

Mineral Industry Surveys

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COBALT IN MARCH THROUGH JUNE 2014

U.S. cobalt consumption during January through June 2014 was slightly higher than consumption during the same period in 2013. The amount of cobalt contained in U.S. imports of cobalt metals and chemicals during January through June 2014 was 21% more than that imported during the same period in 2013. The amount of cobalt contained in U.S. exports of unwrought cobalt and chemicals during January through June 2014 was 31% more than that exported during the same period in 2013.

Prices

Prices for cobalt metal, in dollars per pound, are listed below.

March 2014:

Type	Price range	Average price
U.S. spot ¹	14.50–15.50	15.00
LME cash mean ²	12.97–14.27	13.85

April 2014:

Type	Price range	Average price
U.S. spot ¹	14.00–15.20	14.74
LME cash mean ²	13.37–13.72	13.52

May 2014:

Type	Price range	Average price
U.S. spot ¹	13.00–14.80	13.86
LME cash mean ²	13.44–13.88	13.62

June 2014:

Type	Price range	Average price
U.S. spot ¹	13.25–14.20	13.76
LME cash mean ²	13.65–14.02	13.81

¹Source: Platts Metals Daily, minimum 99.8% cobalt cathode.

²London Metal Exchange, mean of the cash buyer and cash seller price, minimum 99.3% cobalt briquettes, cathode, ingot, or rounds (converted from dollars per metric ton and rounded to the nearest cent).

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TABLE 1
U.S. REPORTED CONSUMPTION OF COBALT MATERIALS¹

(Metric tons, contained cobalt)

Period	Metal ²	Oxide and other chemical compounds ³	Scrap	Total
2013: ^{r, p}				
March	289	167	180	636
April	302	173	180	655
May	276	170	180	626
June	286	162	180	628
July	291	169	180	640
August	280	170	180	630
September	297	164	180	641
October	270	175	180	625
November	289	166	180	634
December	286	160	180	626
January–March	879	500	539	1,920
January–April	1,180	673	719	2,570
January–May	1,460	843	899	3,200
January–June	1,740	1,010	1,080	3,830
January–December ⁴	3,450	2,010	2,160	7,620
2014:				
January ^r	303	166	180	649
February ^r	299	166	180	645
March	320	166	180	665
April	285	165	180	630
May	295	164	180	639
June	293	169	180	642
January–March	922	498	539	1,960
January–April	1,210	663	719	2,590
January–May	1,500	827	899	3,230
January–June	1,790	996	1,080	3,870

^pPreliminary. ^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.

⁴Based on monthly reports.

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

(Metric tons, contained cobalt)

End use	2013 ^p		2014	
	January– March	January– December ^{2, 3}	March	January– March
Steel	134	536	45	134
Superalloys	899 ^r	3,540 ^r	325	937
Magnetic alloys	75 ^r	296 ^r	24	74
Other alloys ⁴	W	W	W	W
Cemented carbides ⁵	176 ^r	705 ^r	60	180
Chemical and ceramic uses ⁶	523 ^r	2,100 ^r	173	520
Miscellaneous and unspecified	111 ^r	443 ^r	38	113
Total	1,920 ^r	7,620 ^r	665	1,960

^pPreliminary. ^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.

³May include revisions to previously published data.

⁴Includes nonferrous alloys, welding materials, and wear-resistant alloys.

⁵Includes diamond tool matrices, cemented and sintered carbides, and cast carbide dies or parts.

⁶Includes catalysts, driers in paints or related usages, feed or nutritive additives, glass decolorizer, ground coat frit, pigments, and other uses.

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

(Metric tons, contained cobalt)

End use	2013 ^p		2014	
	January– April	January– December ^{2, 3}	April	January– April
Steel	179	536	45	179
Superalloys	1,210 ^r	3,540 ^r	290	1,230
Magnetic alloys	100 ^r	296 ^r	24	98
Other alloys ⁴	W	W	W	W
Cemented carbides ⁵	235 ^r	705 ^r	60	240
Chemical and ceramic uses ⁶	703 ^r	2,100 ^r	173	693
Miscellaneous and unspecified	148 ^r	443 ^r	38	151
Total	2,570 ^r	7,620 ^r	630	2,590

^pPreliminary. ^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.

