

# 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: dedelste@usgs.gov

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

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

## **COPPER IN JULY THROUGH DECEMBER 2008**

Mine production of copper in 2008 rose by about 12% [140,000 metric tons (t)] compared with that in 2007, according to data compiled by the U.S. Geological Survey, as the result of the startup of two new major mine projects and expanded production at several other mines. Despite the increase in mine production, downstream smelter and refinery production fell by 7% and 3%, respectively, owing to smelter maintenance shutdowns and increased exports of copper concentrates.

Copper prices, which reached record-high levels in April, remained high through the first 9 months of the year, with the COMEX price averaging \$3.59 per pound of copper during this period. With the onset of the economic crisis during the fourth

quarter, prices fell sharply, and the COMEX price averaged only \$1.39 per pound in December. Copper consumption, which declined slightly for the first 9 months of 2008 compared with that of the same period in 2007, plummeted in the fourth quarter of 2008 resulting in a 5% drop in full-year consumption. Prior to the sharp price decline, mine production of copper had been anticipated to rise by more than 200,000 t in 2009. As a result of significant revisions to mine plans announced by several producers at yearend and the closure of one of the mines opened during 2008, production was expected to decline by about 100,000 t in 2009 from that in 2008.

TABLE 1  
SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES<sup>1</sup>

(Metric tons, unless otherwise specified)

	Source table <sup>2</sup>	2008			
		2007	July	August	September
Production:					
Primary:					
Mine, recoverable	(2)	1,170,000	115,000	115,000	115,000
Refinery:					
Electrolytic:					
Domestic and foreign	(4)	764,000	50,300	55,700	58,900
Electrowon	(4)	504,000	43,400	46,600	44,300
Total	(4)	1,270,000	93,700	102,000	103,000
Secondary recoverable copper:					
Refineries	(5)	46,000	4,280	4,450	4,290
Ingot makers <sup>3</sup>	(5)	90,400	7,530	7,530	7,530
Brass and wire-rod mills	(5)	670,000	52,000	50,500	51,800
Foundries, etc. <sup>3</sup>	(5)	44,400	3,700	3,700	3,700
Smelter, total	(3)	617,000	45,800	39,400	44,700
Consumption:					
Apparent	(8)	2,270,000	175,000	180,000	152,000
Refined (reported)	(7)	2,140,000	164,000	182,000	164,000
Purchased copper-base scrap	(9)	1,070,000	84,700	83,500	85,000
Stocks at end of period:					
Total refined	(11)	133,000	69,700	91,100	109,000
Blister, etc.	(11)	26,300	16,000	10,800	11,800
Prices, U.S. producer cathode (cents per pound) <sup>4</sup>	(12)	328.002	381.765	349.211	320.119
Imports: <sup>5</sup>					
Ores and concentrates <sup>6</sup>	(14)	841	39	82	15
Refined	(14)	829,000	77,500	86,900	54,500
Exports: <sup>5</sup>					
Ores and concentrates <sup>6</sup>	(15)	134,000	26,800	29,300	19,200
Refined	(15)	51,100	2,040	2,020	1,540

See footnotes at end of table.

TABLE 1—Continued  
SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES<sup>1</sup>

(Metric tons, unless otherwise specified)

