

Mineral Industry Surveys

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CHROMIUM IN AUGUST 2012

On the basis of gross weight, consumption of chromium ferroalloys and metal in August 2012 increased by 9% compared with consumption in July 2012. Consumption in August 2012 increased by 10% compared with consumption in the August 2011

Included in this Mineral Industry Surveys are U.S. salient chromium statistics, U.S. Government stockpile inventory of

chromium materials in August 2012, consumption by end use and consumer stocks of chromium ferroalloys and metal at the end of August 2012, and U.S. foreign trade data for selected chromium-containing materials in August 2012.

TABLE 1 U.S. SALIENT CHROMIUM STATISTICS 1

(Metric tons, gross weight)

Components of U.S. supply: Stainless steel scrap receipts 866,000 71,800 71,800 71,600 578,000 Stainless steel scrap consumption 1,300,000 108,000 106,000 109,000 877,000 Imports for consumption: 191,000 39,000 7,050 43,000 188,000 Ferrochromium: 191,000 39,000 7,050 43,000 188,000 More than 4% carbon 462,000 22,100 32,600 21,300 292,000 More than 3% but not more than 4% carbon 1,510 140 More than 0.5% but not more than 3% carbon 393 100 1,230 1,900 Not more than 0.5% carbon 53,700 2,440 5,190 2,550 31,500 Ferrochromium silicon 20,000 3,100 16,300 Total ferroalloy imports 538,000 24,600 42,100 23,900 342,000 Chromium metal 13,600 1,520 1,480 1,280 11,400 Stainless steel 605,000 60,400 65,300 62,800 445,000 Stainless steel scrap 169,000 12,900 9,710 10,000 108,000 Distribution of U.S. supply: 2,200 2,200 2,200 2,200 2,200 Chromium ferroalloys: 422,000 35,900 34,600 37,500 290,000 Exports: 2,550 11,400 886 1,410 17,500 Chromium ferroalloys: 4,260 428 196 82 2,220 Low-carbon ferrochromium 1,030 58 113 23 497 Ferrochromium silicon 28 42 56 Total ferroalloy exports 5,330 528 309 105 2,780 Chromium metal 557 34 43 48 324 Stainless steel 558,000 45,000 38,600 61,100 399,000 Stainless steel scrap 656,000 62,100 48,800 57,700 403,000 Stocks at end of period: Consumer, industry, chromium ferroalloys and metal 60,000 147,000	-	2011		201	2		
Production, stainless steel³ 2,070,000 165,000 175,000 171,000 1,360,000 Components of U.S. supply: 866,000 71,800 71,300 ° 71,600 578,000 Stainless steel scrap receipts 866,000 71,800 71,300 ° 71,600 578,000 Imports for consumption: 1,300,000 108,000 106,000 ° 109,000 877,000 Imports for consumption: Chromite ore 191,000 39,000 7,050 43,000 188,000 Ferrochromium: More than 4% carbon 1,510 140 140 More than 0.5% but not more than 4% carbon 1,510 140 140 More than 0.5% carbon 53,700 2,440 5,190 2,550 31,500 Ferrochromium silicon 20,000 3,100 16,300 16,300 15,200 1,480 1,280 11,400 31,000 16,300 342,000 15,300 24,400 24,100 23,900 342,000 342,000 15,300 11,400 15,300 11,400 15,300 11,400 15,300 11,400 <th></th> <th>January–</th> <th></th> <th></th> <th></th> <th>January-</th>		January–				January-	
Stainless steel scrap receipts 866,000 71,800 71,300 71,600 578,000		•	June	July	August	•	
Stainless steel scrap receipts 866,000 71,800 71,300 71,600 578,000	Production, stainless steel ³	2,070,000	165,000	175,000	171,000	1,360,000	
Stainless steel scrap consumption 1,300,000 108,000 106,000 109,000 877,000 109,00		=					
Imports for consumption:	Stainless steel scrap receipts	866,000	71,800	71,300 ^r	71,600	578,000	
Chromite ore 191,000 39,000 7,050 43,000 188,000 Ferrochromium:	Stainless steel scrap consumption	1,300,000	108,000	106,000 r	109,000	877,000	
