

# Mineral Industry Surveys

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## MOLYBDENUM IN JULY 2014

Domestic production of molybdenum (Mo) in concentrate in July 2014 was 4% less than the output of the previous month and 8% more than that of July 2013. Producer stocks of molybdenum in concentrate, oxide, and other product forms were about 6,600 metric tons (t) at yearend 2013 and about 4,060 t at the end of July.

According to Ryan's Notes, the July monthly average price range for U.S. ferromolybdenum (FeMo) was \$17.611 to \$18.478 per pound (lb) of molybdenum content, compared with \$18.800 to \$19.325 in June. European FeMo monthly averages ranged from \$32.139 to \$32.967 per kilogram (kg) of

molybdenum content in July compared with \$35.138 to \$35.788 per kg in June. In July, worldwide molybdenum oxide (MoO<sub>3</sub>) prices ranged from \$13.433 to \$13.983 per pound, compared with \$14.444 to \$15.050 per pound in June.

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TABLE 1  
U.S. SALIENT MOLYBDENUM CONCENTRATE STATISTICS<sup>1</sup>

(Metric tons, contained molybdenum)

Period	Production	Shipments <sup>2,3</sup>
2013:		
January–July	36,200 <sup>r</sup>	36,000
July	4,960	5,090
August	4,940	4,930
September	5,230	5,090
October	5,070	5,420
November	4,800	4,570
December	4,560	4,850
January–December	60,800	60,900
2014:		
January	5,050	4,960
February	4,540	4,580
March	5,060	5,010
April	5,490	5,510
May	6,420	6,390
June	5,560	5,700
July	5,360	5,660
January–July	37,500	37,800

<sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits.

<sup>2</sup>As reported by producers.

<sup>3</sup>Shipments 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 MATERIALS<sup>1</sup>

(Kilograms, contained molybdenum)

End use	Molybdic oxides	Ferro molyb- denum <sup>2</sup>	Ammonium and sodium molybdate	Molyb- denum scrap	Other	Total
2014:						
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 <sup>4</sup>	--	--	--	--	W	W
Cemented carbides and related products <sup>5</sup>	--	--	--	--	W	W
Chemical and ceramic uses:						
Pigments	--	--	(3)	--	--	(3)
Catalysts	77,300	--	(3)	--	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	(3)	405,000	1,480,000
Stocks, May 31, 2014	533,000	311,000	3,230	(6)	(6)	1,730,000
July:						
Steel:						
Carbon	57,700	W	--	--	W	57,700
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	524,000	61,300	--	(3)	W	585,000
Cast irons (gray, malleable, and ductile iron)	W	W	--	--	W	W
Superalloys	W	W	--	(3)	67,500	67,500
Alloys: (other than steels, cast irons, and superalloys)						
Welding materials (structural and hard-facing)	--	W	--	--	W	W
Other alloys	230	W	--	--	--	230
Mill products made from metal powder <sup>4</sup>	--	--	--	--	W	W
Cemented carbides and related products <sup>5</sup>	--	--	--	--	W	W
Chemical and ceramic uses:						
Pigments	--	--	(3)	--	--	W
Catalysts	77,300	--	(3)	--	W	77,300
Other chemicals	--	--	--	--	--	W
Miscellaneous and unspecified uses:						
Lubricants	--	--	--	--	10,800	10,800
Other	106,000	328,000	287	(3)	233,000	667,000
Grand total	707,000	389,000	287	(3)	311,000	1,410,000
Stocks, June 30, 2014	521,000	308,000	2,950	(6)	(6)	1,720,000

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

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

<sup>2</sup>Includes calcium molybdate.

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

<sup>4</sup>Includes ingot, wire, rod, and sheet.

<sup>5</sup>Includes construction, mining, oil and gas, metalworking machinery.

<sup>6</sup>Withheld to avoid disclosing company proprietary data; included in "Total."

