

Mineral Industry Surveys

For information, contact

Kim B. Shedd, Cobalt Commodity Specialist National Minerals Information Center U.S. Geological Survey 989 National Center Reston, VA 20192

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

Email: kshedd@usgs.gov

Annie Hwang (Data) Telephone: (703) 648-7952 Fax: (703) 648-7975 Email: ahwang@usgs.gov

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

COBALT IN JUNE 2016

U.S. cobalt consumption during January through June 2016 was slightly more than consumption during the same period in 2015. The amount of cobalt contained in U.S. imports of cobalt metals and chemicals in January through June 2016 was 8% less than revised imports during the same period in 2015. The amount of cobalt contained in U.S. exports of unwrought cobalt and chemicals in January through June 2016 was slightly more than revised exports during the same period in 2015.

Prices

In June, the monthly average U.S. spot cobalt price decreased from that of May. The monthly average LME cash mean price increased for the second consecutive month. The following listed prices are for cobalt metal in June, in dollars per pound.

 Type
 Price range
 Average price

 U.S. $spot^1$ 10.60-11.65 11.09

 LME cash mean²
 10.66-10.89 10.79

¹Source: Platts Metals Week, 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 REPORTED CONSUMPTION AND STOCKS OF COBALT MATERIALS 1

(Metric tons, contained cobalt)

		Stocks, end of period						
		LME ^{3, 5}						
	Consumption,	U.S.	U.S.	U.S.	Non-U.S.			
Period	U.S. industry ^{p, 2}	industry ^{p, 2}	Government ^{3, 4}	warehouse	warehouse	Total		
2015:								
June	707 ^r	1,070 ^r	301	8	345	353		
July	714 ^r	1,070 ^r	301	23	423	446		
August	696 ^r	1,070 ^r	301	110	418	528		
September	684 ^r	1,060 ^r	301	110	448	558		
October	711 ^r	1,060 ^r	301	110	448	558		
November	712 ^r	1,030 ^r	301	125	441	566		
December	701 ^r	1,050 ^r	301	165	465	630		
January–June	4,240 ^r	1,070 ^r	301	8	345	353		
January–December ⁶	8,450 ^r	1,050 ^r	301	165	465	630		
Year ⁷	8,780	1,080	301	165	465	630		
2016:								
January	720 ^r	1,060 ^r	301	169	450	619		
February	713 ^r	1,050 ^r	301	169	445	614		
March	705 ^r	1,070 ^r	301	193	458	651		
April	718 ^r	1,050 ^r	301	197	457	654		
May	734 ^r	1,050 ^r	301	186	451	637		
June	712	1,030	301	190	455	645		
January–June	4,300	1,030	301	190	455	645		

^pPreliminary. ^rRevised.

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

²Data for cobalt metal, metal powder, oxide and other chemical compounds, and scrap reported by U.S. cobalt processors and consumers. Includes estimates.

³Cobalt metal.

⁴Data from Defense Logistics Agency Strategic Materials.

⁵London Metal Exchange.

 $^{^6}$ U.S. industry data based on monthly reports. 7 U.S. industry data include annual reports.

 $\label{eq:table 2} \textbf{U.S. IMPORTS FOR CONSUMPTION OF COBALT, BY COUNTRY}^1$

	Moto	Metals ²		Oxides and hydroxides Gross		Salts and compounds ³		Cobalt content,
	Gross					mpounds	Total cobalt content for	year to
Period and country	weight	Value ⁴	weight	Value ⁴	Gross weight	Value ⁴	the period ⁵	date ^{5, 6}
of origin	(metric tons)	(thousands)	(metric tons)	(thousands)	(metric tons)	(thousands)	(metric tons)	(metric tons)
2015:	(metric tons)	(tilousalius)	(metric tons)	(tilousalius)	(metric tons)	(tilousarius)	(metric tons)	(metric tons)
June	705	\$22,200	210	\$4.440	212	\$2.200	1.000	6,190
	_ 785 845	\$23,300 24,900 ^r		\$4,440	107	\$2,290	1,000 958	7,150
July			110	2,590		1,110		
August	_ 843	25,000	144	3,440	182	1,750	1,000	8,160
September	_ 661	19,900	154	3,620	111 ^r	982 ^r	804 ^r	8,960
October	623	17,900 ^r	149	3,340	284 ^r	1,930 ^r	811 ^r	9,770
November	650	17,500	110	2,500	259 ^r	1,400 ^r	799 ^r	10,600
December	_ 714	17,900 ^r	112	2,410	142 ^r	1,550 ^r	841 ^r	11,400
January–June	_ 4,960 ^r	144,000	972	22,300	1,550	17,600	6,190 ^r	XX
January-December	9,290 ^r	267,000	1,750	40,200	2,630	26,300	11,400	XX
2016:	<u> </u>							
January	612	14,200	100	1,980	104	1,340	720	720
February	1,050	23,100	171	3,010	106	1,160	1,210	1,930
March	720	17,500	173	3,260	170	1,860	903	2,830
April	701	18,400	190	3,680	194	1,790	899	3,730
May	643	15,500	145	2,790	347	3,390	857	4,590
June:	= -							
Australia								290
Austria	(7)	27					(7)	1
Belgium	=		24	531			17	211
Brazil	- 				5	50	1	14
Canada	100	2,910					100	653
China	23	565	18	360	103	1,320	75	372
Finland	- 23 24	747	62	1,050	59	506	87	501
France	- ²⁴ 1	54		1,030			1	20
	_ 3	196					3	42
Germany	_							
India	_ (7)	10			20	96	6	6
Ireland								(7)
Italy								(7)
Japan	150	3,360					150	767
Korea, Republic of	_ (7)	3			(7)	2	(7)	1
Kuwait	_							5
Macao	_							20
Madagascar	147	3,430					147	585
Morocco	40	919					40	162
Netherlands								5
New Caledonia								10
Norway	306	6,990					306	950
Peru					6	135	3	3
Russia	38	867					38	381
Singapore								29
Slovakia	- 				22	98	6	6
South Africa	12	158					12	116
Taiwan	_ 12							2
United Kingdom	- 15	658	43	805	7	59	48	255
Zambia	- 60	1,250	43			 	60	280
					221			
Total	920	22,100	147	2,750	221	2,270	1,100	5,690
January–June rRevised. XX Not applicable.	4,650	111,000	926	17,500	1,140	11,800	5,690	XX

^rRevised. 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.