Ferrochromium: More than 4% carbon 462,000 22,100 32,600 21,300 292,000 More than 3% but not more than 4% carbon 1,510 140 More than 0.5% but not more than 3% carbon 393 100 1,230 1,900 Not more than 0.5% carbon 537,000 2,440 5,190 2,550 31,500 Total ferroalloy imports 538,000 24,600 42,100 23,900 342,000 Chromium metal 13,600 1,520 1,480 1,280 11,400 Stainless steel 605,000 60,400 65,300 62,800 445,000 Stainless steel scrap 169,000 12,900 9,710 10,000 108,000 Exports: Chromitor of U.S. supply: 2,550 11,400 886 1,410 17,500 Chromium ferroalloys: 4,260 428 196 82 2,220 Chromium ferroalloys and metal 4,260 428 196 82 2,220 Chromium ferroalloy exports 5,330 528 309 105 2,780 Chromium metal 557 34 43 48 324 Stainless steel scrap 558,000 45,000 38,600 61,100 399,000 Stainless steel scrap 656,000 62,100 48,800 57,700 403,000 Stainless steel scrap 5,900 147,0	Imports for consumption:	=					
More than 4% carbon 462,000 22,100 32,600 21,300 292,000 More than 3% but not more than 4% carbon 1,510 140 More than 0.5% but not more than 3% carbon 393 100 1,230 1,900 Not more than 0.5% carbon 53,700 2,440 5,190 2,550 31,500 Ferrochromium silicon 20,000 3,100 16,300 Total ferroalloy imports 538,000 24,600 42,100 23,900 342,000 Chromium metal ⁴ 13,600 1,520 1,480 1,280 11,400 Stainless steel 605,000 60,400 65,300 62,800 445,000 Stainless steel scrap 169,000 12,900 9,710 10,000 108,000 Distribution of U.S. supply: Consumption, industry, chromium ferroalloys and metal 422,000 ° 35,900 ° 34,600 ° 37,500 290,000 Exports: Chromium ferroalloys: 4,260 428 196 82 2,220 <td>Chromite ore</td> <td>191,000</td> <td>39,000</td> <td>7,050</td> <td>43,000</td> <td>188,000</td>	Chromite ore	191,000	39,000	7,050	43,000	188,000	
More than 3% but not more than 4% carbon 1,510	Ferrochromium:						
More than 0.5% but not more than 3% carbon 393 100 1,230 1,900	More than 4% carbon	462,000	22,100	32,600	21,300	292,000	
Not more than 0.5% carbon 53,700 2,440 5,190 2,550 31,500	More than 3% but not more than 4% carbon	1,510				140	
Perrochromium silicon	More than 0.5% but not more than 3% carbon	393	100	1,230		1,900	
Total ferroalloy imports	Not more than 0.5% carbon	53,700	2,440	5,190	2,550	31,500	
Chromium metal ⁴ 13,600 1,520 1,480 1,280 11,400 Stainless steel 605,000 60,400 65,300 62,800 445,000 Stainless steel scrap 169,000 12,900 9,710 10,000 108,000 Distribution of U.S. supply: Consumption, industry, chromium ferroalloys and metal 422,000 r 35,900 r 34,600 r 37,500 290,000 Exports: Chromite ore 5,250 11,400 886 1,410 17,500 Chromium ferroalloys: High-carbon ferrochromium 4,260 428 196 82 2,220 Low-carbon ferrochromium 1,030 58 113 23 497 Ferrochromium silicon 28 42 56 Total ferroalloy exports 5,330 528 309 105 2,780 Chromium metal 557 34 43 48 324 Stainless steel 558,000 45,000 38,600 61,100	Ferrochromium silicon	20,000		3,100		16,300	
Stainless steel 605,000 60,400 65,300 62,800 445,000 Stainless steel scrap 169,000 12,900 9,710 10,000 108,000 Distribution of U.S. supply: Consumption, industry, chromium ferroalloys and metal 422,000 ° 35,900 ° 34,600 ° 37,500 290,000 Exports: Chromite ore 5,250 11,400 886 1,410 17,500 Chromium ferroalloys: High-carbon ferrochromium 4,260 428 196 82 2,220 Low-carbon ferrochromium 1,030 58 113 23 497 Ferrochromium silicon 28 42 56 Total ferroalloy exports 5,330 528 309 105 2,780 Chromium metal 557 34 43 48 324 Stainless steel 558,000 45,000 38,600 61,100 399,000 Stocks at end of period: Consumer, industry, chromium ferroalloys and metal 8,920 ° 9,930 ° 10,300 10,400	Total ferroalloy imports	538,000	24,600	42,100	23,900	342,000	
