



Mineral Industry Surveys

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COPPER IN OCTOBER 2003

While mine and refinery production remained essentially unchanged in October, consumption of refined copper rose by almost 8% to the highest level in more than a year. The rise in copper use was driven by wire-rod mill cathode consumption,

which rose by about 10%. Wire-rod shipments rose about 8% and were about 2% higher than in October 2002. Year-to-date shipments through October, however, remained more than 8% below those for the same period in 2002.

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

(Metric tons, unless otherwise specified)

	Source table ²	2003			
		2002 ^p	September	October	January - October
Production:					
Primary:					
Mine, recoverable	(2)	1,140,000	93,800	96,600	930,000
Refinery:					
Electrolytic:					
Domestic	(4)	801,000	57,400	56,200	565,000
Foreign	(4)	40,000 ³	W	W	W
Electrowon	(4)	601,000	50,600	50,700	496,000
Total	(4)	1,440,000	108,000	107,000	1,060,000
Secondary recoverable copper:					
Refineries	(5)	69,900	4,220	4,490	45,100
Ingot makers ⁴	(5)	122,000	10,200	10,200	102,000
Brass and wire-rod mills	(5)	735,000	56,700	58,600	567,000
Foundries, et. ⁴	(5)	64,800	5,400	5,400	54,000
Smelter, total	(3)	683,000	46,000	44,100	444,000
Consumption:					
Apparent	(8)	2,610,000	196,000	NA	NA
Refined (reported)	(7)	2,360,000	195,000 ^r	211,000	1,920,000
Purchased copper-base scrap	(9)	1,260,000	96,400	99,500	969,000
Stocks at end of period:					
Total refined	(11)	1,030,000	751,000 ^r	693,000	XX
Blister, etc.	(11)	44,400	44,500	51,700	XX
Prices:					
U.S. producer cathode (cents per pound) ⁵	(12)	75.805	86.03	92.29	81.936
Imports:⁶					
Ores and concentrates ⁷	(14)	71,900	5,080	NA	NA
Refined	(14)	927,000	81,700	NA	NA
Exports:⁶					
Ores and concentrates ⁷	(15)	23,000	214	NA	NA
Refined	(15)	26,600	4,330	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 - October	638,000	312,000	950,000	503,000	460,000	963,000
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	97,300	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	98,100	49,500	50,100	99,600
August	63,400	31,400	94,800	50,600	45,400	95,900
September	59,800	34,000	93,800	50,600	44,300	94,900
October	62,900	33,700	96,600	50,700	46,900	97,600
January - October	620,000	310,000	930,000	496,000	445,000	942,000

^PPreliminary.

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 - October	569,000
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
September	46,000
October	44,100
January - October	444,000

^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 - October	669,000	40,000	503,000	1,210,000	60,900	1,270,000
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	4,130	107,000
July	57,900	W	49,500	107,000	4,140	111,000
August	55,900	W	50,600	107,000	3,920	110,000
September	57,400	W	50,600	108,000	4,220 ^r	112,000
October	56,200	W	50,700	107,000	4,500	111,000
January - October	565,000	W	496,000	1,060,000	45,200	1,110,000

^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 - October	32,400	28,400	23,100	78,500	605,000	15,500	19,800	34,200	837,000
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	2,790	2,310	7,850	56,000	1,200	1,980	3,420	76,900
July	1,340	2,800	2,310	7,850	52,200 ^r	1,140	1,980	3,420	73,000
August	1,340	2,580	2,310	7,850	54,100 ^r	996	1,980	3,420	74,600
September	1,340	2,880 ^r	2,310	7,850	55,400 ^r	1,370	1,980	3,420	76,500
October	1,340	3,160	2,310	7,850	57,200	1,360	1,980	3,420	78,600
January - October	13,300	31,800	23,100	78,500	554,000	12,200	19,800	34,200	768,000

^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 - October	1,250,000	1,480,000	1,250,000	1,480,000	XX	XX
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	107,000 ^r	123,000	110,000 ^r	126,000	54,800 ^r	31,400
August	111,000 ^r	140,000	112,000 ^r	142,000	53,500 ^r	29,900
September	117,000	142,000 ^r	118,000 ^r	147,000	52,700 ^r	24,900 ^r
October	120,000	156,000	119,000	159,000	53,700	21,600
January - October	1,140,000	1,350,000	1,140,000	1,360,000	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 - October	1,460,000	506,000	49,500	2,010,000
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	143,000 ^r	46,800 ^r	4,950	195,000 ^r
September	143,000 ^r	47,400 ^r	4,950	195,000 ^r
October:				
Cathodes	157,000	36,200	1,140	194,000
Wire bars	--	--	(3)	(3)
Ingots and ingot bars	--	1,150	1,690	2,850
Cakes and slabs	--	(3)	(3)	(3)
Billets and other	W	11,600	2,120	13,700
Total	157,000	48,900	4,950	211,000
January - October	1,380,000	489,000	49,500	1,920,000

