

# Mineral Industry Surveys

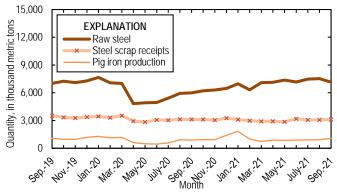
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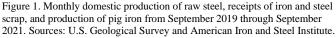
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#### **IRON AND STEEL SCRAP IN SEPTEMBER 2021**

In September 2021, purchased steel scrap receipts increased slightly and recirculating scrap production and iron and steel scrap consumption were nearly unchanged compared with those in August. Stocks of purchased and home scrap were nearly unchanged from those at the end of August. In September, pig iron production increased by 16% and consumption decreased slightly from those in August (table 1, fig. 1). Direct-reduced iron receipts decreased by 32% and consumption increased by 4%.





Exports of iron and steel scrap in September decreased by 34% from those in August (fig. 2, table 4). Turkey was the leading destination for exports, accounting for 27% of the total tonnage, followed by Mexico (21%) and Bangladesh (10%) (table 4). New York, NY, was the leading U.S. Customs district by tonnage of exports, accounting for 18% of the total, followed by Los Angeles, CA, (15%) and Laredo, TX (13%) (table 5).

Imports of iron and steel scrap increased slightly in September from those in August (fig. 2, table 7). Canada was the leading country of origin, accounting for 77% of the total tonnage of imports, followed by Mexico (12%) and the United Kingdom (9%) (table 7). Detroit, MI, was the leading U.S. Customs district by tonnage of imports, accounting for 39% of the total, followed by Seattle, WA, (18%) and New Orleans, LA, (9%) (table 8).

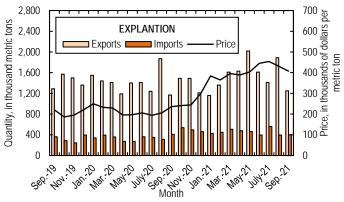


Figure 2. Monthly domestic imports and exports of iron and steel scrap and price for No. 1 heavy melting steel scrap from September 2019 through September 2021. Sources: U.S. Census Bureau and Fastmarkets AMM.

The daily average domestic raw steel production for September, as calculated from the American Iron and Steel Institute's monthly production data, was 238,000 metric tons, a 5% decrease from that in August 2021 and a 20% increase from that in September 2020. Raw steel production capability utilization was 83.3% in September, down from 84.8% in August and up from 68.6% in September 2020 (table 10) Increases in capability utilization and steel production were attributed to the industry's recovery from the effects of the global COVID-19 pandemic that caused lower rates of iron and steel consumption in mid-2020.

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### TABLE 1 IRON AND STEEL SCRAP, PIG IRON, AND DIRECT-REDUCED IRON STATISTICS FOR STEEL PRODUCERS, IN SEPTEMBER 2021<sup>1, 2</sup>

(Thousand metric tons)

	September	January-September <sup>3</sup>
Scrap:		<u> </u>
Receipts:		
From outside sources	3,120	27,000
From other own company plants	185	1,740
Production:		
Recirculating scrap	305	2,760
Obsolete scrap	12	98
Consumption (by type of furnace):		
Blast furnace	123	1,100
Basic oxygen process	304	2,800
Electric furnace	2,990	26,200
Other	108	759
Total consumption	3,530	30,900
Shipments	37	399
Stocks, end of period	3,880	3,880
Pig iron (includes hot metal):		
Receipts	135	1,970
Production	1,070	8,250
Consumption	1,290	10,000
Stocks, end of period	534	534
Direct-reduced iron: <sup>4</sup>		
Receipts	171	2,140
Consumption	258	2,120
Stocks, end of period	222	222

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

<sup>2</sup>Includes manufacturers of raw steel that also produce steel castings. September 2021 data are based on surveys, representing 54% of scrap consumption during this month, and estimates for nonrespondents of this survey.

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Includes direct-reduced iron, hot-briquetted iron, and iron carbide. Domestic production data are included in "Receipts."

#### TABLE 2

#### RECEIPTS FROM OUTSIDE SOURCES, PRODUCTION, CONSUMPTION, AND STOCKS OF IRON AND STEEL SCRAP, BY GRADE, FOR STEEL PRODUCERS, IN SEPTEMBER 2021<sup>1, 2</sup>

		September			January–September <sup>3</sup>		
	Receipts of scrap	Production of		Ending	Receipts of scrap	Production of	
Item	from outside sources	recirculating scrap	Consumption <sup>4</sup>	stocks	from outside sources	recirculating scrap	Consumption <sup>4</sup>
Carbon steel:							•
Low-phosphorus plate and punchings	14	W	15	W	124	W	136
Cut structural and plate	265	W	292	302	2,290	305	2,640
No. 1 heavy melting steel	257	40	296	162	2,160	340	2,520
No. 2 heavy melting steel	329	21	382	251	2,990	184	3,400
No. 1 and electric furnace bundles	116		118	139	1,000		999
No. 2 and all other bundles	65	W	72	30	616	W	626
Electric furnace 1 foot and under (not bundles)	3	W	W	W	W	W	W
Railroad rails	18	7	18	96	148	W	151
Turnings and borings	145	W	149	198	1,310	W	1,350
Slag scrap	26	22	53	76	267	278	486
Shredded and fragmentized	1,010	W	1,060	1,560	8,510	W	9,120
No. 1 busheling	373	W	402	367	3,220	W	3,360
Steel cans (post consumer)	W	W	W	W	W	W	W
All other carbon steel scrap	214	99	331	188	1,820	913	2,860
Stainless steel scrap	54	27	82	38	490	240	741
Alloy steel scrap	24	8	32	55	214	72	289
Ingot mold and stool scrap	W	W	3	2	W	W	28
Machinery and cupola cast iron	2		2	W	W		W
Cast iron borings	12	W	12	5	106	W	110
Motor blocks	W		W		W		W
Other iron scrap	62	15	62	85	487	116	524
Other mixed scrap	121	W	134	20	1,170	31	1,420
Total	3,120	305	3,530	3,880	27,000	2,760	30,900

(Thousand metric tons)

W Withheld to avoid disclosing company proprietary data; included in "Total." -- Zero.