³May include revisions to previously published data.

⁴Includes nonferrous alloys, welding materials, and wear-resistant alloys.

⁵Includes diamond tool matrices, cemented and sintered carbides, and cast carbide dies or parts.

⁶Includes catalysts, driers in paints or related usages, feed or nutritive additives, glass decolorizer, ground coat frit, pigments, and other uses.

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

(Metric tons, contained cobalt)

End use	2013 ^p		2014	
	January– May	January– December ^{2, 3}	May	January– May
Steel	224	536	45	224
Superalloys	1,490 ^r	3,540 ^r	300	1,530
Magnetic alloys	124 ^r	296 ^r	24	122
Other alloys ⁴	W	W	W	W
Cemented carbides ⁵	294 ^r	705 ^r	60	300
Chemical and ceramic uses ⁶	881 ^r	2,100 ^r	171	865
Miscellaneous and unspecified	184 ^r	443 ^r	38	189
Total	3,200 ^r	7,620 ^r	639	3,230

^pPreliminary. ^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.

³May include revisions to previously published data.

⁴Includes nonferrous alloys, welding materials, and wear-resistant alloys.

⁵Includes diamond tool matrices, cemented and sintered carbides, and cast carbide dies or parts.

⁶Includes catalysts, driers in paints or related usages, feed or nutritive additives, glass decolorizer, ground coat frit, pigments, and other uses.

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

(Metric tons, contained cobalt)

End use	2013 ^p		2014	
	January– June	January– December ^{2, 3}	June	January– June
Steel	268	536	45	268
Superalloys	1,780 ^r	3,540 ^r	298	1,830
Magnetic alloys	149 ^r	296 ^r	25	147
Other alloys ⁴	W	W	W	W
Cemented carbides ⁵	353 ^r	705 ^r	60	360
Chemical and ceramic uses ⁶	1,050 ^r	2,100 ^r	177	1,040
Miscellaneous and unspecified	221 ^r	443 ^r	38	227
Total	3,830 ^r	7,620 ^r	642	3,870

^pPreliminary. ^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.

³May include revisions to previously published data.

⁴Includes nonferrous alloys, welding materials, and wear-resistant alloys.

⁵Includes diamond tool matrices, cemented and sintered carbides, and cast carbide dies or parts.

⁶Includes 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	U.S. industry ^{b, 2}			U.S. Government, metal ⁶	LME, ³ metal		Total
	Metal and scrap ⁴	Oxide and other chemical compounds ⁵	Total		U.S. warehouse	Non-U.S. warehouse	
2013:							
March	576 ^r	173 ^r	749 ^r	301	44	407	451
April	553 ^r	176 ^r	729 ^r	301	46	392	438
May	547 ^r	173 ^r	720 ^r	301	46	369	415
June	557 ^r	168 ^r	725 ^r	301	46	418	464
July	540 ^r	169 ^r	709 ^r	301	46	436	482
August	542 ^r	169 ^r	711 ^r	301	46	497	543
September	530 ^r	203 ^r	733 ^r	301	46	488	534
October	521 ^r	210 ^r	731 ^r	301	46	487	533
November	511 ^r	226 ^r	738 ^r	301	41	481	522
December	557 ^r	229 ^r	785 ^r	301	41	519	560
2014:							
January	646 ^r	161 ^r	808 ^r	301	41	517	558
February	660 ^r	162 ^r	822 ^r	301	36	548	584
March	644	160	804	301	36	530	566
April	642	161	803	301	34	514	548
May	638	161	799	301	22	517	539
June	624	161	784	301	20	527	547

^bPreliminary. ^rRevised.

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

²Stocks reported by cobalt processors and consumers.

³London Metal Exchange.

⁴Includes metal powder.

⁵Data may include other cobalt materials.

⁶Data from Defense Logistics Agency, DLA Strategic Materials; uncommitted material only.

