

Mineral Industry Surveys

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COPPER IN AUGUST 2003

Mine production, which had trended slightly upward over the preceding 3 months, declined a small amount in August, but was still slightly above production in August 2002. Production for the first 8 months of the year, however, was down by about 20,000 metric tons (t), 2.5%, from that of the preceding year. Refinery production followed a similar pattern, rising over a 3-month period before declining nominally in August. Year-on-year refinery production for the 8-month period was down by 139,000 t, 13.6%. Reported consumption of refined copper in August rose to the highest level of the year. Year-on-year consumption, however, was down by more than 6% for the first 8 months of the year.

At the end of July, the spot COMEX price for copper pushed through the \$0.80-per-pound mark reaching the highest level in more than 2 years. The spot price hovered around that mark throughout August, averaging \$0.80 for the month, up by \$.02 from the July average. Prices inched up further in September, closing the month near the monthly average of \$0.814 per pound. At the beginning of October, however, prices began a precipitous climb, breaking through to \$0.90 per pound during the third week in the month, the highest level since September 2000.

At the end of September, London Metal Exchange and COMEX inventories had fallen to 580,000 t and 271,000 t, respectively, down from 856,000 t and 362,000t, respectively, at yearend 2002.

In September, Constellation Copper Corp. announced that it had signed a letter of intent to purchase the copper processing facilities from Equatorial Mining Ltd.'s shuttered Tonapah, NV, operations. The assets to be acquired include crushing equipment and a complete solvent-extraction-electrowinning plant with a rated annual capacity of 25,000 t of copper. Constellation concurrently announced the commissioning of a technical update to its feasibility study for the company's Lisbon Valley Project (UT) in order to: confirm capacity of the purchased processing equipment, revise the mine plan, and update the financial model for development of the project. The company subsequently announced that it had entered into two agreements to acquire additional copper resources near its Lisbon Valley Project, adding 76,000 t of copper to the company's prior holdings that contain reserves of 217,000 t. Constellation hoped that purchase of Tonapah's equipment would reduce capital costs and construction time as well as allow the project to be developed in 2004 and achieve full capacity by early 2005 (Constellation Copper Corp., 2003a, b).

References Cited

- Constellation Copper Corp., 2003a, Acquires rights to two copper properties to add to the Lisbon Valley Project: Denver, CO, Constellation Copper Corp. press release, September 23, 1 p.
- Constellation Copper Corp., 2003b, To purchase copper processing facilities for the Lisbon Valley Project: Denver, CO, Constellation Copper Corp. press release, September 17, 1 p.

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

(Metric tons, unless otherwise specified)

	Source table ²	2003			January - August
		2002 ^P	July	August	
Production:					
Primary:					
Mine, recoverable	(2)	1,140,000	98,100 ^r	94,800	740,000
Refinery:					
Electrolytic:					
Domestic	(4)	801,000	57,900	55,900	451,000
Foreign	(4)	40,000 ³	W	W	W
Electrowon	(4)	601,000	49,500	50,600	395,000
Total	(4)	1,440,000	107,000	107,000	846,000
Secondary recoverable copper:					
Refineries	(5)	69,900	4,890	4,670	38,700
Ingot makers ⁴	(5)	122,000	10,200	10,200	81,300
Brass and wire-rod mills	(5)	735,000	53,500	55,400	452,000
Foundries, etc. ⁴	(5)	64,800	5,400	5,400	43,200
Smelter, total	(3)	683,000	46,600	49,200	353,000
Consumption:					
Apparent	(8)	2,610,000	196,000	NA	NA
Refined (reported)	(7)	2,360,000	176,000	198,000	1,510,000
Purchased copper-base scrap	(9)	1,260,000	92,500	95,000	776,000
Stocks at end of period:					
Total refined	(11)	1,030,000	775,000	765,000	XX
Blister, etc.	(11)	44,400	42,300	47,900	XX
Prices:					
U.S. producer cathode (cents per pound) ⁵	(12)	75.805	82.245	84.165	80.130
Imports:⁶					
Ores and concentrates ⁷	(14)	71,900	3	NA	NA
Refined	(14)	927,000	74,000	NA	NA
Exports:⁶					
Ores and concentrates ⁷	(15)	23,000	1,060	NA	NA
Refined	(15)	26,600	5,080	NA	NA

^PPreliminary. ^rRevised. NA Not available. W Withheld to avoid disclosing company proprietary data; included in "Domestic." 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.

