	160.23	116.36
July	228.23	210.18	171.59	122.05
August	268.48	244.57	187.02	129.76
September	270.00	242.67	197.50	135.00
October	277.43	250.14	199.40	135.95
November	289.53	260.21	208.55	140.53
December	304.64	271.64	227.50	150.00
January-December	226.83	205.85	159.16	112.93
2010:				
January	323.42	294.74	250.13	156.32
February	303.89	282.32	225.92	160.00
March	331.83	310.04	263.37	173.91
January-March	319.71	295.70	246.47	163.41

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		
	2010			2010			2010			2010		
	2009	March	January- March	2009	March	January- March	2009	March	January- March	2009	March	January- March
Belgium	--	--	--	7	--	--	--	--	--	5	--	(2)
Brazil	--	--	--	--	--	--	--	--	--	10,800	--	1,980
Canada	137	1,060	1,060	420	4	7	61,800	4,800	11,700	189,000	22,500	57,700
Chile	--	--	--	--	--	--	--	--	--	312,000	13,800	78,800
Finland	--	--	--	--	--	--	266	18	35	(2) <sup>r</sup>	(2)	(2)
Germany	--	--	--	22	--	--	(2)	--	(2)	2,510	271	823
Japan	--	--	--	66	--	1	6	2	4	3,600	622	1,330
Mexico	--	--	--	--	--	--	6,270	--	--	19,600	966	2,730
Peru	--	--	--	--	--	--	--	--	--	124,000	7,680	23,700
Taiwan	--	--	(2)	15	--	--	--	--	--	--	(2)	(2)
Other	--	14	14	229	9	30	143	42	44	1,510 <sup>r</sup>	301	728
Total	137	1,080	1,080	759	14	38	68,400	4,870	11,800	664,000	46,200	168,000

<sup>r</sup>Revised. -- 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		
	2010			2010			2010			2010		
	January -			January -			January -			January -		
	2009	March	March	2009	March	March	2009	March	March	2009	March	March
Canada	22,400	882	2,740	35,700	4,230	9,280	14,100	278	1,230	11,200	795	4,510
China	57,500	5,170	16,900	1,260	--	39	573	12	57	41,400	7,930	21,600
Germany	--	--	--	1,690	158	158	3,300	381	548	99	(2)	(2)
Hong Kong	(2)	--	--	--	--	--	1,740	198	356	3,570	1,270	2,250
Japan	21,400	--	2,970	176	9	9	478	75	1,160	81	--	--
Korea, Republic of	9,030	--	--	--	--	--	2,920	54	198	23	--	--
Mexico	36,700	2,470	5,660	--	--	--	44	1	3	7,950	3,590	4,510
Singapore	--	--	--	7	--	--	92	19	34	1,570	--	--
Spain	3	--	--	1,140	--	--	--	20	41	17	--	20
Sweden	--	--	--	--	--	--	169	1	6	1	--	--
Switzerland	3,640	3,730	3,730	--	--	--	72	--	3	2,170	--	--
Taiwan	--	--	--	75	--	--	441	19	76	534	--	800
Other	129 <sup>r</sup>	--	3	886	--	19	2,010 <sup>r</sup>	232	509	12,200 <sup>r</sup>	50	101
Total	151,000	12,200	32,000	40,900	4,390	9,510	26,000	1,290	4,220	80,800	13,600	33,800

<sup>r</sup>Revised. -- 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		
	2010			2010		
	2009	March	January - March	2009	March	January - March
Canada	7,340	848	2,200	24,900	2,450	7,550
Chile	25	--	--	230	--	--
Costa Rica	275	67	138	1,290	179	494
Germany	88	1	8	54	3	3
Guatemala	272	73	146	433	98	229
Honduras	474	--	--	355	20	106
Jamaica	198	27	77	334	33	109
Japan	16	2	12	18	--	--
Mexico	4,840	639	1,630	22,900	2,580	6,800
Nicaragua	666	104	316	441	155	389
Other	2,100	188	550	4,580	401	1,910
Total	16,300	1,950	5,080	55,500	5,920	17,600

-- 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				
	2010							2010				
	No. 1		No. 2		Other			Segregated		Unsegregated		
	January -		January -		January -			January-		January-		
	2009	March	March	March	March	March	March	2009	March	March	March	March
Belgium	2,160	94	177	--	97	187	249	14,900	344	1,100	937	2,130
Canada	6,320	--	--	--	--	1,200	4,270	32,300	281	608	1,740	4,950
China	190,000	2,250	8,030	7,330	24,100	4,860	18,100	416,000	19,300	49,300	21,200	57,100
Germany	1,510	98	287	58	343	14	36	6,600	226	587	594	1,020
Hong Kong	15,600	193	422	641	2,010	319	1,370	37,400	683	3,110	3,590	8,000
India	356	--	21	--	--	80	137	11,100	936	3,340	1,240	1,470
Japan	3,220	349	528	98	216	271	545	10,200	583	1,260	163	627
Korea, Republic of	8,400	516	1,410	506	1,400	282	1,070	21,500	1,170	2,670	272	1,090
Mexico	1,580	199	347	89	205	--	76	9,990	9	18	632	1,180
Spain	1,480	59	293	--	--	--	--	10,900	80	136	830	2,440
Taiwan	6,980	49	272	4	183	77	347	6,510	--	101	--	32
Thailand	1,300	--	--	--	--	59	193	347	258	296	--	40
Other	5,640	431	2,020	37	196	--	95	19,900	47	274	843	2,950
Total	245,000	4,240	13,800	8,760	28,700	7,340	26,500	598,000	23,900	62,800	32,000	83,000

-- 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.