

Mineral Industry Surveys

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IRON AND STEEL SCRAP IN NOVEMBER 2023

In November 2023, purchased steel scrap receipts were unchanged, recirculating scrap production was essentially unchanged, and iron and steel scrap consumption increased slightly compared with those in October. Stocks of purchased and home scrap were unchanged from those at the end of October. In November 2023, pig iron production was essentially unchanged and consumption was unchanged from that in October. Direct-reduced iron receipts decreased 63% and consumption increased by 4% from that in October (table 1, fig. 1).

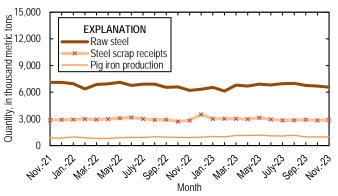


Figure 1. Monthly domestic production of raw steel, receipts of iron and steel scrap, and production of pig iron from November 2021 through November 2023. Sources: U.S. Geological Survey and American Iron and Steel Institute.

Exports of iron and steel scrap in November 2023 decreased by 23% from those in October (fig. 2, table 4). In November 2023, Turkey was the leading destination for exports, accounting for 24% of the total tonnage, followed by India (19%) and Bangladesh (14%) (table 4). Los Angeles, CA was the leading U.S. Customs districts by tonnage of exports, accounting for 17% of the total, followed by New York City, NY (13%), and San Francisco, CA (10%) (table 5).

Imports of iron and steel scrap in November 2023 decreased by 14% compared with those in October (fig. 2, table 7). Canada was the leading country of origin, accounting for 70% of the total tonnage of imports, followed by Mexico (18%) and Netherlands (11%) (table 7). Detroit, MI was the leading U.S.

Customs district by tonnage of imports, accounting for 44% of the total, followed by Laredo, TX (14%), and Seattle, WA (13%) (table 8).

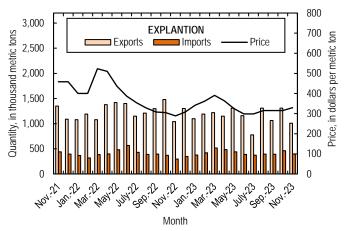


Figure 2. Monthly domestic imports and exports of iron and steel scrap and price for No. 1 heavy melting steel scrap from November 2021 through November 2023. Sources: U.S. Census Bureau and Fastmarkets AMM.

The daily average domestic raw steel production for November, as calculated from the American Iron and Steel Institute's monthly production data, was 219,000 metric tons, essentially unchanged from that in October and 6% more than November 2022. Raw steel production capability utilization was 73.4% in November 2023, up from 72.4% in October 2023 and 71.5% in November 2022 (table 10).

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TABLE 1 IRON AND STEEL SCRAP, PIG IRON, AND DIRECT-REDUCED IRON STATISTICS FOR STEEL PRODUCERS, IN NOVEMBER $2023^{1.2}$

	November	January–November ³
Scrap:		
Receipts:		
From outside sources	2,860	32,400
From other own company plants	187	2,070
Production:		
Recirculating scrap	383	3,800
Obsolete scrap	2	30
Consumption (by type of furnace):		
Blast furnace	134	1,410
Basic oxygen process	254	2,960
Electric furnace	3,050	33,200
Other		110
Total consumption	3,440	37,700
Shipments	20	253
Stocks, end of period	3,800	3,800
Pig iron (includes hot metal):		
Receipts	104	1,580
Production	965	11,700
Consumption	1,130	13,300
Stocks, end of period	489	489
Direct-reduced iron: ⁴		
Receipts	88	2,300
Consumption	196	2,290
Stocks, end of period	342	342

⁻⁻ Zero.

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

²Includes manufacturers of raw steel that also produce steel castings.

³May include revisions to previously published data.

 $^{^4}$ Includes direct-reduced iron, hot-briquetted iron, and iron carbide. Domestic production data are included in "Receipts."

 ${\it TABLE~2}$ RECEIPTS FROM OUTSIDE SOURCES, PRODUCTION, CONSUMPTION, AND STOCKS OF IRON AND STEEL SCRAP, BY GRADE, FOR STEEL PRODUCERS, IN NOVEMBER 2023 1,2

