

Mineral Industry Surveys

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CHROMIUM IN JUNE 2022

Stainless steel production increased by 9% in June 2022 compared with production in May 2022 and decreased by 19% compared with production in June 2021 (table 1). Government stockpile inventories for chromium metal were essentially unchanged compared with those in May and decreased by 6% compared with June 2021. Government stockpile inventories for high-carbon ferrochromium decreased by 5% and lowcarbon ferrochromium inventories were unchanged compared with those in May. Inventories for high-carbon ferrochromium and low-carbon ferrochromium decreased by 33% and by 3%, respectively, compared with inventories in June 2021 (table 3).

In June 2022, the leading import sources for ferrochromium into the United States were, in descending order of quantity by gross weight, Kazakhstan, Finland, and Russia (table 6), whereas the leading import sources for chromium metal were China, the United Kingdom, and Russia (table 7).

Imports of chromite ore, chromium ferroalloys, stainless steel, and stainless steel scrap commonly fluctuate from month to month (fig. 1, table 1). In June 2022, imports of chromite ore increased five-fold compared with imports in May and decreased by 91% compared with imports in June 2021. Imports of all grades of chromium ferroalloys, including ferrochromium silicon, increased more than four times imports of chromium ferroalloys in May and decreased by 57% compared with imports in June 2021. Stainless steel imports in June 2022 increased by 4% compared with imports in May and decreased by 18% compared with those in June 2021. Stainless steel scrap imports in June 2022 were 6% less than imports in May and 4% more than those in June 2021 (table



Figure 1. Chromium ferroalloys, stainless steel, and stainless steel scrap imports from June 2020 through June 2022. Source: U.S. Census Bureau.

1).

The U.S. chromium metal (99% chromium) average price was \$8.52 per pound in June 2022, a 3% decrease from the average price in May, and more than double the average price in June 2021. The U.S. high-carbon ferrochromium (62%–70% chromium) average price was 399.72 cents per pound of contained chromium in June 2022, unchanged from the average price in May 2022, and more than double the average price in June 2021 (fig. 2) (CRU Group, 2022).

Industry News

Universal Stainless & Alloy Products, Inc. announced its operations at its Bridgeville facility in Pennsylvania returned to full capacity in June following a metal spill from its electric arc furnace in April. No injuries or environmental impact were reported and there were no immediate delays in product delivery (Universal Stainless & Alloy Products, Inc., 2022).

Bauba Resources Ltd. (South Africa) announced an 8-year mining right had been granted to its subsidiary Nuco Chrome Bophuthatswana (Pty) Ltd. (South Africa) (Nuco Chrome) in the Kookfontein Mineral Right area of South Africa. The mining right would enable Nuco Chrome to mine for chromite, copper, gold, nickel, and platinum group metals in the Kookfontein Mineral Right area, located approximately 5 kilometers from Rustenburg and directly adjacent to the town of Phoken (Bauba Resources Ltd., 2022; undated).

Oman Chromite Company signed a joint exploration agreement with Minerals Development Oman (MDO) to determine the mining potential for chromite ore at two exploration sites in the Governorates of Al Batinah North and Al Buraimi. MDO is a state-owned mining and minerals processing company affiliated with Oman Investment Authority (a wealth fund of the Sultanate of Oman) that has been working to develop Oman's mineral resources (Al Maashani, 2022).

References Cited

Al Maashani, Qasim, 2022, Oman Chromite, MDO partnership to unlock new chromite reserves: Muscat, Sultanate of Oman, Oman Daily Observer, June 10. (Accessed August 2, 2022, at https://www.omanobserver.om/article/1120590/business/oman-chromite-

mdo-partnership-to-unlock-new-chromite-reserves.)