	Source table <sup>2</sup>	2008			January- December
		October	November	December	
Production:					
Primary:					
Mine, recoverable	(2)	118,000	113,000	113,000	1,310,000
Refinery:					
Electrolytic:					
Domestic and foreign	(4)	56,900	58,400	65,100	718,000
Electrowon	(4)	48,800	43,800	43,500	508,000
Total	(4)	106,000	102,000	109,000	1,230,000
Secondary recoverable copper:					
Refineries	(5)	4,630	4,630	4,630	53,200
Ingot makers <sup>3</sup>	(5)	7,530	7,530	7,530	90,400
Brass and wire-rod mills	(5)	48,900	39,800	39,400	601,000
Foundries, etc. <sup>3</sup>	(5)	3,700	3,700	3,700	44,400
Smelter, total	(3)	55,900	52,700	58,500	574,000
Consumption:					
Apparent	(8)	158,000	138,000	139,000	2,020,000
Refined (reported)	(7)	166,000	136,000	117,000	2,020,000
Purchased copper-base scrap	(9)	81,700	68,300	67,500	991,000
Stocks at end of period:					
Total refined	(11)	118,000	146,000	190,000	XX
Blister, etc.	(11)	14,100	16,300	19,800	XX
Prices, U.S. producer cathode (cents per pound) <sup>4</sup>	(12)	224.391	174.323	144.624	319.163
Imports: <sup>5</sup>					
Ores and concentrates <sup>6</sup>	(14)	25	1	16	640
Refined	(14)	49,700	51,000	61,700	724,000
Exports: <sup>5</sup>					
Ores and concentrates <sup>6</sup>	(15)	21,900	34,300	26,100	301,000
Refined	(15)	3,210	1,740	1,600	36,500

XX Not applicable.

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

<sup>2</sup>Numbers in parentheses refer to the significant tables where these data are located.

<sup>3</sup>Monthly data estimated based on 2007 monthly average.

<sup>4</sup>Source: Platts Metals Week.

<sup>5</sup>Source: U.S. Census Bureau.

<sup>6</sup>Copper content.

TABLE 2  
MINE PRODUCTION OF RECOVERABLE COPPER IN THE UNITED STATES<sup>1</sup>

(Metric tons)

Period	Recoverable copper			Contained copper		
	Arizona	Others <sup>2</sup>	Total	Electrowon	Concentrates <sup>3</sup>	Total
2007:						
December	59,200	37,900	97,100	39,600	59,800	99,500
Year	731,000	438,000	1,170,000	504,000	690,000	1,190,000
2008:						
January	63,000	35,600	98,700	41,200	59,400	101,000
February	57,900	36,300	94,200	36,400	59,700	96,100
March	64,700	34,100	98,800	41,800	58,700	101,000
April	68,000	39,700	108,000	39,600	70,300	110,000
May	68,700	39,700	108,000	39,200	71,500	111,000
June	67,900	43,100	111,000	39,200	74,200	113,000
July	71,200	44,200	115,000	43,400	74,500	118,000
August	74,700	40,600	115,000	46,600	70,900	117,000
September	72,900	41,700	115,000	44,300	72,600	117,000
October	78,400	39,800	118,000	48,800	71,800	121,000
November	73,100	39,600	113,000	43,800	70,700	114,000
December	75,700	37,600	113,000	43,500	72,100	116,000
January-December	836,000	472,000	1,310,000	508,000	827,000	1,330,000

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

<sup>2</sup>Includes production from Idaho, Missouri, Montana, Nevada, New Mexico, and Utah.

<sup>3</sup>Includes copper content of precipitates and other metal concentrates.

TABLE 3  
COPPER PRODUCED AT SMELTERS IN  
THE UNITED STATES, BY SOURCE<sup>1,2</sup>

(Metric tons, copper content)

Period	Anode production
2007:	
December	49,500
Year	617,000
2008:	
January	47,500
February	46,000
March	39,000
April	50,400
May	49,600
June	44,400
July	45,800
August	39,400
September	44,700
October	55,900
November	52,700
December	58,500
January-December	574,000

<sup>1</sup>Includes blister, anode and copper from primary or secondary sources.

<sup>2</sup>Data are rounded to no more than three significant digits; may not add to total shown.

