

# Mineral Industry Surveys

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## IRON AND STEEL SCRAP IN DECEMBER 2018

Iron and steel scrap consumption increased slightly and home (recirculating) scrap production increased by 3% in December 2018 compared with those of November 2018 (table 1). Purchased scrap receipts in December 2018 decreased by 13% compared with those in November 2018. Stocks of purchased and home scrap at the end of December 2018 decreased by 10% compared with those at the end of November 2018 (table 1). These observations are based upon responses from about 20% of the companies surveyed that manufacture pig iron and semifinished steel products, which account for about 29% of the total scrap consumption in those sectors and estimates for nonrespondents to this survey.

Pig iron production in December 2018 increased by 10%, and pig iron consumption increased by 9% from those of November 2018 (table 1).

Exports of iron and steel scrap in December 2018 decreased by 15% from those in November 2018 (table 6). Turkey, Taiwan, and Egypt were the leading destinations, accounting for 17%, 15%, and 12%, respectively, of the total tonnage of exports. New York City, NY, Los Angeles, CA, and San Francisco, CA, were the leading U.S. Customs districts for tonnage of exports, accounting for 18%, 15%, and 14%, respectively, of the total (table 7). The leading scrap products exported were No. 1 heavy melting steel and shredded steel

scrap, accounting for 30% and 29%, respectively of the total (table 8).

Imports of iron and steel scrap for December 2018 increased by 19% from those in November 2018 (table 9). Canada was the leading country of origin, accounting for 68% of the total tonnage of imports. Detroit, MI, was the leading U.S. Customs district by tonnage of imports, accounting for 31% of the total (table 10).

The daily average domestic raw steel production for December 2018, as calculated from the American Iron and Steel Institute's (AISI) monthly production data, was 241,000 metric tons, a slight decrease from that in November 2018 and an increase of 11% from that in December 2017 (table 12). Raw steel production capability utilization (AISI data) was 79.4% in December 2018, down from 81.2% in November 2018 and up from 71.9% in December 2017 (table 12).

Continuous cast steel production accounted for 98.2% of total raw steel production in December 2018 (table 12).

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

(Thousand metric tons)

	December 2018			January–December <sup>3</sup>		
	Integrated steel producers <sup>4</sup>	Electric furnace steel producers <sup>5</sup>	Total for steel producers	Integrated steel producers <sup>4</sup>	Electric furnace steel producers <sup>5</sup>	Total for steel producers
<b>Scrap:</b>						
Receipts from dealers and other sources	1,550	1,790	3,350	18,000	22,400	40,400
Receipts from other own company plants	47	169	216	612	2,040	2,650
Production, recirculating scrap	221	152	373	2,530	1,820	4,350
Production, obsolete scrap	W	W	7	W	W	84
<b>Consumption (by type of furnace):</b>						
Blast furnace	W	W	59	W	W	1,470
Basic oxygen process	W	W	432	W	W	4,140
Electric furnace	1,250	1,830	3,080	15,100	23,500	38,600
Other (including air furnace) <sup>6</sup>	W	W	237	W	W	2,240
Total consumption	1,750	2,050	3,810	20,600	25,800	46,400
Shipments	49	8	57	585	94	679
Stocks, end of period	1,850	2,740	4,590	1,850	2,740	4,590
<b>Pig iron (includes hot metal):</b>						
Receipts	429	121	550	4,740	1,100	5,840
Production	1,400	--	1,400	14,700	--	14,700
<b>Consumption (by type of furnace):</b>						
Basic oxygen process	W	W	W	W	W	W
Direct castings <sup>7</sup>	W	W	W	W	W	W
Electric furnace	W	W	W	W	W	W
Total consumption	1,800	82	1,880	19,400	1,040	20,400
Stocks, end of period	285	277	562	285	277	563
<b>Direct-reduced iron:<sup>8</sup></b>						
Receipts	110	119	229	1,320	1,020	2,350
Total consumption	132	90	222	1,280	974	2,260
Stocks, end of period	183	146	329	183	146	329

W Withheld to avoid disclosing company proprietary data; included in "Total for steel producers" and (or) "Total consumption." -- 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. December 2018 data are based on returns from 20% of consumer surveys, representing 29% 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 data for electric furnaces operated by integrated steel producers.

<sup>5</sup>Includes minimill and specialty steel producers; includes data for other furnaces operated by these steel producers.

<sup>6</sup>Includes vacuum melting furnaces and miscellaneous uses.

<sup>7</sup>Includes ingot molds and stools.