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

<sup>2</sup>Includes manufacturers of raw steel that also produce steel castings.

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Includes recirculating scrap and home-generated obsolete scrap.

### TABLE 3RECEIPTS FROM OUTSIDE SOURCES, PRODUCTION, AND CONSUMPTION OF IRON AND STEEL SCRAP,BY REGION AND STATE, FOR STEEL PRODUCERS, IN SEPTEMBER 2021<sup>1,2</sup>

#### (Thousand metric tons)

		September		January–September <sup>3</sup>		
	Receipts of scrap	Production of		Receipts of scrap	Production of	
Region and State	from outside sources	recirculating scrap	Consumption <sup>4</sup>	from outside sources	recirculating scrap	Consumption <sup>4</sup>
Mid-Atlantic and New England:			•			•
New Jersey, New York,						
Pennsylvania	236	40	282	2,120	360	2,540
North Central:						
Illinois and Indiana	411	74	510	3,490	667	4,380
Iowa, Minnesota, Nebraska,						
Wisconsin	215	7	232	1,950	64	2,090
Michigan	38	4	44	482	152	544
Ohio	406	77	462	3,440	667	4,040
Total	1,070	161	1,250	9,360	1,550	11,000
South Atlantic:						
Georgia, North Carolina,						
South Carolina	290	W	310	2,510	W	2,660
Virginia, West Virginia	105	W	117	910	W	1,070
Total	395	19	427	3,420	143	3,730
South Central:						
Alabama, Kentucky,						
Mississippi, Tennessee	659	41	768	5,490	313	6,230
Arkansas and Texas	486	28	528	4,150	249	4,700
Total	1,150	70	1,300	9,640	562	10,900
Mountain and Pacific:						
California, Colorado,						
Oregon, Utah, Washington	269	15	275	2,480	140	2,650
Grand total	3,120	305	3,530	27,000	2,760	30,900

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

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

<sup>2</sup>Includes manufacturers of raw steel that also produce steel castings.

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Includes recirculating scrap and home-generated obsolete scrap.

## TABLE 4 U.S. EXPORTS OF IRON AND STEEL SCRAP BY SELECTED REGION AND COUNTRY OR LOCALITY, IN SEPTEMBER $2021^{1,2}$

(Thousand metric tons and thousand dollars	s)
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	Septen	nber	January–September <sup>3</sup>		
Region and country or locality	Quantity	Value	Quantity	Value	
Bangladesh	131	59,900	1,120	483,000	
Belgium	1	1,280	6	5,580	
Brazil	(4)	37	98	37,500	
Canada	61	23,700	668	206,000	
Cayman Islands	(4)	282	2	2,230	
China	22	2,610	113	45,000	
Ecuador			124	55,100	
Egypt			397	161,000	
Germany	1	496	9	5,280	
Greece	(4)	20	189	64,600	
Hong Kong	3	2,630	29	32,800	
India	38	38,700	458	302,000	
Indonesia	(4)	116	48	19,600	
Italy	(4)	21	229	105,000	
Japan	4	2,910	21	19,100	
Korea, Republic of	46	22,500	492	224,000	
Kuwait			12	4,170	
Malaysia	30	33,700	1,240	400,000	
Mexico	264	77500	2,590	904,000	
Netherlands	(4)	184	5	4,040	
Pakistan	65	35,200	524	288,000	
Peru	121	55,500	315	144,000	
Philippines	2	1,840	29	18,600	
Portugal			6	2,300	
Russia	(4)	20	2	1,830	
Saudi Arabia			147	62,100	
Singapore			2	1,370	
Spain	(4)	53	3	1,700	
Sweden	(4)	582	2	6,280	
Switzerland			47	23,900	
Taiwan	98	42,400	1,060	425,000	
Thailand	15	13,800	233	156,000	
Turkey	332	148,000	2,590	1,080,000	
United Arab Emirates	(4)	368	11	5,500	
United Kingdom	(4)	233	1	1,390	
Vietnam	15	5,690	1,090	453,000	
Other <sup>5</sup>	(4)	897	22	12,600	
Total	1,250	572,000	13,900	5,770,000	
7	,	, •	- ,	- , ,	

-- Zero.

<sup>1</sup>Includes tinplate and terneplate; excludes used rails for rerolling and other uses and ships, boats, and other vessels for scrapping. Export valuation is on a free-alongside-ship basis.

<sup>2</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Less than <sup>1</sup>/<sub>2</sub> unit.

<sup>5</sup>Includes countries with quantities of less than 500 metric tons for the current year.