Stainless steel 605,000 60,400 65,300 62,800 445,000 Stainless steel scrap 169,000 12,900 9,710 10,000 108,000 Distribution of U.S. supply: Consumption, industry, chromium ferroalloys and metal 422,000 ° 35,900 ° 34,600 ° 37,500 290,000 Exports: Chromite ore 5,250 11,400 886 1,410 17,500 Chromium ferroalloys: High-carbon ferrochromium 4,260 428 196 82 2,220 Low-carbon ferrochromium 1,030 58 113 23 497 Ferrochromium silicon 28 42 56 Total ferroalloy exports 5,330 528 309 105 2,780 Chromium metal 557 34 43 48 324 Stainless steel 558,000 45,000 38,600 61,100 399,000 Stocks at end of period: Consumer, industry, chromium ferroalloys and metal 8,920 ° 9,930 ° 10,300 10,400	Chromium metal ⁴	13,600	1,520	1,480	1,280	11,400	
Distribution of U.S. supply: Consumption, industry, chromium ferroalloys and metal 422,000 ° 35,900 ° 34,600 ° 37,500 290,000		605,000	60,400	65,300	62,800	445,000	
Consumption, industry, chromium ferroalloys and metal 422,000 ° 35,900 ° 34,600 ° 37,500 290,000 Exports: 5,250 11,400 886 1,410 17,500 Chromite ore 5,250 11,400 886 1,410 17,500 Chromium ferroalloys: 4,260 428 196 82 2,220 Low-carbon ferrochromium 1,030 58 113 23 497 Ferrochromium silicon 28 42 56 Total ferroalloy exports 5,330 528 309 105 2,780 Chromium metal 557 34 43 43 48 324 Stainless steel 558,000 45,000 38,600 61,100 399,000 Stainless steel scrap 656,000 62,100 48,800 57,700 403,000 Stocks at end of period: 656,000 62,100 48,800 57,700 10,400 10,400 Consumer, industry, chromium ferroalloys and metal 8,920 ° 9,930 ° 10,300 ° 10,400 10,400 Government stockpile: 150,000 147,000 147,000 147,000 147,000 147,000	Stainless steel scrap	169,000	12,900	9,710	10,000	108,000	
Exports: 5,250 11,400 886 1,410 17,500 Chromite ore 5,250 11,400 886 1,410 17,500 Chromium ferroalloys: High-carbon ferrochromium 4,260 428 196 82 2,220 Low-carbon ferrochromium 1,030 58 113 23 497 Ferrochromium silicon 28 42 56 Total ferroalloy exports 5,330 528 309 105 2,780 Chromium metal 557 34 43 48 324 Stainless steel 558,000 45,000 38,600 61,100 399,000 Stocks at end of period: 656,000 62,100 48,800 57,700 403,000 Government stockpile: 656,000 147,000 147,000 147,000 147,000 147,000 147,000	Distribution of U.S. supply:	=					
Chromite ore 5,250 11,400 886 1,410 17,500 Chromium ferroalloys: High-carbon ferrochromium 4,260 428 196 82 2,220 Low-carbon ferrochromium 1,030 58 113 23 497 Ferrochromium silicon 28 42 56 Total ferroalloy exports 5,330 528 309 105 2,780 Chromium metal 557 34 43 48 324 Stainless steel 558,000 45,000 38,600 61,100 399,000 Stocks at end of period: 656,000 62,100 48,800 57,700 403,000 Stocks at end of period: 8,920 r 9,930 r 10,300 r 10,400 10,400 Government stockpile: 150,000 147,000 147,000 147,000 147,000 147,000	Consumption, industry, chromium ferroalloys and metal	422,000 r	35,900 ^r	34,600 ^r	37,500	290,000	
Chromium ferroalloys: 4,260 428 196 82 2,220 Low-carbon ferrochromium 1,030 58 113 23 497 Ferrochromium silicon 28 42 56 Total ferroalloy exports 5,330 528 309 105 2,780 Chromium metal 557 34 43 48 324 Stainless steel 558,000 45,000 38,600 61,100 399,000 Stainless steel scrap 656,000 62,100 48,800 57,700 403,000 Stocks at end of period: Consumer, industry, chromium ferroalloys and metal 8,920 ° 9,930 ° 10,300 ° 10,400 10,400 Government stockpile: Chromium ferroalloys 150,000 147,000 147,000 147,000 147,000 147,000	Exports:	-					
High-carbon ferrochromium 4,260 428 196 82 2,220 Low-carbon ferrochromium 1,030 58 113 23 497 Ferrochromium silicon 28 42 56 Total ferroalloy exports 5,330 528 309 105 2,780 Chromium metal 557 34 43 48 324 Stainless steel 558,000 45,000 38,600 61,100 399,000 Stocks at end of period: 656,000 62,100 48,800 57,700 403,000 Stocks at end of period: 8,920 r 9,930 r 10,300 r 10,400 10,400 Government stockpile: 150,000 147,000 147,000 147,000 147,000 147,000	Chromite ore	5,250	11,400	886	1,410	17,500	
