

Mineral Industry Surveys

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: dedelst@usgs.gov

Cindi M. Weatherington (Data)
Telephone: (703) 648-7980
Fax: (703) 648-7975
E-mail: cweatherington@usgs.gov

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

COPPER IN NOVEMBER 2006

Average daily mine production of copper in November fell slightly from that in October, according to data compiled by the U.S. Geological Survey. Smelter production and downstream production of electrolytic refined copper rose in November by 73% and 14%, respectively, following restart of smelters closed for maintenance. Consumption of refined copper and the combined production of brass- and wire-rod mill products fell by 7% and 5%, respectively, from the already low October levels.

Copper production at the Lisbon Valley Mine in Utah fell to only 709 metric tons in November (t) from 938 t in October. Heavy rains earlier in the month diluted leach solutions, and their supply of sulfuric acid was disrupted in October when Kennecott Utah Copper Corp. (Magna, UT) declared a *force majeure* on acid shipments following closure of its Garfield, UT, smelter for maintenance. The planned smelter closure had been extended from 45 to 63 days owing to “an increase in the scope of the work required.” The production shortfall at Lisbon Valley further delayed ramp up to “commercial production” of copper, which has taken place more slowly than the company had anticipated. At capacity, Lisbon Valley is projected to produce about 25,000 metric tons per year (t/yr) of electrowon cathode (Constellation Copper Corp., 2006a, b; Rio Tinto plc, 2006, p. 5).

At the beginning of December, Phelps Dodge Corp. (Phoenix, AZ) announced that its board of directors had given conditional approval to development of the “initial mining project” at the Tenke Fungurume copper/cobalt project in Katanga Province, Democratic Republic of Congo (DRC). Final approval was subject to obtaining governmental approval of agreements reached for supply of electric power. The project, owned by

Phelps Dodge (58%), Tenke Mining Corp. (25%) (Vancouver, British Columbia, Canada), and Gecamines (17%), the DRC state-owned mining company, is operated by Phelps Dodge. Significant progress reportedly has been made toward completing a final feasibility study and an environmental impact assessment. Construction work reportedly was progressing toward production of the first cathode by the end of 2008. Owing to a successful drilling program that confirmed reserve modeling, the feasibility study was being updated for a facility to produce more than 100,000 t/yr of electrowon cathode and about 8,000 t/yr of cobalt. The initial project will focus on 103 million metric tons of oxide reserves and was expected to have a 40-year life. Capital costs for the initial project were projected to be \$650 million. Phelps Dodge was responsible for providing 70% of the funding (Phelps Dodge Corp., 2006; Tenke Mining Corp., 2006).

References Cited

- Constellation Copper Corp., 2006a, Constellation Copper reports third quarter 2006 financial results: Denver, CO, Constellation Copper Corp. press release, November 9, 7 p.
- Constellation Copper Corp., 2006b, Update on copper production at Lisbon Valley Mine: Denver, CO, Constellation Copper Corp. press release, December 6, 1 p.
- Phelps Dodge Corp., 2006, Phelps Dodge conditionally approves Tenke Fungurume copper/cobalt mining project in the Democratic Republic of the Congo: Phoenix, AZ, Phelps Dodge Corp. news release, December 6, 1 p.
- Rio Tinto plc, 2006, Fourth quarter operational review: London, United Kingdom, Rio Tinto plc news release, January 17, 20 p.
- Tenke Mining Corp., 2006, Tenke Fungurume project update: Vancouver, British Columbia, Canada, Tenke Mining Corp. news release, Nov. 20, 2 p.

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

(Metric tons, unless otherwise specified)

	Source table ²	2006			
		2005 ^p	October	November	January - November
Production:					
Primary:					
Mine, recoverable	(2)	1,140,000	103,000 ^r	98,600	1,090,000
Refinery:					
Electrolytic:					
Domestic and foreign	(4)	654,000	41,800	47,700	616,000
Electrowon	(4)	554,000	44,300	43,000	485,000
Total	(4)	1,210,000	86,100	90,700	1,100,000
Secondary recoverable copper:					
Refineries	(5)	47,200	3,700	3,700	41,000
Ingot makers ³	(5)	89,500	7,460	7,460	82,000
Brass and wire-rod mills	(5)	697,000	57,200	54,100	670,000
Foundries, etc. ³	(5)	58,400	4,870	4,870	53,500
Smelter, total	(3)	523,000	18,700	32,300	448,000
Consumption:					
Apparent	(8)	2,400,000	173,000	NA	NA
Refined (reported)	(7)	2,270,000	155,000	144,000	1,990,000
Purchased copper-base scrap	(9)	1,130,000	93,400 ^r	88,600	1,070,000
Stocks at end of period:					
Total refined	(11)	65,900	113,000 ^r	155,000	XX
Blister, etc.	(11)	44,300	24,300	19,900	XX
Prices:					
U.S. producer cathode (cents per pound) ⁴	(12)	173.493	345.226	322.386	315.437
Imports:⁵					
Ores and concentrates ⁶	(14)	223	--	NA	NA
Refined	(14)	1,000,000	96,400	NA	NA
Exports:⁵					
Ores and concentrates ⁶	(15)	137,000	5,590	NA	NA
Refined	(15)	39,500	13,700	NA	NA

