

Mineral Industry Surveys

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COPPER IN AUGUST 2004

Mine production of copper fell slightly in August compared with that of July, according to revised data compiled by the U.S. Geological Survey. Mine output in August, however, was about 3% higher than that in August 2003. Production had begun to increase in June 2004 as capacity restarts announced earlier in the year came on stream. According to tabulations published by Phelps Dodge Corp. (2004, p. 11), production for the third quarter of 2004 at its Chino Mine in New Mexico rose to 26,300 metric tons (t), up from only 9,200 t for the same period in 2003, following resumption of concentrate production and mine-for-leach production earlier in the year.

Consumption of refined copper in August rose by 8% compared with that of July and was at the highest level since the first half of 2001. According to data compiled by the American Bureau of Metal Statistics, Inc. (2004a, b), U.S. shipments of wire rod totaled 156,000 t, up 8.5% from those of July 2004 and 9.2% from those of August 2003, and brass mill product shipments of 65,500 t, which were essentially unchanged in August 2004 compared with those for July, were up by 13% compared with those in August 2003. Year-to-date shipments for wire rod and brass mill products were up by 13.9% and 12.4%, respectively, compared with shipments for the same period in 2003. Net imports of wire rod for the first 8 months of 2004 (63,880 t) were up by 6.7% to from those in same the comparative period of 2003.

Update

Copper prices, which soared in September, peaked in early October, the COMEX spot price reaching \$1.47 per pound on October 8, the highest level since early 1989. On October 13, however, the price dropped precipitously to \$1.29 per pound as fund managers initiated a sell-off, reportedly over concern that

Chinese demand for copper was weakening. Several factors led to this market sentiment, including a reported curb on Chinese lending limits aimed at slowing economic growth; reports of weakened domestic sales and threatened future expansion; a sharp rise in inventories held on the Shanghai Futures Exchange during the first week in October; concern that China would revalue its currency to slow its growth; and reduced copper imports that, according to International Copper Study Group (2004) data, caused a 21% drop in the apparent consumption of copper in July (Carpenter, 2004¹; Platts Metals Week, 2004). COMEX spot copper futures traded between \$1.25 and \$1.35 per pound through the remainder of October.

References Cited

- American Bureau of Metal Statistics, Inc., 2004a, Copper and copper alloy mill product markets—ABMS report 3: Chatham, NY, American Bureau of Metal Statistics, Inc., October 12, 4 p.
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- Platts Metals Week, 2004, China metals demand growth to slow gradually—Analysts: Platts Metals Week, v. 75, no. 42, October 18, p. 3-4.

Internet Reference Cited

- Carpenter, Claudia, 2004 (October 14), Copper falls to 5-week low on concern China's buying may slow, accessed October 15, 2004, at URL <http://www.bloomberg.com>.

¹A reference that includes a section mark (§) is included in the Internet Reference Cited section.

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

(Metric tons, unless otherwise specified)

	Source table ²	2004			January - August
		2003 ^P	July	August	
Production:					
Primary:					
Mine, recoverable	(2)	1,120,000	99,000 ^r	97,900	735,000
Refinery:					
Electrolytic:					
Domestic and foreign	(4)	662,000	49,200	53,400	430,000
Electrowon	(4)	591,000	50,700	49,300	388,000
Total	(4)	1,250,000	99,900	103,000	818,000
Secondary recoverable copper:					
Refineries	(5)	53,300	4,080	3,870	33,400
Ingot makers ³	(5)	119,000	9,890	9,890	79,100
Brass and wire-rod mills	(5)	676,000	58,800 ^r	58,100	482,000
Foundries, etc. ³	(5)	64,600	5,380	5,380	43,000
Smelter, total	(3)	539,000	46,500	51,300	353,000
Consumption:					
Apparent	(8)	2,450,000	213,000	NA	NA
Refined (reported)	(7)	2,300,000	202,000	219,000	1,660,000
Purchased copper-base scrap	(9)	1,150,000	99,300 ^r	99,100	807,000
Stocks at end of period:					
Total refined	(11)	656,000	220,000	184,000	XX
Blister, etc.	(11)	56,800	62,200	65,700	XX
Prices:					
U.S. producer cathode (cents per pound) ⁴	(12)	85.247	132.078	133.015	129.101
Imports:⁵					
Ores and concentrates ⁶	(14)	27,100	4,360	NA	NA
Refined	(14)	882,000	83,900	NA	NA
Exports:⁵					
Ores and concentrates ⁶	(15)	9,860	987	NA	NA
Refined	(15)	93,300	5,470	NA	NA

^PPreliminary. ^rRevised. NA Not available. XX Not applicable.