Low-carbon ferrochromium 1,030 58 113 23 497 Ferrochromium silicon 28 42 56 Total ferroalloy exports 5,330 528 309 105 2,780 Chromium metal 557 34 43 48 324 Stainless steel 558,000 45,000 38,600 61,100 399,000 Stainless steel scrap 656,000 62,100 48,800 57,700 403,000 Stocks at end of period: Consumer, industry, chromium ferroalloys and metal 8,920 ° 9,930 ° 10,300 ° 10,400 10,400 Government stockpile: Chromium ferroalloys 150,000 147,000 147,000 147,000 147,000 147,000	Chromium ferroalloys:	<u> </u>					
Ferrochromium silicon 28 42 56 Total ferroalloy exports 5,330 528 309 105 2,780 Chromium metal 557 34 43 48 324 Stainless steel 558,000 45,000 38,600 61,100 399,000 Stainless steel scrap 656,000 62,100 48,800 57,700 403,000 Stocks at end of period: Consumer, industry, chromium ferroalloys and metal 8,920 ° 9,930 ° 10,300 ° 10,400 10,400 Government stockpile: Chromium ferroalloys 150,000 147,000 147,000 147,000 147,000 147,000	High-carbon ferrochromium	4,260	428	196	82	2,220	
Total ferroalloy exports 5,330 528 309 105 2,780 Chromium metal 557 34 43 48 324 Stainless steel 558,000 45,000 38,600 61,100 399,000 Stainless steel scrap 656,000 62,100 48,800 57,700 403,000 Stocks at end of period: Consumer, industry, chromium ferroalloys and metal 8,920 ° 9,930 ° 10,300 ° 10,400 10,400 Government stockpile: Chromium ferroalloys 150,000 147,000 147,000 147,000 147,000 147,000	Low-carbon ferrochromium	1,030	58	113	23	497	
Chromium metal 557 34 43 48 324 Stainless steel 558,000 45,000 38,600 61,100 399,000 Stainless steel scrap 656,000 62,100 48,800 57,700 403,000 Stocks at end of period: Consumer, industry, chromium ferroalloys and metal 8,920 ° 9,930 ° 10,300 ° 10,400 10,400 Government stockpile: Chromium ferroalloys 150,000 147,000 147,000 147,000 147,000 147,000	Ferrochromium silicon	28	42			56	
Stainless steel 558,000 45,000 38,600 61,100 399,000 Stainless steel scrap 656,000 62,100 48,800 57,700 403,000 Stocks at end of period: Consumer, industry, chromium ferroalloys and metal 8,920 ° 9,930 ° 10,300 ° 10,400 10,400 Government stockpile: Chromium ferroalloys 150,000 147,000 147,000 147,000 147,000	Total ferroalloy exports	5,330	528	309	105	2,780	
Stainless steel scrap 656,000 62,100 48,800 57,700 403,000 Stocks at end of period: Consumer, industry, chromium ferroalloys and metal 8,920 ° 9,930 ° 10,300 ° 10,400 10,400 Government stockpile: Chromium ferroalloys 150,000 147,000 147,000 147,000 147,000	Chromium metal	557	34	43	48	324	
Stocks at end of period: Consumer, industry, chromium ferroalloys and metal 8,920 ° 9,930 ° 10,300 ° 10,400 10,400 Government stockpile: 150,000 147,000 147,000 147,000 147,000	Stainless steel	558,000	45,000	38,600	61,100	399,000	
Consumer, industry, chromium ferroalloys and metal 8,920 ° 9,930 ° 10,300 ° 10,400 10,400 Government stockpile: Chromium ferroalloys 150,000 147,000 147,000 147,000 147,000 147,000	Stainless steel scrap	656,000	62,100	48,800	57,700	403,000	
Government stockpile: 150,000 147,000 </td <td>Stocks at end of period:</td> <td>_</td> <td></td> <td></td> <td></td> <td></td>	Stocks at end of period:	_					
<u>Chromium ferroalloys</u> 150,000 147,000 147,000 147,000 147,000	Consumer, industry, chromium ferroalloys and metal	8,920 r	9,930 ^r	10,300 ^r	10,400	10,400	
<u> </u>	Government stockpile:						
Chromium metal 4 230 4 090 4 090 4 090 4 090	Chromium ferroalloys	150,000	147,000	147,000	147,000	147,000	
7,250 7,070	Chromium metal	4,230	4,090	4,090	4,090	4,090	