³January-April only; excludes withheld data.

⁴Monthly data and 2002 cumulative data estimated based on 2001 monthly average.

⁵Source: Platts Metals Week.

⁶Source: U.S. Census Bureau.

⁷Copper 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
2002: ^P						
January - August	513,000 ^r	245,000	759,000 ^r	405,000 ^r	363,000	769,000 ^r
August	65,300	28,400	93,700	51,000	43,900	94,900
September	62,700	34,500	97,200	48,900	49,700	98,600
October	62,200	32,000	94,200	48,600	46,800	95,500
November	62,500	32,800	95,300	47,100	49,400	96,500
December	66,500	30,500	96,900	50,500	47,700	98,200
Year	767,000	375,000	1,140,000	601,000	557,000	1,160,000
2003:						
January	62,400	28,600	91,100	49,900	42,300	92,200
February	55,800	26,700	82,500	45,900	37,600	83,500
March	64,100	33,300 ^r	97,300 ^r	52,000	46,600	98,500
April	59,800	27,600	87,400	47,400	41,100	88,500
May	62,400	31,300	93,700	50,400	44,400	94,800
June	65,100	29,400	94,600	49,600	46,400	96,000
July	63,900	34,200 ^r	98,100 ^r	49,500	50,100 ^r	99,600 ^r
August	63,400	31,400	94,800	50,600	45,400	95,900
January - August	497,000	243,000	740,000	395,000	354,000	749,000

^PPreliminary. ^rRevised.

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

²Includes production from Idaho, Missouri, 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
2002: ^P	
January - August	455,000
August	50,300
September	54,400
October	59,800
November	57,500
December	56,500
Total	683,000
2003:	
January	54,200
February	42,300
March	35,700
April	29,700
May	46,000
June	49,700
July	46,600
August	49,200
January - August	353,000

^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 totals 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		
	Domestic ³	Foreign				
2002: ^P						
January - August	530,000	40,000	405,000 ^r	975,000 ^r	49,000 ^r	1,020,000 ^r
August	67,600	W	51,000	119,000	5,880	124,000
September	66,100	W	48,900	115,000	4,820	120,000
October	73,100	W	48,600	122,000	7,120	129,000
November	67,900	W	47,100	115,000	5,120	120,000
December	64,600	W	50,500	115,000	3,930	119,000
Year	801,000	40,000 ³	601,000	1,440,000	70,000	1,510,000
2003:						
January	69,800	W	49,900	120,000	4,500	124,000
February	60,500	W	45,900	106,000	3,910	110,000
March	60,700	W	52,000	113,000	5,680	118,000
April	46,600	W	47,400	94,000	6,150	100,000
May	46,100	W	50,400	96,500	4,050	101,000
June	53,400	W	49,600	103,000	4,890	108,000
July	57,900	W	49,500	107,000	4,900	112,000
August	55,900	W	50,600	107,000	4,680	111,000
January - August	451,000	W	395,000	846,000	38,800	885,000

^PPreliminary. ^rRevised. W Withheld to avoid disclosing company proprietary data; included in "Domestic."

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

²Based on source of material at smelter level.

³January-April only; excludes withheld data.

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	
2002: ^P									
January - August	26,100 ^r	22,900 ^r	18,500 ^r	62,800 ^r	487,000 ^r	13,200	15,800 ^r	27,400 ^r	673,000 ^r
August	3,400	2,480	2,310	7,850	64,300	1,570	1,980	3,420	87,300
September	2,940	1,870	2,310	7,850	63,800	1,190	1,980	3,420	85,400
October	3,390	3,720	2,310	7,850	54,100	1,080	1,980	3,420	77,900
November	2,110	3,010	2,310	7,850	54,500	2,110	1,980	3,420	77,300
December	1,980	1,950	2,310	7,850	56,900	1,110	1,980	3,420	77,500
Year	36,500	33,400	27,800	94,200	716,000	18,700	23,700	41,100	991,000
2003:									
January	1,410	3,080	2,310	7,850	63,000	1,470	1,980	3,420	84,500
February	1,210	2,700	2,310	7,850	54,200	1,270	1,980	3,420	74,900
March	1,340	4,340	2,310	7,850	55,400	732	1,980	3,420	77,400
April	1,340	4,810	2,310	7,850	53,100	1,380	1,980	3,420	76,200
May	1,340	2,710	2,310	7,850	54,000	1,310	1,980	3,420	75,000
June	1,340	3,550	2,310	7,850	56,000	1,200	1,980	3,420	77,600
July	1,340	3,560	2,310	7,850	52,300	1,140	1,980	3,420	73,900
August	1,340	3,340	2,310	7,850	54,400	996	1,980	3,420	75,600
January - August	10,600	28,100	18,500	62,800	442,000	9,500	15,800	27,400	615,000

^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 2002 cumulative data estimated based on 2001 annual data.