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

²Numbers in parentheses refer to the significant tables where these data are located.

³Monthly data and 2003 cumulative data estimated based on 2002 monthly average.

⁴Source: Platts Metals Week.

⁵Source: U.S. Census Bureau.

⁶Copper content.

TABLE 2
MINE PRODUCTION OF RECOVERABLE COPPER IN THE UNITED STATES¹

(Metric tons)

Period	Recoverable copper			Contained copper		
	Arizona	Others ²	Total	Electrowon	Concentrates ³	Total
2003: ^P						
January - August	497,000	243,000	739,000 ^r	395,000	354,000	749,000
August	63,400	31,400	94,700	50,500	45,400	95,900
September	59,700	34,100	93,900	50,600	44,400	94,900
October	62,300	33,200	95,500	49,600	47,000	96,600
November	60,200	31,800	92,000	46,200	47,000	93,200
December	62,000	33,400	95,300	49,600	46,900	96,500
Year	741,000	375,000	1,120,000	591,000	539,000	1,130,000
2004:						
January	58,300 ^r	32,300	90,600 ^r	48,700	43,200	91,900
February	55,000 ^r	29,600	84,600 ^r	44,700	41,100	85,800
March	61,300 ^r	31,500	92,700 ^r	48,400	45,700	94,100
April	55,500 ^r	31,600	87,100 ^r	47,600	40,700	88,300
May	56,800 ^r	34,100	90,900 ^r	49,100	42,900	92,000
June	59,200 ^r	33,300 ^r	92,500 ^r	49,400	44,300 ^r	93,700 ^r
July	62,000 ^r	37,000 ^r	99,000 ^r	50,700	49,800 ^r	100,000 ^r
August	62,800	35,100	97,900	49,300	50,000	99,300
January - August	471,000	265,000	735,000	388,000	358,000	746,000

^PPreliminary. ^rRevised.

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

²Includes production from Alaska, Idaho, Missouri, Montana, Nevada, New Mexico, and Utah.

³Includes copper content of precipitates and other metal concentrates.

TABLE 3
COPPER PRODUCED AT SMELTERS IN
THE UNITED STATES, BY SOURCE^{1,2}

(Metric tons, copper content)

Period	Anode production
2003: ^P	
January - August	353,000
August	49,200
September	46,000
October	44,100
November	47,800
December	47,400
Total	539,000
2004:	
January	39,700
February	30,100
March	41,300
April	44,400
May	52,900
June	46,500
July	46,500
August	51,300
January - August	352,700

^PPreliminary.

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

²Data 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 RECOVERY¹

(Metric tons)

Period	Primary materials			Scrap	Total refined
	Electrolytically refined ²	Electrowon	Total		
2003: ^P					
January - August	443,000 ^r	395,000	838,000 ^r	36,400 ^r	875,000 ^r
August	55,100	50,500	106,000	3,910	110,000
September	57,100	50,600	108,000	4,220	112,000
October	53,600	49,600	103,000	4,490	108,000
November	50,500	46,200	96,700	4,050	101,000
December	57,700	49,600	107,000	4,080	111,000
Year	662,000	591,000	1,250,000	53,300	1,310,000
2004:					
January	51,300	48,700	100,000	4,190	104,000
February	50,300	44,700	95,000	3,920	98,900 ^r
March	52,300	48,400	101,000	4,330	105,000
April	59,000	47,600	107,000	4,360	111,000
May	55,600	49,100	105,000	4,150	109,000
June	58,900	49,400	108,000	4,460	113,000
July	49,200	50,700	99,900	4,080	104,000
August	53,400	49,300	103,000	3,870	107,000
January - August	430,000	388,000	818,000	33,400	851,000

^PPreliminary. ^rRevised.