^pPreliminary. ^rRevised. NA Not available. XX Not applicable. -- Zero.

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 2005 cumulative data estimated based on 2004 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
2005: ^P						
January - November	632,000 ^r	412,000 ^r	1,040,000	506,000 ^r	554,000 ^r	1,060,000
November	52,800	34,100	86,900	45,800	42,300	88,100
December	57,500	38,300	95,800	48,000	49,200	97,200
Year	690,000	450,000	1,140,000	554,000	603,000	1,160,000
2006:						
January	55,900	36,600	92,600	43,000	51,300	94,300
February	52,700	34,400	87,100	39,600	49,200	88,800
March	60,800	44,400	105,000	45,300	62,000	107,000
April	58,900	39,000	97,900	44,400	55,400	99,900
May	62,000	43,800	106,000	47,900	60,400	108,000
June	60,500	41,000	101,000	45,800	57,600	103,000
July	60,400	42,600	103,000	45,500	59,600	105,000
August	59,900	40,600	100,000	43,700	58,700	102,000
September	59,300	38,900	98,200	42,800	57,400	100,000
October	59,600	43,600 ^r	103,000 ^r	44,300 ^r	61,000 ^r	105,000 ^r
November	59,500	39,000	98,600	43,000	57,500	101,000
January - November	650,000	444,000	1,090,000	485,000	630,000	1,120,000

^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
2005: ^P	
January - November	481,000 ^r
November	47,500
December	42,200
January - December	523,000
2006:	
January	47,500
February	47,900
March	45,800
April	45,900
May	51,000
June	38,100
July	42,500
August	45,100
September	33,200
October	18,700
November	32,300
January - November	448,000

^PPreliminary. ^rRevised.

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		
2005: ^p					
January - November	591,000	506,000 ^r	1,100,000	43,300 ^r	1,140,000
November	58,700	45,800	105,000	3,760	108,000
December	63,100	48,000	111,000	3,880	115,000
Year	654,000	554,000	1,210,000	47,200	1,260,000
2006:					
January	53,000	43,000	96,000	3,820	99,900
February	57,300	39,600	96,900	3,720	101,000
March	68,400	45,300	114,000	3,770	117,000
April	60,800	44,400	105,000	3,700	109,000
May	61,500	47,900	109,000	3,730	113,000
June	64,600	45,800	110,000	3,700	114,000
July	51,300	45,500	96,800	3,700	100,000
August	53,800	43,700	97,500	3,700	101,000
September	55,400	42,800	98,200	3,770	102,000
October	41,800	44,300	86,100	3,700	89,800
November	47,700	43,000	90,700	3,700	94,400
January - November	616,000	485,000	1,100,000	41,000	1,140,000

^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	
2005: ^p									
January - November	14,700	28,600 ^r	23,500 ^r	58,500 ^r	612,000	28,300	22,400 ^r	31,100 ^r	820,000 ^r
November	1,340	2,420	2,140	5,320	57,300	1,410	2,040	2,830	74,800
December	1,340	2,550	2,140	5,320	54,500	1,490	2,040	2,830	72,200
Year	16,000	31,200	25,700	63,800	667,000	29,800	24,500	33,900	892,000
2006:									
January	1,340	2,480	2,140	5,320	63,500	1,460	2,040	2,830	81,100
February	1,340	2,390	2,140	5,320	58,300	496	2,040	2,830	74,900
March	1,340	2,430	2,140	5,320	62,700	1,560	2,040	2,830	80,400
April	1,340	2,370	2,140	5,320	60,700	1,060	2,040	2,830	77,800
May	1,340	2,400	2,140	5,320	62,900	1,840	2,040	2,830	80,800
June	1,340	2,370	2,140	5,320	63,000	1,400	2,040	2,830	80,400
July	1,340	2,370	2,140	5,320	59,400	697	2,040	2,830	76,100
August	1,340	2,370	2,140	5,320	60,800	838	2,040	2,830	77,700
September	1,340	2,440	2,140	5,320	57,200 ^r	772 ^r	2,040	2,830	74,000 ^r
October	1,340	2,370	2,140	5,320	56,400 ^r	764 ^r	2,040	2,830	73,200 ^r
November	1,340	2,370	2,140	5,320	53,200	824	2,040	2,830	70,100
January - November	14,700	26,300	23,500	58,500	658,000	11,700	22,400	31,100	846,000