⁴Does not include an estimate, based on reported 2001 data, of 3,190 tons per month from new scrap and 2,010 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 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
2002: ^P						
January - August	995,000 ^r	1,170,000	999,000 ^r	1,180,000	XX	XX
August	128,000	148,000	128,000	152,000	50,400	21,500
September	124,000	145,000	122,000	148,000	53,200	18,600
October	127,000	158,000	125,000	155,000	55,800	20,900
November	114,000	138,000	116,000	129,000	53,400	28,900
December	106,000	108,000	103,000	108,000	56,200	29,000
Year	1,470,000	1,720,000	1,460,000	1,720,000	XX	XX
2003:						
January	119,000	140,000	120,000	139,000	55,200	29,500
February	110,000	133,000	110,000	132,000	55,600	30,200
March	115,000	139,000	114,000	132,000	59,700	37,300
April	115,000	127,000	115,000	127,000	59,500	37,200
May	111,000	125,000	112,000	129,000	58,200	33,400
June	114,000	126,000	114,000	125,000	57,700	34,800
July	110,000	123,000	113,000	126,000	54,900	31,400
August	113,000	137,000	113,000	138,000	54,500	30,400
January - August	906,000	1,050,000	911,000	1,050,000	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	Wire-rod mills	Brass mills	Other plants ²	Total
2002: ^P				
January - August ^r	1,160,000	405,000	39,600	1,610,000
August	152,000	51,400	4,950	209,000
September	143,000	50,900	4,950	199,000
October	151,000	50,200	4,950	206,000
November	142,000	46,300	4,950	193,000
December	113,000	40,600	4,950	159,000
Year	1,710,000	593,000	59,400	2,360,000
2003:				
January	137,000	47,200	4,950	189,000
February	140,000	49,600	4,950	195,000
March	142,000	50,000	4,950	197,000
April	129,000	49,500	4,950	184,000
May	133,000	49,900	4,950	188,000
June	130,000	50,400	4,950	185,000
July	122,000	49,500	4,950	176,000
August:				
Cathodes	144,000	37,200	1,140	182,000
Wire bars	--	--	(3)	(3)
Ingots and ingot bars	--	1,150	1,690	2,850
Cakes and slabs	--	(3)	(3)	(3)
Billets and other	W	10,400	2,120	12,600
Total	144,000	48,800	4,950	198,000
January - August	1,080,000	395,000	39,600	1,510,000

^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 2001 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
2002:^P						
January - July	857,000 ^r	123,000 ^r	650,000	20,200	89,500 ^r	1,520,000 ^r
July	125,000	17,700	83,500	7,690	13,500	205,000
August	119,000	17,400	98,200	2,550	(7,350)	239,000
September	115,000	16,400	64,000	1,320	(4,620)	199,000
October	122,000	18,100	91,500	606	(14,300)	245,000
November	115,000	18,400	74,900	506	6,190	202,000
December	115,000	16,400	83,000	1,460	4,580	208,000
Year	1,440,000	210,000	1,060,000	26,600	74,000	2,610,000
2003:						
January	120,000	17,900	61,500	2,540	(23,300)	220,000
February	106,000	17,300	64,700	766	(69,200)	257,000
March	113,000	18,400	52,500	1,510	2,950	179,000
April	94,000	19,500	52,200	606	(571)	166,000
May	96,500	17,300	56,000	15,900	(70,600)	224,000
June	103,000	18,100	51,500	23,000	(59,200)	209,000
July	107,000	18,000	40,700	5,080	(35,500)	196,000
August	107,000	17,600	NA	NA	(9,370)	NA
January - July	740,000	126,000	379,000	49,400	(255,000)	1,450,000