### TABLE 5U.S. EXPORTS OF IRON AND STEEL SCRAP BY REGION ANDSELECTED CUSTOMS DISTRICT, IN SEPTEMBER 2021<sup>1,2</sup>

#### (Thousand metric tons and thousand dollars)

	Septen	nber	January-Se	eptember <sup>3</sup>
Region and customs district	Quantity	Value	Quantity	Value
Canada–United States border:	_			
Buffalo, NY	10	5,590	82	42,100
Chicago, IL	(4)	87	3	1,400
Detroit, MI	9	4,840	193	50,500
Duluth, MN	2	1,460	33	7,910
Great Falls, MT	3	1,240	23	6,610
Ogdensburg, NY	1	267	21	3,880
Pembina, ND	18	7,870	188	75,700
Other	10	1,590	92	11,200
Total	54	22,900	636	199,000
East coast:				
Baltimore, MD	- 11	7,070	392	193,000
Boston, MA	118	53,700	995	429,000
Charleston, SC	10	8,290	110	77,800
Miami, FL	35	15,700	327	153,000
New York City, NY	228	121,000	2,480	950,000
Norfolk, VA	34	25,600	310	196,000
Philadelphia, PA	47	21,300	818	341,000
Portland, ME	- 10	4,280	62	25,100
Providence, RI	34	15,500	335	138,000
Savannah, GA	- 15	12,600	140	97,400
St. Albans, VT	- 2	464	17	3,520
Wilmington, NC	(4)	100	2	1,380
Total	543	286,000	5,990	2,600,000
Gulf coast and Mexico–United States		,	,	, ,
border (includes Caribbean territories):				
El Paso, TX	20	9,670	216	86,400
Houston–Galveston, TX	13	10,400	260	157,000
Laredo, TX	167	36,200	1,220	328,000
Mobile, AL	- 1	363	7	4,840
New Orleans, LA	1	632	99	25,500
Nogales, AZ	(4)	102	2	647
San Juan, PR	- 7	2,160	125	44,300
Tampa, FL	- 16	8,230	434	153,000
U.S. Virgin Islands			6	2,300
Total	225	67,700	2,370	802,000
West coast and Hawaii:		07,700	2,370	002,000
Columbia–Snake, OR	33	16,700	775	354,000
Honolulu, HI, and Anchorage, AK	2	831	98	39,500
Los Angeles, CA	- 194	95,000	1,920	879,000
San Diego, CA	23	8,040	226	71,500
San Francisco, CA	- 23 87	40,100	1,250	531,000
San Hancisco, CA Seattle, WA	- 87	40,100 34,400	664	288,000
Total	430	195,000	4,940	2,160,000
Grand total	1,250	572,000	13,900	5,770,000
	1,230	572,000	15,900	5,770,000

-- Zero.

<sup>1</sup>Includes tinplate and terneplate; excludes used rails for rerolling and other uses and ships, boats, and other vessels for scrapping. Export valuation is on a free-alongside-ship basis.

<sup>2</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Less than <sup>1</sup>/<sub>2</sub> unit.