- Bauba Resources Ltd., 2022, Grant of mining right—Nuco Chrome: Johannesburg, South Africa, Bauba Resources Ltd. press release, June 30. (Accessed August 2, 2022, at https://baubaresources.co.za/wpcontent/uploads/2022/06/BAU-Nuco-Chrome-Mining-Right-Announcement-v3-300622-Clean.pdf.)
- Bauba Resources Ltd., [undated], Kookfontein Chrome Project: Johannesburg, South Africa, Bauba Resources Ltd. website. (Accessed August 2, 2022, at https://baubaresources.co.za/kookfontein-chromeproject/.)
- CRU Group, 2022, CRU prices: CRU Group, July 1. (Accessed August 2, 2022, via http://www.crugroup.com/.)
- Universal Stainless & Alloy Products, Inc., 2022, Universal Stainless resumes operations at Bridgeville, PA melt shop: Bridgeville, PA, Universal Stainless & Alloy Products, Inc. press release, June 21. (Accessed August 2, 2022, at https://investors.univstainless.com/news-releases/news-releasedetails/universal-stainless-resumes-operations-bridgeville-pa-melt-shop.)

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Figure 2. Average monthly prices for U.S. high-carbon ferrochromium (FeCr) and chromium metal from June 2020 through June 2022. Source: CRU Group.

NOTICE

The U.S. Geological Survey plans to discontinue reporting industry consumption of ferroalloys and chromium metal in tables 1 and 2 of this Mineral Industry Surveys report. The last published report that will include tables 1 and 2 will be Chromium in June 2022. Information in these tables will still be available on an annual basis in the chromium chapters of the Mineral Commodity Summaries and the Minerals Yearbook, Volume I, Metals and Minerals. Prior to the proposed discontinuation date, please direct any comments or concerns to Elizabeth Sangine, Chief, Mineral Commodities Section, escottsangine@usgs.gov.

TABLE 1 U.S. SALIENT CHROMIUM STATISTICS¹

(Metric tons, gross weight)

	2021		2022		
	January-				January–
	December	April	May	June	June ²
Production, stainless steel ³	2,370,000	183,000	161,000	176,000	1,090,000
Components of U.S. supply:					
Stainless steel scrap receipts	672,000	56,100 r	46,600	51,000 e	310,000 e
Stainless steel scrap consumption	1,010,000	83,900 r	73,100	83,900	470,000 ^e
Imports for consumption:					
Chromite ore	146,000	41,500	675	3,380	52,500
Ferrochromium:					
More than 4% carbon	347,000	101,000	2,430	17,000	197,000
More than 3% but not more than 4% carbon	6,700		16		16
More than 0.5% but not more than 3% carbon	1,810			306	586
Not more than 0.5% carbon	57,700	2,230	1,680	5,020	22,500
Ferrochromium silicon	19,800	3,500	1,440	110	10,700
Total ferroalloy imports	433,000	107,000	5,570	22,400	231,000
Chromium metal ⁴	12,100	1,490	1,840	1,660	8,390
Stainless steel	1,140,000	117,000	105,000	109,000	631,000
Stainless steel scrap	268,000	25,600	25,700	24,200	143,000
Distribution of U.S. supply:					
Consumption, industry, chromium ferroalloys and metal	314,000	W	W	W	W
Exports:					
Chromite ore	2,110	255	96	161	1,030
Chromium ferroalloys:					
High-carbon ferrochromium	1,690	213	366	453	1,450
Low-carbon ferrochromium	1,580	32	22	259	583
Ferrochromium silicon	134				40
Total ferroalloy exports	3,410	245	387	712	2,070
Chromium metal	456	45	68	34	315
Stainless steel	355,000	35,300	31,400	29,200	180,000
Stainless steel scrap	293,000	20,200	59,200	16,300	152,000
Stocks at end of period:					
Consumer, industry, chromium ferroalloys and metal	7,730	W	W	W	W
Government stockpile:					
Chromium ferroalloys ⁵	49,900	46,400	46,000	45,100	45,100
Chromium metal	3,560	3,520	3,520	3,480	3,480

^eEstimated. ^rRevised. W Withheld to avoid disclosing company proprietary data. -- Zero.

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

²May include revised data that are not broken out by specific month(s).

³Data on stainless steel production reported by American Iron and Steel Institute; monthly, quarterly, and year-to-date production of stainless and heat-resisting raw steel.

⁴Includes waste and scrap and other.

⁵Includes high- and low-carbon ferrochromium.