		November			January–November ³		
	Receipts of scrap	Production of		Ending	Receipts of scrap	Production of	
Item	from outside sources	recirculating scrap	Consumption ⁴	stocks	from outside sources	recirculating scrap	Consumption ⁴
Carbon steel:			•				•
Low-phosphorus plate and punchings	13	W	16	W	150	\mathbf{W}	175
Cut structural and plate	246	25	280	330	2,810	296	3,170
No. 1 heavy melting steel	266	50	330	175	3,160	544	3,640
No. 2 heavy melting steel	328	34	387	237	3,610	324	4,180
No. 1 and electric furnace bundles	103		111	112	1,220		1,250
No. 2 and all other bundles	55	W	W	29	675	W	706
Electric furnace 1 foot and under (not bundles)	W		W	W	W		W
Railroad rails	17	W	18	98	186	W	193
Turnings and borings	132	W	145	197	1,470	W	1,560
Slag scrap	27	22	51	50	302	272	599
Shredded and fragmentized	862	W	977	1,510	9,680	W	10,500
No. 1 busheling	334	21	366	328	3,880	250	4,160
Steel cans scrap (post consumer)	W	W	W	293	W	W	W
All other carbon steel scrap	156	116	278	229	1,810	1,200	3,130
Stainless steel scrap	42	19	62	32	459	208	693
Alloy steel scrap	23	8	31	49	258	91	344
Ingot mold and stool scrap	W	W	W	W	W	W	W
Machinery and cupola cast iron	3		W	W	W		W
Cast iron borings			12	W	126	W	131
Other iron scrap	69	10	78	46	693	125	766
Other mixed scrap	160	W	219	64	1,700	145	2,280
Total	2,860	383	3,440	3,800	32,400	3,800	37,700

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

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

²Includes manufacturers of raw steel that also produce steel castings.

³May include revisions to previously published data.

⁴Includes recirculating scrap.

TABLE 3 RECEIPTS FROM OUTSIDE SOURCES, PRODUCTION, AND CONSUMPTION OF IRON AND STEEL SCRAP, BY REGION AND STATE, FOR STEEL PRODUCERS, IN NOVEMBER $2023^{1,2}$

		November		January–November ³			
	Receipts of scrap	Production of		Receipts of scrap	Production of		
Region and State	from outside sources	recirculating scrap	Consumption ⁴	from outside sources	recirculating scrap	Consumption ⁴	
Mid-Atlantic and New England:			•			<u> </u>	
New Jersey, New York, Pennsylvania	184	37	257	2,060	420	2,850	
North Central:							
Illinois and Indiana	311	77	421	3,730	847	4,870	
Iowa, Nebraska, Wisconsin	199	W	209	2,430	W	2,390	
Michigan	32	W	32	347	W	350	
Ohio	416	78	495	4,450	904	5,340	
Total	957	161	1,160	11,000	1,820	12,900	
South Atlantic:							
Georgia, North Carolina, South Carolina	242	W	265	2,920	W	3,100	
Virginia, West Virginia	99	W	187	1,100	W	1,540	
Total	342	W	451	4,010	W	4,640	
South Central:							
Alabama, Kentucky, Mississippi, Tennessee	656	43	718	7,110	486	7,870	
Arkansas and Texas	423	43	532	4,990	429	5,770	
Total	1,080	87	1,250	12,100	916	13,600	
Mountain and Pacific:							
California, Colorado, Oregon, Utah, Washington	301	W	328	3,260	W	3,650	
Grand total	2,860	383	3,440	32,400	3,800	37,700	

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 manufacturers of raw steel that also produce steel castings.

³May include revisions to previously published data.

⁴Includes recirculating scrap.

TABLE 4 U.S. EXPORTS OF IRON AND STEEL SCRAP BY SELECTED REGION AND COUNTRY OR LOCALITY, IN NOVEMBER $2023^{1,2}$

(Thousand metric tons and thousand dollars)

	November		January–No	vember ³
Country or locality	Quantity	Value	Quantity	Value
Bangladesh	137	51,900	1,240	497,000
Belgium	1	219	12	11,300
Canada	37	12,700	467	172,000
China	2	5,170	17	39,500
Ecuador	2	550	103	42,500
Greece			93	34,200
India	193	94,600	1,480	835,000
Italy	(4)	259	218	87,800
Korea, Republic of	42	18,200	316	146,000
Malaysia	10	8,330	128	127,000
Mexico	122	43,900	1,910	609,000
Morocco			86	32,300
Netherlands	2	1,430	19	27,300
Pakistan	34	22,900	306	218,000
Peru	29	10,400	455	179,000
Taiwan	97	33,400	1,020	412,000
Thailand	24	17,900	277	175,000
Turkey	243	84,700	3,480	1,330,000
Vietnam	30	11,000	731	291,000
Other ⁵	7	6,890	237	104,000
Total	1,010	425,000	12,600	5,370,000

⁻⁻ Zero.

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

²Includes 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.