^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 2005 cumulative data estimated based on 2004 annual data.

⁴Does not include an estimate, based on reported 2004 data of 3,100 tons per month from new scrap and 2,000 tons per month 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
2005: ^P						
January - November	1,270,000	1,570,000 ^r	1,280,000	1,570,000	XX	XX
November	118,000	134,000	119,000	136,000	44,900	25,400
December	104,000	131,000	101,000	128,000	47,900	25,100
Year	1,370,000	1,700,000	1,380,000	1,700,000	XX	XX
2006:						
January	112,000	155,000	111,000	148,000	48,800	32,100
February	114,000	125,000	114,000	133,000	48,500	22,000
March	117,000	143,000	118,000	144,000	49,900	21,100
April	115,000	137,000	115,000	139,000	49,100	21,300
May	120,000	145,000	122,000	149,000	47,300	20,700
June	118,000	144,000	117,000	144,000	48,500	20,200
July	101,000	135,000	104,000	133,000	45,700	22,700
August	112,000	137,000	112,000	135,000	46,000	24,700
September	106,000 ^r	137,000	107,000 ^r	131,000	45,200 ^r	31,200
October	110,000 ^r	116,000 ^r	108,000 ^r	121,000 ^r	47,300	25,500 ^r
November	101,000	113,000	100,000	111,000	48,000	28,000
January - November	1,230,000	1,490,000	1,230,000	1,490,000	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
2005: ^P				
January - November	487,000	1,550,000	56,700	2,100,000
November	42,900	135,000	5,160	183,000
December	41,200	126,000	5,160	173,000
Year	528,000	1,680,000	61,900	2,270,000
2006:				
January	44,300	159,000	5,160	209,000
February	42,600	125,000	5,160	172,000
March	45,000	135,000	5,160	185,000
April	42,800	141,000	5,160	189,000
May	47,200	147,000	5,160	199,000
June	41,500	148,000	5,160	195,000
July	37,200	139,000	5,160	182,000
August	38,300	139,000	5,160	182,000
September	38,500	136,000	5,160	180,000
October	39,900	110,000	5,160	155,000
November:				
Cathodes	25,200	103,000	954	129,000
Wire bars	--	--	(3)	(3)
Ingots and ingot bars	2,040	--	2,130	4,160
Cakes and slabs	(3)	--	(3)	(3)
Billets and other	8,950	--	2,080	11,000
Total	36,200	103,000	5,160	144,000
January - November	453,000	1,480,000	56,700	1,990,000

^PPreliminary. -- Zero.

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

²Consumption by ingot makers, chemical plants, foundries, and miscellaneous manufacturers is estimated based on 2004 annual data.

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

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
2005: ^P						
January - November	1,100,000 ^r	167,000	875,000 ^r	36,500 ^r	(75,600) ^r	2,180,000 ^r
November	105,000	13,800	99,700	1,760	(4,780)	221,000
December	111,000	14,000	102,000	3,020	4,960	219,000
Year	1,210,000	181,000	977,000	39,500	(70,700)	2,400,000
2006:						
January	96,000	14,000	111,000	5,600	16,200	200,000
February	96,900	12,900	108,000	7,320	24,200	187,000
March	114,000	14,000	80,100	6,780	2,420	199,000
April	105,000	13,400	69,100	9,600	(18,500)	197,000
May	109,000	14,200	100,000	6,270	(2,850)	220,000
June	110,000	13,800	94,100	13,100	(11,000)	216,000
July	96,800	13,100	91,400	6,010	8,610	187,000
August	97,500	13,200	101,000	9,560	5,610	197,000
September	98,200	13,200	106,000	9,330	13,700 ^r	195,000
October	86,100	13,100 ^r	96,400	13,700	9,020 ^r	173,000
November	106,000	13,200	NA	NA	41,400	NA
January - November	1,120,000	148,000	NA	NA	88,800	NA