^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 - September	1,090,000	157,000	812,000	24,000	77,500	1,960,000
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	17,300	51,500	23,000	(59,200)	208,000
July	107,000	17,200	40,700	5,080	(36,300) ^r	196,000
August	107,000	16,900	72,700	4,080	5,710 ^r	186,000 ^r
September	108,000	17,600	46,000	4,330	(29,200) ^r	196,000
October	107,000	17,800	NA	NA	(57,800)	NA
January - September	954,000	159,000	498,000	57,800	(280,000)	1,830,000

^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 - October	32,100	28,700	36,900	109,000	770,000	16,000	35,000	37,000	1,060,000
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	2,790	3,690	10,900	69,600	1,240	3,500	3,700	96,800
July	1,390	2,780	3,690	10,900	64,500 ^r	1,170	3,500	3,700	91,600 ^r
August	1,350	2,600	3,690	10,900	67,200 ^r	1,030	3,500	3,700	93,900 ^r
September	1,350	2,900 ^r	3,690	10,900	68,900	1,410	3,500	3,700	96,400
October	1,350	3,180	3,690	10,900	71,800	1,460	3,500	3,700	99,500
January - October	13,500	32,300	36,900	109,000	693,000	12,700	35,000	37,000	969,000

^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 - October	Year	September	October	January - October
No. 1 wire and heavy:					
Smelters and refiners	63,600 ^r	73,800	5,790	5,790	57,800
Brass and wire-rod mills	318,000 ^r	379,000	31,800	31,800	315,000
No. 2 mixed heavy and light:					
Smelters and refiners	36,000 ^r	43,000	2,340 ^r	2,620	26,800
Brass and wire-rod mills	5,550 ^r	6,630	564	510	4,830
Total unalloyed scrap:					
Smelters and refiners	99,600 ^r	117,000	8,130 ^r	8,420	84,600
Brass and wire-rod mills	324,000 ^r	386,000	32,400	32,300	320,000
Red brass:³					
All plants	44,900 ^r	53,100	4,250	4,370	42,900
Leaded yellow brass:					
All plants	289,000 ^r	340,000	25,700	27,300	261,000
Yellow and low brass:					
All plants	90,300 ^r	104,000	3,440	3,920	42,100
Cartridge cases and brass:					
Smelters and refiners	W	W	W	W	W
Brass mills	57,000 ^r	70,300	7,230	7,630	67,200
Auto radiators:					
Smelters and refiners	34,600 ^r	41,600	3,460	3,460	34,600
Bronzes:					
Smelters and refiners	9,730 ^r	11,700	973	973	9,730
Brass mills	10,500 ^r	12,600	396	424	4,470
Nickel-copper alloys:					
All plants	13,600 ^r	15,300	1,520	1,670	14,100
Low grade and residues:					
Smelters and refiners	11,700 ^r	14,000	1,170	1,170	11,700
Other alloy scrap:⁴					
Smelters and refiners ⁵	1,840 ^r	2,200	184	184	1,840
Brass mills	5,820 ^r	6,980	337	485	3,360
Total alloyed scrap:					
Smelters and refiners	107,000 ^r	128,000	10,700	10,700	107,000
Brass mills	462,000 ^r	544,000	37,900	40,900	386,000
Total scrap:					
Smelters and refiners	207,000 ^r	245,000	18,800 ^r	19,100	192,000
Brass and wire-rod mills	786,000 ^r	930,000	70,400 ^r	73,200	706,000

^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, zinc 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								
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	23,700 ^r	3,600	282,000	431,000	774,000 ^r
August	47,900	5,310	30,100 ^r	20,400 ^r	3,600	276,000	444,000	780,000 ^r
September	44,500	4,100	33,300 ^r	19,100 ^r	3,600	271,000	419,000	751,000 ^r
October	51,700	3,590	23,200	16,700	3,600	267,000	379,000	693,000

^PPreliminary. ^rRevised.

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:			
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
September	86.030	81.840	81.152
October	92.290	88.104	87.099
January - October	81.936	78.019	77.516

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:				
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
September	81.96	72.75	54.43	38.00
October	87.09	77.89	55.18	38.00
January - October	76.74	66.94	50.37	37.76