TABLE 4  
PRODUCTION OF REFINED COPPER, BY SOURCE AND METHOD OF RECOVERY<sup>1</sup>

(Metric tons)

Period	Primary materials			Scrap	Total refined
	Electrolytically refined <sup>2</sup>	Electrowon	Total		
2007:					
December	59,600	39,600	99,200	3,480	103,000
Year	764,000	504,000	1,270,000	46,000	1,310,000
2008:					
January	64,300	41,200	106,000	4,110	110,000
February	66,100	36,400	102,000	4,160	107,000
March	62,300	41,800	104,000	4,120	108,000
April	58,100	39,600	97,700	4,330	102,000
May	63,700	39,200	103,000	4,630	107,000
June	58,200	39,200	97,400	4,950	102,000
July	50,300	43,400	93,700	4,280	98,000
August	55,700	46,600	102,000	4,450	107,000
September	58,900	44,300	103,000	4,290	108,000
October	56,900	48,800	106,000	4,630	110,000
November	58,400	43,800	102,000	4,630	107,000
December	65,100	43,500	109,000	4,630	113,000
January-December	718,000	508,000	1,230,000	53,200	1,280,000

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

<sup>2</sup>From domestic and foreign source materials.

TABLE 5  
COPPER RECOVERABLE IN UNALLOYED AND ALLOYED FORM FROM PURCHASED COPPER-BASE SCRAP<sup>1</sup>

(Metric tons, copper content)

Period	Refineries <sup>2</sup>		Ingot makers <sup>3</sup>		Brass and wire-rod mills		Foundries, etc. <sup>3</sup>		Total <sup>4</sup>
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2007:									
December	2,110	2,150	1,250	6,280	54,500	742	1,900	1,800	70,700
Year	23,600	22,500	15,000	75,400	661,000	8,710	22,800	21,600	851,000
2008:									
January	2,110	2,000	1,250	6,280	53,000	1,420	1,900	1,800	69,800
February	2,110	2,050	1,250	6,280	50,500	1,420	1,900	1,800	67,300
March	2,090	2,030	1,250	6,280	52,700	1,420	1,900	1,800	69,500
April	2,250	2,090	1,250	6,280	51,400	1,420	1,900	1,800	68,300
May	2,520	2,110	1,250	6,280	51,900	1,420	1,900	1,800	69,100
June	2,630	2,320	1,250	6,280	51,000	1,420	1,900	1,800	68,600
July	2,110	2,180	1,250	6,280	50,600	1,420	1,900	1,800	67,500
August	2,110	2,340	1,250	6,280	49,100	1,420	1,900	1,800	66,200
September	2,110	2,180	1,250	6,280	50,400	1,420	1,900	1,800	67,300
October	2,110	2,530	1,250	6,280	47,400	1,420	1,900	1,800	64,700
November	2,110	2,530	1,250	6,280	38,400	1,420	1,900	1,800	55,700
December	2,110	2,530	1,250	6,280	38,000	1,420	1,900	1,800	55,300
January-December	26,300	26,900	15,000	75,400	584,000	17,000	22,800	21,600	789,000

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

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

<sup>3</sup>Monthly data and 2007 cumulative data estimated based on 2007 annual data.

<sup>4</sup>Does not include an estimate, based on reported 2007 data of 3,670 tons per month from new scrap and 2,270 tons per month from old scrap, of copper recovered from scrap other than copper-base.

TABLE 6  
PRODUCTION, SHIPMENTS, AND STOCKS OF BRASS AND WIRE-ROD SEMIFABRICATES<sup>1</sup>

(Metric tons, gross weight)

Period	Production		Shipments		Stocks, end of period	
	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills
2007:						
December	91,100	108,000	94,800	110,000	36,000	21,200
Year	1,230,000	1,630,000	1,240,000	1,630,000	XX	XX
2008:						
January	104,000	145,000	104,000	141,000 <sup>r</sup>	35,900	25,500
February	102,000	140,000	104,000	142,000	34,700	24,200
March	103,000	144,000	102,000	136,000	38,000	30,400
April	103,000	132,000	103,000	133,000	36,400	29,600
May	101,000	128,000	102,000	131,000	36,100	26,800
June	97,800	134,000	99,900	136,000	34,000	25,400
July	96,700	132,000	97,900	131,000	32,800	26,400
August	99,900	140,000	98,000	134,000	34,700	31,900
September	96,200	124,000	94,900	131,000	33,900	25,100
October	96,100	129,000	97,400	123,000	34,800	30,700
November	86,700	98,900	87,700	106,000	33,900	23,500
December	80,900	79,500	79,200	81,500	35,500	21,600
January-December	1,170,000	1,530,000	1,170,000	1,530,000	XX	XX

<sup>r</sup>Revised. XX Not applicable.