^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 2001 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	
2002:^P									
January - August	25,700 ^r	24,200 ^r	29,500 ^r	87,000 ^r	619,000 ^r	13,600	28,000 ^r	29,600 ^r	857,000 ^r
August	3,450	2,580	3,690	10,900	81,300	1,630	3,500	3,700	111,000
September	3,000	1,960	3,690	10,900	81,500	1,250	3,500	3,700	110,000
October	3,450	2,490	3,690	10,900	69,100	1,130	3,500	3,700	97,900
November	2,130	3,270	3,690	10,900	68,600	2,160	3,500	3,700	97,900
December	2,100	1,990	3,690	10,900	71,900	1,160	3,500	3,700	98,900
Year	36,400	33,900	44,300	131,000	910,000	19,300	42,000	44,400	1,260,000
2003:									
January	1,430	3,130	3,690	10,900	79,700	1,510	3,500	3,700	108,000
February	1,230	2,730	3,690	10,900	68,100	1,320	3,500	3,700	95,100
March	1,350	4,000	3,690	10,900	70,000	781	3,500	3,700	97,900
April	1,350	5,440	3,690	10,900	65,900	1,420	3,500	3,700	95,900
May	1,350	2,750	3,690	10,900	67,300	1,350	3,500	3,700	94,500
June	1,380	3,590	3,690	10,900	69,600	1,240	3,500	3,700	97,600
July	1,390	3,580	3,690	10,900	64,600	1,170	3,500	3,700	92,500
August	1,350	3,400	3,690	10,900	67,400	1,030	3,500	3,700	95,000
January - August	10,800	28,600	29,500	87,000	553,000	9,810	28,000	29,600	776,000

^PPreliminary. ^rRevised.

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

²Monthly data and 2002 cumulative data estimated from 2001 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	2002 ^p		2003		
	January - August	Year	July	August	January - August
No. 1 wire and heavy:					
Smelters and refiners	51,100 ^r	73,800 ^r	5,790	5,790	46,300
Brass and wire-rod mills	259,000 ^r	379,000	31,100	30,900	254,000
No. 2 mixed heavy and light:					
Smelters and refiners	29,800 ^r	43,000	3,060	2,840	24,200
Brass and wire-rod mills	4,070 ^r	6,630	357	620	3,760
Total unalloyed scrap:					
Smelters and refiners	81,000 ^r	117,000	8,850	8,630	70,500
Brass and wire-rod mills	263,000 ^r	386,000	31,400	31,500	258,000
Red brass:³					
All plants	35,900 ^r	53,100 ^r	4,170	4,440	34,400
Leaded yellow brass:					
All plants	231,000 ^r	340,000	22,700	24,800	208,000
Yellow and low brass:					
All plants	76,300 ^r	104,000	3,690	4,630	34,700
Cartridge cases and brass:					
Smelters and refiners	W	W	W	W	W
Brass mills	42,000 ^r	70,300	6,650	5,600	52,400
Auto radiators:					
Smelters and refiners	27,700 ^r	41,600 ^r	3,460	3,460	27,600
Bronzes:					
Smelters and refiners	7,780 ^r	11,700 ^r	973	973	7,850
Brass mills	8,420 ^r	12,600	443	380	3,650
Nickel-copper alloys:					
All plants	11,300 ^r	15,300	1,290	1,600	11,100
Low grade and residues:					
Smelters and refiners	9,340 ^r	14,000 ^r	1,170	1,170	9,640
Other alloy scrap:⁴					
Smelters and refiners ⁵	1,470 ^r	2,200 ^r	184 ^r	184	1,520
Brass mills	4,630 ^r	6,980	381	356	2,540
Total alloyed scrap:					
Smelters and refiners	85,600	128,000 ^r	10,700	10,700	86,100
Brass mills	370,000 ^r	544,000	34,400	36,900	307,000
Total scrap:					
Smelters and refiners	167,000 ^r	245,000 ^r	19,600	19,300	157,000
Brass and wire-rod mills	633,000 ^r	930,000	65,800	68,500	565,000

^pPreliminary. ^rRevised. W Withheld to avoid disclosing company proprietary data; included in "Other alloy scrap: Smelters and refiners."

¹Does not include: consumption by foundries, chemical plants, and miscellaneous manufacturers, estimated to total about 7,290 tons of scrap per month in 2001; monthly data include estimates of about 14,600 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.

⁵Includes items indicated by symbol W.