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

(Metric tons, 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 (thousands)	Quantity	Value ⁴ (thousands)	Quantity	Value ⁴ (thousands)		
2013:								
March	677	\$17,400	225	\$4,490	117	\$923	873	2,610
April	861	22,500	187	4,060	120	1,310	1,030	3,640
May	581	15,300	191	4,000	124	1,300	759	4,400
June	525	14,100	262	5,910	118	1,350	757	5,160
July	887	24,600	224	5,060	147	1,580	1,100	6,250
August	729	20,800	212	4,860	234	2,680	963	7,220
September	680	19,800	197	4,430	91	1,380	858	8,070
October	647	17,700	283	6,630	103	1,230	887	8,960
November	476	13,700	202	4,640	63	773	645	9,610
December	729	19,900	148	3,600	27	380	845	10,500
January–March	2,120	53,300	515	10,400	365	4,030	2,610	XX
January–December	8,230	222,000	2,420	53,600	1,390	16,000	10,500	XX
2014:								
January	708	19,000	183	4,130	83	730	864	864
February	465	12,500	192	4,150	124	1,410	648	1,510
March:								
Australia	57	1,420	--	--	--	--	57	166
Austria	--	--	--	--	--	--	--	1
Belgium	3	77	45	1,130	--	--	35	91
Brazil	--	--	--	--	5	58	1	3
Canada	10	505	--	--	--	--	10	32
China	281	7,270	26	642	10	101	302	632
Congo (Kinshasa)	20	568	25	468	--	--	38	43
Finland	81	2,680	59	1,440	126	1,350	167	316
France	2	108	--	--	--	--	2	8
Germany	2	106	--	--	2	18	2	4
India	--	--	--	--	--	--	--	6
Ireland	--	--	--	--	--	--	--	(7)
Japan	100	2,720	(7)	4	--	--	100	278
Korea, Republic of	--	--	--	--	--	--	--	(7)
Madagascar	84	2,310	--	--	--	--	84	168
Mexico	--	--	--	--	11	65	5	9
Morocco	20	597	--	--	--	--	20	30
Norway	384	10,500	--	--	--	--	384	540
Peru	--	--	--	--	1	31	1	1
Russia	94	2,780	--	--	--	--	94	244
South Africa	49	1,510	--	--	--	--	49	102
Sweden	--	--	--	--	--	--	--	1
Taiwan	--	--	--	--	48	338	13	21
United Kingdom	1	26	104	2,320	21	319	83	204
Zambia	60	1,610	--	--	--	--	60	120
Total	1,250	34,800	259	6,010	224	2,280	1,510	3,020
January–March	2,420	66,400	634	14,300	432	4,420	3,020	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 previously published data.

⁷Less than ½ unit.

Source: U.S. Census Bureau.

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

(Metric tons, 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 (thousands)	Quantity	Value ⁴ (thousands)	Quantity	Value ⁴ (thousands)		
2013:								
April	861	\$22,500	187	\$4,060	120	\$1,310	1,030	3,640
May	581	15,300	191	4,000	124	1,300	759	4,400
June	525	14,100	262	5,910	118	1,350	757	5,160
July	887	24,600	224	5,060	147	1,580	1,100	6,250
August	729	20,800	212	4,860	234	2,680	963	7,220
September	680	19,800	197	4,430	91	1,380	858	8,070
October	647	17,700	283	6,630	103	1,230	887	8,960
November	476	13,700	202	4,640	63	773	645	9,610
December	729	19,900	148	3,600	27	380	845	10,500
January–April	2,980	75,800	702	14,500	485	5,340	3,640	XX
January–December	8,230	222,000	2,420	53,600	1,390	16,000	10,500	XX
2014:								
January	708	19,000	183	4,130	83	730	864	864
February	465	12,500	192	4,150	124	1,410	648	1,510
March	1,250	34,800	259	6,010	224	2,280	1,510	3,020
April:								
Australia	78	2,220	--	--	--	--	78	244
Austria	--	--	--	--	--	--	--	1
Belgium	3	94	45	1,090	--	--	35	126
Brazil	20	568	14	144	15	171	34	38
Canada	9	539	--	--	--	--	9	42
China	154	4,620	41	790	48	422	199	831
Congo (Kinshasa)	--	--	33	1,260	--	--	23	66
Finland	35	1,500	32	824	163	1,830	112	428
France	3	157	--	--	--	--	3	11
Germany	5	181	--	--	--	--	5	9
India	--	--	--	--	40	334	11	17
Ireland	--	--	--	--	--	--	--	(7)
Japan	77	2,230	--	--	--	--	77	354
Korea, Republic of	(7)	3	--	--	--	--	(7)	(7)
Madagascar	84	2,590	--	--	--	--	84	252
Mexico	--	--	--	--	--	--	--	9
Morocco	10	305	--	--	--	--	10	40
Norway	74	2,250	--	--	--	--	74	614
Peru	--	--	--	--	--	--	--	1
Russia	120	3,580	--	--	--	--	120	364
South Africa	100	2,990	--	--	--	--	100	202
Sweden	4	239	--	--	--	--	4	5
Taiwan	--	--	--	--	21	152	6	27
United Kingdom	1	56	94	2,210	11	111	72	276
Zambia	81	2,260	--	--	--	--	81	201
Total	857	26,400	258	6,330	298	3,020	1,140	4,160
January–April	3,280	92,800	892	20,600	730	7,440	4,160	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 previously published data.