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

TABLE 7  
CONSUMPTION OF REFINED COPPER<sup>1</sup>

(Metric tons)

Period and item	Brass mills	Wire-rod mills	Other plants <sup>2</sup>	Total
2007:				
December	37,800	106,000	4,210	148,000
Year	476,000	1,610,000	50,600	2,140,000
2008:				
January	43,100	149,000	4,210	196,000
February	39,200	138,000	4,210	182,000
March	43,700	143,000	4,210	191,000
April	40,800	130,000	4,210	175,000
May	41,100	125,000	4,210	170,000
June	41,300 <sup>r</sup>	133,000	4,210 <sup>r</sup>	178,000 <sup>r</sup>
July	39,900	119,000	4,210	164,000
August	40,500	137,000	4,210	182,000
September	37,400	122,000	4,210	164,000
October	38,400	124,000	4,210	166,000
November	36,800	94,800	4,210	136,000
December:				
Cathodes	25,100	76,700	679	103,000
Wire bars	--	--	(3)	(3)
Ingots and ingot bars	2,020	--	1,630	3,650
Cakes and slabs	(3)	--	(3)	(3)
Billets and other	9,060	--	1,900	11,000
Total	36,200	76,700	4,210	117,000
January-December	479,000	1,490,000	50,600	2,020,000

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

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

<sup>2</sup>Consumption by ingot makers, chemical plants, foundries, and miscellaneous manufacturers is estimated based on 2007 annual data.

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

TABLE 8  
U.S. APPARENT CONSUMPTION OF COPPER<sup>1</sup>

(Metric tons)

Period	Refined copper production	Copper in old scrap <sup>2</sup>	Refined general imports <sup>3</sup>	Refined exports <sup>3</sup>	Stock change during period	Apparent consumption
2007:						
December	99,200	13,200	57,900	3,620	20,000	147,000
Year	1,270,000	155,000	832,000	51,100	(63,700)	2,270,000
2008:						
January	106,000	13,800	58,600	5,980	(32,600)	205,000
February	102,000	13,800	57,800	5,680	(9,910)	178,000
March	104,000	13,800	53,600	6,280	(19,000)	184,000
April	97,700	13,900	59,800	3,180	(8,440)	177,000
May	103,000	13,900	63,600	1,870	(544)	179,000
June	97,400	14,100	48,900	1,360	(496)	159,000
July	93,700	13,900	77,500	2,040	8,120	175,000
August	102,000	14,100	86,900	2,020	21,400	180,000
September	103,000	14,000	54,500	1,540	18,400	152,000
October	106,000	14,300	49,700	3,210	8,760	158,000
November	102,000	14,300	51,000	1,740	27,400	138,000
December	109,000	14,300	61,700	1,600	44,000	139,000
January-December	1,230,000	168,000	724,000	36,500	57,000	2,020,000

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

<sup>2</sup>Includes reported monthly production of copper from old scrap of copper-base, an estimate for annual reporters, and a monthly average of copper from non-copper-base materials based on 2007 data.

<sup>3</sup>Source: U.S. Census Bureau.

TABLE 9  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP<sup>1</sup>

(Metric tons, gross weight)