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		
2002: ^P								
August	81,500	12,100	24,600	28,800	3,600	341,000	628,000	1,040,000
September	76,700	11,600	27,100	26,600	3,600	344,000	621,000	1,030,000
October	76,500	10,600	29,300	22,600	3,600	346,000	607,000	1,020,000
November	76,300	14,400	21,200	32,700	3,600	347,000	607,000	1,030,000
December	44,400	11,700	23,000	28,700	3,600	362,000	601,000	1,030,000
2003:								
January	44,100	6,300	37,900	29,700	3,600	360,000	570,000	1,010,000
February	46,800	3,720	23,000	23,600	3,600	340,000	544,000	938,000
March	47,100	5,270	33,500	23,100	3,600	330,000	545,000	941,000
April	41,900	3,770	40,300	17,900	3,600	351,000	524,000	940,000
May	46,900	7,160	42,500	16,100	3,600	305,000	495,000	869,000
June	45,800	4,750	36,200	21,500	3,600	291,000	453,000	810,000
July	42,300	4,820	28,400	24,400	3,600	282,000	431,000	775,000
August	47,900	5,310	15,300	20,800	3,600	276,000	444,000	765,000

^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 2001 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
2002:			
August	71.981	67.823	67.097
September	71.863	67.705	67.057
October	72.319	68.161	67.286
November	76.729	72.571	71.758
December	76.541	72.383	72.365
Year	75.805	71.672	70.721
2003:			
January	79.529	75.371	74.722
February	81.121	76.963	76.360
March	79.875	75.717	75.234
April	76.365	72.176	71.988
May	78.020	75.045	74.746
June	79.716	76.926	76.484
July	82.245	78.055	77.549
August	84.165	79.995	79.826
January - August	80.130	76.281	75.864

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
2002:				
July	71.91	60.59	44.00	37.00
August	66.89	55.66	42.27	37.00
September	66.80	55.68	40.80	37.00
October	66.83	56.70	39.09	37.00
November	71.38	60.50	41.00	37.00
December	71.60	61.31	41.00	37.00
Year	70.23	59.45	42.36	37.00
2003:				
January	73.67	62.38	46.90	37.33
February	75.55	63.95	52.00	38.00
March	74.69	64.26	52.00	38.00
April	70.82	61.80	49.41	38.00
May	73.95	64.53	49.00	38.00
June	76.29	67.36	49.00	38.00
July	73.86	65.00	46.77	36.27
August	79.48	69.43	49.00	38.00
January - August	74.79	64.84	49.26	37.70

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			2003			2003			2003		
	2002	July	January - July	2002	July	January - July	2002	July	January - July	2002	July	January - July
Belgium	--	--	--	--	--	46	--	--	--	34	--	--
Brazil	--	--	--	--	--	--	--	(2)	(2)	45,000	--	2,010
Canada	8,350	--	86	75	30	68	83,700	1,040	45,800	235,000	10,500	108,000
Chile	51,800	--	4,940	--	--	--	37,400	7,600	28,400	245,000	42,200	211,000
Germany	--	--	--	--	--	59	(2)	--	--	3,260	219	4,620
Indonesia	2,910	--	--	--	--	--	--	--	--	--	--	--
Malaysia	--	--	--	17	--	2	--	--	--	--	--	--
Mexico	4	3	3	324	34	330	16,200	1,070	5,680	57,200	1,890	15,100
Namibia	--	--	--	--	--	--	6,340	--	9,310	--	--	--
Peru	5,960	--	--	--	--	--	4,730	--	--	288,000	18,700	151,000
Russia	--	--	--	--	--	--	--	--	--	28,800	--	--
Taiwan	17	--	--	621	34	328	--	--	--	10	--	--
Turkey	2,910	--	--	--	--	--	--	--	--	--	--	--
United Kingdom	--	--	--	--	--	--	2	(2)	(2)	3,410	--	10,100
Other	2	--	--	2 ¹	5	6	70	--	--	21,900	491	4,060
Total	71,900	3	5,030	1,040	103	839	148,000	9,710	89,100	927,000	74,000	506,000

