

Mineral Industry Surveys

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MOLYBDENUM IN JUNE 2014

Domestic production of molybdenum (Mo) in concentrate in June 2014 was about 13% less than the output of the previous month and about 9% more than that of June 2013. Producer stocks of molybdenum in concentrate, oxide, and other product forms were about 6,600 metric tons (t) at yearend 2013 and about 7,400 t at the end of June.

According to Ryan's Notes, the June monthly average price range for U.S. ferromolybdenum (FeMo) was \$18.800 to \$19.325 per pound of molybdenum content, compared with \$17.322 to \$17.983 in May. European FeMo monthly averages ranged from \$35.138 to \$35.788 per kilogram (kg) of molybdenum content in June compared with \$33.822 to \$34.389

per kg in May. In June, worldwide molybdenum oxide (MoO₃) prices ranged from \$14.444 to \$15.050 per pound compared with \$13.728 to \$14.633 per pound in May.

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TABLE 1
U.S. SALIENT MOLYBDENUM CONCENTRATE STATISTICS¹

(Metric tons, contained molybdenum)

Period	Production	Shipments ^{2,3}
2013:		
January–June	31,200 ^r	30,900
June	5,090	5,130
July	4,960	5,090
August	4,940	4,930
September	5,230	5,090 ^r
October	5,070	5,420
November	4,800	4,570 ^r
December	4,560	4,850
January–December	60,800	60,900
2014:		
January	5,050	4,960
February	4,540	4,580
March ^r	5,060	5,010
April ^r	5,490	5,510
May ^r	6,420	6,390
June	5,560	5,700
January–June	32,100	32,200

^rRevised. W Withheld to avoid disclosing company proprietary data.

¹Data are rounded to no more than three significant digits.

²As reported by producers.

³Shipments include sales to domestic customers, sales for export, and transfers to other company plants.

TABLE 2
U.S. REPORTED CONSUMPTION, BY END USES, AND CONSUMER STOCKS OF MOLYBDENUM MATERIALS¹

(Kilograms, contained molybdenum)

End use	Molybdic oxides	Ferro molyb- denum ²	Ammonium and sodium molybdate	Molyb- denum scrap	Other	Total
2014:						
May:						
Steel:						
Carbon	W	W	--	--	W	W
High-strength low-alloy	W	7,380	--	--	--	7,380
Stainless and heat-resisting	174,000	50,600	--	(3)	W	224,000
Full alloy	294,000	260,000	--	--	W	554,000
Tool	W	W	--	--	--	W
Total	468,000	318,000	--	--	W	785,000
Cast irons (gray, malleable, and ductile iron)	W	W	--	--	W	W
Superalloys	W	W	--	(3)	70,700	70,700
Alloys: (other than steels, cast irons, and superalloys)						
Welding materials (structural and hard-facing)	--	W	--	--	W	W
Other alloys	500	W	--	--	--	500
Mill products made from metal powder ⁴	--	--	--	--	W	W
Cemented carbides and related products ⁵	--	--	--	--	W	W
Chemical and ceramic uses:						
Pigments	--	--	(3)	--	--	--
Catalysts	77,300	--	(3)	--	W	77,300
Other chemicals	--	--	--	--	--	--
Miscellaneous and unspecified uses:						
Lubricants	--	--	--	--	10,800	10,800
Other	152,000	50,000	1,110	(3)	354,000	557,000
Grand total	698,000	368,000	1,110	--	435,000	1,500,000
Stocks, May 31, 2014	531,000	305,000	3,570	(6)	(6)	1,710,000
June:						
Steel:						
Carbon	W	W	--	--	W	W
High-strength low-alloy	W	7,380	--	--	--	7,380
Stainless and heat-resisting	182,000	53,900	--	(3)	W	236,000
Full alloy	284,000	W	--	--	W	284,000
Tool	W	W	--	--	--	W
Total	466,000	61,300	--	(3)	W	527,000
Cast irons (gray, malleable, and ductile iron)	W	W	--	--	W	W
Superalloys	W	W	--	(3)	64,700	64,700
Alloys: (other than steels, cast irons, and superalloys)						
Welding materials (structural and hard-facing)	--	W	--	--	W	W
Other alloys	151	W	--	--	--	151
Mill products made from metal powder ⁴	--	--	--	--	W	W
Cemented carbides and related products ⁵	--	--	--	--	W	W
Chemical and ceramic uses:						
Pigments	--	--	(3)	--	--	--
Catalysts	77,300	--	W	--	W	77,300
Other chemicals	--	--	--	--	--	--
Miscellaneous and unspecified uses:						
Lubricants	--	--	--	--	10,800	10,800
Other	148,000	327,000	567	(3)	329,000	805,000
Grand total	691,000	389,000	567	--	405,000	1,480,000
Stocks, June 30, 2014	533,000	311,000	3,230	(6)	(6)	1,730,000

W Withheld to avoid disclosing company proprietary data; included in "Miscellaneous and unspecified uses: Other" category. -- Zero.

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

²Includes calcium molybdate.

³Withheld to avoid disclosing company proprietary data; included in "Other, Miscellaneous and unspecified uses: Other" category.