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	September	January - September	2002	September	January - September	2002	September	January - September	2002	September	January - September
Belgium	--	--	--	--	--	46	--	--	--	34	--	--
Brazil	--	--	--	--	--	--	--	--	(2)	45,000	3,700	6,510
Canada	8,350	--	86	75	67	152	83,700	7,790	60,000	235,000	18,100	144,000
Chile	51,800	--	4,940	--	--	--	37,400	5,820	34,200	245,000	45,200	287,000
Germany	--	--	--	--	--	59	(2)	--	--	3,260	245	4,960
Indonesia	2,910	--	--	--	--	--	--	--	--	--	--	--
Malaysia	--	--	--	17	--	2	--	--	--	--	--	--
Mexico	4	5080	5,080	324	51	416	16,200	694	7,320	57,200	3,340	19,900
Namibia	--	--	--	--	--	--	6,340	4,440	13,700	--	--	--
Peru	5,960	--	--	--	--	--	4,730	5	5	288,000	10,900	188,000
Russia	--	--	--	--	--	--	--	--	--	28,800	--	--
Taiwan	17	--	--	621	123	470	--	--	--	10	--	--
Turkey	2,910	--	--	--	--	--	--	--	--	--	--	--
United Kingdom	--	--	--	--	--	--	2	--	(2)	3,410	2	10,100
Other	2	--	--	2	--	6	70	--	--	21,900	180	4,800
Total	71,900	5,080	10,100	1,040	241	1,150	148,000	18,700	115,000	927,000	81,700	666,000

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	September	January - September	2002	September	January - September	2002	September	January - September	2002	September	January - September
Australia	21	--	4	5	--	--	77	--	42	1,650	--	32
Canada	17,500	205	6,970	2,560	936	3,760	17,700	1,550	12,400	3,130	282	1,750
China	1,110	--	194	63	--	132	515	74	486	14,900	5	39,800
Egypt	--	--	--	--	--	--	--	--	--	2,200	--	--
Germany	28	--	--	85	--	(2)	241	20	343	79	--	154
Hong Kong	25	--	26	160	(2)	(2)	2,600	215	1,970	38	--	29
India	9	--	--	153	--	175	83	--	88	825	65	966
Japan	36	--	99	1,330	--	25	40	--	84	48	11	214
Korea, Republic of	197	--	--	40	--	8	707	52	522	524	47	203
Mexico	2,620	6	216	12,400	183	7,570	38	--	241	135	3,860	12,100
Netherlands	38	--	--	35	--	1	1,100	--	--	16	--	--
Peru	1,230	--	214	39	--	--	--	--	--	--	--	--
Philippines	--	--	--	3	--	--	5,880	--	44	3	--	119
Singapore	60	3	6	(2)	--	4	614	24	331	7	5	53
Spain	--	--	18	4	--	(2)	259	--	359	6	--	5
Taiwan	80	--	11	104	--	--	1,000	135	794	1,630	--	1,980
United Kingdom	16	--	35	65	--	58	469	40	276	527	(2)	36
Other	96 ^r	--	258	87 ^r	5	134	1,580 ^r	5	728	858 ^r	53	434
Total	23,000	214	8,050	17,100	1,120	11,900	32,900	2,110	18,700	26,600	4,330	57,800

^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	September	January - September	2002	September	January - September	2002	September	January - September	2002	September	January - September
Barbados	229	13	175	18	--	4	--	--	--	--	--	--
Belgium	--	--	--	--	--	--	2,210	40	1,740	7,050	691	3,850
Canada	13,900	349	3,480	38,700	3,400	27,100	20,100	2,130	16,400	19,900	1,570	15,000
Chile	611	--	18	78	--	--	144	--	--	66	--	4
China	--	--	--	547	108	507	122,000	18,900	164,000	155,000	20,300	165,000
Costa Rica	1,100	75	635	458	25	278	--	--	--	2	--	6
Dominican Republic	1,360	91	850	884	78	586	--	--	--	--	--	4
Germany	118	--	15	1,110	456	3,180	14,200	191	6,090	16,400	357	6,210
Guatemala	536	39	361	1,190	66	726	--	--	--	(2)	--	--
Honduras	399	76	334	347	80	334	--	--	--	--	--	--
Hong Kong	3	--	--	--	--	--	7,180	323	1,900	6,140	833	6,640
India	--	--	--	(2)	--	18	3,920	591	4,500	43,500	3,020	35,500
Jamaica	362	44	472	239	--	97	--	--	--	--	--	--
Japan	97	5	66	193	--	261	11,000	372	5,280	9,120	919	7,960
Korea, Republic of	19	--	--	40	7	21	14,900	1,930	20,100	18,700	1,250	12,500
Malaysia	--	--	--	264	29	204	--	--	3,600	243	--	88
Mexico	9,250	1,330	6,640	18,300	1,760	13,500	2,280	407	2,160	248	--	538
Nicaragua	321	24	183	170	24	140	--	--	--	--	--	--
Norway	--	--	351	--	--	39	--	--	--	253	19	262
Panama	173	--	--	792	29	511	--	--	--	79	--	6
Taiwan	15	--	--	389	36	293	10,100	772	6,870	9,060	428	6,080
United Kingdom	155	20	181	1,760	125	631	17	--	--	1,380	--	680
Venezuela	93	62	95	2,090	68	744	--	--	--	--	--	--
Other	497 [†]	31	326	3,280	198	2,020	4,680	149	2,730	10,500	621	6,240
Total	29,300	2,160	14,200	70,900	6,480	51,200	213,000	25,800	236,000	298,000	30,000	267,000

[†]Revised. -- 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.