TABLE 3  
U.S. EXPORTS OF MOLYBDENUM ORES AND CONCENTRATES  
(including roasted concentrate), BY COUNTRY<sup>1</sup>

(Kilograms, contained molybdenum)

Country	2013			2014		
	January– December	July	January– July	June	July	January– July
Antigua and Barbuda	--	--	--	--	--	22,400
Argentina	--	--	--	--	--	5,110
Australia	214,000	41,100	214,000	--	--	--
Austria	31,800	--	31,800	--	--	--
Belgium	3,770,000	342,000	1,780,000	701,000	846,000	3,310,000
Brazil	690,000	104,000	453,000	32,700	74,600	211,000
Canada	2,070,000	147,000	1,170,000	198,000	255,000	1,410,000
Chile	--	--	--	--	275,000	275,000
China	1,520,000	66,500	555,000	108,000	54,000	655,000
Germany	172,000	--	172,000	--	--	89
India	1,310,000	140,000	823,000	50,400	30,500	332,000
Israel	--	--	--	--	--	795
Japan	4,900,000	390,000	2,460,000	609,000	592,000	3,730,000
Korea, Republic of	898,000	89,500	569,000	121,000	73,800	871,000
Mexico	9,160,000	958,000	5,440,000	440,000	931,000	4,220,000
Netherlands	21,100,000	2,890,000	12,700,000	2,070,000	1,890,000	9,670,000
Peru	24,700	--	18,500	--	--	--
Philippines	2,180	--	2,180	--	--	--
Singapore	1,370	1,370	1,370	--	--	--
South Africa	194,000	40,000	154,000	--	--	--
Taiwan	24,900	5,030	24,900	--	--	--
Thailand	46,700	--	37,000	--	--	13,300
United Kingdom	2,380,000	33,500	1,480,000	543,000	390,000	6,840,000
Venezuela	210	--	--	--	--	--
Vietnam	57,100	335	42,500	2,360	13,200	49,800
Total	48,600,000	5,250,000	28,100,000	4,870,000	5,430,000	31,600,000

-- 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.

TABLE 4  
U.S. EXPORTS OF FERROMOLYBDENUM, BY COUNTRY<sup>1</sup>

(Kilograms, contained molybdenum)

Country	2013			2014		
	January– December	July	January– July	June	July	January– July
Argentina	382	--	--	--	--	--
Canada	635,000	67,600	405,000	70,300	65,900	367,000
Chile	1,480	--	--	--	--	--
Colombia	238	--	119	133	--	267
Denmark	513	--	171	171	--	171
Israel	168	--	168	--	--	--
Mexico	156,000	13,500	73,900	318	318	26,200
Netherlands	48,600	--	48,600	--	--	--
Panama	13,200	--	13,200	--	--	--
Peru	6,550	--	6,000	--	--	--
Vietnam	--	--	--	--	135	135
Total	862,000	81,100	547,000	71,000	66,300	394,000

-- 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.

TABLE 5  
U.S. IMPORTS FOR CONSUMPTION OF MOLYBDENUM PRODUCTS<sup>1</sup>

(Kilograms, unless otherwise specified)

Material	January–December 2013			July 2014			January–July 2014		
	Gross weight	Contained molybdenum	Value <sup>2</sup> (thousands)	Gross weight	Contained molybdenum	Value <sup>2</sup> (thousands)	Gross weight	Contained molybdenum	Value <sup>2</sup> (thousands)
Ore and concentrates roasted	6,870,000	4,160,000	\$47,100	612,000	385,000	\$10,800	4,260,000	2,610,000	\$59,700
Ore and concentrates other	18,100,000	8,890,000	250,000	1,980,000	1,030,000	31,300	11,200,000	5,710,000	157,000
Molybdenum chemicals:									
Oxides and hydroxides	283,000	NA	5,390	56,000	--	1,180	270,000	NA	4,880
Molybdates of ammonium	1,080,000	611,000	17,000	94,200	53,100	1,840	585,000	330,000	9,850
Molybdates (all others)	3,770	1,550	190	1,870	740	19	5,590	2,220	73
Molybdenum orange	274,000	NA	2,430	7,660	--	80	235,000	NA	1,820
Ferromolybdenum	6,120,000	4,090,000	108,000	807,000	535,000	18,000	4,200,000	2,800,000	80,600
Molybdenum powders	448,000	433,000	16,000	52,300	49,300	2,050	291,000	277,000	10,500
Molybdenum unwrought	762,000	747,000	22,100	57,300	57,100	1,810	731,000	706,000	19,000
Molybdenum waste and scrap	739,000	690,000	21,900	157,000	153,000	4,560	775,000	760,000	23,000
Molybdenum wire	22,700	NA	3,490	1,150	--	182	9,010	NA	1,430
Molybdenum other	298,000	NA	20,800	86,100	--	4,230	282,000	NA	17,900
Total	35,000,000	XX	514,000	3,920,000	2,260,000	76,100	22,900,000	XX	385,000

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

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

<sup>2</sup>Customs value.

Source: U.S. Census Bureau.