⁷Less than ½ unit.

Source: U.S. Census Bureau.

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

(Metric tons, 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 (thousands)	Quantity	Value ⁴ (thousands)	Quantity	Value ⁴ (thousands)		
2013:								
May	581	\$15,300	191	\$4,000	124	\$1,300	759	4,400
June	525	14,100	262	5,910	118	1,350	757	5,160
July	887	24,600	224	5,060	147	1,580	1,100	6,250
August	729	20,800	212	4,860	234	2,680	963	7,220
September	680	19,800	197	4,430	91	1,380	858	8,070
October	647	17,700	283	6,630	103	1,230	887	8,960
November	476	13,700	202	4,640	63	773	645	9,610
December	729	19,900	148	3,600	27	380	845	10,500
January–May	3,560	91,100	893	18,500	610	6,640	4,400	XX
January–December	8,230	222,000	2,420	53,600	1,390	16,000	10,500	XX
2014:								
January	708	19,000	183	4,130	83	730	864	864
February	465	12,500	192	4,150	124	1,410	648	1,510
March	1,250	34,800	259	6,010	224	2,280	1,510	3,020
April	857	26,400	258	6,330	298	3,020	1,140	4,160
May:								
Australia	171	4,960	--	--	--	--	171	415
Austria	(7)	18	--	--	--	--	(7)	1
Belgium	2	103	88	2,290	127	573	99	226
Brazil	--	--	--	--	(7)	3	(7)	38
Canada	8	412	(7)	3	--	--	8	50
China	85	2,610	61	1,430	--	--	129	959
Congo (Kinshasa)	--	--	--	--	--	--	--	66
Finland	49	1,760	31	757	45	764	91	519
France	2	105	--	--	--	--	2	13
Germany	3	223	--	--	--	--	3	12
India	--	--	--	--	20	180	5	22
Ireland	--	--	--	--	--	--	--	(7)
Japan	77	2,180	--	--	--	--	77	431
Korea, Republic of	--	--	--	--	--	--	--	(7)
Madagascar	84	2,620	--	--	--	--	84	336
Mexico	--	--	--	--	3	15	1	11
Morocco	10	292	--	--	--	--	10	50
Norway	182	5,560	--	--	--	--	182	796
Peru	--	--	--	--	2	38	1	1
Russia	60	1,700	--	--	--	--	60	423
South Africa	26	774	--	--	--	--	26	228
Sweden	--	--	--	--	--	--	--	5
Taiwan	--	--	--	--	--	--	--	27
United Kingdom	2	82	76	1,800	24	350	65	341
Zambia	132	3,650	--	--	--	--	132	333
Total	894	27,100	255	6,280	220	1,920	1,150	5,300
January–May	4,170	120,000	1,150	26,900	949	9,360	5,300	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 previously published data.