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

²From domestic and foreign source materials.

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

(Metric tons, copper content)

Period	Refineries ²		Ingot makers ³		Brass and wire-rod mills		Foundries, etc. ³		Total ⁴
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2003: ^P									
January - August	10,600	25,800 ^r	18,700 ^r	60,400 ^r	431,000 ^r	20,800 ^r	16,200 ^r	26,900 ^r	610,000 ^r
August	1,340	2,580	2,340	7,550	52,900	2,190	2,020	3,360	74,300
September	1,340	2,880	2,340	7,550	53,900	2,790	2,020	3,360	76,200
October	1,340	3,160	2,340	7,550	56,300	2,880	2,020	3,360	78,900
November	1,340	2,720	2,340	7,550	51,100	2,450	2,020	3,360	72,900
December	1,340	2,740	2,340	7,550	51,900	2,880	2,020	3,360	74,100
Year	16,000	37,300	28,100	90,600	644,000	31,800	24,300	40,300	912,000
2004:									
January	1,340	2,860	2,340	7,550	57,400	3,610	2,020	3,360	80,500
February	1,340	2,590	2,340	7,550	56,600	3,900	2,020	3,360	79,700
March	1,340	3,000	2,340	7,550	60,100	3,650	2,020	3,360	83,400
April	1,340	3,020	2,340	7,550	60,500	2,900	2,020	3,360	83,000
May	1,340	2,820	2,340	7,550	54,600	3,090	2,020	3,360	77,100
June	1,340	3,120	2,340	7,550	55,900	2,910	2,020	3,360	78,500
July	1,340	2,740	2,340	7,550	56,400 ^r	2,440	2,020	3,360	78,200 ^r
August	1,340	2,540	2,340	7,550	55,700	2,450	2,020	3,360	77,200
January - August	10,700	22,700	18,700	60,400	457,000	24,900	16,200	26,900	638,000

^PPreliminary. ^rRevised.

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

²Electrolytically refined and fire-refined scrap based on source of material at smelter level.

³Monthly data and 2003 cumulative data estimated based on 2002 annual data.

⁴Does not include an estimate, based on reported 2002 data of 3,100 tons per month from new scrap and 2,020 tons per monthly copper recovered from scrap other than copper-base.

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

(Metric tons, gross weight)

Period	Production		Shipments		Stocks, end of period	
	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills
2003: ^P						
January - August	902,000 ^r	1,060,000 ^r	907,000 ^r	1,070,000 ^r	XX	XX
August	111,000	140,000	112,000	142,000	53,500	29,900
September	117,000	142,000	118,000	147,000	53,200	24,900
October	120,000	156,000	119,000	159,000	54,000	21,600
November	110,000	139,000	111,000	136,000	53,500	24,700
December	106,000	131,000	106,000	134,000	53,800	22,200
Year	1,360,000	1,630,000	1,360,000	1,640,000	XX	XX
2004:						
January	115,000	158,000	116,000	151,000	52,400	29,400
February	117,000	146,000	120,000	147,000	52,200	28,500
March	123,000	158,000	124,000	168,000	51,300	19,100
April	125,000	159,000	124,000	160,000	52,400	18,300
May	115,000	160,000	115,000	148,000	51,400	29,600
June	118,000	143,000	116,000	148,000	52,700	23,900
July	117,000	143,000	116,000	143,000	54,100	23,900
August	116,000	157,000	116,000	152,000	54,900	28,200
January - August	946,000	1,220,000	947,000	1,220,000	XX	XX

^PPreliminary. ^rRevised. XX Not applicable.