Revised. -- 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.

 ${\it TABLE~2} \\ {\it U.S. REPORTED~CONSUMPTION~AND~STOCKS~OF~CHROMIUM~PRODUCTS}^{1,2} \\$

(Metric tons, gross weight unless otherwise noted)

	2012					
	Janua					
	July	August	August ³			
Consumption by end use:						
Steel:						
Carbon steel	339 г	362	2,700			
High-strength low-alloy steel	139	139	1,720			
Stainless and heat-resisting steel	30,200 ^r	33,000	252,000			
Unspecified steel ⁴	3,230	3,440	28,300			
Superalloys	494 ^r	500	4,180			
Other alloys and uses ⁵	112	107	876			
Total	34,600 r	37,500	290,000			
Total, chromium content	20,100 ^r	21,600	168,000			
Consumption by material:						
Low-carbon ferrochromium	2,440 ^r	2,480	19,900			
High-carbon ferrochromium	29,700 ^r	32,500	250,000			
Ferrochromium silicon	W	W	W			
Chromium metal	222 ^r	226	1,930			
Chromite ore	W	W	W			
Chromium-aluminum alloy	W	W	W			
Other chromium materials	W	W	W			
Total	34,600 r	37,500	290,000			
Total, chromium content	20,100 ^r	21,600	168,000			
Consumer stocks:						
Low-carbon ferrochromium	1,810 ^r	1,810	1,810			
High-carbon ferrochromium	7,640 ^r	7,780	7,780			
Ferrochromium silicon	W	W	W			
Chromium metal	130	132	132			
Chromium-aluminum alloy	W	W	W			
Other chromium materials	W	W	W			
Total	10,300 r	10,400	10,400			
Total, chromium content	6,090 ^r	6,140	6,140			

^rRevised. W Withheld to avoid disclosing company proprietary data; included in "Total."

