

Mineral Industry Surveys

For information, contact:

Kim B. Shedd, Cobalt Commodity Specialist

U.S. Geological Survey

989 National Center

Reston, VA 20192

Telephone: (703) 648-4974, Fax: (703) 648-7757

E-mail: ksheddd@usgs.gov

Ram C. Khatri (Data)

Telephone: (703) 648-7996

Fax: (703) 648-7975

E-mail: rkhatri@usgs.gov

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

COBALT IN JULY, AUGUST, AND SEPTEMBER 2007

Preliminary data for 2007 indicate that U.S. cobalt consumption during the first three quarters of 2007 was slightly less than that consumed during the first three quarters of 2006, according to the U.S. Geological Survey. U.S. cobalt consumption during the quarter ending September 30, 2007, was slightly greater than that consumed during the quarter ending June 30, 2007.

The amount of cobalt contained in U.S. imports of cobalt metals and chemicals was 16% lower during January through August 2007 than that during the same period in 2006. The amount of cobalt contained in U.S. exports of unwrought cobalt

and chemicals during January through August 2007 was 6% greater than that exported during the same period in 2006.

Update

Prices for electrolytic cobalt, in dollars per pound from Platts Metals Week, are listed below.

<u>Month</u>	<u>Price range</u>	<u>Average price</u>
July 2007	26.40-27.75	27.16
August 2007	24.50-27.00	25.99
September 2007	28.40-31.00	29.68

TABLE 1
U.S. REPORTED CONSUMPTION OF COBALT MATERIALS¹

(Metric tons, contained cobalt)

Period	Metal ²	Oxide and other chemical compounds ³	Scrap	Total
2006:				
July	306	227	158	691
August	311	235	175	721
September	305	229	168	702
October	321	232	158	711
November	308	222	166	696
December	297	229	162	688
January-July ^r	2,200	1,610	1,170	4,980
January-August ^r	2,510	1,840	1,340	5,700
January-September ^r	2,820	2,070	1,510	6,400
January-December ⁴	3,740	2,760	2,000	8,500
Year ⁵	4,500	2,760	2,010	9,270
2007:				
January	309	226	172	707
February	299	225	162	685
March	327	233	169	729
April	336	231	164	731
May	325	224	153	702
June	288	240	163	691
July	316	226	158	700
August	323	227	157	707
September	345	226	155	726
January-July	2,200	1,600	1,140	4,940
January-August	2,520	1,830	1,300	5,650
January-September	2,870	2,060	1,450	6,380

^rRevised.

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

²Includes metal powder.

³Data may include other cobalt materials.

⁴Data based on monthly reports.

⁵Includes annual reports.

TABLE 2
U.S. REPORTED CONSUMPTION OF COBALT, BY END USE¹

(Metric tons, contained cobalt)

End use	2006					2007					
	January- July	January- August	January- September	January- December ²	Year ³	July	August	September	January- July ⁴	January- August ⁴	January- September ⁴
Steel	345 ^r	394 ^r	443 ^r	588	700	48	49	49	341	389	438
Superalloys	2,140 ^r	2,450 ^r	2,740 ^r	3,630	4,180	301	304	323	2,120	2,420	2,740
Magnetic alloys	174 ^r	198 ^r	224 ^r	299	386	22	24	25	172	196	221
Other alloys ⁵	W	W	W	W	224	W	W	W	W	W	W
Cemented carbides ⁶	468 ^r	536 ^r	603 ^r	796	796	67	67	67	461	528	595
Chemical and ceramic uses ⁷	1,700 ^r	1,950 ^r	2,190 ^r	2,920	2,920	239	240	239	1,700	1,940	2,180
Miscellaneous and unspecified	158 ^r	181 ^r	202 ^r	271	63	23	23	23	160	183	206
Total	4,980 ^r	5,700 ^r	6,400 ^r	8,500	9,270	700	707	726	4,940	5,650	6,380

^rRevised. W Withheld to avoid disclosing company proprietary data; included with "Miscellaneous and unspecified."

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

²Data based on monthly reports.

³Includes annual reports.

⁴Includes revisions to prior months' data.

⁵Includes nonferrous alloys, welding materials, and wear-resistant alloys.

⁶Includes diamond tool matrices, cemented and sintered carbides, and cast carbide dies or parts.

⁷Includes catalysts, driers in paints or related usages, feed or nutritive additives, glass decolorizer, ground coat frit, pigments, and other uses.