Period	Smelters and refineries		Ingot makers <sup>2</sup>		Brass and wire-rod mills <sup>3</sup>		Foundries, etc. <sup>2</sup>		Total scrap used
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2007:									
December	1,370	2,390	2,600	8,750	67,600	772	3,360	1,950	88,800
Year	16,500	28,600	31,200	105,000	820,000	8,960	40,300	23,400	1,070,000
2008:									
January	2,120 <sup>r</sup>	2,020 <sup>r</sup>	4,710	6,460	65,300 <sup>r</sup>	704	4,020	2,270	87,600 <sup>r</sup>
February	2,120 <sup>r</sup>	2,080 <sup>r</sup>	4,710	6,460	62,900 <sup>r</sup>	704	4,020	2,270	85,200 <sup>r</sup>
March	2,300 <sup>r</sup>	2,050 <sup>r</sup>	4,710	6,460	65,900 <sup>r</sup>	704	4,020	2,270	88,500 <sup>r</sup>
April	2,270 <sup>r</sup>	2,110 <sup>r</sup>	4,710	6,460	64,200 <sup>r</sup>	704	4,020	2,270	86,700 <sup>r</sup>
May	2,200 <sup>r</sup>	2,130 <sup>r</sup>	4,710	6,460	64,200 <sup>r</sup>	704	4,020	2,270	86,700 <sup>r</sup>
June	2,080 <sup>r</sup>	2,350 <sup>r</sup>	4,710	6,460	63,200 <sup>r</sup>	704	4,020	2,270	85,800 <sup>r</sup>
July	2,080	2,200	4,710	6,460	62,300	704	4,020	2,270	84,700
August	2,430	2,020	4,710	6,460	60,900	704	4,020	2,270	83,500
September	2,260	2,020	4,710	6,460	62,600	704	4,020	2,270	85,000
October	2,620	2,020	4,710	6,460	58,800	704	4,020	2,270	81,700
November	2,080	2,020	4,710	6,460	46,100	704	4,020	2,270	68,300
December	2,090	2,020	4,710	6,460	45,200	704	4,020	2,270	67,500
January-December	26,700	25,100	56,500	77,600	721,000	8,450	48,200	27,200	991,000

<sup>r</sup> Revised.

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

<sup>2</sup>Monthly data estimated from 2007 annual data.

<sup>3</sup>Consumption at brass and wire-rod mills assumed equal to receipts.

TABLE 10  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP<sup>1, 2</sup>

(Metric tons, gross weight)

Scrap type and processor	2008				
	2007	July	August	September	July-September
No. 1 wire and heavy:					
Smelters and refiners	65,400	5,060	5,060	5,060	15,200
Brass and wire-rod mills	382,000	30,600	29,100	29,700	89,400
No. 2 mixed heavy and light:					
Smelters and refiners	28,400	3,180	3,350	3,190	9,720
Brass and wire-rod mills	13,700	1,500	855	1,290	3,640
Total unalloyed scrap:					
Smelters and refiners	93,800	8,250	8,420	8,250	24,900
Brass and wire-rod mills	396,000	32,100	30,000	31,000	93,000
Red brass: <sup>3</sup>					
All plants	37,800	3,180	3,490	3,160	9,830
Leaded yellow brass:					
All plants	171,000	10,900	11,600	12,800	35,200
Yellow and low brass:					
All plants	144,000 <sup>r</sup>	13,800	12,700	13,300	39,800
Cartridge cases and brass:					
All plants	81,100 <sup>r</sup>	5,610	6,360	5,980	17,900
Auto radiators:					
Smelters and refiners	25,800	2,150	2,150	2,150	6,460
Bronzes:					
Smelters and refiners	12,900	1,080	1,080	1,080	3,230
Brass mills	4,570	327	315	337	979
Nickel-copper alloys:					
All plants	13,800	1,160	1,130	817	3,110
Low grade and residues:					
Smelters and refiners	23,500 <sup>r</sup>	1,970	1,970	1,970	5,910
Other alloy scrap: <sup>4</sup>					
Smelters and refiners	1,080	90	90	90	270
Brass mills	4,000	440	440	440	1,320
Total alloyed scrap:					
Smelters and refiners	88,700 <sup>r</sup>	9,040	9,040	9,040	27,100
Brass mills	432,000	31,600	32,300	33,000	97,000
Total scrap:					
Smelters and refiners	182,000 <sup>r</sup>	15,600	15,800	15,600	47,100
Brass and wire-rod mills	828,000	63,700	62,300	64,000	190,000

See footnotes at end of table.