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

²Includes estimates.

³May include revised data that are not broken out by specific month(s).

⁴Includes electrical, full alloy, tool, and unspecified steel end uses.

⁵Includes cast irons, welding and alloy hard-facing rods and materials, wear- and corrosion-resistant alloys, and aluminum, copper, magnetic, nickel, and other alloys.

TABLE 3 $\mbox{U.s. GOVERNMENT STOCKPILE INVENTORY OF } \mbox{CHROMIUM MATERIALS}^{1,2}$

(Metric tons)

	Chromium ferroalloys					
	High-carbon	Low-carbon				
	ferro-	ferro-	Chromium			
Period	chromium	chromium	metal			
2011:						
August	94,100	55,600	4,270			
September	95,200	55,100	4,240			
October	95,200	54,900	4,240			
November	95,200	54,600	4,230			
December	95,200	54,300	4,230			
2012:						
January	95,200	54,100	4,230			
February	95,200	53,200	4,230			
March	95,200	53,000	4,230			
April	95,200	52,200	4,090			
May	95,200	52,000	4,090			
June	95,200	52,000	4,090			
July	95,200	51,500	4,090			
August	95,200	51,500	4,090			

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

Source: Defense Logistics Agency, DLA Strategic Materials.

²These Government stocks are reported by the Defense Logistics Agency, DLA Strategic Materials in Inventory of Stockpile Materials D–1, which reports uncommitted inventory. Uncommitted inventory is that inventory for which there is no sales contact. Committed inventory is that inventory for which there is a sales contract, however, the material has not yet been shipped. For chromium materials, the D–1 report includes chromium materials that (1) meet specifications and are held in excess of goal and (2) do not meet specifications and are held in excess of goal. The D–1 report excludes chromium materials that are committed and awaiting shipment.

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

	Chrom	ite ore	Chr	omium ferroallo	ys ²	Chromiu	Chromium metal ³	
	Gross		Gross	Chromium		Gross		
	weight	Value	weight	content	Value	weight	Value	
Period	(metric tons)	(thousands)	(metric tons)	(metric tons)	(thousands)	(metric tons)	(thousands)	
2011:								
August	846	\$513	287	159	\$396	31	\$937	
September	739	491	554	281	793	66	1,150	
October	370	273	143	72	212	73	1,820	
November	615	394	377	151	496	31	805	
December	477	333	307	165	515	44	1,250	
January-December ⁴	5,250	3,520	5,330	2,500	7,670	557	13,800	
2012:	-							
January	803	475	374	199	417	24	891	
February	571	345	131	65	244	35	1,060	
March	455	292	391	210	561	42	1,150	
April	1,290	1,090	479	277	641	53	1,210	
May	673	377	460	251	664	46	1,170	
June	11,400	3,550	528	315	687	34	1,240	
July	886	538	309	155	498	43	1,240	
August	1,410	1,030	105	43	148	48	1,250	
January-August	17,500	7,690	2,780	1,510	3,860	324	9,210	

Data 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).

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

(Metric tons)

	2011		2012	
	January-			January–
	December ²	July	August	August
Chromite ore:				
Not more than 40% chromic oxide:	-			
Gross weight	151			
Chromic oxide content	78			
More than 40% but less than 46% chromic oxide:	-			
Gross weight	27,900		3,000	7,500
Chromic oxide content	12,600		1,320	3,340
46% or more chromic oxide:	-			
Gross weight	163,000	7,050	40,000	181,000
Chromic oxide content	90,000	3,410	18,500	87,500
Total, all grades:				
Gross weight	191,000	7,050	43,000	188,000
Chromic oxide content	103,000	3,410	19,900	90,900
Ferrochromium:				
Low-carbon: ³	=			
Not more than 0.5% carbon:	=			
Gross weight	53,700	5,190	2,550	31,500
Chromium content	37,100	3,580	1,780	21,800
More than 0.5% but not more than 3% carbon:	=			
Gross weight	393	1,230		1,900
Chromium content	224	849		1,270
Total, low-carbon:				
Gross weight	54,100	6,430	2,550	33,400
Chromium content	37,400	4,430	1,780	23,000
Medium-carbon: ⁴	=			
Gross weight	1,510			140
Chromium content	855			76
High-carbon: ⁵	-			
Gross weight	462,000	32,600	21,300	292,000
Chromium content	265,000	19,800	11,100	169,000
Total, all grades:				
Gross weight	518,000	39,000	23,900	325,000
Chromium content	304,000	24,300	12,900	192,000
Chromium metal:				
Unwrought powders	2,720	280	373	2,070
Waste and scrap	574	41	53	363
Other than waste and scrap and unwrought powders	10,300	1,160	858	8,990
Total, all grades	13,600	1,480	1,280	11,400