#### TABLE 6 U.S. EXPORTS OF IRON AND STEEL SCRAP AND OTHER FERROUS PRODUCTS BY GRADE, IN SEPTEMBER 2021<sup>1, 2</sup>

#### (Thousand metric tons and thousand dollars)

ItemQuantityValueQuantityValueNo. 1 heavy melting steel478181,0004,1401,740,000No. 2 heavy melting steel6128,000543247,000No. 1 bundles124,83021043,400No. 2 bundles3394222,750Shredded steel scrap372169,0004,2901,880,000Borings, shovelings and turnings41,350165,330Cut plate and structural4520,300472207,000Tinned iron or steel83,3308833,700Remelting scrap ingots(4)157181,740Cast iron6231,60013,1005,240,000Other iron and steel13765,7001,660694,000Total carbon steel and cast iron1,180506,00013,1005,240,000Stainless steel2434,700231238,000Other alloy steel4531,100631289,000Total carbon, stainless, alloy steel and cast iron1,250572,00013,9005,770,000Ships, boats, and other vessels for breaking up (for scrapping)(4)66(4)77Used rails(4)9(4)42439Total scrap exports1,250572,00013,9005,770,000Exports of manufactured ferrous products, Pig iron $< or = 0.5\%$ phosphorus(4)5321,630Pig iron $< or = 0.5\%$ phosphorus(4) <td< th=""><th></th><th>Septen</th><th>nber</th><th colspan="2">January–September<sup>3</sup></th></td<>		Septen	nber	January–September <sup>3</sup>		
No. 2 heavy melling steel         61 $28,000$ $543$ $247,000$ No. 1 bundles         3 $394$ $22$ $2,750$ Shredded steel scrap $372$ $169,000$ $4.290$ $1,880,000$ Borings, shovelings and turnings $4$ $1,350$ $16$ $5,390$ Cut plate and structural $45$ $20,300$ $472$ $207,000$ Remelting scrap ingots $4$ $1.350$ $16$ $5,390$ Cast iron $62$ $31,600$ $161$ $386,000$ Other iron and steel $137$ $65,700$ $1,660$ $694,000$ Total carbon steel and cast iron $1,180$ $506,000$ $13,100$ $5240,000$ Total stainless and alloy steel $69$ $65,800$ $862$ $528,000$ Total carbon, stainless, alloy steel and cast iron $1,250$ $572,000$ $13,900$ $5,770,000$ Ships, boats, and other vessels for $1250$ $572,000$ $13,900$ $5,770,000$ Exports of manufactured ferrous products, $1250$	Item	Quantity	Value			
No. 1 bundles124,83021043,400No. 2 bundles3394222,750Shredded steel scrap372169,0004,2901,880,000Borings, shovelings and turnings41,350165,390Cut plate and structural4520,300472207,000Tinned iron or steel83,3308833,700Remelting scrap ingots(4)157181,740Cast iron13765,7001,660694,000Other iron and steel13765,7001,660694,000Total carbon steel and cast iron1,180506,00013,1005,240,000Stainless steel2434,700231238,000Other alloy steel4531,100631289,000Total stainless and alloy steel6965,800862528,000Total stainless, alloy steel and cast iron1,250572,00013,9005,770,000Ships, boats, and other vessels for13721439Dired rails for rerolling and other uses13721439Total scrap exports1,250572,00013,9005,770,000Exports of manufactured ferrous products, Pig iron $\sim r = 0.5\%$ phosphorus(4)5321,630Pig iron $\sim r = 0.5\%$ phosphorus(4)5321,630Direct-reduced iron (DRI)217114848Spongy iron products, not DRI5730,50040,50 <td< td=""><td>No. 1 heavy melting steel</td><td>478</td><td>181,000</td><td>4,140</td><td>1,740,000</td></td<>	No. 1 heavy melting steel	478	181,000	4,140	1,740,000	
No. 2 bundles3394222,750Shredded steel scrap $372$ $169,000$ $4,290$ $1,880,000$ Borings, shovelings and turnings $4$ $1,350$ $16$ $5,390$ Cut plate and structural $45$ $20,300$ $472$ $207,000$ Tinned iron or steel $8$ $3,330$ $88$ $33,700$ Remelting scrap ingots $(4)$ $157$ $18$ $1,740$ Cast iron $62$ $31,600$ $1,610$ $386,000$ Other iron and steel $137$ $65,700$ $1.660$ $694,000$ Total carbon steel and cast iron $1,180$ $506,000$ $13,100$ $5,240,000$ Stainless steel $24$ $34,700$ $231$ $238,000$ Other alloy steel $69$ $65,800$ $862$ $528,000$ Total carbon, stainless, alloy steel and cast iron $1,250$ $572,000$ $13,900$ $5,770,000$ Ships, boats, and other vessels for breaking up (for scrapping) $(4)$ $66$ $(4)$ $77$ Used rails $(4)$ $46$ $1$ $2,520$ Total scrap exports $1,250$ $572,000$ $13,900$ $5,770,000$ Exports of manufactured ferrous products, Pig iron $> or = 0.5\%$ phosphorus $(4)$ $53$ $2$ $1,630$ Pig iron $> or = 0.5\%$ phosphorus $(4)$ $53$ $2$ $1,630$ Direct-reduced iron (DRI) $2$ $171$ $14$ $848$ Spongy iron products, not DRI $57$ $30,500$ $405$ $207,000$ Ot	No. 2 heavy melting steel	61	28,000	543	247,000	
Shredded steel scrap $372$ $169,000$ $4,290$ $1,880,000$ Borings, shovelings and turnings         4 $1,350$ 16 $5,390$ Cut plate and structural         45 $20,300$ $472$ $207,000$ Remelting scrap ingots         (4) $157$ $18$ $1,740$ Cast iron         62 $31,600$ $1,610$ $386,000$ Other iron and steel $137$ $65,700$ $1,660$ $694,000$ Total carbon steel and cast iron $1,180$ $506,000$ $13,100$ $5,240,000$ Other alloy steel         24 $34,700$ $231$ $238,000$ Total stainless and alloy steel         69 $65,800$ $862$ $528,000$ Total carbon, stainless, alloy steel and cast iron $1,250$ $572,000$ $13,900$ $5,770,000$ Ships, boats, and other vessels for $69$ $65,800$ $862$ $528,000$ Used rails for rerolling and other uses         1 $372$ 1 $439$ Total scrap exports         1 $372$ 1	No. 1 bundles	12	4,830	210	43,400	
Borings, shovelings and turnings41,350165,390Cut plate and structural4520,300472207,000Tinned iron or steel83,3308833,700Remelting scrap ingots(4)157181,740Cast iron6231,6001,610386,000Other iron and steel13765,7001,660694,000Total carbon steel and cast iron1,180506,00013,1005,240,000Stainless steel2434,700231238,000Other alloy steel6965,800862528,000Total stainless and alloy steel6965,800862528,000Total stainless, alloy steel and cast iron1,250572,00013,9005,770,000Ships, boats, and other vessels for44612,520breaking up (for scrapping)(4)66(4)77Used rails for rerolling and other uses13721439Total scrap exports13721439Total scrap exports(4)5321,630Pig iron $<$ or $=$ 0.5% phosphorus(4)9(4)42Alloy pig iron(4)6431,680Direct-reduced iron (DRI)217114848Spongy iron products, not DRI5730,500405207,000Graules for abrasive cleaning and other uses23,2101526,000Dowders of alloy steel	No. 2 bundles	3	394	22	2,750	
Cut plate and structural         45         20,300         472         207,000           Tinned iron or steel         8         3,330         88         33,700           Remelting scrap ingots         (4)         157         18         1,740           Cast iron         62         31,600         1,610         386,000           Other iron and steel         137         65,700         1,660         694,000           Total carbon steel and cast iron         1,180         506,000         13,100         5,240,000           Other alloy steel         24         34,700         231         238,000           Total carbon, stainless, alloy steel and cast iron         1,250         572,000         13,900         5,770,000           Ships, boats, and other vessels for         9         (4)         66         (4)         77           Used rails for rerolling and other uses         1         372         1         439           Total scrap exports         1         372         1         439           Total scrap exports         (4)         53         2         1,630           Pig iron < or = 0.5% phosphorus	Shredded steel scrap	372	169,000	4,290	1,880,000	