^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 2004 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	
2005: ^P									
January - November	14,900 ^r	29,100 ^r	36,800 ^r	84,000 ^r	774,000	30,000	39,000 ^r	35,000 ^r	1,040,000 ^r
November	1,350	2,580	3,350	7,640	71,600	1,530	3,550	3,180	94,700
December	1,350	2,570	3,350	7,640	68,000	1,640	3,550	3,180	91,300
Year	16,200	31,700	40,200	91,700	842,000	31,600	42,600	38,200	1,130,000
2006:									
January	1,350	2,790	3,350	7,640	79,400	1,590	3,550	3,180	103,000
February	1,350	2,670	3,350	7,640	72,900	659	3,550	3,180	95,300
March	1,350	2,670	3,350	7,640	78,500	1,730	3,550	3,180	102,000
April	1,350	2,670	3,350	7,640	75,500	1,070	3,550	3,180	98,300
May	1,350	2,670	3,350	7,640	78,300	1,850	3,550	3,180	102,000
June	1,350	2,670	3,350	7,640	78,900	1,410	3,550	3,180	102,000
July	1,350	2,670	3,350	7,640	73,000	704	3,550	3,180	95,400
August	1,350	2,670	3,350	7,640	76,600	847	3,550	3,180	99,100
September	1,350	2,670	3,350	7,640	71,800 ^r	780 ^r	3,550	3,180	94,400 ^r
October	1,350	2,670	3,350	7,640	70,900 ^r	772 ^r	3,550	3,180	93,400 ^r
November	1,350	2,670	3,350	7,640	66,000	832	3,550	3,180	88,600
January - November	14,900	29,400	36,800	84,000	822,000	12,200	39,000	35,000	1,070,000

^PPreliminary. ^rRevised.

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

²Monthly data and 2005 cumulative data estimated from 2004 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	2005 ^p		2006			
	January - November	Year	September	October	November	January - November
No. 1 wire and heavy:						
Smelters and refiners	53,700 ^r	58,900	5,240	5,240	5,240	57,700
Brass and wire-rod mills	350,000	382,000	31,200 ^r	31,000 ^r	30,600	372,000
No. 2 mixed heavy and light:						
Smelters and refiners	23,500 ^r	25,200	1,590	1,510	1,510	17,000
Brass and wire-rod mills	5,080	5,260	1,200	1,140	1,220	12,700
Total unalloyed scrap:						
Smelters and refiners	77,200 ^r	84,100	6,830	6,760	6,760	74,700
Brass and wire-rod mills	355,000	387,000	32,400 ^r	32,100 ^r	31,800	385,000
Red brass: ³						
All plants	37,200 ^r	40,700	3,150	3,100	3,150	35,800
Leaded yellow brass:						
All plants	176,000 ^r	191,000	15,600	14,700	14,100	172,000
Yellow and low brass:						
All plants	161,000	175,000	14,500	15,200	11,700	165,000
Cartridge cases and brass:						
All plants	87,900 ^r	94,500	8,080	7,800	7,500	87,200
Auto radiators:						
Smelters and refiners	22,900 ^r	25,000	2,080	2,080	2,080	22,900
Bronzes:						
Smelters and refiners	10,200 ^r	11,100	925	925	925	10,200
Brass mills	5,260 ^r	5,790	575	501	660	6,610
Nickel-copper alloys:						
All plants	16,800 ^r	18,200	1,550	1,500	1,160	17,500
Low grade and residues:						
Smelters and refiners	32,300 ^r	35,300	2,940	2,940	2,940	32,300
Other alloy scrap: ⁴						
Smelters and refiners	1,030 ^r	1,130	94	94	94	1,030
Brass mills	5,500 ^r	6,000	500	500	500	5,500
Total alloyed scrap:						
Smelters and refiners	105,000 ^r	115,000	9,590	9,590	9,590	105,000
Brass mills	451,000 ^r	488,000	40,400	39,800	35,200	451,000
Total scrap:						
Smelters and refiners	183,000 ^r	199,000	16,400	16,300	16,300	180,000
Brass and wire-rod mills	806,000 ^r	876,000	72,800 ^r	71,900 ^r	67,000	836,000

^pPreliminary. ^rRevised.

¹Does not include: consumption by foundries, chemical plants, and miscellaneous manufacturers, estimated to total about 6,730 tons of scrap per month based on 2004 annual data; monthly data include estimates of about 11,000 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.

