

Mineral Industry Surveys

For information, contact:

Robert G. Reese, Jr., Vanadium Commodity Specialist
U.S. Geological Survey
989 National Center
Reston, VA 20192
Telephone: (703) 648-4981, Fax: (703) 648-7757
E-mail: rreese@usgs.gov

Adam Wario (Data)
Telephone: (703) 648-7972
Fax: (703) 648-7975

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

VANADIUM IN JULY 2002

According to Metal Bulletin, U.S. ferrovanadium prices rose during July and ranged from \$4.40 to \$5.25 per pound of vanadium content, compared with \$3.75 to \$5.00 in June. The range for European ferrovanadium prices in July was \$8.40 to \$9.00 per kilogram of vanadium content. In June, European ferrovanadium ranged from \$8.60 to \$9.00 per kilogram of vanadium content. Vanadium pentoxide prices also increased; the July price range was \$1.45 to \$1.70 per pound. Although

U.S. prices for ferrovanadium firmed during July, due in part to lower imports from South Africa and China, industry observers noted that the vanadium market still remained oversupplied (Ryan's Notes, 2002).

Reference Cited

Ryan's Notes, 2002, [Untitled]: Ryan's Notes, v. 8, no. 29, July 22, p. 3.

TABLE 1
U.S. CONSUMPTION AND CONSUMER STOCKS OF VANADIUM, BY FORM 1/

(Kilograms, contained vanadium)

	2001 p/		2002			
	Consumption	Stocks	June		July	
			Consumption	Stocks r/	Consumption	Stocks
Ferrovandium 2/	2,800,000	245,000	239,000 r/	254,000	240,000	256,000
Vanadium-aluminum alloy	W	10,500	W	10,900	W	11,000
Other 3/	484,000	7,910	35,000	8,190	36,800	8,260
Total	3,280,000	264,000	274,000 r/	273,000	277,000	275,000

p/ Preliminary. r/ Revised. W Withheld to avoid disclosing company proprietary data; included with "Other."

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Includes other vanadium-iron-carbon alloys as well as vanadium oxides added directly to steel.

3/ Includes other vanadium alloys, vanadium metal, vanadium pentoxide, vanadates, chlorides, other specialty chemicals, and items indicated by symbol W.

TABLE 2
U.S. CONSUMPTION OF VANADIUM, BY END USE 1/

(Kilograms, contained vanadium)

	2001 p/	2002		
		June	July	Year to date
Steel:				
Carbon	997,000	79,100 r/	86,700	516,000
High-strength low-alloy	769,000	W	W	W
Stainless and heat-resisting	26,300	W	W	W
Full alloy	701,000	57,800	55,400	450,000
Tool	261,000	18,200	22,000	165,000
Total steel	2,750,000	236,000 r/	237,000	1,650,000
Superalloys	16,000	1,020	1,180	8,100
Miscellaneous and unspecified 2/	514,000	37,800	38,400	268,000
Total consumption	3,280,000	274,000 r/	277,000	1,920,000

p/ Preliminary. r/ Revised. W Withheld to avoid disclosing company proprietary data; included with "Total steel."

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

2/ Includes cast irons, alloys excluding steel and superalloys, chemical and ceramic uses, and other miscellaneous and unspecified uses.

TABLE 3
U.S. IMPORTS AND EXPORTS OF ALUMINUM-VANADIUM MASTER ALLOY AND
VANADIUM METAL, INCLUDING WASTE AND SCRAP 1/

(Kilograms, gross weight)

	Aluminum-vanadium master alloy		Vanadium metal, including waste and scrap	
	Quantity	Value	Quantity	Value
Imports for consumption:				
2001	10,100	\$45,100	50,000	\$639,000
2002:				
April	19,000	59,500	--	--
May	--	--	110	66,500
June:				
Canada	19,500	33,100	--	--
Germany	--	--	80	41,900
Russia	--	--	203	13,200
Total	1,910	33,100	283	55,100
Year to date	78,400	170,000	3,300	255,000
Exports:				
2001	363,000	6,990,000	26,300	380,000
2002:				
April	463,000	7,230,000	3,100	68,800
May	31,800	735,000	999	203,000
June:				
Canada	28,900	849,000	--	--
China	113	3,340	--	--
Germany	--	--	4,310	42,500
Hong Kong	296	8,710	--	--
Japan	2,270	66,700	--	--
Korea, Republic of	539	15,800	--	--
Mexico	1,360	40,100	--	--
Singapore	303	8,920	--	--
Spain	--	--	1,970	24,600
Taiwan	868	16,500	--	--
Total	34,600	1,010,000	6,280	67,100
Year to date	291,000	6,540,000	14,400	515,000

-- Zero.