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

TABLE 7
CONSUMPTION OF REFINED COPPER¹

(Metric tons)

Period and item	Brass mills	Wire-rod mills	Other plants ²	Total
2003: ^P				
January - August	393,000 ^r	1,070,000 ^r	45,000 ^r	1,510,000
August	46,800	143,000	5,630	195,000
September	48,000	143,000	5,630	197,000
October	49,500	157,000	5,630	212,000
November	49,600	140,000	5,630	195,000
December	46,900	128,000	5,630	181,000
Year	587,000	1,640,000	67,600	2,300,000
2004:				
January	47,900	156,000	5,630	210,000
February	49,600	146,000	5,630	201,000
March	54,300	158,000	5,630	218,000
April	52,400	158,000	5,630	216,000
May	45,300	156,000	5,630	207,000
June	46,000	136,000	5,630	188,000
July	50,900	146,000	5,630	202,000
August:				
Cathodes	33,000	164,000	818	197,000
Wire bars	--	--	(3)	(3)
Ingots and ingot bars	1,150	--	2,230	3,390
Cakes and slabs	(3)	--	(3)	(3)
Billets and other	15,800	W	2,580	18,400
Total	49,900	164,000	5,630	219,000
January - August	396,000	1,220,000	45,000	1,660,000

^PPreliminary. ^rRevised. W Withheld to avoid disclosing company proprietary data included with "Cathodes." -- Zero.

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

²Consumption by ingot makers, chemical plants, foundries, and miscellaneous manufacturers is estimated based on 2002 annual data.

³Withheld to avoid disclosing company proprietary data; included with "Billets and others."

TABLE 8
U.S. APPARENT CONSUMPTION OF COPPER¹

(Metric tons)

Period	Refined copper production	Copper in old scrap ²	Refined general imports ³	Refined exports ³	Stock change during period	Apparent consumption
2003: ^P						
January - July	733,000 ^r	132,000 ^r	379,000	49,400	(262,000) ^r	1,460,000 ^r
July	106,000	18,500	40,700	5,080	(36,300)	197,000
August	106,000	17,700	72,700	4,080	5,710	186,000
September	108,000	18,600	46,000	4,330	(30,600)	198,000
October	103,000	19,000	69,100	4,640	(58,300)	245,000
November	96,700	18,100	63,300	8,470	(24,400)	194,000
December	107,000	18,600	57,200	22,300	(11,000)	172,000
Year	1,250,000	224,000	687,000	93,300	(381,000)	2,450,000
2004:						
January	100,000	19,400	43,700	11,000	(77,100)	229,000
February	95,000	19,400	45,400	18,500	(63,600)	205,000
March	101,000	19,600	62,500	23,900	(75,100)	234,000
April	107,000	18,900	59,300	28,400	(93,800)	250,000
May	105,000	18,800	56,300	3,700	(40,300)	216,000
June	108,000	19,000	40,400	2,720	(61,600)	227,000
July	99,900	18,100	75,600	5,470	(24,500)	213,000
August	103,000	17,900	NA	NA	(220,000)	NA
January - July	715,000	133,000	383,000	93,600	(436,000)	1,570,000

^PPreliminary. ^rRevised. NA Not available.

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

²Includes 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 2002 data.

³Source: U.S. Census Bureau.

TABLE 9
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP¹

(Metric tons, gross weight)

Period	Smelters and refineries		Ingot makers ²		Brass and wire-rod mills ³		Foundries, etc. ²		Total scrap used
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2003: ^P									
January - August	10,800	26,200 ^r	27,900 ^r	85,400 ^r	541,000 ^r	21,200 ^r	28,200 ^r	29,900 ^r	770,000 ^r
August	1,350	2,600	3,490	10,700	65,900	2,230	3,530	3,730	93,600
September	1,350	2,900	3,490	10,700	67,500	2,850	3,530	3,730	96,000
October	1,350	3,180	3,490	10,700	70,800	2,990	3,530	3,730	99,800
November	1,350	2,560	3,490	10,700	64,000	2,550	3,530	3,730	91,900
December	1,350	2,760	3,490	10,700	65,200	2,980	3,530	3,730	93,700
Year	16,200	37,600	41,900	128,000	808,000	32,600	42,300	44,800	1,150,000
2004:									
January	1,350	2,880	3,490	10,700	71,900	3,730	3,530	3,730	101,000
February	1,350	2,610	3,490	10,700	70,800	4,020	3,530	3,730	100,000
March	1,350	3,020	3,490	10,700	75,900	3,760	3,530	3,730	105,000
April	1,350	3,050	3,490	10,700	75,400	2,930	3,530	3,730	104,000
May	1,350	2,770	3,490	10,700	68,500	3,200	3,530	3,730	97,300
June	1,350	3,150	3,490	10,700	70,900	3,040	3,530	3,730	99,800
July	1,350	2,760	3,490	10,700	71,100 ^r	2,620	3,530	3,730	99,300 ^r
August	1,350	2,550	3,490	10,700	71,200	2,580	3,530	3,730	99,100
January - August	10,800	22,800	27,900	85,400	576,000	25,900	28,200	29,900	807,000

^PPreliminary. ^rRevised.