⁷Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 4d
U.S. IMPORTS FOR CONSUMPTION OF COBALT, BY COUNTRY¹

(Metric tons, 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 (thousands)	Quantity	Value ⁴ (thousands)	Quantity	Value ⁴ (thousands)		
2013:								
June	525	\$14,100	262	\$5,910	118	\$1,350	757	5,160
July	887	24,600	224	5,060	147	1,580	1,100	6,250
August	729	20,800	212	4,860	234	2,680	963	7,220
September	680	19,800	197	4,430	91	1,380	858	8,070
October	647	17,700	283	6,630	103	1,230	887	8,960
November	476	13,700	202	4,640	63	773	645	9,610
December	729	19,900	148	3,600	27	380	845	10,500
January–June	4,090	105,000	1,160	24,400	727	8,000	5,160	XX
January–December	8,230	222,000	2,420	53,600	1,390	16,000	10,500	XX
2014:								
January	708	19,000	183	4,130	83	730	864	864
February	465	12,500	192	4,150	124	1,410	648	1,510
March	1,250	34,800	259	6,010	224	2,280	1,510	3,020
April	857	26,400	258	6,330	298	3,020	1,140	4,160
May	894	27,100	255	6,280	220	1,920	1,150	5,300
June:								
Australia	--	--	--	--	--	--	--	415
Austria	--	--	--	--	--	--	--	1
Belgium	--	--	76	1,840	--	--	55	280
Brazil	20	551	--	--	9	119	23	60
Canada	19	963	(7)	13	--	--	20	69
China	68	1,880	14	319	47	568	95	1,050
Congo (Kinshasa)	--	--	20	360	--	--	14	80
Finland	65	2,150	(7)	3	33	238	73	592
France	1	54	--	--	--	--	1	14
Germany	4	170	--	--	--	--	4	16
India	--	--	--	--	--	--	--	22
Ireland	--	--	--	--	--	--	--	(7)
Italy	1	36	--	--	--	--	1	1
Japan	77	2,260	--	--	--	--	77	508
Korea, Republic of	(7)	5	--	--	--	--	(7)	(7)
Madagascar	21	634	--	--	--	--	21	357
Mexico	--	--	--	--	--	--	--	11
Morocco	10	288	--	--	--	--	10	60
Netherlands	--	--	--	--	4	6	1	1
Norway	254	7,620	--	--	--	--	254	1,050
Peru	--	--	--	--	--	--	--	1
Philippines	--	--	10	179	--	--	7	7
Russia	97	2,810	--	--	--	--	97	521
South Africa	--	--	--	--	--	--	--	228
Sweden	--	--	--	--	--	--	--	5
Taiwan	--	--	--	--	--	--	--	27
United Kingdom	1	35	131	2,940	9	88	97	439
Zambia	60	1,670	--	--	--	--	60	393
Total	698	21,100	251	5,650	102	1,020	911	6,210
January–June	4,870	141,000	1,400	32,500	1,050	10,400	6,210	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 previously published data.

⁷Less than ½ unit.

Source: U.S. Census Bureau.

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

(Metric tons, 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 (thousands)	Quantity	Value ² (thousands)	Quantity	Value ² (thousands)
2013:						
March	50	\$1,470	45	\$635	17	\$1,960
April	89	2,890	52	1,230	26	2,470
May	87	3,260	65	985	15	1,680
June	59	1,830	63	840	21	2,000
July	37	1,310	50	637	26	2,580
August	128	4,000	58	1,170	16	2,320
September	112	3,270	64	1,040	43	3,020
October	87	2,900	63	821	20	2,690
November	93	2,790	33	335	20	2,190
December	59	1,630	104	1,940	21	2,420
January–March	216	6,420	145	1,910	47	5,430
January–December	967	30,300	698	10,900	254	26,800
2014:						
January	86	2,640	69	1,040	20	1,990
February	63	1,870	54	723	24	2,310
March:						
Austria	--	--	--	--	(3)	12
Belgium	11	351	--	--	--	--
Canada	35	1,110	4	56	9	775
China	5	145	--	--	2	348
Denmark	--	--	--	--	(3)	4
Finland	(3)	19	--	--	--	--
France	(3)	14	24	458	3	187
Germany	--	--	19	247	2	436
Ireland	--	--	38	375	--	--
Japan	--	--	12	129	(3)	27
Korea, Republic of	--	--	7	89	--	--
Norway	2	84	15	632	--	--
Switzerland	--	--	--	--	(3)	8
Taiwan	--	--	3	64	(3)	11
United Kingdom	(3)	7	30	264	3	231
Total	54	1,730	151	2,320	19	2,040
January–March	203	6,240	274	4,080	63	6,330

-- Zero.

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

²Customs value.

³Less than ½ unit.

Source: U.S. Census Bureau.