TABLE 2 U.S. CONSUMPTION AND STOCKS OF CHROMIUM PRODUCTS

(Metric	tons.	gross	weight	unless	otherwise	noted)
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	2022		
	May	June	
Consumption by end use:	2		
Steel:			
Carbon steel	W	W	
High-strength low-alloy steel	W	W	
Stainless and heat-resisting steel	W	W	
Unspecified steel ¹	W	W	
Superalloys	W	W	
Other alloys and uses ²	W	W	
Total	W	W	
Total, chromium content	W	W	
Consumption by material:			
Low-carbon ferrochromium	W	W	
High-carbon ferrochromium	W	W	
Ferrochromium silicon	W	W	
Chromium metal	W	W	
Chromium-aluminum alloy	W	W	
Other chromium materials ³	W	W	
Total	W	W	
Total, chromium content	W	W	
Consumer stocks:			
Low-carbon ferrochromium	W	W	
High-carbon ferrochromium	W	W	
Ferrochromium silicon	W	W	
Chromium metal	W	W	
Chromium-aluminum alloy	W	W	
Other chromium materials ³	W	W	
Total	W	W	
Total, chromium content	W	W	

W Withheld to avoid disclosing company proprietary data.

¹Includes electrical, full alloy, tool, and unspecified steel end uses.

²Includes cast irons, welding and alloy hard-facing rods and materials, wearand corrosion-resistant alloys, and aluminum, copper, magnetic, nickel, and other alloys.

³Includes chromite ore as foundry sand.

TABLE 3U.S. GOVERNMENT STOCKPILE INVENTORY OF
CHROMIUM MATERIALS1

(Metric tons)

	Chromium	ferroalloys	
	High-carbon	Low-carbon	
	ferro-	ferro-	Chromium
	chromium	chromium	metal
2021:	_		
June	27,500	27,500	3,690
July	27,300	27,500	3,690
August	26,200	27,500	3,620
September	25,600	27,400	3,620
October	25,600	27,400	3,620
November	24,700	27,200	3,560
December	22,900	27,000	3,560
2022:	_		
January	22,000	27,000	3,560
February	22,000	27,000	3,560
March	20,700	26,800	3,520
April	19,600	26,800	3,520
May	19,200	26,800	3,520
June	18,300	26,800	3,480

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

Source: Defense Logistics Agency, DLA Strategic Materials.

	Chrom	nite ore	Ch	romium ferroallo	Chromium metal ³		
	Gross		Gross	Chromium		Gross	
	weight	Value	weight	content	Value	weight	Value
	(metric tons)	(thousands)	(metric tons)	(metric tons)	(thousands)	(metric tons)	(thousands)
2021:							
June	155	\$86	82	43	\$142	86	\$1,200
July	156	104	274	147	529	15	406
August	116	81	435	212	600	47	1,000
September	302	191	354	167	484	25	773
October	142	95	752	403	2,260	21	584
November	219	135	465	254	947	21	418
December	50	37	558	179	676	29	924
January-December ⁴	2,110	1,430	3,410	1,670	6,510	456	9,660
2022:							
January	90	88	321	124	414	63	1,030
February	170	144	252	52	259	39	1,080
March	262	206	157	44	172	66	1,360
April	255	227	245	129	282	45	867
May	96	77	387	208	390	68	1,410
June	161	110	712	425	783	34	899
Januarv–June ⁴	1,030	852	2,070	982	2,300	315	6,640

TABLE 4 U.S. EXPORTS OF CHROMITE ORE, CHROMIUM FERROALLOYS, AND METAL $^{\rm 1}$

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

²Includes low- and high-carbon ferrochromium and ferrochromium silicon.

³Includes chromium metal, waste and scrap, and unwrought powders.

⁴May include revised data that are not broken out by specific month(s).