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

²Monthly data and 2003 cumulative data estimated from 2002 annual data.

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

TABLE 10
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP^{1,2}

(Metric tons, gross weight)

Scrap type and processor	2003 ^p		2004			
	January - August	Year	June	July	August	January - August
No. 1 wire and heavy:						
Smelters and refiners	46,800 ^r	70,200	5,860	5,860	5,860	46,900
Brass and wire-rod mills	251,000 ^r	377,000	32,000	32,800 ^r	30,900	269,000
No. 2 mixed heavy and light:						
Smelters and refiners	20,900 ^r	29,500	2,470	2,080	1,870	20,300
Brass and wire-rod mills	3,760	5,750	574	299	440	4,690
Total unalloyed scrap:						
Smelters and refiners	67,600 ^r	99,700	8,320	7,940	7,720	67,200
Brass and wire-rod mills	255,000 ^r	383,000	32,500	33,100 ^r	31,300	274,000
Red brass:³						
All plants	32,700 ^r	49,200	4,440	4,250	4,250	34,500
Leaded yellow brass:						
All plants	208,000	311,000	28,800	28,400	29,900	225,000
Yellow and low brass:						
All plants	34,600 ^r	49,900	3,350	3,340	3,350	27,000
Cartridge cases and brass:						
All plants	52,800 ^r	79,400	7,020	6,980	6,980	56,600
Auto radiators:						
Smelters and refiners	26,800 ^r	40,200	3,350	3,350	3,350	26,800
Bronzes:						
Smelters and refiners	6,760 ^r	10,100	845	845	846	6,760
Brass mills	3,650	5,390	580	481 ^r	464	4,300
Nickel-copper alloys:						
All plants	10,800 ^r	16,700	1,660	1,660	1,770	14,100
Low grade and residues:						
Smelters and refiners	10,800 ^r	16,200	1,350	1,350	1,350	10,800
Other alloy scrap:⁴						
Smelters and refiners	2,080 ^r	3,120	260	260	260	2,080
Brass mills	2,540	4,110	332	332	476	3,530
Total alloyed scrap:						
Smelters and refiners	84,500 ^r	98,000	10,600	10,600	10,600	84,500
Brass mills	307,000	487,000	41,400	40,600	42,400	327,000
Total scrap:						
Smelters and refiners	152,000 ^r	198,000	18,900	18,500	18,300	152,000
Brass and wire-rod mills	562,000 ^r	870,000	73,900	73,700 ^r	73,800	601,000

^pPreliminary. ^rRevised.

¹Does not include: consumption by foundries, chemical plants, and miscellaneous manufacturers, estimated to total about 7,240 tons of scrap per month based on 2002 annual data; monthly data include estimates of about 14,200 tons of scrap per month consumed by ingot makers.

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

³Includes composition turnings, silicon bronze, zincy bronze, railroad car boxes, cocks and faucets, gilding metal, and commercial bronze.

⁴Includes refinery brass, beryllium copper, phosphor copper, and aluminum bronze.

TABLE 11
COPPER STOCKS AT END OF PERIOD¹

(Metric tons)