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

(Metric tons, 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 (thousands)	Quantity	Value ² (thousands)	Quantity	Value ² (thousands)
2013:						
April	89	\$2,890	52	\$1,230	26	\$2,470
May	87	3,260	65	985	15	1,680
June	59	1,830	63	840	21	2,000
July	37	1,310	50	637	26	2,580
August	128	4,000	58	1,170	16	2,320
September	112	3,270	64	1,040	43	3,020
October	87	2,900	63	821	20	2,690
November	93	2,790	33	335	20	2,190
December	59	1,630	104	1,940	21	2,420
January–April	305	9,310	198	3,140	73	7,900
January–December	967	30,300	698	10,900	254	26,800
2014:						
January	86	2,640	69	1,040	20	1,990
February	63	1,870	54	723	24	2,310
March	54	1,730	151	2,320	19	2,040
April:						
Austria	(3)	10	--	--	(3)	38
Belgium	6	193	(3)	12	(3)	18
Canada	42	1,350	17	242	3	798
China	--	--	--	--	2	246
Finland	(3)	20	--	--	--	--
France	1	21	8	134	1	111
Germany	--	--	11	164	4	587
Ireland	(3)	3	19	190	--	--
Japan	--	--	4	36	1	46
New Zealand	--	--	(3)	3	--	--
Norway	25	1,040	--	--	--	--
Poland	--	--	--	--	(3)	5
Singapore	--	--	4	45	--	--
Switzerland	--	--	--	--	(3)	23
Taiwan	--	--	--	--	(3)	9
United Kingdom	--	--	31	513	4	256
Total	73	2,640	95	1,340	15	2,140
January–April	276	8,880	368	5,420	78	8,470

-- Zero.

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

²Customs value.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 5c
U.S. IMPORTS FOR CONSUMPTION OF ADDITIONAL COBALT MATERIALS, BY COUNTRY¹

(Metric tons, 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 (thousands)	Quantity	Value ² (thousands)	Quantity	Value ² (thousands)
2013:						
May	87	\$3,260	65	\$985	15	\$1,680
June	59	1,830	63	840	21	2,000
July	37	1,310	50	637	26	2,580
August	128	4,000	58	1,170	16	2,320
September	112	3,270	64	1,040	43	3,020
October	87	2,900	63	821	20	2,690
November	93	2,790	33	335	20	2,190
December	59	1,630	104	1,940	21	2,420
January–May	393	12,600	262	4,120	88	9,570
January–December	967	30,300	698	10,900	254	26,800
2014:						
January	86	2,640	69	1,040	20	1,990
February	63	1,870	54	723	24	2,310
March	54	1,730	151	2,320	19	2,040
April	73	2,640	95	1,340	15	2,140
May:						
Austria	--	--	--	--	(3)	16
Belgium	9	316	9	479	1	36
Canada	75	2,270	7	90	3	701
China	--	--	--	--	4	438
Finland	2	97	--	--	--	--
France	1	13	14	275	1	125
Germany	--	--	8	137	2	483
Ireland	--	--	23	250	--	--
Israel	--	--	1	23	--	--
Japan	--	--	11	128	(3)	9
Korea, Republic of	--	--	4	58	--	--
Mexico	--	--	(3)	2	--	--
Norway	--	--	13	549	--	--
Singapore	--	--	3	49	--	--
Switzerland	--	--	--	--	(3)	18
Taiwan	--	--	3	64	(3)	8
United Kingdom	(3)	13	26	183	1	108
Total	88	2,710	123	2,290	12	1,940
January–May	364	11,600	491	7,710	91	10,400

-- Zero.

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

²Customs value.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 5d
U.S. IMPORTS FOR CONSUMPTION OF ADDITIONAL COBALT MATERIALS, BY COUNTRY¹