Tinned iron or steel83,3308833,700Remelting scrap ingots(4)157181,740Cast iron6231,6001,610386,000Other iron and steel13765,7001,660694,000Total carbon steel and cast iron1,180506,00013,1005,240,000Stainless steel2434,700231238,000Other alloy steel4531,100631289,000Total carbon, stainless, alloy steel and cast iron1,250572,00013,9005,770,000Ships, boats, and other vessels for breaking up (for scrapping)(4)66(4)77Used rails(4)4612,52013,9005,770,000Exports of manufactured ferrous products, Pig iron < or = 0.5% phosphorus	Borings, shovelings and turnings	4	1,350	16	5,390	
Remelting scrap ingots(4)157181,740Cast iron $62$ $31,600$ $1,610$ $386,000$ Other iron and steel $137$ $65,700$ $1,660$ $694,000$ Total carbon steel and cast iron $1,180$ $506,000$ $13,100$ $5,240,000$ Stainess steel $24$ $34,700$ $231$ $238,000$ Other alloy steel $69$ $65,800$ $862$ $528,000$ Total carbon, stainless, alloy steel and cast iron $1,250$ $572,000$ $13,900$ $5,770,000$ Ships, boats, and other vessels for $69$ $65,800$ $862$ $528,000$ Total scrap exports $1$ $372$ $1$ $439$ Total scrap exports $1,250$ $572,000$ $13,900$ $5,770,000$ Exports of manufactured ferrous products, $1$ $372$ $1$ $439$ Pig iron $< \sigma = 0.5\%$ phosphorus $(4)$ $53$ $2$ $1,630$ Pig iron $< \sigma = 0.5\%$ phosphorus $(4)$ $53$ $2$ $1,630$ Direct-reduced iron (DRI) $2$ $171$ $14$ $848$ Spongy iron products, not DRI $57$ $30,500$ $405$ $207,000$ Granules for abrasive cleaning and other uses $2$ $3,210$ $15$ $26,000$ Powders of alloy steel $1$ $6,250$ $13$ $60,010$ Other ferrous powders $6$ $8,070$ $63$ $81,000$ Total DRI, granules, powders $68$ $48,200$ $510$ $374,000$	Cut plate and structural	45	20,300	472	207,000	
Cast iron62 $31,60$ $1,610$ $386,000$ Other iron and steel137 $65,700$ $1,660$ $694,000$ Total carbon steel and cast iron1,180 $506,000$ $13,100$ $5,240,000$ Stainless steel24 $34,700$ $231$ $238,000$ Other alloy steel45 $31,100$ $631$ $289,000$ Total stainless and alloy steel and cast iron $1,250$ $572,000$ $13,900$ $5,770,000$ Ships, boats, and other vessels for $69$ $65,800$ $862$ $528,000$ breaking up (for scrapping)(4) $66$ (4) $77$ Used rails(4) $46$ 1 $2,520$ Used rails for rerolling and other uses1 $372$ 1 $439$ Total scrap exports1,250 $572,000$ $13,900$ $5,770,000$ Exports of manufactured ferrous products,(4) $53$ 2 $1,630$ Pig iron $< r = 0.5\%$ phosphorus(4) $53$ 2 $1,630$ Pig iron $> r = 0.5\%$ phosphorus(4) $53$ 2 $1,630$ Direct-reduced iron (DRI)2 $171$ $14$ $848$ Spongy iron products, not DRI $57$ $30,500$ $405$ $207,000$ Oraules for abrasive cleaning and other uses2 $3,210$ $15$ $26,000$ Powders of alloy steel1 $6,250$ $13$ $60,100$ Other ferrous powders $68$ $48,200$ $510$ $374,000$	Tinned iron or steel	8	3,330	88	33,700	
Other iron and steel137 $65,700$ $1,660$ $694,000$ Total carbon steel and cast iron $1,180$ $506,000$ $13,100$ $5,240,000$ Stainless steel $24$ $34,700$ $231$ $238,000$ Other alloy steel $45$ $31,100$ $631$ $289,000$ Total stainless and alloy steel and cast iron $1,250$ $572,000$ $13,900$ $5,770,000$ Ships, boats, and other vessels for $69$ $65,800$ $862$ $528,000$ breaking up (for scrapping)(4) $66$ (4) $77$ Used rails(4) $46$ 1 $2,520$ Used rails for rerolling and other uses $1.372$ 1 $439$ Total scrap exports $1.250$ $572,000$ $13,900$ $5,770,000$ Exports of manufactured ferrous products, $1.250$ $572,000$ $13,900$ $5,770,000$ Exports of manufactured ferrous products, $41$ $9$ $(4)$ $42$ Alloy pig iron $(4)$ $53$ $2$ $1,630$ Direct-reduced iron (DRI) $2$ $171$ $14$ $848$ Spongy iron products, not DRI $57$ $30,500$ $405$ $207,000$ Other ferrous powders $2$ $3,210$ $15$ $26,000$ Other ferrous powders $6$ $8,070$ $63$ $81,000$ Other ferrous powders $6$ $8,070$ $63$ $81,000$	Remelting scrap ingots	(4)	157	18	1,740	
Total carbon steel and cast iron $1,180$ $506,000$ $13,100$ $5,240,000$ Stainless steel24 $34,700$ 231 $238,000$ Other alloy steel45 $31,100$ $631$ $289,000$ Total stainless and alloy steel69 $65,800$ $862$ $528,000$ Total carbon, stainless, alloy steel and cast iron $1,250$ $572,000$ $13,900$ $5,770,000$ Ships, boats, and other vessels for breaking up (for scrapping)(4) $66$ (4) $77$ Used rails(4) $46$ 1 $2,520$ Total scrap exports1 $372$ 1 $439$ Total scrap exports1,250 $572,000$ $13,900$ $5,770,000$ Exports of manufactured ferrous products,1 $372$ 1 $439$ Pig iron $< or = 0.5\%$ phosphorus(4) $53$ 2 $1,630$ Pig iron $< or = 0.5\%$ phosphorus(4) $9$ (4) $42$ Alloy pig iron(4) $3$ (4) $48$ Total pig iron(4) $3$ (4) $48$ Direct-reduced iron (DRI)2 $171$ $14$ $848$ Spongy iron products, not DRI $57$ $30,500$ $405$ $207,000$ Granules for abrasive cleaning and other uses2 $3,210$ $15$ $26,000$ Powders of alloy steel1 $6,250$ $13$ $60,100$ Other ferrous powders $6$ $8,070$ $63$ $81,000$ Total DRI, granules, powders $68$ $48,200$ $510$ $3$	Cast iron	62	31,600	1,610	386,000	
Stainless steel24 $34,700$ $231$ $238,000$ Other alloy steel45 $31,100$ $631$ $289,000$ Total stainless and alloy steel69 $65,800$ $862$ $528,000$ Total carbon, stainless, alloy steel and cast iron $1,250$ $572,000$ $13,900$ $5,770,000$ Ships, boats, and other vessels for $1,250$ $572,000$ $13,900$ $5,770,000$ Used rails(4) $666$ (4) $77$ Used rails for rerolling and other uses $1$ $372$ $1$ $439$ Total scrap exports $1,250$ $572,000$ $13,900$ $5,770,000$ Exports of manufactured ferrous products, $1,250$ $572,000$ $13,900$ $5,770,000$ Pig iron < or = 0.5% phosphorus	Other iron and steel	137	65,700	1,660	694,000	
Other alloy steel45 $31,100$ $631$ $289,000$ Total stainless and alloy steel69 $65,800$ $862$ $528,000$ Total carbon, stainless, alloy steel and cast iron $1,250$ $572,000$ $13,900$ $5,770,000$ Ships, boats, and other vessels for $1,250$ $572,000$ $13,900$ $5,770,000$ Used rails(4) $66$ (4) $77$ Used rails for rerolling and other uses $1$ $372$ $1$ $439$ Total scrap exports $1,250$ $572,000$ $13,900$ $5,770,000$ Exports of manufactured ferrous products, $1$ $372$ $1$ $439$ Pig iron < or = 0.5% phosphorus	Total carbon steel and cast iron	1,180	506,000	13,100	5,240,000	
Total stainless and alloy steel69 $65,800$ $862$ $528,000$ Total carbon, stainless, alloy steel and cast iron $1,250$ $572,000$ $13,900$ $5,770,000$ Ships, boats, and other vessels for breaking up (for scrapping)(4) $66$ (4) $77$ Used rails(4) $46$ 1 $2,520$ Used rails for rerolling and other uses1 $372$ 1 $439$ Total scrap exports1,250 $572,000$ $13,900$ $5,770,000$ Exports of manufactured ferrous products, Pig iron < or = 0.5% phosphorus	Stainless steel	24	34,700	231	238,000	