TABLE 3
U.S. REPORTED STOCKS OF COBALT MATERIALS¹

(Metric tons, contained cobalt)

Period	Industry ²			Total	U.S. Government, metal ⁵
	Metal ³	Oxide and other chemical compounds ⁴	Scrap		
2006:					
July	323	165	120	608	1,470
August	316	164	118	598	1,470
September	304	160	116	580	1,470
October	296	170	120	586	1,420
November	289	171	126	586	1,300
December	288	176	126	590	1,290
2007:					
January	293	180	125	598	1,250
February	331	177	129	637	1,180
March	340	171	127	637	1,140
April	325	169	121	615	1,100
May	321	166	131	618	1,040
June	341	166	118	625	1,030
July	336	161	113	610	1,030
August	341	158	114	613	1,020
September	349	161	128	638	989

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

²Stocks reported by cobalt processors and consumers.

³Includes metal powder.

⁴Data may include other cobalt materials.

⁵Data from Defense National Stockpile Center. Data through June 2007 include material committed for sale pending shipment; data after June 2007 are uncommitted material only.

TABLE 4a
U.S. IMPORTS FOR CONSUMPTION OF COBALT THROUGH JUNE 2007, BY COUNTRY¹

(Kilograms, gross weight of material, except as noted)

Period and country of origin	Metals ²		Oxides and hydroxides		Salts and compounds ³		Total cobalt content for the period ⁵	Cobalt content, year to date ^{5,6}
	Quantity	Value ⁴	Quantity	Value ⁴	Quantity	Value ⁴		
2006:								
June	969,000	\$29,500,000	42,700	\$1,220,000	278,000	\$2,310,000	1,080,000	6,110,000
July	741,000	21,800,000	85,500	2,230,000	286,000	3,030,000	900,000	7,010,000
August	694,000	21,300,000	91,700	2,260,000	217,000	1,850,000	825,000	7,840,000
September	1,110,000	36,100,000	105,000	2,770,000	83,600	874,000	1,210,000	9,050,000
October	579,000	20,800,000	103,000	2,730,000	170,000	1,800,000	706,000	9,760,000
November	720,000	23,500,000	113,000	3,280,000	105,000	982,000	830,000	10,600,000
December	917,000	32,300,000	115,000	3,040,000	68,400	533,000	1,020,000	11,600,000
January-June	5,190,000	146,000,000	562,000	13,100,000	1,400,000	15,200,000	6,110,000	XX
January-December	9,950,000	302,000,000	1,180,000	29,400,000	2,330,000	24,200,000	11,600,000	XX
2007:								
January	788,000	34,800,000	91,400	2,940,000	193,000	1,900,000	906,000	906,000
February	686,000	32,300,000	111,000	4,230,000	141,000	1,980,000	807,000	1,710,000
March:	690,000	34,000,000	83,200	3,360,000	87,300	1,040,000	772,000	2,490,000
April	834,000	44,900,000	69,400	3,010,000	145,000	2,210,000	929,000	3,410,000
May	882,000	48,900,000	136,000	6,100,000	249,000	3,960,000	1,060,000	4,470,000
June:								
Australia	--	--	--	--	--	--	--	275,000
Belgium	96,500	4,220,000	35,600	1,770,000	74,600	533,000	142,000	379,000
Brazil	60,000	3,680,000	--	--	--	--	60,000	80,800
Canada	88,100	4,810,000	--	--	--	--	88,100	642,000
China	46,000	2,620,000	980	29,800	1,000	30,700	47,200	597,000
Congo (Kinshasa)	--	--	--	--	--	--	--	40,000
Finland	22,900	1,140,000	18,300	801,000	105,000	2,430,000	74,800	365,000
France	945	88,200	--	--	--	--	945	11,200
Germany	1,040	67,100	--	--	--	--	1,040	9,330
India	--	--	--	--	--	--	--	19,500
Japan	11,200	769,000	--	--	11,100	107,000	13,900	84,300
Korea, Republic of	--	--	--	--	--	--	--	22,500
Morocco	40,000	2,320,000	--	--	--	--	40,000	237,000
Norway	223,000	14,000,000	--	--	--	--	223,000	1,280,000
Philippines	--	--	--	--	--	--	--	42
Russia	--	--	--	--	--	--	--	616,000
South Africa	500	34,500	--	--	--	--	500	82,000
Sweden	--	--	--	--	--	--	--	1,840
Uganda	10,000	610,000	--	--	--	--	10,000	104,000
United Kingdom	225	16,500	--	--	5,440	87,600	1,530	77,400
Zambia	63,000	3,820,000	--	--	--	--	63,000	318,000
Total	663,000	38,200,000	54,800	2,600,000	197,000	3,190,000	766,000	5,240,000
January-June	4,540,000	233,000,000	545,000	22,200,000	1,010,000	14,300,000	5,240,000	XX

XX Not applicable. -- Zero.