<sup>8</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<sup>2</sup>

(Thousand metric tons)

Item	December 2018				January–December <sup>3</sup>		
	Receipts of scrap from brokers, dealers, and other outside sources	Production of home scrap (recirculating scrap resulting from current operations)	Consumption of purchased and home scrap <sup>4</sup>	Ending stocks	Receipts of scrap from brokers, dealers, and other outside sources	Production of home scrap (recirculating scrap resulting from current operations)	Consumption of purchased and home scrap <sup>4</sup>
Carbon steel:							
Low-phosphorus plate and punchings	41	W	43	W	496	W	520
Cut structural and plate	295	34	316	368	3,440	381	3,890
No. 1 heavy melting steel	267	46	323	209	3,140	547	3,810
No. 2 heavy melting steel	318	29	375	226	4,090	359	4,650
No. 1 and electric furnace bundles	159	W	159	176	2,060	W	2,090
No. 2 and all other bundles	64	W	72	28	782	W	829
Electric furnace 1 foot and under (not bundles)	--	W	W	--	--	W	W
Railroad rails	18	W	18	14	216	W	219
Turnings and borings	181	W	180	198	2,280	W	2,320
Slag scrap	35	71	70	91	411	820	824
Shredded and fragmented	1,070	W	1,110	1,950	12,800	W	13,700
No. 1 busheling	382	W	407	360	4,650	W	4,930
Steel cans (post consumer)	W	W	W	W	69	W	W
All other carbon steel scrap	W	75	298	406	2,500	871	3,460
Stainless steel scrap	75	28	110	73	891	335	1,320
Alloy steel scrap	27	16	44	173	329	197	523
Ingot mold and stool scrap	W	W	3	2	W	W	34
Machinery and cupola cast iron	W	--	W	W	W	--	W
Cast iron borings	13	W	13	4	154	W	157
Motor blocks	W	--	W	--	W	--	W
Other iron scrap	109	W	137	93	1,280	307	1,570
Other mixed scrap	64	W	106	88	729	W	1,340
Total	3,350	373	3,810	4,590	40,400	4,350	46,400

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

(Thousand metric tons)

Region and State	December 2018			January–November <sup>3</sup>		
	Receipts of scrap from brokers, dealers, and other outside sources	Production of home scrap (recirculating scrap resulting from current operations)	Consumption of purchased and home scrap <sup>4</sup>	Receipts of scrap from brokers, dealers, and other outside sources	Production of home scrap (recirculating scrap resulting from current operations)	Consumption of purchased and home scrap <sup>4</sup>
<b>Mid-Atlantic and New England:</b>						
New Jersey, New York, Pennsylvania	340	50	398	4,020	612	4,730
<b>North Central:</b>						
Illinois and Indiana	428	35	478	5,090	428	5,770
Iowa, Minnesota, Nebraska, Wisconsin	232	19	258	2,820	218	3,080
Michigan	159	49	165	1,790	587	1,880
Ohio	425	91	534	5,150	1,100	6,330
<b>Total</b>	<b>1,240</b>	<b>194</b>	<b>1,440</b>	<b>14,900</b>	<b>2,330</b>	<b>17,100</b>
<b>South Atlantic:</b>						
Virginia, West Virginia	84	4	90	1,190	17	1,330
Georgia, North Carolina, South Carolina	305	20	301	3,140	216	3,410
<b>Total</b>	<b>389</b>	<b>24</b>	<b>391</b>	<b>4,330</b>	<b>234</b>	<b>4,740</b>
<b>South Central:</b>						
Alabama, Kentucky, Mississippi, Tennessee	580	48	707	7,170	503	8,310
Arkansas, Louisiana, Texas	531	40	555	6,960	476	7,740
<b>Total</b>	<b>1,110</b>	<b>88</b>	<b>1,260</b>	<b>14,100</b>	<b>981</b>	<b>16,000</b>
<b>Mountain and Pacific:</b>						
California, Colorado, Oregon, Utah, Washington	261	16	318	3,110	198	3,830
<b>Grand total</b>	<b>3,350</b>	<b>373</b>	<b>3,810</b>	<b>40,400</b>	<b>4,350</b>	<b>46,400</b>

<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  
RECEIPTS OF IRON AND STEEL SCRAP, BY REGION AND GRADE, FOR STEEL PRODUCERS<sup>1,2,3,4</sup>

(Thousand metric tons)