Total carbon, stainless, alloy steel and cast iron $1,250$ $572,000$ $13,900$ $5,770,000$ Ships, boats, and other vessels for breaking up (for scrapping)(4) $66$ (4) $77$ Used rails(4) $46$ 1 $2,520$ Used rails for rerolling and other uses1 $372$ 1 $439$ Total scrap exports1,250 $572,000$ $13,900$ $5,770,000$ Exports of manufactured ferrous products,1 $372$ 1 $439$ Pig iron < or = 0.5% phosphorus	Other alloy steel	45	31,100	631	289,000	
Ships, boats, and other vessels for breaking up (for scrapping)(4) $66$ (4) $77$ Used rails(4) $46$ 1 $2,520$ Used rails for rerolling and other uses1 $372$ 1 $439$ Total scrap exports1,250 $572,000$ $13,900$ $5,770,000$ Exports of manufactured ferrous products,(4) $53$ 2 $1,630$ Pig iron < or = 0.5% phosphorus	Total stainless and alloy steel	69	65,800	862	528,000	
breaking up (for scrapping)(4) $66$ (4) $77$ Used rails(4) $46$ 1 $2,520$ Used rails for rerolling and other uses1 $372$ 1 $439$ Total scrap exports1,250 $572,000$ $13,900$ $5,770,000$ Exports of manufactured ferrous products,(4) $53$ 2 $1,630$ Pig iron < or = 0.5% phosphorus	Total carbon, stainless, alloy steel and cast iron	1,250	572,000	13,900	5,770,000	
Used rails(4)461 $2,520$ Used rails for rerolling and other uses1 $372$ 1 $439$ Total scrap exports1,250 $572,000$ $13,900$ $5,770,000$ Exports of manufactured ferrous products,(4) $53$ 2 $1,630$ Pig iron < or = 0.5% phosphorus	Ships, boats, and other vessels for					
Used rails for rerolling and other uses1 $372$ 1 $439$ Total scrap exports1,250 $572,000$ $13,900$ $5,770,000$ Exports of manufactured ferrous products,(4) $53$ 2 $1,630$ Pig iron < or = 0.5% phosphorus	breaking up (for scrapping)	(4)	66	(4)	77	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Used rails	(4)	46	1	2,520	
Exports of manufactured ferrous products,           Pig iron < or = 0.5% phosphorus	Used rails for rerolling and other uses	1	372	1	439	
Pig iron < or = $0.5\%$ phosphorus(4)5321,630Pig iron > or = $0.5\%$ phosphorus(4)9(4)42Alloy pig iron(4)3(4)8Total pig iron(4)6431,680Direct-reduced iron (DRI)217114848Spongy iron products, not DRI5730,500405207,000Granules for abrasive cleaning and other uses23,2101526,000Powders of alloy steel16,2501360,100Other ferrous powders68,0706381,000Total DRI, granules, powders6848,200510374,000	Total scrap exports	1,250	572,000	13,900	5,770,000	
Pig iron > or = 0.5% phosphorus         (4)         9         (4)         42           Alloy pig iron         (4)         3         (4)         8           Total pig iron         (4)         64         3         1,680           Direct-reduced iron (DRI)         2         171         14         848           Spongy iron products, not DRI         57         30,500         405         207,000           Granules for abrasive cleaning and other uses         2         3,210         15         26,000           Powders of alloy steel         1         6,250         13         60,100           Other ferrous powders         6         8,070         63         81,000           Total DRI, granules, powders         68         48,200         510         374,000	Exports of manufactured ferrous products,					
Alloy pig iron       (4)       3       (4)       8         Total pig iron       (4)       64       3       1,680         Direct-reduced iron (DRI)       2       171       14       848         Spongy iron products, not DRI       57       30,500       405       207,000         Granules for abrasive cleaning and other uses       2       3,210       15       26,000         Powders of alloy steel       1       6,250       13       60,100         Other ferrous powders       6       8,070       63       81,000         Total DRI, granules, powders       68       48,200       510       374,000	Pig iron $<$ or $= 0.5\%$ phosphorus	(4)	53	2	1,630	
Total pig iron         (4)         64         3         1,680           Direct-reduced iron (DRI)         2         171         14         848           Spongy iron products, not DRI         57         30,500         405         207,000           Granules for abrasive cleaning and other uses         2         3,210         15         26,000           Powders of alloy steel         1         6,250         13         60,100           Other ferrous powders         6         8,070         63         81,000           Total DRI, granules, powders         68         48,200         510         374,000	Pig iron > or = $0.5\%$ phosphorus	(4)	9	(4)	42	
Direct-reduced iron (DRI)         2         171         14         848           Spongy iron products, not DRI         57         30,500         405         207,000           Granules for abrasive cleaning and other uses         2         3,210         15         26,000           Powders of alloy steel         1         6,250         13         60,100           Other ferrous powders         6         8,070         63         81,000           Total DRI, granules, powders         68         48,200         510         374,000	Alloy pig iron	(4)	3	(4)	8	
Spongy iron products, not DRI         57         30,500         405         207,000           Granules for abrasive cleaning and other uses         2         3,210         15         26,000           Powders of alloy steel         1         6,250         13         60,100           Other ferrous powders         6         8,070         63         81,000           Total DRI, granules, powders         68         48,200         510         374,000	Total pig iron	(4)	64	3	1,680	
Granules for abrasive cleaning and other uses         2         3,210         15         26,000           Powders of alloy steel         1         6,250         13         60,100           Other ferrous powders         6         8,070         63         81,000           Total DRI, granules, powders         68         48,200         510         374,000	Direct-reduced iron (DRI)	2	171	14	848	
Powders of alloy steel         1         6,250         13         60,100           Other ferrous powders         6         8,070         63         81,000           Total DRI, granules, powders         68         48,200         510         374,000	Spongy iron products, not DRI	57	30,500	405	207,000	
Other ferrous powders         6         8,070         63         81,000           Total DRI, granules, powders         68         48,200         510         374,000	Granules for abrasive cleaning and other uses	2	3,210	15	26,000	
Total DRI, granules, powders         68         48,200         510         374,000	Powders of alloy steel	1	6,250	13	60,100	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Other ferrous powders	6	8,070	63	81,000	
Grand total         1,320         620,000         14,400         6,150,000	Total DRI, granules, powders	68	48,200	510	374,000	
	Grand total	1,320	620,000	14,400	6,150,000	