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

²Unwrought cobalt, excluding alloys; includes cobalt cathode and cobalt metal powder; may include intermediate products of cobalt metallurgy.

³Includes cobalt acetates, cobalt carbonates, cobalt chlorides, and cobalt sulfates.

⁴Customs value.

⁵Estimated from gross weights.

⁶May include revisions to prior months.

Source: U.S. Census Bureau; data adjusted by the U.S. Geological Survey.

TABLE 4b
U.S. IMPORTS FOR CONSUMPTION OF COBALT THROUGH JULY 2007, BY COUNTRY¹

(Kilograms, gross weight of material, except as noted)

Period and country of origin	Metals ²		Oxides and hydroxides		Salts and compounds ³		Total cobalt content for the period ⁵	Cobalt content, year to date ^{5, 6}
	Quantity	Value ⁴	Quantity	Value ⁴	Quantity	Value ⁴		
2006:								
July	741,000	\$21,800,000	85,500	\$2,230,000	286,000	\$3,030,000	900,000	7,010,000
August	694,000	21,300,000	91,700	2,260,000	217,000	1,850,000	825,000	7,840,000
September	1,110,000	36,100,000	105,000	2,770,000	83,600	874,000	1,210,000	9,050,000
October	579,000	20,800,000	103,000	2,730,000	170,000	1,800,000	706,000	9,760,000
November	720,000	23,500,000	113,000	3,280,000	105,000	982,000	830,000	10,600,000
December	917,000	32,300,000	115,000	3,040,000	68,400	533,000	1,020,000	11,600,000
January-July	5,930,000	168,000,000	648,000	15,400,000	1,680,000	18,200,000	7,010,000	XX
January-December	9,950,000	302,000,000	1,180,000	29,400,000	2,330,000	24,200,000	11,600,000	XX
2007:								
January	788,000	34,800,000	91,400	2,940,000	193,000	1,900,000	906,000	906,000
February	686,000	32,300,000	111,000	4,230,000	141,000	1,980,000	807,000	1,710,000
March	690,000	34,000,000	83,200	3,360,000	87,300	1,040,000	772,000	2,490,000
April	834,000	44,900,000	69,400	3,010,000	145,000	2,210,000	929,000	3,410,000
May	882,000	48,900,000	136,000	6,100,000	249,000	3,960,000	1,060,000	4,470,000
June	663,000	38,200,000	54,800	2,600,000	197,000	3,190,000	766,000	5,240,000
July:								
Argentina	--	--	--	--	16,500	564,000	4,110	4,110
Australia	87,000	5,170,000	--	--	--	--	87,000	362,000
Belgium	14,000	724,000	3,000	124,000	--	--	16,200	395,000
Brazil	20,000	1,150,000	--	--	--	--	20,000	101,000
Canada	112,000	6,330,000	--	--	--	--	112,000	754,000
China	25,000	1,300,000	42,000	1,630,000	63,600	1,150,000	75,800	673,000
Congo (Kinshasa)	--	--	--	--	--	--	--	40,000
Finland	17,300	717,000	24,800	1,100,000	40,800	865,000	49,900	415,000
France	1,300	120,000	2,130	119,000	--	--	2,840	14,000
Germany	217	14,100	--	--	--	--	217	9,550
India	--	--	--	--	18,000	180,000	4,860	24,400
Italy	--	--	12	2,560	--	--	9	9
Japan	11,500	768,000	--	--	--	--	11,500	95,800
Korea, Republic of	17,300	410,000	--	--	--	--	17,300	39,800
Morocco	60,000	3,370,000	--	--	--	--	60,000	297,000
Norway	149,000	8,980,000	--	--	--	--	149,000	1,430,000
Philippines	--	--	--	--	--	--	--	42
Russia	40,000	2,350,000	--	--	--	--	40,000	656,000
South Africa	500	32,600	--	--	--	--	500	82,500
Sweden	--	--	--	--	--	--	--	1,840
Uganda	--	--	--	--	--	--	--	104,000
United Kingdom	--	--	19,000	877,000	44,600	341,000	25,400	103,000
Zambia	60,000	3,490,000	--	--	--	--	60,000	378,000
Total	615,000	34,900,000	90,900	3,860,000	183,000	3,100,000	737,000	5,980,000
January-July	5,160,000	268,000,000	636,000	26,100,000	1,200,000	17,400,000	5,980,000	XX

XX Not applicable. -- Zero.