TABLE 10–Continued  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP<sup>1,2</sup>

(Metric tons, gross weight)

Scrap type and processor	2008			January- December
	October	November	December	
No. 1 wire and heavy:				
Smelters and refiners	5,060	5,060	5,060	60,700
Brass and wire-rod mills	28,300	25,500	26,300	353,000
No. 2 mixed heavy and light:				
Smelters and refiners	3,540	3,000	3,020	38,500
Brass and wire-rod mills	831	808	733	12,600
Total unalloyed scrap:				
Smelters and refiners	8,600	8,070	8,080	99,300
Brass and wire-rod mills	29,100	26,300	27,000	366,000
Red brass: <sup>3</sup>				
All plants	3,280	2,990	2,900	38,300
Leaded yellow brass:				
All plants	47,900	11,100	10,800	167,000
Yellow and low brass:				
All plants	11,400	3,140	3,090	145,000
Cartridge cases and brass:				
All plants	6,400	5,850	4,750	81,300
Auto radiators:				
Smelters and refiners	2,150	2,150	2,150	25,800
Bronzes:				
Smelters and refiners	1,080	1,080	1,080	12,900
Brass mills	331	316	326	4,080
Nickel-copper alloys:				
All plants	1,330	1,090	1,070	12,700
Low grade and residues:				
Smelters and refiners	1,970	1,970	1,970	23,600
Other alloy scrap: <sup>4</sup>				
Smelters and refiners	90	90	90	1,080
Brass mills	440	440	440	5,300
Total alloyed scrap:				
Smelters and refiners	9,040	9,040	9,040	108,000
Brass mills	67,400	21,200	19,600	409,000
Total scrap:				
Smelters and refiners	16,000	15,500	15,500	188,000
Brass and wire-rod mills	96,500	47,500	46,600	775,000

<sup>1</sup>Revised.

<sup>1</sup>Does not include: consumption by foundries, chemical plants, and miscellaneous manufactures, estimated to total about 5,310 tons of scrap per month based on 2007 annual data; monthly data includes estimates of about 11,400 tons of scrap per month consumed by ingot makers.

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

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

<sup>4</sup>Includes refinery brass, beryllium copper, phosphor copper, and aluminum bronze.

TABLE 11  
COPPER STOCKS AT END OF PERIOD<sup>1</sup>

(Metric tons)

Period	Crude copper <sup>2</sup>	Refined copper						Total refined
		Refineries <sup>3</sup>	Wire-rod mills <sup>3</sup>	Brass mills <sup>3</sup>	Other <sup>4</sup>	Comex <sup>5</sup>	LME <sup>6</sup>	
2007:								
December	26,300	21,800	20,600	10,400	5,750	13,500	60,600	133,000
2008:								
January	29,000	8,770	9,010	8,460	5,750	12,700	55,400	100,000
February	21,100	7,700	8,800	10,700	5,750	11,900	45,300	90,100
March	15,700	6,860	8,950	11,700	5,750	10,800	27,000	71,100
April	15,100	5,330	18,800	11,600	5,750	9,820	11,400	62,700
May	14,300	8,070	16,800	9,150	5,750	10,000	12,400	62,100
June	30,500	6,830	8,050	8,650	5,750	10,000	22,300	61,600
July	16,000	6,540	14,200	9,460	5,750	5,720	28,100	69,700
August	10,800	12,900	18,000	10,000	5,750	4,890	39,600	91,100
September	11,800	11,900	12,100	11,200	5,750	9,000	59,500	109,000
October	14,100	6,040	17,100	8,210	5,750	8,970	72,200	118,000
November	16,300	8,560	20,000	7,760	5,750	15,200	88,300	146,000
December	19,800	15,700	22,600	8,340	5,750	31,300	106,000	190,000

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

<sup>2</sup>Copper content of blister and anode.

<sup>3</sup>Stocks of refined copper as reported; no estimates are made for nonrespondents.

<sup>4</sup>Monthly estimates based on reported and 2007 annual data, comprising stocks at ingot makers, chemical plants, foundries, and miscellaneous manufacturers.

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

<sup>6</sup>London Metal Exchange Ltd., U.S. warehouses.