Period	Crude copper ²	Refined copper					LME ⁶	Total refined
		Refineries ³	Wire-rod mills ³	Brass mills ³	Other ⁴	Comex ⁵		
2003: ^P								
August	47,900	5,310	30,100	20,400	3,600	276,000	444,000	780,000
September	44,500	4,100	33,300	17,600	3,600	271,000	419,000	749,000
October	51,700	3,590	23,200	14,700	3,600	267,000	379,000	691,000
November	57,500	6,960	20,900	19,500	3,600	262,000	353,000	667,000
December	56,800	12,100	29,700	20,200	3,600	255,000	335,000	656,000
2004:								
January	49,900	9,840	22,500	12,500	3,600	239,000	291,000	578,000
February	48,100	10,100	25,200	16,300	3,600	219,000	240,000	515,000
March	43,200	10,800	30,700	14,200	3,600	213,000	167,000	440,000
April	62,900	8,510	19,100	16,700	3,600	172,000	126,000	346,000
May	69,100	11,100	27,500	18,000	3,600	132,000	114,000	306,000
June	60,600	5,680	27,300	19,600	3,600	95,100	92,800	244,000
July	62,200	6,780	30,200	19,100	3,600	79,000	80,800	220,000
August	65,700	8,620	23,100	20,600	3,600	61,600	66,400	184,000

^PPreliminary.

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

²Copper content of blister and other materials in transit and in process of refining.

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

⁴Monthly estimates based on reported and 2002 annual data, comprising stocks at ingot makers, chemical plants, foundries, and miscellaneous manufacturers.

⁵Commodity Exchange Inc., New York.

⁶London Metal Exchange Ltd., U.S. warehouses.

TABLE 12
AVERAGE PRICE OF COPPER IN THE UNITED STATES
AND ON THE LONDON METAL EXCHANGE

(Cents per pound)

Period	U.S. producers delivered price cathode ¹	Comex first position ²	LME cash price Grade A
2003:			
August	84.165	79.995	79.826
September	86.030	81.840	81.152
October	92.290	88.104	87.099
November	96.867	92.681	93.215
December	103.917	99.731	99.831
Year	85.247	81.050	80.684
2004:			
January	114.336	110.150	109.911
February	129.302	125.116	125.144
March	138.323	134.137	136.439
April	133.646	128.481	133.694
May	126.097	120.968	123.960
June	126.008	120.862	121.832
July	132.078	126.812	127.342
August	133.015	127.752	129.064
January - August	129.101	124.285	125.923

¹Listed as "U.S. producer cathode."

²Listed as "Comex high grade first position."

Sources: Platts Metals Week and American Metal Market.

TABLE 13
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
2003:				
August	79.48	69.43	49.00	38.00
September	81.96	72.75	54.43	38.00
October	87.09	77.89	55.18	38.00
November	92.22	82.81	59.44	38.44
December	98.76	89.69	67.00	46.00
Year	80.17	70.42	52.70	38.65
2004:				
January	108.80	98.38	72.60	50.20
February	124.08	112.66	75.84	52.37
March	132.89	118.57	91.00	60.30
April	127.30	107.18	90.91	58.82
May	119.65	96.28	89.00	55.00
June	119.82	96.55	89.00	55.00
July	125.52	101.33	89.00	55.00
August	126.64	101.73	89.00	55.00
January - August	123.09	104.09	85.79	55.21

Source: American Metal Market.

TABLE 14
U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY CLASS¹

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	2003	2004		2003	2004		2003	2004		2003	2004	
		July	January - July		July	January - July		July	January - July		July	January - July
Brazil	--	--	--	--	--	--	(2)	--	--	11,800	--	1,510
Canada	86	--	--	187	2	38	83,600	2,000	43,900	218,000	21,100	150,000
Chile	4,940	--	--	--	--	--	45,200	2,960	20,600	348,000	50,100	173,000
Germany	--	--	--	59	--	--	--	--	--	8,530	1,880	10,900
Japan	--	--	--	--	--	--	(2)	--	19	5,020	409	2,660
Mexico	22,000	4,360	22,400	501	34	137	10,200	566	4,030	21,600	497	8,740
Namibia	--	--	--	--	--	--	17,700	--	7,710	--	--	--
Peru	--	--	--	--	--	--	5	--	1,510	258,000	9,800	92,600
Taiwan	--	--	--	699	101	656	--	--	--	--	--	(2)
United Kingdom	--	--	--	--	--	--	2	(2)	3	10,100	(2)	10
Other	--	--	--	54	--	35	23	--	11	1,220	--	320
Total	27,100	4,360	22,400	1,500	137	866	157,000	5,530	77,800	882,000	83,900	440,000

-- Zero.

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

²Less than 1/2 unit.