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

²Unwrought cobalt, excluding alloys; includes cobalt cathode and cobalt metal powder; may include intermediate products of cobalt metallurgy.

³Includes cobalt acetates, cobalt carbonates, cobalt chlorides, and cobalt sulfates.

⁴Customs value.

⁵Estimated from gross weights.

⁶May include revisions to prior months.

Source: U.S. Census Bureau; data adjusted by the U.S. Geological Survey.

TABLE 4c
U.S. IMPORTS FOR CONSUMPTION OF COBALT THROUGH AUGUST 2007, BY COUNTRY¹

(Kilograms, gross weight of material, except as noted)

Period and country of origin	Metals ²		Oxides and hydroxides		Salts and compounds ³		Total cobalt content for the period ⁵	Cobalt content, year to date ^{5,6}
	Quantity	Value ⁴	Quantity	Value ⁴	Quantity	Value ⁴		
2006:								
August	694,000	21,300,000	91,700	2,260,000	217,000	1,850,000	825,000	7,840,000
September	1,110,000	36,100,000	105,000	2,770,000	83,600	874,000	1,210,000	9,050,000
October	579,000	20,800,000	103,000	2,730,000	170,000	1,800,000	706,000	9,760,000
November	720,000	23,500,000	113,000	3,280,000	105,000	982,000	830,000	10,600,000
December	917,000	32,300,000	115,000	3,040,000	68,400	533,000	1,020,000	11,600,000
January-August	6,630,000	189,000,000	739,000	17,600,000	1,900,000	20,100,000	7,840,000	XX
January-December	9,950,000	302,000,000	1,180,000	29,400,000	2,330,000	24,200,000	11,600,000	XX
2007:								
January	788,000	34,800,000	91,400	2,940,000	193,000	1,900,000	906,000	906,000
February	686,000	32,300,000	111,000	4,230,000	141,000	1,980,000	807,000	1,710,000
March:	690,000	34,000,000	83,200	3,360,000	87,300	1,040,000	772,000	2,490,000
April	834,000	44,900,000	69,400	3,010,000	145,000	2,210,000	929,000	3,410,000
May	882,000	48,900,000	136,000	6,100,000	249,000	3,960,000	1,060,000	4,470,000
June	663,000	38,200,000	54,800	2,600,000	197,000	3,190,000	766,000	5,240,000
July	615,000	34,900,000	90,900	3,860,000	183,000	3,100,000	737,000	5,980,000
August:								
Argentina	--	--	--	--	--	--	--	4,110
Australia	10,000	559,000	--	--	--	--	10,000	372,000
Belgium	23,300	1,490,000	70,000	3,650,000	21,500	258,000	79,600	475,000
Brazil	--	--	--	--	--	--	--	101,000
Canada	115,000	6,160,000	--	--	--	--	115,000	869,000
China	76,000	4,560,000	12,200	494,000	36,300	917,000	101,000	775,000
Congo (Kinshasa)	--	--	--	--	--	--	--	40,000
Finland	11,700	745,000	26,800	1,110,000	36,100	717,000	43,800	458,000
France	825	80,000	--	--	--	--	825	14,800
Germany	1,500	102,000	--	--	--	--	1,500	11,100
India	10,000	595,000	--	--	--	--	10,000	34,400
Italy	--	--	--	--	--	--	--	9
Japan	15,200	936,000	--	--	--	--	15,200	111,000
Korea, Republic of	--	--	140	7,840	--	--	101	39,900
Morocco	20,000	1,060,000	--	--	--	--	20,000	317,000
Norway	52,000	3,070,000	--	--	--	--	52,000	1,480,000
Philippines	--	--	--	--	--	--	--	42
Russia	28,500	1,670,000	--	--	--	--	28,500	684,000
South Africa	500	31,000	--	--	--	--	500	83,000
Sweden	--	--	--	--	--	--	--	1,840
Uganda	8,600	512,000	--	--	--	--	8,600	112,000
United Kingdom	2,750	139,000	11,400	463,000	35,800	598,000	22,200	125,000
Zambia	60,000	3,330,000	--	--	--	--	60,000	438,000
Total	436,000	25,000,000	121,000	5,720,000	130,000	2,490,000	569,000	6,550,000
January-August	5,590,000	293,000,000	757,000	31,800,000	1,330,000	19,900,000	6,550,000	XX