-- Zero.

<sup>1</sup>Export valuation is on a free-alongside-ship basis. <sup>2</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Less than <sup>1</sup>/<sub>2</sub> unit.

#### TABLE 7

### U.S. IMPORTS FOR CONSUMPTION OF IRON AND STEEL SCRAP BY SELECTED COUNTRY OR LOCALITY, IN SEPTEMBER $2021^{1,2}$

#### (Thousand metric tons and thousand dollars)

	Septen	ıber	January–September <sup>3</sup>		
Country or locality	Quantity	Value	Quantity	Value	
Bahamas	(4)	21	1	207	
Belgium			48	15,300	
Canada	312	152,000	2,790	1,260,000	
Cayman Islands	1	262	4	1,040	
China	(4)	226	6	1,590	
Colombia	(4)	324	2	3,400	
Dominican Republic	(4)	44	1	903	
Ecuador	(4)	411	1	2,020	
Germany	(4)	180	62	22,600	
Japan	3	58	27	745	
Mexico	49	24,100	416	235,000	
Netherlands	(4)	12	215	100,000	
New Zealand			30	16,900	
Poland			52	28,500	
Russia	1	1,100	2	3,470	
Singapore			3	374	
Spain			28	10,800	
Sweden	(4)	5	104	54,100	
United Kingdom	35	21,800	273	142,000	
Other <sup>5</sup>	1	507	12	10,500	
Total	403	201,000	4,080	1,910,000	

-- Zero.

<sup>1</sup>Includes tinplate and terneplate; excludes used rails for rerolling and other uses and ships, boats,

and other vessels for scrapping. Import valuation is on a Customs basis.

<sup>2</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Less than <sup>1</sup>/<sub>2</sub> unit.

<sup>5</sup>Includes countries with quantities of less than 500 metric tons for the current year.

#### TABLE 8 U.S. IMPORTS FOR CONSUMPTION OF IRON AND STEEL SCRAP BY SELECTED CUSTOMS DISTRICT, IN SEPTEMBER 2021<sup>1, 2</sup>

(Thousand metri	c tons and t	thousand dollars)
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	Septen	ıber	January-September <sup>3</sup>		
Customs district	Quantity	Value	Quantity	Value	
Baltimore, MD			2	1,990	
Buffalo, NY	31	26,500	300	193,000	
Charleston, SC	(4)	211	305	144,000	
Chicago, IL	5	2,040	31	7,350	
Cleveland, OH	(4)	186	13	2,240	
Detroit, MI	159	82,700	1,450	731,000	
Duluth, MN	15	6,830	132	54,000	
El Paso, TX	3	1,560	36	16,600	
Great Falls, MT	1	287	12	3,340	
Houston-Galveston, TX	1	901	12	9,590	
Laredo, TX	21	15,500	260	161,000	
Miami, FL	2	505	9	3,200	
Minneapolis, MN			1	191	
Mobile, AL	18	3,640	124	75,600	
New Orleans, LA	38	21,800	476	210,000	
New York City, NY	1	1,210	2	2,960	
Nogales, AZ	2	673	19	8,010	
Norfolk, VA			1	598	
Ogdensburg, NY	1	1,040	12	8,520	
Pembina, ND	23	11,200	174	79,600	
Portland, ME	(4)	3	1	780	
San Diego, CA	6	2,630	45	15,800	
Seattle, WA	74	20,800	650	179,000	
St. Albans, VT	1	449	13	4,730	
Other	(4)	97	1	806	
Total	403	201,000	4,080	1,910,000	

<sup>1</sup>Includes tinplate and terneplate; excludes used rails for rerolling and other uses and ships, boats and other vessels for scrapping. Import valuation is on a Customs basis.