⁻⁻ 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.

 $^{^4\}mathrm{Ferrochromium}$ containing more than 3% carbon but not more than 4% carbon.

⁵Ferrochromium containing more than 4% carbon.

 ${\it TABLE~6}$ U.S. IMPORTS FOR CONSUMPTION OF FERROCHROMIUM IN 2012, BY GRADE AND COUNTRY 1

	August			January–August ²			
	Gross	Chromium		Gross	Chromium		
	weight	content	Value ³	weight	content	Value ³	
Grade and country	(metric tons)	(metric tons)	(thousands)	(metric tons)	(metric tons)	(thousands)	
High-carbon ferrochromium: ⁴	(,	((* * * * * * * * * * * * * * * * * * *	((,	(* * * * * * * * * * * * * * * * * * *	
Albania	300	200	\$526	1,800	1,160	\$2,630	
China				197	137	347	
India	963	583	1,300	11,500	7,000	15,100	
Kazakhstan				59,800	41,400	83,400	
Russia	1,160	803	1,630	24,800	16,300	35,200	
South Africa	17,400	8,560	17,800	140,000	69,300	139,000	
Spain				20	13	33	
Sweden				9,130	6,120	17,100	
Turkey	1,470	951		22,700	14,900	36,100	
•			2,070				
Zimbabwe Total	21 200	11,100		21,700	12,600	27,200	
	21,300	11,100	23,400	292,000	169,000	356,000	
Medium-carbon ferrochromium: ⁵				40	22	22	
Belgium				40	22	22	
Russia				100	54	54	
Total				140	76	76	
Low-carbon ferrochromium: ⁶							
More than 0.5% but not more than 3% carbon:							
China				69	46	99	
Kazakhstan				950	656	2,550	
Russia				579	400	1,750	
South Africa				302	166	610	
Total				1,900	1,270	5,000	
Not more than 0.5% carbon:							
Belgium				35	23	128	
Brazil	54	32	144	256	143	703	
China				40	25	204	
Germany	840	589	3,910	4,640	3,210	20,800	
Japan	300	209	1,460	1,400	975	6,880	
Kazakhstan				3,830	2,680	10,400	
Russia	983	683	2,940	18,500	12,700	57,700	
South Africa				500	338	1,530	
Turkey	368	264	1,250	2,250	1,610	7,660	
Total	2,550	1,780	9,700	31,500	21,800	106,000	
All grades:							
Albania	300	200	526	1,800	1,160	2,630	
Belgium				75	46	151	
Brazil	54	32	144	256	143	703	
China				306	208	650	
Germany	840	589	3,910	4,640	3,210	20,800	
India	963	583	1,300	11,500	7,000	15,100	
Japan	300	209	1,460	1,400	975	6,880	
Kazakhstan				64,600	44,800	96,400	
Russia	2,150	1,490	4,560	44,000	29,500	94,700	
South Africa	17,400	8,560	17,800	141,000	69,800	141,000	
Spain Spain				20	13	33	
Sweden				9,130	6,120	17,100	
	1 940	1 220					
Turkey	1,840	1,220	3,310	24,900	16,500	43,700	
Zimbabwe	22,000	12 000	22,000	21,700	12,600	27,200	
Total Zero.	23,900	12,900	33,000	325,000	192,000	467,000	

⁻⁻ 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% but not more than 4% carbon.