TABLE 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 <sup>1</sup>	Comex first position <sup>2</sup>	LME cash price Grade A
2007:			
December	307.996	302.170	298.759
Year	328.002	322.172	322.832
2008:			
January	326.000	320.171	320.241
February	364.781	358.955	357.747
March	386.934	381.108	382.751
April	399.765	393.939	393.900
May	383.247	377.421	380.180
June	374.800	368.974	374.668
July	381.765	375.939	381.616
August	349.211	343.640	346.264
September	320.119	314.293	317.045
October	224.391	218.565	223.390
November	174.323	168.497	168.567
December	144.624	138.798	139.315
January-December	319.163	313.358	315.474

<sup>1</sup>Listed as "U.S. producer cathode."

<sup>2</sup>Listed as "Comex high grade first position."

Source: Platts Metals Week.

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
2007:				
December	291.71	276.95	216.87	142.00
Year	311.03	282.42	221.29	137.26
2008:				
January	307.95	293.67	223.21	147.71
February	344.83	326.70	235.00	153.75
March	366.14	341.86	263.21	167.86
April	380.36	357.73	271.82	170.00
May	362.19	339.07	272.02	169.76
June	355.33	332.55	262.50	165.00
July	357.55	331.50	267.50	165.00
August	325.38	308.07	257.50	164.29
September	306.62	288.29	242.50	159.00
October	210.91	188.91	127.50	111.96
November	155.94	130.17	102.50	80.00
December	133.43	110.43	80.00	71.90
January-December	300.55	279.08	217.11	143.85

Source: American Metal Market.

TABLE 14  
U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY CLASS<sup>1</sup>

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash, and precipitates			Blister and anodes			Refined		
	2008			2008			2008			2008		
	2007	December	January- December	2007	December	January- December	2007	December	January- December	2007	December	January- December
Belgium	--	--	--	13	--	36	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--	--	13,000	--	598
Canada	655	2	406	204	4	319	85,700	6,100	84,800	242,000	12,700	242,000
Chile	--	--	--	--	--	--	59,700	--	32,900	363,000	32,100	334,000
Finland	--	--	--	--	--	--	866	52	849	5	--	--
Germany	--	--	--	--	--	--	(2)	(2)	1	10,600	98	3,230
Japan	--	--	--	--	--	6	1	2	13	5,760	154	4,680
Kazakhstan	--	--	--	--	--	--	19	--	--	--	--	--
Mexico	(2)	--	--	32	--	83	7,140	--	3,910	50,200	6,130	19,500
Peru	174	14	234	--	--	--	--	--	--	140,000	10,400	117,000
Taiwan	--	--	--	968	11	243	--	--	--	5	(2)	(2)
Other	13	--	--	446	59	481	5	2	8	4,440	58	1,840
Total	841	16	640	1,660	75	1,170	153,000	6,160	122,000	829,000	61,700	724,000

-- Zero.

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

<sup>2</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 15  
U.S. EXPORTS OF COPPER (UNMANUFACTURED), BY CLASS<sup>1</sup>

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	2008			2008			2008			2008		
	2007	December	January- December	2007	December	January- December	2007	December	January- December	2007	December	January- December
Australia	--	--	(2)	--	--	--	65	--	46	33	--	117
Belgium	109	--	259	13	10	61	275	--	101	213	--	--
Canada	23,300	1,740	28,100	61,700	3,750	43,800	4,370	516	10,000	9,830	1,000	12,600
China	61,600	9,260	97,800	89	80	1,640	456	--	243	20,700	199	8,620
Costa Rica	(2)	--	2	(2)	--	--	3	--	48	20	--	(2)
Germany	2,160	--	--	46	247	281	2,190	477	2,420	597	6	256
Hong Kong	--	--	1	--	--	--	2,440	59	2,210	103	--	109
India	--	--	1	38	--	8	216	69	767	9,320	127	2,130
Japan	18,700	--	48,100	63	--	53	565	60	1,420	--	6	21
Korea, Republic of	5,400	--	4,810	35	--	--	1,740	36	1,510	159	--	129
Mexico	19,200	15,100	122,000	--	--	--	35	7	135	6,020	252	10,200
Saudi Arabia	--	--	53	--	--	--	5	9	33	143	--	21
Singapore	--	--	32	53	--	55	289	20	137	9	--	--
Spain	79	--	1	--	138	298	60	40	534	273	--	(2)
Sweden	--	--	--	--	--	6	236	--	730	(2)	--	1
Taiwan	1	--	--	31	--	1	1,280	20	723	49	--	188
Thailand	3,500	--	--	--	--	--	224	38	114	71	--	24
Other	216	1	437	104	--	20	1,280	131	2,250	3,560	3	2,060
Total	134,000	26,100	301,000	62,200	4,230	46,200	15,700	1,480	23,500	51,100	1,600	36,500