⁴Includes ingot, wire, rod, and sheet.

⁵Includes construction, mining, oil and gas, metalworking machinery.

⁶Withheld to avoid disclosing company proprietary data; included in "Total."

TABLE 3
U.S. EXPORTS OF MOLYBDENUM ORES AND CONCENTRATES
(including roasted concentrate), BY COUNTRY¹

(Kilograms, contained molybdenum)

Country	2013			2014		
	January– December	June	January– June	May	June	January– June
Antigua and Barbuda	--	--	--	--	--	22,400
Argentina	--	--	--	--	--	5,110
Australia	214,000	172,000	172,000	--	--	--
Austria	31,800	--	31,800	--	--	--
Belgium	3,770,000	202,000	1,440,000	860,000	701,000	2,460,000
Brazil	690,000	74,200	349,000	25,500	32,700	137,000
Canada	2,070,000	183,000	1,030,000	161,000	198,000	1,160,000
China	1,520,000	54,800	488,000	216,000	108,000	601,000
Germany	172,000	12,000	172,000	--	--	89
India	1,310,000	60,400	683,000	12,500	50,400	301,000
Israel	--	--	--	363	--	795
Japan	4,900,000	378,000	2,070,000	607,000	609,000	3,140,000
Korea, Republic of	898,000	59,500	480,000	97,800	121,000	797,000
Mexico	9,160,000	796,000	4,480,000	891,000	440,000	3,280,000
Netherlands	21,100,000	1,520,000	9,800,000	1,940,000	2,070,000	7,780,000
Peru	24,700	363	18,500	--	--	--
Philippines	2,180	--	2,180	--	--	--
Singapore	1,370	--	--	--	--	--
South Africa	194,000	57,000	114,000	--	--	--
Taiwan	24,900	6,770	19,800	--	--	--
Thailand	46,700	--	37,000	--	--	13,300
United Kingdom	2,380,000	47,500	1,450,000	959,000	543,000	6,450,000
Venezuela	210	--	--	--	--	--
Vietnam	57,100	12,500 ^r	42,100	16,900	2,360	36,600
Total	48,600,000	3,630,000	22,900,000	5,780,000	4,870,000	26,200,000

^rRevised. -- Zero.

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

Source: U.S. Census Bureau.

TABLE 4
U.S. EXPORTS OF FERROMOLYBDENUM, BY COUNTRY¹

(Kilograms, contained molybdenum)

Country	2013			2014		
	January– December	June	January– June	May	June	January– June
Argentina	382	--	--	--	--	--
Canada	635,000	41,500	337,000	55,800	70,300	301,000
Chile	1,480	--	--	--	--	--
Colombia	238	--	119	--	133	267
Denmark	513	--	171	--	171	171
Israel	168	--	168	--	--	--
Mexico	156,000	23,700	60,400	890	318	25,800
Netherlands	48,600	35,200 ^r	48,600	--	--	--
Panama	13,200	--	13,200	--	--	--
Peru	6,550	--	6,000	--	--	--
Total	862,000	100,000 ^r	466,000	56,700	71,000	328,000

^rRevised. -- Zero.

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

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MOLYBDENUM PRODUCTS¹

(Kilograms, unless otherwise specified)

Material	January–December 2013			June 2014			January–June 2014		
	Gross weight	Contained molybdenum	Value ² (thousands)	Gross weight	Contained molybdenum	Value ² (thousands)	Gross weight	Contained molybdenum	Value ² (thousands)
Ore and concentrates roasted	6,870,000	4,160,000	\$47,100	599,000	369,000	\$9,900	3,650,000	2,230,000	\$48,900
Ore and concentrates other	18,100,000	8,890,000	250,000	2,030,000	1,050,000	25,400	9,250,000	4,680,000	126,000
Molybdenum chemicals:									
Oxides and hydroxides	283,000	NA	5,390	--	--	--	214,000	NA	3,690
Molybdates of ammonium	1,080,000	611,000	17,000	86,900	49,200	1,760	490,000	277,000	8,010
Molybdates (all others)	3,770	1,550	190	2,040	815	26	3,720	1,480	55
Molybdenum orange	274,000	NA	2,430	48,300	--	405	228,000	NA	1,740
Ferromolybdenum	6,120,000	4,090,000	108,000	750,000	503,000	16,200	3,390,000	2,270,000	62,600
Molybdenum powders	448,000	433,000	16,000	40,300	38,000	1,600	239,000	227,000	8,410
Molybdenum unwrought	762,000	747,000	22,100	108,000	106,000	2,800	673,000	649,000	17,100
Molybdenum waste and scrap	739,000	690,000	21,900	155,000	154,000	4,930	618,000	607,000	18,400
Molybdenum wire	22,700	NA	3,490	575	NA	109	7,860	NA	1,250
Molybdenum other	298,000	NA	20,800	22,500	NA	1,820	196,000	NA	13,600
Total	35,000,000	XX	514,000	3,850,000	XX	65,000	19,000,000	XX	309,000

NA Not available. XX Not applicable. -- Zero.

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

²Customs value.

Source: U.S. Census Bureau.