1/ 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. IMPORTS AND EXPORTS OF FERROVANADIUM, VANADIUM PENTOXIDE (ANHYDRIDE) AND
OTHER OXIDES AND HYDROXIDES OF VANADIUM 1/

(Kilograms, contained vanadium)

	Ferrovanadium		Vanadium pentoxide (anhydride) 2/		Other oxides and hydroxides of vanadium	
	Quantity	Value	Quantity	Value	Quantity	Value
Imports for consumption:						
2001	2,550,000	\$20,500,000	600,000	\$3,460,000	1,080,000	\$510,000
2002:						
April	229,000	2,050,000	19,800	161,000	12,900	232,000
May	247,000	1,640,000	58,800	427,000	50	2,600
June:						
Austria	15,800	118,000	--	--	--	--
Canada	63,500	485,000	--	--	--	--
China	12,500	88,200	--	--	--	--
Czech Republic	130,000	1,000,000	--	--	--	--
Germany	--	--	--	--	10,000	78,300
Israel	--	--	--	--	5,890	68,400
Italy	--	--	--	--	66	3,230
Total	222,000	1,690,000	--	--	16,000	150,000
Year to date	1,290,000	8,860,000	182,000	822,000	37,600	463,000

See footnotes at end of table.

TABLE 4--Continued
 U.S. IMPORTS AND EXPORTS OF FERROVANADIUM, VANADIUM PENTOXIDE (ANHYDRIDE) AND
 OTHER OXIDES AND HYDROXIDES OF VANADIUM 1/

(Kilograms, contained vanadium)

	Ferrovanadium		Vanadium pentoxide (anhydride) 2/		Other oxides and hydroxides of vanadium	
	Quantity	Value	Quantity	Value	Quantity	Value
Exports:						
2001	70,000	\$768,000	71,400	\$407,000	63,000	\$562,000
2002:						
April	11,100	96,600	8,160	54,200	4,260	42,900
May	15,900	125,000	1,060	14,500	36,000	313,000
June:						
Canada	199	3,520	--	--	5,390	55,100
Mexico	1,400	46,600	989	9,820	--	--
New Zealand	--	--	185	3,590	--	--
Total	1,600	50,100	1,170	13,400	5,390	55,100
Year to date	56,300	563,000	30,600	180,000	123,000	844,000

-- Zero.

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

2/ May include catalysts containing vanadium pentoxide.

Source: U.S. Census Bureau.

TABLE 5
 U.S. IMPORTS FOR CONSUMPTION OF VANADIUM-BEARING ASH, SLAG 1/

(Kilograms, contained vanadium pentoxide)

	Ash and residues		Ash and residues (not from the manufacture of iron and steel)		Slag, from the manufacture of iron and steel	
	Quantity	Value	Quantity	Value	Quantity	Value
2001	1,980,000	\$2,270,000	1,980,000	\$1,290,000	998,000	\$1,170,000
2002:						
April	--	--	158,000	69,800	--	--
May	--	--	216,000	153,000	--	--
June:						
Canada	--	--	293,000	127,000	--	--
Mexico	--	--	33,700	9,390	--	--
United Kingdom	--	--	22,100	24,400	--	--
Total	--	--	348,000	161,000	--	--
Year to date	--	--	1,250,000	636,000	480,000	75,200

-- Zero.

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

Source: U.S. Census Bureau.

TABLE 6
 U.S. IMPORTS FOR CONSUMPTION OF MISCELLANEOUS VANADIUM CHEMICALS 1/

(Kilograms, contained vanadium)

	Sulfates		Vanadates	
	Quantity	Value	Quantity	Value
2001	--	--	102,000	\$623,000
2002:				
April	1,430	37,400	124	5,470
May	3,130	84,800	414	86,000
June:				
South Africa	7,890	212,000	--	--
Year to date	12,500	342,000	28,400	350,000

-- Zero.

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

Source: U.S. Census Bureau.