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		
2005:^p								
November	42,900	6,210	18,400	23,400	5,750	3,340	3,830	60,900
December	44,300	8,190	20,400	24,500	5,750	6,180	800	65,900
2006:								
January	17,300	11,200	26,800	27,800	5,750	10,600	25	82,100
February	21,700	14,500	28,600	29,900	5,750	27,600	--	106,000
March	15,200	13,300	27,700	28,100	5,750	32,000	1,880	109,000
April	18,800	7,690	28,400	31,700	5,750	15,500	1,080	90,200
May	40,600	10,000	30,300	31,400	5,750	9,540	350	87,300
June	18,600	5,400	24,400	32,700	5,750	7,900	225	76,400
July	23,900	6,520	31,600	34,300	5,750	6,760	--	85,000
August	20,500	9,030	24,800	38,600	5,750	12,400	--	90,600
September	27,300	9,490	30,500	36,400 ^r	5,750	20,400	1,800	104,000 ^r
October	24,300	11,900	24,400	33,700 ^r	5,750	23,200	14,300	113,000 ^r
November	19,900	14,700	30,100	35,800	5,750	31,600	36,700	155,000

^pPreliminary. ^rRevised. -- Zero.

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 2004 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
2005:			
November	206.396	201.130	193.622
December	222.511	217.245	207.569
Year	173.493	168.227	166.837
2006:			
January	224.000	218.258	214.716
February	230.905	225.079	225.965
March	238.235	232.409	231.438
April	302.679	296.853	289.673
May	381.687	375.861	364.874
June	345.474	339.648	326.400
July	368.147	362.321	349.740
August	358.887	353.061	348.985
September	352.184	346.385	344.768
October	345.226	339.400	340.164
November	322.386	316.560	318.786
January - November	315.437	309.621	305.046

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	Dealers (New York)			
	Brass mills No. 1 scrap	Refiners No. 2 scrap	No. 2 Scrap	Red brass turnings and borings
2005:				
November	183.70	168.10	99.00	65.00
December	201.59	179.59	117.91	74.07
Year	153.46	137.28	95.92	61.10
2006:				
January	208.32	188.91	125.00	82.50
February	221.85	206.90	125.00	82.50
March	229.26	225.24	170.00	77.50
April	283.85	257.95	170.00	77.50
May	355.17	322.74	170.00	77.50
June	310.98	279.19	192.62	121.10
July	333.43	273.15	197.35	118.20
August	328.30	265.84	210.05	125.32
September	320.65	282.05	208.10	125.30
October	315.34	285.23	216.09	129.27
November	298.18	272.48	216.50	126.85
January - November	291.39	259.97	181.88	103.96

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		
	2006			2006			2006			2006		
	2005	October	January - October	2005	October	January - October	2005	October	January - October	2005	October	January - October
Austria	--	--	--	--	--	--	--	--	--	3,360	--	1,510
Brazil	--	--	--	--	--	--	10	--	--	30,500	994	20,200
Canada	2	--	191	138	60	500	86,500	7,930	73,300	296,000	26,900	223,000
Chile	--	--	--	--	--	--	41,700	7,520	64,700	429,000	46,200	471,000
Finland	--	--	--	--	--	--	65	76	860	2,910	--	--
Germany	--	--	--	--	--	(2)	12	8	8	24,900	218	22,800
Japan	--	--	--	--	--	--	(2)	--	(2)	5,340	307	5,300
Kazakhstan	--	--	--	--	--	--	--	--	--	6,300	6,540	45,900
Mexico	221	--	--	37	--	17	3,870	268	2,550	28,900	1,400	17,100
Peru	--	--	--	--	--	--	--	--	--	154,000	13,800	144,000
Taiwan	--	--	--	1,180	89	958	--	--	--	--	--	--
Other	--	--	1	287	9	113	16	--	21	23,200	86	7,930
Total	223	--	192	1,640	158	1,590	132,000	15,800	141,000	1,000,000	96,400	958,000

-- Zero.