-- Zero.

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

<sup>2</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 16  
U.S. COPPER SCRAP IMPORTS<sup>1</sup>

(Metric tons, gross weight)

Country or territory	Unalloyed			Alloyed		
	2008			2008		
	2007	December	January- December	2007	December	January- December
Brazil	--	--	3	116	--	74
Canada	8,890	569	11,300	32,000	1,780	30,900
Chile	33,900	--	9,540	484	--	7
China	6	--	--	47	42	147
Costa Rica	1,050	11	313	2,460	9	1,490
Germany	146	3	60	19	--	191
Guatemala	314	--	306	1,590	2	1,620
Honduras	1,360	46	1,780	695	9	515
Jamaica	454	4	183	373	18	357
Japan	46	--	29	40	--	--
Mexico	6,200	321	6,120	30,400	1,810	31,500
Nicaragua	699	6	251	363	--	103
Singapore	--	--	--	74	--	2
Taiwan	--	--	--	68	--	9
United Kingdom	119	--	--	636	--	369
Other	2,110	153	2,880	5,390	506	6,230
Total	58,300	1,110	32,800	74,800	4,180	73,500

-- Zero.

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

Source: U.S. Census Bureau.

TABLE 17  
U.S. COPPER SCRAP EXPORTS<sup>1</sup>  
(Metric tons, gross weight)

Country or territory	Unalloyed							Alloyed				
	2008							2008				
	No. 1		No. 2		Other			Segregated		Unsegregated		
	2007	December	January - December	December	January - December	December	January - December	2007	December	January- December	December	January- December
Belgium	1,190	38	938	78	560	98	1,070	13,700	6	421	1,580	17,000
Canada	11,300	--	--	--	--	291	9,830	34,200	267	3,970	2,180	35,000
China	203,000	2,140	36,400	4,710	107,000	2,770	42,300	371,000	4,730	95,500	15,100	325,000
Germany	8,010	125	1,000	167	1,390	19	1,880	7,210	--	7	1,240	10,300
Hong Kong	8,700	58	5,120	318	12,800	148	3,330	20,600	250	3,160	920	47,700
India	13,800	--	73	--	57	62	1,840	9,710	1,050	7,440	513	1,910
Japan	8,180	18	1,140	20	1,360	126	6,230	8,530	20	1,380	741	11,700
Korea, Republic of	22,100	246	8,720	321	5,700	214	5,350	12,100	53	1,700	1,430	20,200
Mexico	390	--	1,010	117	722	--	231	2,830	20	1,200	946	4,770
Spain	1,280	194	334	78	412	--	20	14,700	--	167	186	10,600
Taiwan	17,000	18	470	160	3,240	20	1,190	11,700	110	2,090	75	7,820
Thailand	951	--	57	--	46	204	1,920	64	--	20	--	97
United Kingdom	21	1	20	--	--	--	--	507	--	92	--	264
Other	11,900	429	8,360	576	2,850	54	4,060	19,700	214	3,290	2,560	16,000
Total	308,000	3,270	63,600	6,540	136,000	4,010	79,200	527,000	6,720	120,000	27,400	509,000

-- Zero.

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

Source: U.S. Census Bureau.