XX Not applicable. -- Zero.

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

²Unwrought cobalt, excluding alloys; includes cobalt cathode and cobalt metal powder; may include intermediate products of cobalt metallurgy.

³Includes cobalt acetates, cobalt carbonates, cobalt chlorides, and cobalt sulfates.

⁴Customs value.

⁵Estimated from gross weights.

⁶May include revisions to prior months.

Source: U.S. Census Bureau; data adjusted by the U.S. Geological Survey.

TABLE 5a
 U.S. IMPORTS FOR CONSUMPTION OF ADDITIONAL COBALT MATERIALS THROUGH JUNE 2007, BY COUNTRY¹

(Kilograms, gross weight of material, except as noted)

Period and country of origin	Unwrought cobalt alloys		Cobalt waste and scrap		Wrought cobalt and cobalt articles	
	Quantity	Value ²	Quantity	Value ²	Quantity	Value ²
2006:						
June	233	\$19,300	149,000	\$1,780,000	23,300	\$1,680,000
July	1,950	26,400	47,900	519,000	23,700	1,920,000
August	21,200	676,000	51,300	708,000	18,300	1,470,000
September	447	39,700	54,400	677,000	14,200	1,360,000
October	3,860	196,000	62,200	926,000	16,700	1,210,000
November	350	42,000	62,200	632,000	18,900	1,780,000
December	342	39,400	59,400	1,010,000	19,900	1,550,000
January-June	5,490	301,000	388,000	4,910,000	126,000	9,350,000
January-December	33,600	1,320,000	726,000	9,390,000	238,000	18,600,000
2007:						
January	4,210	136,000	61,200	683,000	14,100	1,350,000
February	515	63,400	67,500	904,000	16,200	1,450,000
March	794	89,700	172,000	1,660,000	15,900	1,560,000
April	1,530	164,000	186,000	2,720,000	25,500	1,620,000
May	15,800	1,020,000	120,000	1,740,000	18,800	1,610,000
June:						
Canada	--	--	14,500	111,000	2,850	561,000
China	--	--	--	--	425	46,200
Finland	350	57,000	--	--	--	--
France	--	--	--	--	3,690	396,000
Germany	--	--	13,100	365,000	336	27,800
Ireland	--	--	10,700	153,000	--	--
Japan	1,100	89,900	17,000	205,000	2,100	118,000
Singapore	--	--	2,550	74,900	--	--
United Kingdom	--	--	16,200	256,000	4,450	421,000
Total	1,450	147,000	74,100	1,160,000	13,800	1,570,000
January-June	24,300	1,620,000	681,000	8,870,000	104,000	9,160,000

-- Zero.

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

²Customs value.

Source: U.S. Census Bureau.

TABLE 5b
U.S. IMPORTS FOR CONSUMPTION OF ADDITIONAL COBALT MATERIALS THROUGH JULY 2007, BY COUNTRY¹

(Kilograms, gross weight of material, except as noted)