TABLE 5 U.S. IMPORTS FOR CONSUMPTION OF CHROMITE ORE, FERROCHROMIUM, AND CHROMIUM METAL $^{\rm 1}$

(Metric tons)

	2021		2022	
	January-			January-
	December	May	June	June ²
Chromite ore:		-		
Not more than 40% chromic oxide:	-			
Gross weight	15,800	161	53	2,030
Chromic oxide content	3,490	63	20	680
More than 40% but less than 46% chromic oxide:	=			
Gross weight	21,400	493	1,670	4,590
Chromic oxide content	9,270	215	722	1,990
46% or more chromic oxide:	-			
Gross weight	108,000	21	1,650	45,900
Chromic oxide content	94,300	14	790	39,500
Total, all grades:				
Gross weight	146,000	675	3,380	52,500
Chromic oxide content	107,000	292	1,530	42,100
Ferrochromium:	_			
Low-carbon: ³	-			
Not more than 0.5% carbon:	=			
Gross weight	57,700	1,680	5,020	22,500
Chromium content	40,400	1,150	3,530	15,600
More than 0.5% but not more than 3% carbon:	-			
Gross weight	1,810		306	586
Chromium content	1,250		200	391
Total, low-carbon:				
Gross weight	59,500	1,680	5,320	23,100
Chromium content	41,600	1,150	3,730	16,000
Medium-carbon: ⁴	=			
Gross weight	6,700	16		16
Chromium content	3,420	11		11
High-carbon: ⁵	_			
Gross weight	347,000	2,430	17,000	197,000
Chromium content	191,000	1,480	10,400	112,000
Total, all grades:				
Gross weight	413,000	4,130	22,300	221,000
Chromium content	236,000	2,640	14,100	128,000
Chromium metal:				
Unwrought powders	10,300	1,630	1,510	7,320
Waste and scrap	112	17	107	242
Other than waste and scrap and unwrought powders	1,710	192	42	833
Total, all grades	12,100	1,840	1,660	8,390

-- Zero.

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

²May include revised data that are not broken out by specific month(s).

³Ferrochromium containing not more than 3% carbon.

⁴Ferrochromium containing more than 3% carbon but not more than 4% carbon.

⁵Ferrochromium containing more than 4% carbon.