³May include revisions to previously published data.

⁴Less than ½ unit.

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

${\bf TABLE~5} \\ {\bf U.S.~EXPORTS~OF~IRON~AND~STEEL~SCRAP~BY~REGION~AND~SELECTED~CUSTOMS~DISTRICT,~IN~NOVEMBER~2023^{1,~2}}$

(Thousand metric tons and thousand dollars)

	Novem	ber	January–November ³		
Customs district	Quantity	Value	Quantity	Value	
Baltimore, MD	37	15,400	424	203,000	
Boston, MA	67	24,900	904	357,000	
Buffalo, NY	9	4,710	110	56,700	
Charleston, SC	8	4,730	62	46,900	
Columbia-Snake, OR	84	33,100	676	284,000	
Detroit, MI	10	4,330	156	66,300	
Duluth, MN	1	1,290	5	5,400	
El Paso, TX	(4)	110	87	1,650	
Honolulu, HI, and Anchorage, AK	26	9,090	118	44,900	
Houston-Galveston, TX	20	12,400	280	186,000	
Laredo, TX	60	23,200	968	302,000	
Los Angeles, CA	169	70,900	1,650	738,000	
Miami, FL	29	12,900	275	131,000	
Mobile, AL	1	383	8	7,480	
New Orleans, LA	(4)	170	39	9,300	
New York City, NY	132	58,400	2,090	955,000	
Norfolk, VA	43	27,200	415	273,000	
Ogdensburg, NY	3	730	18	5,470	
Pembina, ND	4	1,160	170	26,500	
Philadelphia, PA	37	13,400	608	231,000	
Portland, ME	2	577	77	27,700	
Providence, RI	30	10,300	492	183,000	
San Diego, CA	22	7,440	246	76,100	
San Francisco, CA	104	40,100	1,310	527,000	
San Juan, PR	24	7,940	219	74,200	
Savannah, GA	19	12,700	173	133,000	
Seattle, WA	59	24,100	546	241,000	
St. Albans, VT	3	732	25	5,590	
Tampa, FL	2	1,260	345	142,000	
U.S. Virgin Islands			6	2,350	
Other ⁵	5	1,030	91	28,800	
Total	1,010	425,000	12,600	5,370,000	

⁻⁻ Zero.

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

²Includes 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.

³May include revisions to previously published data.

⁴Less than ½ unit.

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

TABLE 6 U.S. EXPORTS OF IRON AND STEEL SCRAP AND OTHER FERROUS PRODUCTS BY GRADE, IN NOVEMBER 2023^{1, 2}

(Thousand metric tons and thousand dollars)

	Novem	ber	January–November ³		
Item	Quantity	Value	Quantity	Value	
No. 1 heavy melting steel	424	166,000	5,230	2,100,000	
No. 2 heavy melting steel	56	27,700	641	310,000	
No. 1 bundles	6	2,290	151	34,500	
No. 2 bundles	1	140	13	1,790	
Shredded steel scrap	344	127,000	4,270	1,670,000	
Borings, shovelings, and turnings	3	914	40	11,900	
Cut plate and structural	52	18,500	584	241,000	
Tinned iron or steel	7	1,240	86	15,500	
Remelting scrap ingots	1	429	7	2,490	
Cast iron	27	15,200	397	157,000	
Other iron and steel	7	1,810	47	11,500	
Total carbon steel and cast iron	928	361,000	11,500	4,550,000	
Stainless steel	28	29,900	479	422,000	
Other alloy steel	54	33,200	640	395,000	
Total stainless and alloy steel	82	63,100	1,120	816,000	
Total carbon, stainless, alloy steel, and cast iron	1,010	425,000	12,600	5,370,000	
Ships, boats, and other vessels for					
breaking up (for scrapping)			3	432	
Used rails	(4)	843	2	5,830	
Used rails for rerolling and other uses			(4)	150	
Total scrap exports	1,010	425,000	12,600	5,380,000	
Exports of manufactured ferrous products,					
Pig iron < or = 0.5% phosphorus	(4)	56	20	13,500	
Pig iron > or = 0.5% phosphorus					
Alloy Pig Iron	(4)	15	(4)	147	
Total pig iron	(4)	71	20	13,600	
Direct-reduced iron (DRI)			84	12,400	
Granules for abrasive cleaning and other uses	2	3,220	22	34,200	
Powders of alloy steel	1	4,900	12	62,300	
Other ferrous powders	4	6,880	49	79,300	
Total DRI, granules, powders	8	15,000	167	188,000	
Grand total	1,020	440,000	12,800	5,580,000	

⁻⁻ Zero.