Period and country of origin	Unwrought cobalt alloys		Cobalt waste and scrap		Wrought cobalt and cobalt articles	
	Quantity	Value ²	Quantity	Value ²	Quantity	Value ²
2006:						
July	1,950	\$26,400	47,900	\$519,000	23,700	\$1,920,000
August	21,200	676,000	51,300	708,000	18,300	1,470,000
September	447	39,700	54,400	677,000	14,200	1,360,000
October	3,860	196,000	62,200	926,000	16,700	1,210,000
November	350	42,000	62,200	632,000	18,900	1,780,000
December	342	39,400	59,400	1,010,000	19,900	1,550,000
January-July	7,440	328,000	436,000	5,430,000	150,000	11,300,000
January-December	33,600	1,320,000	726,000	9,390,000	238,000	18,600,000
2007:						
January	4,210	136,000	61,200	683,000	14,100	1,350,000
February	515	63,400	67,500	904,000	16,200	1,450,000
March	794	89,700	172,000	1,660,000	15,900	1,560,000
April	1,530	164,000	186,000	2,720,000	25,500	1,620,000
May	15,800	1,020,000	120,000	1,740,000	18,800	1,610,000
June	1,450	147,000	74,100	1,160,000	13,800	1,570,000
July:						
Australia	--	--	8,900	120,000	--	--
Austria	--	--	18,400	127,000	--	--
Canada	--	--	1,190	26,300	3,660	743,000
Finland	191	47,700	--	--	--	--
France	--	--	21,200	635,000	173	75,400
Germany	--	--	49,100	758,000	2,360	145,000
Ireland	--	--	16,900	276,000	151	3,940
Japan	400	26,800	1,180	35,900	696	52,600
Sweden	20	4,600	--	--	--	--
Taiwan	--	--	--	--	3	2,380
Thailand	--	--	693	9,030	--	--
Tunisia	--	--	4,440	47,600	--	--
United Kingdom	23	3,250	9,910	152,000	6,970	626,000
Total	634	82,400	132,000	2,190,000	14,000	1,650,000
January-July	24,900	1,700,000	813,000	11,100,000	118,000	10,800,000

-- Zero.

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

²Customs value.

Source: U.S. Census Bureau.

TABLE 5c

U.S. IMPORTS FOR CONSUMPTION OF ADDITIONAL COBALT MATERIALS THROUGH AUGUST 2007, BY COUNTRY¹

(Kilograms, gross weight of material, except as noted)

Period and country of origin	Unwrought cobalt alloys		Cobalt waste and scrap		Wrought cobalt and cobalt articles	
	Quantity	Value ²	Quantity	Value ²	Quantity	Value ²
2006:						
August	21,200	\$676,000	51,300	\$708,000	18,300	\$1,470,000
September	447	39,700	54,400	677,000	14,200	1,360,000
October	3,860	196,000	62,200	926,000	16,700	1,210,000
November	350	42,000	62,200	632,000	18,900	1,780,000
December	342	39,400	59,400	1,010,000	19,900	1,550,000
January-August	28,600	1,000,000	487,000	6,140,000	168,000	12,700,000
January-December	33,600	1,320,000	726,000	9,390,000	238,000	18,600,000
2007:						
January	4,210	136,000	61,200	683,000	14,100	1,350,000
February	515	63,400	67,500	904,000	16,200	1,450,000
March	794	89,700	172,000	1,660,000	15,900	1,560,000
April	1,530	164,000	186,000	2,720,000	25,500	1,620,000
May	15,800	1,020,000	120,000	1,740,000	18,800	1,610,000
June	1,450	147,000	74,100	1,160,000	13,800	1,570,000
July	634	82,400	132,000	2,190,000	14,000	1,650,000
August:						
Belgium	--	--	--	--	135	14,000
Canada	--	--	--	--	2,290	457,000
China	--	--	--	--	4,000	250,000
France	--	--	9,670	249,000	2,090	243,000
Germany	56	5,070	15,600	481,000	175	21,400
India	--	--	625	15,000	--	--
Ireland	--	--	16,400	240,000	--	--
Japan	400	28,100	32,100	374,000	1,370	85,800
Mexico	--	--	6,780	33,400	--	--
Singapore	--	--	1,250	22,100	48	15,500
Taiwan	--	--	--	--	4	2,380
Thailand	--	--	3,020	47,100	--	--
Tunisia	--	--	4,470	64,200	--	--
United Kingdom	1,830	51,600	12,100	101,000	9,230	902,000
Total	2,290	84,800	102,000	1,630,000	19,300	1,990,000
January-August	27,200	1,780,000	915,000	12,700,000	138,000	12,800,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.²Customs value.

Source: U.S. Census Bureau.