TABLE 6	
U.S. IMPORTS FOR CONSUMPTION OF FERROCHROMIUM IN 2021, BY GRADE AND COUNT	RY OR LOCALITY ¹

		June				January–June ²			
$\begin{tabular}{ c $		Gross	Chromium		Gross	Chromium			
Grade and country or locality (metric tons) (metric tons)		weight	content	Value ³	weight	content	Value ³		
High-carbon ferrochromium. ⁴ 154 101 \$371 $8,090$ $5,500$ \$26,000 India 5,100 2,710 $8,010$ $8,600$ $4,464$ $12,500$ India 150 92 2,44 804 498 $1,640$ Russia 5,600 2,600 $35,400$ $24,300$ $134,000$ Russia $2,640$ $1,410$ $4,600$ $20,500$ $42,600$ $35,400$ $24,400$ $43,600$ South Africa 5130 244 8387 $93,400$ $45,700$ $130,000$ Sweden $ 31,600$ $8,780$ $44,600$ Turkabwe $ 16.000$ $112,000$ $415,000$ Idedium-carbon ferrochromium. Kazakhstan 162 99 800 189 116 89 More than 0.5% but not more than 3% carbon 162 99 800 189 116 89 More than 0.5% carbon: 162 99 8	Grade and country or locality	(metric tons)	(metric tons)	(thousands)	(metric tons)	(metric tons)	(thousands)		
Albania 154 101 \$371 $8,090$ $5,500$ \$25,000 Finland 150 2,710 8,010 8,600 4,640 12,500 Kazakhstan 2,640 1,410 4,640 22,640 4,400 2,640 4,200 5,500 24,300 134,000 Sweden - - - 3,700 2,150 8,700 130,000 Sweden - - - 3,170 2,150 8,760 Turkey 244 158 996 13,600 8,780 44,600 Zubrabawe - - - - 16 11 99 Awerenton ferrochronium. Kazakhstan 17,000 10,000 56,600 197,000 112,000 415,000 Nore than 0.5% carbon - - - - 16 19 Chria 0.5% carbon - - - - 40 2,800 134 Orotal 0.5% carbo	High-carbon ferrochromium ⁴	()	((((()		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Albania	154	101	\$371	8,090	5,500	\$26,000		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Finland	5,100	2,710	8,010	8,600	4,640	12,500		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	India	150	92	244	804	498	1,640		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Kazakhstan	8,210	5,660	42,000	35,400	24,300	134,000		
	Russia	2,640	1,410	4,600	20,500	12,600	40,800		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	South Africa	513	248	387	93,400	45,700	130,000		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Sweden				3,170	2,150	8,760		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Turkey	244	158	996	13,600	8,780	44,600		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Zimbabwe				13,900	7,610	16,600		
Medium-carbon ferrochromium, Kazakhstan ⁵ - - - - 16 11 99 Low-carbon ferrochromium, ⁶ More than 0.5% but not more than 3% carbon 162 99 800 189 116 89, Kazakhstan 162 99 800 189 116 89, Kazakhstan 162 99 800 189 116 89, Not more than 0.5% carbon: 306 200 1,600 586 391 2,060 Not more than 0.5% carbon: - - - - 40 28 12' Brazil 390 305 1,770 599 455 2,630 Germany 122 16 89 920 648 4,355 Kazakhstan 1,650 1,190 16,800 5,360 3,870 39,000 Russia 1,840 1,280 16,800 10,600 7,140 61,200 Sweden - - - 14 10 55 Total 5,000 2,500 15,600 124,000	Total	17.000	10,400	56,600	197,000	112,000	415,000		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Medium-carbon ferrochromium. Kazakhstan ⁵				16	11	90		
More than 0.5% but not more than 3% carbonBrazil1629980018911689Kazakhstan1629980018911689Idadi1017953972761,17Total3062001,6005863912,060Not more than 0.5% carbon:4028122Brazil147985764753051,844China3903051,7705994552,633Germany8485822,6404,2403,00013,500India1006237910062377Japan2216899206484,351Kazakhstan1,6501,19016,8005,3603,87039,000Russia1,6501,9016,80010,6007,14061,200Sweden1389778:Total5,0203,53039,00022,50015,600124,000Albania1541013718,0905,50026,600Belgium4028122Brazil3903051,7705994552,633Germany1541013718,0905,50026,600Brazil2096484,5502,6301,7705994552,633Finland250 <td< td=""><td>Low-carbon ferrochromium^{.6}</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Low-carbon ferrochromium ^{.6}								
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	More than 0.5% but not more than 3% carbon								
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Brazil	162	99	800	189	116	893		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Kazakhstan	144	101	795	397	276	1.170		
Not more than 0.5% carbon: Job Job </td <td>Total</td> <td>306</td> <td>200</td> <td>1.600</td> <td>586</td> <td>391</td> <td>2.060</td>	Total	306	200	1.600	586	391	2.060		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Not more than 0.5% carbon:			-,		• • •	_,		