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

²Export valuation is on a free-alongside-ship basis.
³May include revisions to previously published data.

⁴Less than ½ unit.

TABLE 7 U.S. IMPORTS FOR CONSUMPTION OF IRON AND STEEL SCRAP BY SELECTED COUNTRY OR LOCALITY, IN NOVEMBER $2023^{1,2}$

(Thousand metric tons and thousand dollars)

	November		January-No	vember ³
Country or locality	Quantity	Value	Quantity	Value
Canada	280	112,000	3,240	1,380,000
Cayman Islands	(4)	83	6	1,060
Colombia			1	709
Germany	(4)	54	121	49,500
Japan	(4)	92	17	644
Mexico	74	32,600	697	329,000
Netherlands	43	16,500	174	72,800
New Zealand			27	12,100
Portugal			14	5,610
Spain			12	4,990
Sweden			216	95,900
United Kingdom	(4)	15	70	33,900
Other ⁵	1	1,350	55	29,800
Total	398	162,000	4,650	2,020,000

⁻⁻ Zero.

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

²Includes 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.

³May include revisions to previously published data.

⁴Less than ½ unit.

⁵Includes 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 NOVEMBER $2023^{1,2}$

(Thousand metric tons and thousand dollars)

	November		January-No	vember ³
Customs district	Quantity	Value	Quantity	Value
Baltimore, MD	(4)	245	1	1,480
Buffalo, NY	13	7,080	193	108,000
Charleston, SC	43	16,600	436	182,000
Chicago, IL	(4)	145	21	5,640
Cleveland, OH	(4)	286	1	1,420
Detroit, MI	177	73,300	2,000	917,000
Duluth, MN	18	6,960	132	49,800
El Paso, TX	6	2,240	71	24,000
Great Falls, MT	(4)	560	21	8,680
Houston-Galveston, TX	(4)	394	1	2,450
Laredo, TX	54	25,400	475	240,000
Miami, FL	1	115	15	3,370
Mobile, AL	1	915	86	52,400
New Orleans, LA	(4)	8	184	76,300
New York City, NY	(4)	14	8	2,310
Nogales, AZ	5	1,920	50	19,900
Ogdensburg, NY	2	1,480	17	18,400
Pembina, ND	16	6,540	189	74,900
San Diego, CA	8	2,200	78	23,700
Seattle, WA	52	15,700	650	199,000
St. Albans, VT	1	287	11	3,260
Other ⁵	(4)	166	10	6,560
Total	398	162,000	4,650	2,020,000

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

²Includes 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.

³May include revisions to previously published data.

⁴Less than ½ unit.

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

TABLE 9 U.S. IMPORTS OF IRON AND STEEL SCRAP AND OTHER FERROUS PRODUCTS BY GRADE, IN NOVEMBER $2023^{1,2}$

(Thousand metric tons and thousand dollars)

	Novem	ber	January–November ³		
Item	Quantity	Value	Quantity	Value	
No. 1 heavy melting steel	9	2,600	128	41,600	
No. 2 heavy melting steel	10	3,530	115	41,500	
No. 1 bundles	110	45,400	1,230	564,000	
No. 2 bundles	7	2,650	80	29,400	
Shredded steel scrap	74	30,000	870	374,000	
Borings, shovelings, and turnings	5	1,150	52	13,200	
Cut plate and structural	18	5,150	196	60,300	
Tinned iron or steel	17	6,620	238	94,500	
Remelting scrap ingots	(4)	286	3	3,010	
Cast iron	7	2,390	149	50,900	
Other iron and steel	45	15,500	693	254,000	
Total carbon steel and cast iron	302	115,000	3,760	1,530,000	
Stainless steel	15	16,000	188	218,000	
Other alloy steel	81	31,100	708	276,000	
Total stainless and alloy steel	96	47,200	895	494,000	
Total carbon, stainless, alloy steel, and cast iron	398	162,000	4,650	2,020,000	
Ships, boats, and other vessels for					
breaking up (for scrapping)			(4)	11	
Used rails	(4)	98	4	1,080	
Used rails, nonalloyed			(4)	17	
Used rails other	(4)	9	(4)	758	
Total scrap imports	398	163,000	4,660	2,020,000	
Imports of manufactured ferrous products:					
Pig iron < or = 0.5% phosphorus			(4)	8	
Pig iron $>$ or $= 0.5\%$ phosphorus	374	159,000	3,950	1,970,000	
Alloy pig iron			(4)	23	
Total pig iron	374	159,000	3,950	1,970,000	
Direct-reduced iron (DRI)	169	42,300	2,820	887,000	
Spongy iron products, not DRI	(4)	247	2	4,040	
Granules for abrasive cleaning and other uses	2	2,910	17	30,700	
Powders of alloy steel	4	8,660	52	125,000	
Other ferrous powders	3	4,910	36	81,100	
Total DRI, granules, powders	178	59,000	2,920	1,130,000	
Grand total	951	381,000	11,500	5,120,000	

⁻⁻ Zero.