⁶Ferrochromium containing not more than 3% carbon.

TABLE 7 U.S. IMPORTS FOR CONSUMPTION OF CHROMIUM METAL IN 2012, BY GRADE AND BY COUNTRY 1

	August		January–August ²		
	Gross weight	Value ³	Gross weight	Value ³	
Grade and country	(metric tons)	(thousands)	(metric tons)	(thousands)	
Unwrought powders:					
China	56	\$697	517	\$7,880	
France	41	721	518	8,790	
Germany			17	617	
Japan			2	33	
Russia	200	2,230	571	6,330	
United Kingdom		1,050	447	5,880	
Total	373	4,700	2,070	29,500	
Waste and scrap:		,	7		
Japan			11	187	
Mexico		117	331	928	
Singapore	6	123	18	495	
Taiwan			3	35	
Total	53	240	363	1,640	
Other than waste and scrap and unwrought powders:		210	303	1,010	
Canada			2	20	
China	137	1,730	1,120	15,300	
France	- 76	1,250	1,690	27,300	
Germany	_	96	49	1,160	
Japan	- 0 1	42	6	361	
Liechtenstein	- 1	42	(4)	361	
Russia	480	4,730	3,740	46,300	
	_ 460	4,730	5,740	652	
Spain Sweden			(4)	16	
	_ 				
Switzerland		2.140	(4)	14	
United Kingdom		2,140	2,330 8,990	32,400 124,000	
Total	838	9,990	8,990	124,000	
All grades:	=		2	20	
Canada		2 420	2	20	
China	_ 192	2,430	1,630	23,200	
France	_ 117	1,970	2,210	36,100	
Germany	_ 6	96	67	1,780	
Japan	_ 1	42	20	581	
Liechtenstein			(4)	36	
Mexico	47	117	331	928	
Russia	680	6,970	4,310	52,600	
Singapore	_ 6	123	18	495	
Spain			60	652	
Sweden	_		(4)	16	
Switzerland	_		(4)	14	
Taiwan			3	35	
United Kingdom	235	3,190	2,770	38,300	
Total	1,280	14,900	11,400	155,000	

⁻⁻ 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 ½ unit.

TABLE 8 U.S. STAINLESS STEEL TRADE, BY PRODUCT, IN 2012^1

	Aug	August		January–August		
	Gross weight	Value ²	Gross weight	Value ²		
Stainless steel product	(metric tons)	(thousands)	(metric tons)	(thousands)		
Exports:						
Ingot	16,500	\$17,300	62,500	\$114,000		
Flat-rolled (width > 600 mm)	26,300	83,400	200,000	656,000		
Flat-rolled (width < 600 mm)	7,580	31,900	57,700	238,000		
Bars and rods in irregular coils	541	1,710	4,890	18,400		
Other bars and rods	4,600	34,100	33,000	257,000		
Wire	1,430	10,400	10,700	73,900		
Tubes, pipes, hollow profiles	4,100	37,600	30,800	269,000		
Total	61,100	216,000	399,000	1,630,000		
Stainless steel scrap	57,700	64,100	403,000	540,000		
Grand total	119,000	280,000	803,000	2,170,000		
Imports:						
Ingot	10,500	35,000	99,400	327,000		
Flat-rolled (width > 600 mm)	35,400	95,700	214,000	628,000		
Flat-rolled (width < 600 mm)	3,340	14,100	28,800	124,000		
Bars and rods in irregular coils	1,680	7,880	19,400	81,900		
Other bars and rods	403	2,420	2,170	13,700		
Wire	407	3,500	2,640	20,200		
Tubes, pipes, hollow profiles	11,000	165,000	78,000	682,000		
Total	62,800	324,000	445,000	1,880,000		
Stainless steel scrap	10,000	14,200	108,000	179,000		
Grand total	72,800	338,000	553,000	2,060,000		

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

²Export 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 charges incurred in bringing the merchandise into the United States.