Brain147985764753051.84China3903051,7705994552,630Germany8485822,6404,2403,00013,500India1006237910062377Japan2216899206484,350Kazakhstan1,6501,19016,8005,3603,87039,000Russia1,6501,28016,80010,6007,14061,200Sweden13897788Total5,0203,53039,00022,50015,600124,000All grades:4028122Brazil3093051,7705994552,630Germany1541013718,0905,50026,000Belgium4028122Brazil3093051,7705994552,630Germany8485822,6404,2403,00013,500India2501546239045602,020Ipan2216899206484,350Kazakhstan10,0006,95059,60041,20028,500174,000Kasakhstan51324838793,40045,700130,000	Belgium				40	28	127		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Brazil	147	98	576	475	305	1.840		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	China		305	1.770	599	455	2.630		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Germany	848	582	2.640	4.240	3.000	13.500		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	India	100	62	379	100	62	379		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Japan		16	89	920	648	4 350		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Kazakhstan	1.650	1.190	16.800	5.360	3.870	39.000		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Russia	1.860	1.280	16.800	10.600	7.140	61.200		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Sweden		-,		14	10	59		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Turkey				138	97	783		
All grades: 154 101 371 8,090 5,500 26,000 Belgium 40 28 122 Brazil 309 196 1,380 664 420 2,730 China 390 305 1,770 599 455 2,630 Finland 5,100 2,710 8,010 8,600 4,640 12,500 Germany 848 582 2,640 4,240 3,000 13,500 India 250 154 623 904 560 2,020 Japan 22 16 89 920 648 4,350 Kazakhstan 10,000 6,950 59,600 41,200 28,500 174,000 Russia 4,500 2,680 21,400 31,100 19,700 102,000 South Africa 513 248 387 93,400 45,700 130,000	Total	5.020	3,530	39,000	22,500	15,600	124,000		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	All grades:		-,	.,	,		,		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Albania	154	101	371	8 090	5 500	26,000		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Belgium				40	28	127		
China 390 305 1,770 599 455 2,633 Finland 5,100 2,710 8,010 8,600 4,640 12,500 Germany 848 582 2,640 4,240 3,000 13,500 India 250 154 623 904 560 2,020 Japan 22 16 89 920 648 4,350 Kazakhstan 10,000 6,950 59,600 41,200 28,500 174,000 Russia 4,500 2,680 21,400 31,100 19,700 102,000 South Africa 513 248 387 93,400 45,700 130,000	Brazil	309	196	1.380	664	420	2.730		
Finland 5,100 2,710 8,010 8,600 4,640 12,500 Germany 5,100 2,710 8,010 8,600 4,640 12,500 India 250 154 623 904 560 2,020 Japan 22 16 89 920 648 4,350 Kazakhstan 10,000 6,950 59,600 41,200 28,500 174,000 Russia 4,500 2,680 21,400 31,100 19,700 102,000 South Africa 513 248 387 93,400 45,700 130,000	China		305	1.770	599	455	2.630		
Germany 848 582 2,640 4,240 3,000 13,500 India 250 154 623 904 560 2,020 Japan 22 16 89 920 648 4,350 Kazakhstan 10,000 6,950 59,600 41,200 28,500 174,000 Russia 4,500 2,680 21,400 31,100 19,700 102,000 South Africa 513 248 387 93,400 45,700 130,000	Finland	5.100	2.710	8.010	8,600	4.640	12.500		
India 250 154 623 904 560 2,020 Japan 22 16 89 920 648 4,350 Kazakhstan 10,000 6,950 59,600 41,200 28,500 174,000 Russia 4,500 2,680 21,400 31,100 19,700 102,000 South Africa 513 248 387 93,400 45,700 130,000	Germany	848	582	2,640	4 240	3,000	13 500		
Japan 22 16 89 920 648 4,350 Kazakhstan 10,000 6,950 59,600 41,200 28,500 174,000 Russia 4,500 2,680 21,400 31,100 19,700 102,000 South Africa 513 248 387 93,400 45,700 130,000	India	250	154	623	904	560	2.020		
Kazakhstan 10,000 6,950 59,600 41,200 28,500 174,000 Russia 4,500 2,680 21,400 31,100 19,700 102,000 South Africa 513 248 387 93,400 45,700 130,000	Japan		16	89	920	648	4 350		
Russia 4,500 2,680 21,400 31,100 19,700 102,000 South Africa 513 248 387 93,400 45,700 130,000	Kazakhstan	10 000	6 950	59 600	41 200	28 500	174 000		
South Africa 513 248 387 93,400 45,700 130,000	Russia	4 500	2,680	21,400	31,100	19 700	102,000		
	South Africa	513	2,000	387	93,400	45,700	130,000		
Sweden 3180 2160 8820	Sweden				3 180	2,160	8 820		
Turkey 244 158 996 13 700 8 870 45 400	Turkey	244	158	996	13 700	8 870	45 400		
Zimbabwe 13 900 7 610 16 600	Zimbabwe	211			13,900	7 610	16 600		
Total 22.300 14 100 97 200 221 000 128 000 541 000	Total	22.300	14 100	97 200	221 000	128 000	541 000		