 $^{^{1}\}mathrm{Data}$ are rounded to no more than three significant digits; may not add to totals shown.

²Import valuation is on a Customs basis.

³May include revisions to previously published data.

⁴Less than ½ unit.

TABLE 10 U.S. RAW STEEL PRODUCTION, RAW STEEL CAPABILITY UTILIZATION, AND CONTINUOUS CAST STEEL PRODUCTION1

	Raw steel pr		Raw steel c		Continuous	
	thousand m	-	utilization,	•	production,	
		Year		Year		Year
Period	Monthly	to date ²	Monthly	to date ²	Monthly	to date ²
2022:						
November	6,200	74,200	71.5	78.1	99.6	99.7
December	6,330	80,500	70.6	77.5	99.7	99.7
2023:						
January	6,550	6,550	73.0	73.0	99.6	99.6
February	6,120	12,700	75.5	74.2	99.7	99.7
March	6,800	19,500	75.7	74.7	99.7	99.7
April	6,690	26,200	76.5	75.1	99.7	99.7
May	6,900	33,100	76.3	75.4	99.7	99.7
June	6,820	39,900	77.9	75.8	99.7	99.7
July	6,970	46,800	76.2	75.9	99.7	99.7
August	7,000	53,800	76.6	76.0	99.7	99.7
September	6,760	60,600	76.4	76.0	99.7	99.7
October	6,690	67,300 ³	72.4	75.6	99.7	99.7
November	6,560	74,500 ³	73.4	75.6	99.7	99.7

¹Data are rounded to no more than three significant digits.
²May include revisions to previously published data.

Source: American Iron and Steel Institute.

³Data may have been revised, but not reported and may not add to totals shown.

TABLE 11 COMPOSITE PRICES FOR STEEL SCRAP AND PIG IRON

	Steel Scr	ap ¹	Pig Iro	n^2
Period	\$/1t	\$/t	\$/1t	\$/t
2022:				
November	293.33	288.70	511.23	503.16
December	313.33	308.38	662.89	652.42
Average, January–December	385.28	379.19	665.66	655.15
2023:				
January	346.67	341.20	560.18	551.33
February	368.33	362.51	439.42	432.48
March	396.67	390.41	600.00	590.53
April	370.00	364.16	492.25	484.48
May	330.00	324.79	510.73	502.67
June	303.33	298.54	518.60	510.41
July	303.33	298.54	509.23	501.19
August	320.00	314.95	438.33	431.41
September	320.00	314.95	423.42	430.21
October	320.00	314.95	420.48	413.84
November	335.00	329.71	415.94	409.37

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

¹Prices are for No. 1 heavy melting steel scrap. Source: Fastmarkets-AMM.
²Prices are Brazilian basic pig iron, free on board, New Orleans, LA. Source: U.S. Census Bureau.

 ${\it TABLE~12} \\ {\it U.S.~IRON~AND~STEEL~SCRAP~RECEIPTS~FROM~OUTSIDE~SOURCES,~PRODUCTION~OF~PIG~IRON,} \\ {\it AND~DIRECT-REDUCED~IRON~(DRI)~CONSUMPTION}^1$

	Receipts o	of scrap				
	from outside	e sources	Pig iron pro	duction	DRI consu	mption
		Year		Year		Year
Period ²	Monthly	to date	Monthly	to date	Monthly	to date
2022:						
November	2,220	30,400	898	10,100	176	2,450
December	2,340	32,700	1,030	11,100	187	2,630
2023:						
January	2,960	2,960	1,030	1,030	211	211
February	3,020	5,980	986	2,020	205	416
March	3,020	9,000	1,140	3,160	206	622
April	2,990	12,000	1,140	4,290	198	821
May	3,130	15,100	1,170	5,460	202	1,020
June	2,950	18,100	1,090	6,550	248	1,270
July	2,840	20,900	1,070	7,610	198	1,470
August	2,860	23,800	1,160	8,770	209	1,680
September	2,910	26,700	969	9,740	228	1,910
October	2,850	29,500	976	10,700	188	2,090
November	2,860	32,400	965	11,700	196	2,290

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

²May include revisions to previously published data.