Source: U.S. Census Bureau.

TABLE 15
U.S. EXPORTS OF COPPER (UNMANUFACTURED), BY CLASS¹

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	2004			2,004			2004			2004		
	2003	July	January - July	2003	July	January - July	2003	July	January - July	2003	July	January - July
Belgium	87	--	--	39	--	6	--	--	516	2	998	998
Canada	7,540	942	14,300	6,740	1,470	10,800	17,200	1,720	15,800	2,100	69	1,210
China	1,380	--	419	153	19	52	567	40	227	71,600	--	19,300
Costa Rica	--	--	--	3	--	--	1	--	--	254	--	1,300
Hong Kong	27	26	186	74	--	12	2,650	277	2,070	52	--	3
India	--	--	36	175	--	20	118	25	114	1,370	104	1,930
Italy	--	--	--	5	--	--	219	--	54	81	1,070	21,100
Japan	107	--	13	40	--	39	85	80	420	251	10	49
Korea, Republic of	--	--	23	12	--	6	788	1,640	5,660	742	--	3,170
Mexico	224	2	114	8,090	146	1,800	252	16	40	12,200	2,450	5,620
Netherlands	--	--	--	1	--	36	--	--	--	11	711	1,230
Saudi Arabia	--	--	--	--	--	--	--	--	--	28	--	7,840
Taiwan	11	--	96	--	--	5	1,270	120	838	3,630	(2)	28,500
United Arab Emirates	4	--	5	4	--	5	503	--	347	4	--	--
United Kingdom	41	4	13	77	--	53	430	58	297	42	25	67
Other	444	13	210	222 ^r	3	199	2,040 ^r	151	2,400	994 ^r	33	1,320
Total	9,860	987	15,500	15,600	1,640	13,000	26,100	4,130	28,700	93,300	5,470	93,600

^rRevised. -- Zero.

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

Source: U.S. Census Bureau.

TABLE 16
U.S. COPPER SCRAP TRADE¹

(Metric tons, gross weight)

Country or territory	Imports						Exports					
	Unalloyed			Alloyed			Unalloyed			Alloyed		
	2004		January - July	2004		January - July	2004		January - July	2004		January - July
	2003	July		2003	July		2003	July		2003	July	
Belgium	--	--	--	46	--	--	2,630	363	2,040	6,010	753	4,890
Canada	4,130	682	3,500	37,300	3,330	26,400	21,200	2,940	19,000	17,500	926	7,850
China	--	--	--	824	--	233	225,000	17,400	116,000	245,000	15,800	138,000
Costa Rica	921	136	765	404	25	197	--	--	--	6	--	--
Dominican Republic	1,100	13	378	766	--	257	--	--	--	4	--	--
El Salvador	62	66	412	468	17	178	--	--	--	--	--	--
Germany	19	--	2	5,250	--	1,100	7,900	876	4,730	7,680	1,160	6,840
Guatemala	474	9	216	869	140	435	--	--	--	--	--	--
Honduras	534	114	581	488	70	371	--	--	--	--	--	--
Hong Kong	--	--	--	--	--	--	2,530	164	3,150	9,600	689	7,060
India	--	--	--	18	--	--	5,550	640	3,030	45,400	7,710	27,600
Japan	77	4	45	261	--	60	6,790	475	4,720	9,110	796	5,600
Korea, Republic of	--	--	--	21	--	--	25,400	1,070	15,300	15,500	1,100	10,900
Malaysia	--	--	--	272	--	113	3,620	13	395	88	16	44
Mexico	9,950	823	5,630	18,700	1,830	13,300	3,200	279	2,620	808	170	985
Taiwan	--	--	--	462	13	1,350	8,500	666	6,210	6,860	1,410	8,910
United Kingdom	278	88	292	781	86	709	97	--	20	857	342	2,670
Venezuela	159	18	159	957	--	147	--	--	72	--	--	--
Other	1,900 [†]	121	882	3,100 [†]	345	2,100	2,940	80	645	9,070	560	6,540
Total	19,600	2,070	12,900	71,000	5,850	47,000	316,000	24,900	178,000	373,000	31,400	228,000

-- Zero.

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

Source: U.S. Census Bureau.