(Metric tons, 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 (thousands)	Quantity	Value ² (thousands)	Quantity	Value ² (thousands)
2013:						
June	59	\$1,830	63	\$840	21	\$2,000
July	37	1,310	50	637	26	2,580
August	128	4,000	58	1,170	16	2,320
September	112	3,270	64	1,040	43	3,020
October	87	2,900	63	821	20	2,690
November	93	2,790	33	335	20	2,190
December	59	1,630	104	1,940	21	2,420
January–June	451	14,400	326	4,960	109	11,600
January–December	967	30,300	698	10,900	254	26,800
2014:						
January	86	2,640	69	1,040	20	1,990
February	63	1,870	54	723	24	2,310
March	54	1,730	151	2,320	19	2,040
April	73	2,640	95	1,340	15	2,140
May	88	2,710	123	2,290	12	1,940
June:						
Austria	--	--	--	--	(3)	13
Belgium	13	426	--	--	(3)	18
Brazil	--	--	4	40	--	--
Canada	31	915	3	28	5	580
China	--	--	1	3	2	145
Czech Republic	--	--	1	7	--	--
Finland	4	167	--	--	--	--
France	--	--	2	27	3	288
Germany	--	--	4	78	(3)	249
Ireland	(3)	4	15	190	--	--
Italy	--	--	--	--	(3)	5
Japan	--	--	8	154	(3)	3
Mexico	--	--	2	18	--	--
Norway	4	118	--	--	--	--
United Kingdom	--	--	23	189	7	243
Total	51	1,630	61	734	17	1,540
January–June	415	13,200	553	8,440	108	12,000

-- Zero.

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

²Customs value.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 6
U.S. EXPORTS OF COBALT MATERIALS¹

(Metric tons, 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 (thousands)	Quantity	Value ⁴ (thousands)	Quantity	Value ⁴ (thousands)		
2013:								
March	319	\$9,270	48	\$875	23	\$189	360	919
April	281	8,050	3	88	19	162	288	1,210
May	343	9,570	3	92	24	225	351	1,560
June	264	7,090	52	713	2	34	302	1,860
July	265	7,110	20	520	1	13	279	2,140
August	346	7,770	53	118	39	359	393	2,530
September	250	7,060	35	83	39	332	285	2,820
October	283	7,710	16	324	38	334	303	3,120
November	314	9,880	110	649	19	173	399	3,520
December	305	8,440	31	600	20	169	332	3,850
January–March	847	24,300	86	1,060	42	353	919	XX
January–April	1,130	32,400	89	1,150	61	515	1,210	XX
January–May	1,470	41,900	92	1,240	85	740	1,560	XX
January–June	1,740	49,000	145	1,960	87	774	1,860	XX
January–December	3,500	97,000	409	4,250	243	2,150	3,850	XX
2014:								
January	245	7,200	(7)	13	58	486	260	260
February	359	10,500	15	251	21	105	375	635
March	345	9,570	72	1,070	43	349	407	1,040
April	399	10,800	62	851	20	180	448	1,490
May	505	9,600	27	538	--	--	524	2,010
June	379	9,360	51	529	1	9	415	2,430
January–March	949	27,300	87	1,340	122	940	1,040	XX
January–April	1,350	38,100	149	2,190	142	1,120	1,490	XX
January–May	1,850	47,700	176	2,730	142	1,120	2,010	XX
January–June	2,230	57,000	227	3,260	142	1,130	2,430	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 previously published data.

⁷Less than ½ unit.

Source: U.S. Census Bureau.

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

(Metric tons, gross weight of material, except as noted)

Period	Wrought cobalt and cobalt articles		Cobalt ore and concentrates	
	Quantity	Value ² (thousands)	Quantity	Value ² (thousands)
2013:				
March	236	\$11,900	63	\$95
April	155	8,080	--	--
May	229	10,900	85	121
June	197	10,100	(3)	4
July	174	9,160	--	--
August	260	11,900	--	--
September	119	7,300	--	--
October	158	8,790	157	355
November	154	9,080	--	--
December	153	8,950	150	330
January–March	594	29,600	64	125
January–April	749	37,600	64	125
January–May	978	48,600	149	246
January–June	1,170	58,700	149	250
January–December	2,190	114,000	456	935
2014:				
January	109	6,630	(3)	26
February	152	9,370	1	5
March	184	9,860	(3)	4
April	150	9,020	281	365
May	126	8,060	(3)	4
June	160	9,190	165	688
January–March	444	25,900	1	35
January–April	594	34,900	282	400
January–May	720	43,000	282	404
January–June	880	52,100	447	1,090

-- Zero.

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

²Free alongside ship (f.a.s.) value.

³Less than ½ unit.

Source: U.S. Census Bureau.