 $^{2}\mbox{Data}$  are rounded to no more than three significant digits; may not add to totals shown.

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Less than <sup>1</sup>/<sub>2</sub> unit.

### TABLE 9U.S. IMPORTS OF IRON AND STEEL SCRAP AND OTHERFERROUS PRODUCTS BY GRADE, IN SEPTEMBER 2021<sup>1, 2</sup>

#### (Thousand metric tons and thousand dollars)

	Septer	nber	January-Se	ptember <sup>3</sup>
Item	Quantity	Value	Quantity	Value
No. 1 heavy melting steel	16	5,560	146	46,200
No. 2 heavy melting steel	10	3,750	91	30,600
No. 1 bundles	84	51,900	1,250	638,000
No. 2 bundles	6	2,590	67	26,500
Shredded steel scrap	65	25,400	464	166,000
Borings, shovelings and turnings	8	2,620	72	24,600
Cut plate and structural	10	4,750	160	59,000
Tinned iron or steel	24	10,800	190	83,600
Remelting scrap ingots	(4)	128	1	814
Cast iron	15	5,070	141	52,400
Other iron and steel	88	30,200	748	265,000
Total carbon steel and cast iron	326	143,000	3,330	1,390,000
Stainless steel	21	31,300	210	282,000
Other alloy steel	56	26,700	537	238,000
Total stainless and alloy steel	77	58,000	747	520,000
Total carbon, stainless, alloy steel and cast iron	403	201,000	4,080	1,910,000
Ships, boats, and other vessels for				
breaking up (for scrapping)			5	33,800
Used rails	(4)	36	1	309
Used rails for rerolling and other uses			1	997
Used rails other	(4)	738	1	2,040
Total scrap imports	403	202,000	4,090	1,950,000
Imports of manufactured ferrous products:				
Pig iron $<$ or $= 0.5\%$ phosphorus			(4)	633
Pig iron > or = $0.5\%$ phosphorus	516	318,000	4,780	2,630,000
Alloy pig iron	(4)	83	(4)	593
Total pig iron	516	318,000	4,780	2,630,000
Direct-reduced iron (DRI)	287	131,000	2,610	2,020,000
Spongy iron products, not DRI	(4)	390	2	4,180
Granules for abrasive cleaning and other uses	2	3,480	20	29,200
Powders of alloy steel	5	10,900	461	92,400
Other ferrous powders	4	7,430	33	62,800
Total DRI, granules, powders	299	153,000	3,130	2,200,000
Grand total	1,220	673,000	12,000	6,790,000

-- Zero.

<sup>1</sup>Import valuation is on a Customs basis.

<sup>2</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Less than <sup>1</sup>/<sub>2</sub> unit.

### TABLE 10 U.S. RAW STEEL PRODUCTION, RAW STEEL CAPABILITY UTILIZATION, AND CONTINUOUS CAST STEEL PRODUCTION $^{\rm I}$

	Raw steel particular thousand m		Raw steel capability utilization, percent		Continuous production	
		Year		Year		Year
Period	Monthly	to date <sup>2</sup>	Monthly	to date <sup>2</sup>	Monthly	to date <sup>2</sup>
2020:						
September	5,980	53,700	68.6	66.8	99.8	99.9
October	6,220	60,000	70.1	67.1	99.8	99.8
November	6,300	66,300	73.3	67.7	99.8	99.8
December	6,480	72,700	72.9	68.1	99.8	99.8
2021:						
January	6,970	6,970	76.6	76.6	99.8	99.8
February	6,320	13,300	76.8	76.7	99.8	99.8
March	7,100	20,400	78.0	77.1	99.8	99.8
April	7,130	27,500	80.8	78.0	99.8	99.8
May	7,370	34,900	81.0	78.7	99.8	99.8
June	7,170	42,100	83.0	79.4	99.8	99.8
July	7,480	49,500	84.4	80.1	99.8	99.8
August	7,520	57,100	84.8	80.7	99.8	99.8
September	7,150	64,200	83.3	81.0	99.8	99.8

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

 $^{2}$ May include revisions to previously published data.

Source: American Iron and Steel Institute.

#### TABLE 11 COMPOSITE PRICES FOR STEEL SCRAP AND PIG IRON

Period	Steel Sc	Steel Scrap <sup>1</sup>		Pig Iron <sup>2</sup>	
	\$/lt	\$/t	\$/lt	\$/t	
2020:					
September	240.24	236.45	272.50	268.20	
October	244.48	240.62	272.50	268.20	
November	248.28	244.36	333.35	328.09	
December	304.43	299.62	333.35	328.09	
Average, January–December	231.28	227.62	313.73	308.78	
2021:					
January	390.18	384.02	537.00	528.52	
February	371.23	365.37	508.08	500.06	
March	401.96	395.61	423.17	416.49	
April	394.84	388.60	479.13	471.56	
May	410.08	403.60	568.14	559.17	
June	452.46	445.31	568.14	559.17	
July	461.67	454.38	500.00	492.10	
August	438.33	431.41	581.71	572.52	
September	413.33	406.80	631.97	621.99	

<sup>1</sup>Prices are for No. 1 heavy melting steel scrap. Source: Fastmarkets AMM.

<sup>2</sup>Basic pig iron (HTS 7201.00.0000), average unit value, free on board, from Brazil received at New Orleans, LA. Source: U.S. Census Bureau.

Note: Long tons = lt; metric tons = t.