 $\label{eq:table 3} \textbf{U.S. IMPORTS FOR CONSUMPTION OF ADDITIONAL COBALT MATERIALS, BY COUNTRY1

	Unwrought c	obalt allovs	Cobalt waste and scrap		Wrought cobalt and cobalt articles		
	Gross	obuit unoys	Gross	una serap	Gross	reicies	
Period and country	weight	Value ²	weight	Value ²	weight	Value ²	
of origin	(metric tons)	(thousands)	(metric tons)	(thousands)	(metric tons)	(thousands)	
2015:							
June	83	\$2,960	58 ^r	\$827 °	11 ^r	\$2,050 °	
July	37	1,360	80 r	1,190 ^r	22 ^r	2,180 ^r	
August	102 ^r	3,490 ^r	82	1,410	13	1,380	
September	108	3,920	66	873	24	1,850	
October	95	2,960	53	903	11 ^r	1,390 ^r	
November	95 ^r	2,980 ^r	58 ^r	1,020 ^r	20 ^r	2,040 °	
December	236	5,990	59 ^r	940 ^r	24	1,450	
January-June	576	19,000	414 ^r	5,760 ^r	98 ^r	11,500	
January-December	1,250	39,700 ^r	812	12,100	211	21,800	
2016:	=						
January	82	2,600	43	698	10	1,590	
February	109	3,460	58	793	13	1,550	
March	91	2,750	82	1,150	11	1,440	
April	67	2,080	43	619	9	1,540	
May	75	2,860	64	896	7	1,310	
June:							
Belgium	2	56			(3)	10	
Canada	57	1,190	2	10	3	808	
China					3	466	
France					(3)	82	
Germany					1	272	
Ireland			25	352	(3)	61	
Japan			5	34	(3)	58	
Korea, Republic of			1	8			
Mexico			(3)	5	(3)	3	
Netherlands			(3)	9			
Singapore			2	25			
Switzerland					(3)	20	
Taiwan	- 		5	180			
United Kingdom	20	842	37	472	8	370	
Total	78	2,090	77	1,090	15	2,150	
January–June	504	15,800	366	5,250	64	9,580	

^rRevised. -- Zero.

 $^{^{1}\}mathrm{Data}$ are rounded to no more than three significant digits; may not add to totals shown.

²Customs value.

³Less than ½ unit.

 $\label{eq:table 4} \textbf{U.S. EXPORTS OF COBALT MATERIALS}^1$

	Unwrought cobalt, powders, matte, waste and scrap ²		Oxides and hydroxides		Salts and compounds ³		Total cobalt	Cobalt content,
Period	Gross weight (metric tons)	Value ⁴ (thousands)	Gross weight (metric tons)	Value ⁴ (thousands)	Gross weight (metric tons)	Value ⁴ (thousands)	content for the period ⁵ (metric tons)	year to date ^{5, 6} (metric tons)
2015:								
June	382	\$9,310	4	\$103			385	2,050 ^r
July	295	6,810	32	584	6	\$30	319	2,370 ^r
August	295	5,870	8	334			300	2,670 ^r
September	262 ^r	5,480 ^r	1	28	29	182	269 ^r	2,940
October	224 ^r	5,190 ^r	15	354	26	189	241 ^r	3,180
November	315 ^r	5,830 °	1	57	4	16	317 ^r	3,500 ^r
December	322	7,020			19	150	327	3,830 ^r
January-June	1,930 ^r	50,800 ^r	135	1,330	97	832	2,050 ^r	XX
January-December	3,640 ^r	87,000 ^r	192	2,690 r	180	1,400	3,830 ^r	XX
2016:								
January	305	5,930	7	118	10	43	312	312
February	336	6,600	4	45	33	107	347	659
March	289	6,850	72	236	19	132	345	1,000
April	399	7,530	2	51	29	130	408	1,410
May	317	7,170	4	39	75	371	337	1,750
June	303	6,100	10	214	68	356	327	2,080
January–June	1,950	40,200	99	703	234	1,140	2,080	XX

^rRevised. XX Not applicable. -- Zero.

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.

 $\label{eq:table 5} \text{U.S. EXPORTS OF WROUGHT COBALT, COBALT ORE,} \\ \text{AND CONCENTRATES}^1$

	Wrought cobalt a		Cobalt ore and concentrates		
Period	Gross weight (metric tons)	Value ² (thousands)	Gross weight (metric tons)	Value ² (thousands)	
2015:	,		•		
June	144	\$8,660			
July	170	9,540	3	\$18	
August	176	9,840 ^r			
September	166	9,080 ^r			
October	144 ^r	8,880 ^r			
November	122 ^r	7,460 ^r	1	11	
December	143	7,730 ^r			
January-June	964	55,900	1	6	
January-December	1,890	108,000	6	35	
2016:					
January	117	6,880			
February	128	7,360			
March	163	9,110			
April	140	8,190			
May	109	8,370			
June	137	9,970			
January-June	794	49,900			

^rRevised. -- Zero.

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

²Free alongside ship (f.a.s.) value.