TABLE 6
U.S. EXPORTS OF COBALT MATERIALS¹

(Kilograms, gross weight of material, except as noted)

Period	Unwrought cobalt, powders, matte, waste and scrap ²		Oxides and hydroxides		Salts and compounds ³		Total cobalt content for the period ⁵	Cobalt content, year to date ^{5,6}
	Quantity	Value ⁴	Quantity	Value ⁴	Quantity	Value ⁴		
2006:								
June	157,000	\$3,980,000	66,000	\$1,680,000	50,300	\$111,000	217,000	1,530,000
July	150,000	4,890,000	63,300	1,370,000	33,200	224,000	203,000	1,730,000
August	130,000	3,650,000	91,000	2,180,000	64,900	390,000	211,000	1,940,000
September	165,000	4,500,000	109,000	3,010,000	20,900	163,000	249,000	2,190,000
October	235,000	3,650,000	62,300	1,800,000	15,500	168,000	284,000	2,470,000
November	109,000	2,200,000	91,200	2,180,000	31,500	171,000	183,000	2,660,000
December	103,000	2,750,000	114,000	3,020,000	48,100	293,000	196,000	2,850,000
January-June	1,040,000	38,800,000	566,000	13,300,000	321,000	1,890,000	1,530,000	XX
January-July	1,190,000	43,700,000	629,000	14,600,000	354,000	2,120,000	1,730,000	XX
January-August	1,320,000	47,400,000	720,000	16,800,000	419,000	2,510,000	1,940,000	XX
January-December	1,930,000	60,500,000	1,100,000	26,800,000	535,000	3,300,000	2,850,000	XX
2007								
January	92,800	3,720,000	90,800	3,480,000	41,800	208,000	168,000	168,000
February	439,000	7,060,000	105,000	3,630,000	38,400	417,000	524,000	692,000
March	113,000	4,520,000	93,600	3,420,000	6,050	106,000	182,000	874,000
April	164,000	4,880,000	134,000	5,580,000	4,680	153,000	262,000	1,140,000
May	223,000	6,840,000	94,000	3,170,000	20,800	218,000	296,000	1,430,000
June	70,200	3,090,000	65,700	2,620,000	1,690	27,400	118,000	1,550,000
July	200,000	5,910,000	33,200	1,270,000	41,500	490,000	234,000	1,780,000
August	187,000	7,510,000	118,000	786,000	3,450	22,000	273,000	2,060,000
January-June	1,100,000	30,100,000	583,000	21,900,000	113,000	1,130,000	1,550,000	XX
January-July	1,300,000	36,000,000	616,000	23,200,000	155,000	1,620,000	1,780,000	XX
January-August	1,490,000	43,500,000	734,000	24,000,000	158,000	1,640,000	2,060,000	XX

XX Not applicable.

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

²May include other intermediate products of cobalt metallurgy and unwrought cobalt alloys.

³Cobalt acetates and cobalt chlorides.

⁴Free alongside ship (f.a.s.) value.

⁵Estimated from gross weights.

⁶May include revisions to prior months.

Source: U.S. Census Bureau; data adjusted by the U.S. Geological Survey.

TABLE 7
U.S. EXPORTS OF WROUGHT COBALT, COBALT ORE, AND CONCENTRATES¹

(Kilograms, gross weight of material, except as noted)

Period	Wrought cobalt and cobalt articles		Cobalt ore and concentrates	
	Quantity	Value ²	Quantity	Value ²
2006:				
June	112,000	\$6,110,000	31,800	\$423,000
July	130,000	7,020,000	81,200	1,320,000
August	140,000	6,350,000	6,690	162,000
September	165,000	8,040,000	107,000	585,000
October	178,000	8,400,000	59,700	1,410,000
November	209,000	9,960,000	20,800	716,000
December	185,000	7,980,000	59,200	1,700,000
January-June	974,000	42,600,000	160,000	3,250,000
January-July	1,100,000	49,700,000	241,000	4,570,000
January-August	1,240,000	56,000,000	248,000	4,730,000
January-December	1,980,000	90,400,000	495,000	9,130,000
2007:				
January	155,000	8,360,000	10,400	436,000
February	93,000	5,870,000	13,600	713,000
March	126,000	7,950,000	21,800	1,050,000
April	128,000	8,040,000	134,000	1,950,000
May	123,000	7,450,000	19,800	883,000
June	132,000	8,670,000	6,050	79,900
July	128,000	7,550,000	110,000	279,000
August	95,300	6,180,000	7,850	180,000
January-June	757,000	46,300,000	206,000	5,120,000
January-July	886,000	53,900,000	316,000	5,390,000
January-August	981,000	60,100,000	324,000	5,570,000

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

²Free alongside ship (f.a.s.) value.

Source: U.S. Census Bureau; data adjusted by the U.S. Geological Survey.