-- 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		
	2003			2003			2003			2003		
	2002	July	January - July	2002	July	January - July	2002	July	January - July	2002	July	January - July
Australia	21	--	4	5	--	--	77	--	35	1,650	--	32
Belgium	42	--	82	12	--	39	179	--	--	--	--	2
Canada	17,500	908	6,710	2,560	230	2,520	17,700	1,960	9,900	3,130	200	1,400
China	1,110	58	188	63	30	132	515	12	382	14,900	2,970	39,700
Egypt	--	--	--	--	--	--	--	--	--	2,200	--	--
Germany	28	--	--	85	(2)	(2)	241	40	264	79	13	140
Hong Kong	25	2	26	160	--	--	2,600	178	1,470	38	7	23
India	9	--	--	153	1	170	83	--	69	825	21	838
Indonesia	--	--	13	--	--	--	99	3	83	--	--	--
Israel	--	--	55	3	--	4	44	4	40	19	--	(2)
Italy	--	--	--	--	--	--	208	20	116	56	--	17
Japan	36	27	99	1,330	(2)	25	40	--	84	48	2	198
Korea, Republic of	197	--	--	40	3	8	707	69	404	524	--	151
Malaysia	3	--	3	22	--	12	96	18	72	34	--	12
Mexico	2,620	48	210	12,400	577	7,160	38	20	179	135	860	4,450
Netherlands	38	--	--	35	--	1	1,100	--	--	16	--	--
Peru	1,230	--	214	39	--	--	--	--	--	--	--	--
Philippines	--	--	--	3	--	--	5,880	--	44	3	--	119
Singapore	60	--	2	(2)	--	(2)	614	20	262	7	7	38
Spain	--	--	18	4	--	(2)	259	--	300	6	--	5
Taiwan	80	--	11	104	--	--	1,000	20	559	1,630	983	1,980
United Kingdom	16	--	35	65	5	51	469	5	214	527	12	32
Other	51 ^r	20	104	50 ^r	--	70	951 ^r	47	187	749 ^r	11	271
Total	23,000	1,060	7,770	17,100	846	10,200	32,900	2,420	14,700	26,600	5,080	49,400

^rRevised. -- 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 16
U.S. COPPER SCRAP TRADE¹

(Metric tons, gross weight)

Country or territory	Imports						Exports					
	Unalloyed			Alloyed			Unalloyed			Alloyed		
	2003			2003			2003			2003		
	2002	July	January - July	2002	July	January - July	2002	July	January - July	2002	July	January - July
Barbados	229	14	142	18	--	--	--	--	--	--	--	--
Belgium	--	--	--	--	--	--	2,210	441	1,560	7,050	463	2,840
Canada	13,900	208	2,860	38,700	2,550	21,200	20,100	2,180	12,500	19,900	1,810	11,900
Chile	611	--	18	78	--	--	144	--	--	66	--	4
China	--	--	--	547	123	327	122,000	16,900	123,000	155,000	22,200	123,000
Costa Rica	1,100	76	471	458	19	206	--	--	--	2	--	6
Dominican Republic	1,360	121	699	884	62	456	--	--	--	--	--	4
El Salvador	106	8	41	167	74	358	--	--	--	--	--	--
France	--	--	--	117	18	49	1,830	205	205	2,450	353	1,740
Germany	118	--	9	1,110	655	2,160	14,200	209	4,960	16,400	509	5,100
Guatemala	536	34	300	1,190	100	579	--	--	--	(2)	--	--
Honduras	399	33	217	347	31	213	--	--	--	--	--	--
Hong Kong	3	--	--	--	--	--	7,180	193	1,140	6,140	774	4,930
India	--	--	--	(2)	--	--	3,920	517	3,470	43,500	3,780	28,900
Jamaica	362	44	384	239	13	79	--	--	--	--	--	--
Japan	97	7	50	193	16	261	11,000	658	4,440	9,120	981	6,180
Korea, Republic of	19	--	--	40	--	14	14,900	2,190	16,300	18,700	1,380	10,200
Malaysia	--	--	--	264	59	150	--	239	3,580	243	35	88
Mexico	9,250	663	4,370	18,300	1,660	10,200	2,280	417	1,490	248	--	538
Nicaragua	321	--	145	170	15	97	--	--	--	--	--	--
Norway	--	--	351	--	--	39	--	--	--	253	18	206
Taiwan	15	--	--	389	51	239	10,100	379	5,220	9,060	521	4,960
Trinidad and Tobago	190	19	102	103	6	41	--	--	--	--	--	--
United Kingdom	155	--	142	1,760	57	451	17	--	--	1,380	123	603
Venezuela	93	--	12	2,090	46	476	--	--	--	--	--	--
Other	374 ^r	22	135	3,690 ^r	123	1,590	2,820 ^r	320	2,160	8,140 ^r	377	3,300
Total	29,300	1,250	10,400	70,900	5,680	39,200	213,000	24,900	180,000	298,000	33,400	204,000

^rRevised. -- 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.