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

²Less than ½ 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 ²			Matte, ash and precipitates			Blister and anodes			Refined		
	2006			2006			2006			2006		
	2005	October	January - October	2005	October	January - October	2005	October	January - October	2005	October	January - October
Australia	--	--	--	11	--	1,840	43	12	55	67	--	64
Belgium	41	--	--	37	--	74	724	51	427	49	--	--
Canada	18,300	2,050	18,400	30,900	6,950	63,200	20,500	457	4,170	2,070	11,400	66,700
China	75,700	2,830	22,100	9,650	158	5,880	343	20	340	19,000	883	8,690
Costa Rica	3	--	--	(3)	--	7	1	--	--	2	1	11
Germany	--	--	--	93	--	2	779	110	1,020	182	--	112
Hong Kong	2	--	--	1	4	6	3,190	317	3,190	7	22	44
India	149	--	5,200	1	--	3	58	10	171	6,650	486	3,910
Japan	28,700	--	12,400	70	--	2	2,230	162	629	5	--	(2)
Korea, Republic of	1	--	2,980	32	--	11	464	72	787	132	20	83
Mexico	6,380	716	12,500	682	4,980	13,000	2,660	24	331	9,860	189	5,180
Saudi Arabia	--	--	--	--	--	--	11	--	--	11	--	93
Singapore	19	--	--	20	14	44	491	42	381	13	8	8
Spain	1,730	--	104	--	--	--	203	--	140	--	--	43
Sweden	--	1	1	--	--	--	3,190	--	1,820	--	162	164
Taiwan	15	--	16	14	(3)	10	1,680	180	1,350	180	--	191
Other	5,600	--	43	338	109	1,250	4,950	89	1,710	1,300	579	1,970
Total	137,000	5,590	73,800	41,800	12,200	85,400	41,600	1,550	16,500	39,500	13,700	87,300

-- Zero.

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

²Data for 2006 adjusted by U.S. Geological Survey to reflect estimated copper content.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 16
U.S. COPPER SCRAP IMPORTS¹

(Metric tons, gross weight)

Country or territory	Unalloyed			Alloyed		
	2006			2006		
	2005	October	January - October	2005	October	January - October
Brazil	--	--	--	276	20	201
Canada	9,080	560	6,330	47,700	3,630	38,100
China	--	--	1	120	2	543
Costa Rica	2,020	136	1,490	495	189	1,270
Germany	85	2	34	76	--	1
Guatemala	79	26	144	1,500	147	1,900
Honduras	1,910	77	1,540	651	75	667
Jamaica	269	20	266	125	16	118
Japan	70	--	86	135	(2)	32
Mexico	13,300	587	5,870	24,800	2,630	24,900
Nicaragua	831	91	742	573	41	385
Russia	--	--	--	--	--	101
Singapore	--	--	--	102	8	324
Taiwan	2	--	--	348	--	215
United Kingdom	258	33	163	925	26	570
Other	2,150	2,130	4,790	5,850	486	10,400
Total	30,100	3,670	21,500	83,700	7,270	79,700

-- Zero.

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

²Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 17
U.S. COPPER SCRAP EXPORTS¹

(Metric tons, gross weight)

Country or territory	Unalloyed							Alloyed				
	2005	2006						2005	2006			
		No. 1		No. 2		Other			Segregated		Unsegregated	
		October	January - October	October	January - October	October	January - October		October	January - October	October	January - October
Belgium	644	20	176	--	22	--	898	6,890	384	1,670	418	9,060
Canada	27,900	--	--	--	--	9,170	66,500	13,900	1,790	12,700	2,340	23,600
China	265,000	7,320	40,200	11,000	101,000	9,180	63,100	182,000	15,500	111,000	11,600	90,700
Germany	10,600	330	2,220	364	807	1,780	9,110	9,990	734	6,140	363	7,870
Hong Kong	9,200	20	196	882	2,850	224	681	12,800	103	822	946	8,410
India	4,460	--	220	21	21	39	946	15,800	395	8,510	--	781
Japan	6,710	138	856	73	343	748	4,630	7,950	630	5,620	206	1,250
Korea, Republic of	27,200	562	8,190	138	3,000	474	7,300	10,200	959	10,100	113	411
Mexico	1,010	20	181	--	--	152	213	1,570	--	703	230	5,770
Spain	145	1	10	--	59	--	118	5,580	130	294	--	7,940
Taiwan	11,600	1,420	4,150	2,240	8,660	460	2,550	10,600	2,000	8,320	--	65
Thailand	874	--	--	--	--	--	178	475	--	225	--	--
United Kingdom	276	--	1	--	4	--	80	3,440	39	402	--	--
Other	1,120	33	1,090	--	90	57	1,230	10,200	161	2,710	448	6,170
Total	366,000	9,870	57,500	14,700	117,000	22,300	158,000	291,000	22,800	169,000	16,700	162,000

-- Zero.

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

Source: U.S. Census Bureau.