-- Zero.

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

²May include revised data that are not broken out by specific month(s).

³Customs import value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise into the United States.

⁴Ferrochromium containing more than 4% carbon.

⁵Ferrochromium containing more than 3% carbon but not more than 4% carbon.

⁶Ferrochromium containing not more than 3% carbon.

TABLE 7
U.S. IMPORTS FOR CONSUMPTION OF CHROMIUM METAL IN 2021,
BY GRADE AND BY COUNTRY OR LOCALITY ¹

	Ju	June		Januarv–June ²	
	Gross weight	Value ³	Gross weight	Value ³	
Grade and country or locality	(metric tons)	(thousands)	(metric tons)	(thousands)	
Unwrought powders:		. ,	· /		
China	788	\$9,470	2,500	\$28,300	
France	134	2,630	1,250	18,400	
Germany	6	125	113	1,910	
India			80	1,360	
Korea, Republic of			16	228	
Russia	210	2,350	1,630	17,300	
Spain			29	138	
Ukraine			1	22	
United Kingdom	371	9,020	1,690	32,000	
Total	1,510	23,600	7,320	99,700	
Waste and scrap:					
Canada	3	19	3	19	
China			25	218	
Japan			(4)	4	
South Africa	14	180	14	180	
United Kingdom	89	937	199	2,050	
Total	107	1,140	242	2,470	
Other than waste and scrap and unwrought powders:					
Austria			(4)	3	
Canada	(4)	5	(4)	8	
China	1	90	4	407	
France	(4)	4	(4)	22	
Germany	(4)	32	14	401	
Italy			(4)	30	
Japan	1	49	4	205	
Malaysia			(4)	19	
Russia	40	584	749	8,730	
South Africa			8	77	
United Kingdom			55	827	
Total	42	764	833	10,700	
All grades:					
Austria			(4)	3	
Canada	3	24	3	26	
China	789	9,560	2,530	28,900	
France	134	2,630	1,250	18,400	
Germany	7	157	126	2,310	
India			80	1,360	
Italy			(4)	30	
Japan	1	49	4	209	
Korea, Republic of			16	228	
Malaysia			(4)	19	
Russia	250	2,930	2,380	26,100	
South Africa	14	180	22	257	
Spain			29	138	
Ukraine			1	22	
United Kingdom	461	9,960	1,940	34,900	
Total	1.660	25,500	8,390	113.000	

-- Zero.

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

²May include revised data that are not broken out by specific month(s).
 ³Customs import value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise into the United States.
 ⁴Less than ¹/₂ unit.

TABLE 8	
U.S. STAINLESS STEEL TRADE, BY PRODUCT, IN 20	21

	Ju	June		/-June ²
	Gross weight	Value ³	Gross weight	Value ³
Stainless steel product	(metric tons)	(thousands)	(metric tons)	(thousands)
Exports:				
Ingot	688	\$6,010	6,660	\$45,200
Flat-rolled (width > 600 mm)	16,100	85,200	104,000	489,000
Flat-rolled (width < 600 mm)	5,320	36,300	30,400	204,000
Bars and rods in irregular coils	381	1,880	1,270	7,590
Other bars and rods	2,690	36,400	14,500	188,000
Wire	639	13,700	3,870	77,900
Tubes, pipes, hollow profiles	3,340	39,800	18,900	201,000
Total	29,200	219,000	180,000	1,210,000
Stainless steel scrap	16,300	29,300	152,000	184,000
Grand total	45,500	249,000	332,000	1,400,000
Imports:				
Ingot	15,800	53,800	85,900	278,000
Flat-rolled (width > 600 mm)	53,000	195,000	299,000	1,040,000
Flat-rolled (width < 600 mm)	5,270	30,000	33,500	165,000
Bars and rods in irregular coils	5,580	29,800	28,100	129,000
Other bars and rods	11,200	63,900	69,400	360,000
Wire	4,180	25,300	29,300	159,000
Tubes, pipes, hollow profiles	14,400	103,000	86,400	595,000
Total	109,000	500,000	631,000	2,730,000
Stainless steel scrap	24,200	44,100	143,000	270,000
Grand total	134,000	544,000	775,000	3,000,000

¹Data are rounded to no more than three significant digits; may not add to totals shown. ²May include revised data that are not broken out by specific month(s). ³Export value is free alongside ship. Import value is Customs import value, which generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other incurred in bringing the merchandise into the United States.