Item	December 2018					January–December <sup>5</sup>				
	Mid-Atlantic and New England	North Central	South Atlantic	South Central	Mountain and Pacific	Mid-Atlantic and New England	North Central	South Atlantic	South Central	Mountain and Pacific
Carbon steel:										
Low-phosphorus plate and punchings	10	W	--	W	W	122	W	--	W	W
Cut structural and plate	39	83	37	116	W	423	1,010	359	1,410	W
No. 1 heavy melting steel	53	95	13	80	27	640	1,040	156	984	318
No. 2 heavy melting steel	6	83	35	160	W	73	1,100	488	2,030	W
No. 1 and electric furnace bundles	7	99	W	44	W	76	1,200	W	675	W
No. 2 and all other bundles	9	35	W	12	W	116	430	W	151	W
Electric furnace 1 foot and under (not bundles)	--	--	--	--	--	--	--	--	--	--
Railroad rails	W	W	--	4	W	W	W	--	43	W
Turnings and borings	19	56	25	73	7	228	714	302	950	85
Slag scrap	5	25	W	W	W	65	282	W	W	W
Shredded and fragmentized	67	314	207	388	94	770	3,810	2,130	5,000	1,110
No. 1 busheling	42	150	W	159	2	514	1,800	W	1,970	22
Steel cans (post consumer)	W	W	--	--	--	W	W	--	--	--
All other carbon steel scrap	29	W	W	31	W	346	W	W	395	W
Stainless steel scrap	W	W	--	W	--	W	W	--	W	--
Alloy steel scrap	2	23	W	W	--	25	274	W	W	--
Ingot mold and stool scrap	W	W	--	--	--	W	W	--	--	--
Machinery and cupola cast iron	--	W	W	W	--	--	W	W	W	--
Cast iron borings	W	W	W	W	W	W	W	W	W	W
Motor blocks	--	W	--	--	--	--	W	--	--	--
Other iron scrap	W	37	W	W	W	W	393	W	W	W
Other mixed scrap	W	32	W	4	W	W	385	W	50	W
Total	340	1,240	389	1,110	261	4,020	14,900	4,330	14,100	3,110

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

<sup>1</sup>Scrap received from brokers, dealers, and other outside sources.

<sup>2</sup>A breakout of the States within each region is provided in Table 3.

<sup>3</sup>Includes manufacturers of raw steel that also produce steel castings.

<sup>4</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>5</sup>May include revisions to previously published data.

TABLE 5  
CONSUMPTION OF IRON AND STEEL SCRAP BY REGION AND GRADE, FOR STEEL PRODUCERS<sup>1,2,3</sup>

(Thousand metric tons)

Item	December 2018					January–December <sup>4</sup>				
	Mid-Atlantic and New England	North Central	South Atlantic	South Central	Mountain and Pacific	Mid-Atlantic and New England	North Central	South Atlantic	South Central	Mountain and Pacific
Carbon steel:										
Low-phosphorus plate and punchings	10	W	--	W	W	123	W	--	W	W
Cut structural and plate	39	97	50	109	W	480	1,210	533	1,430	W
No. 1 heavy melting steel	57	129	15	94	28	672	1,410	207	1,180	333
No. 2 heavy melting steel	10	90	43	193	W	123	1,170	579	2,320	W
No. 1 and electric furnace bundles	6	95	W	49	W	76	1,220	W	686	W
No. 2 and all other bundles	9	36	W	W	W	117	429	W	W	W
Electric furnace 1 foot and under (not bundles)	--	W	--	--	--	--	W	--	--	--
Railroad rails	W	W	--	4	W	W	W	--	43	W
Turnings and borings	20	56	25	72	7	242	741	319	932	85
Slag scrap	11	42	W	13	W	131	488	W	157	W
Shredded and fragmented	68	349	177	426	94	758	4,060	2,140	5,640	1,110
No. 1 busheling	43	160	W	172	2	525	1,920	W	2,100	22
Steel cans (post consumer)	W	W	--	--	--	W	W	--	--	--
All other carbon steel scrap	42	195	8	50	3	503	2,230	89	610	33
Stainless steel scrap	53	W	--	W	--	638	W	W	W	--
Alloy steel scrap	10	25	W	W	--	114	303	W	W	--
Ingot mold and stool scrap	W	2	--	W	--	W	19	--	W	--
Machinery and cupola cast iron	--	W	W	W	--	--	W	W	W	--
Cast iron borings	W	W	W	W	W	W	W	W	W	W
Motor blocks	--	W	--	--	--	--	W	--	--	--
Other iron scrap	5	50	W	W	W	70	543	W	W	W
Other mixed scrap	W	33	W	4	W	W	396	W	54	W
Total	398	1,440	391	1,260	318	4,730	17,100	4,740	16,000	3,830

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>A breakout of the States within each region is provided in Table 3.

<sup>3</sup>Includes manufacturers of raw steel that also produce steel castings.

<sup>4</sup>May include revisions to previously published data.

TABLE 6  
U.S. EXPORTS OF IRON AND STEEL SCRAP BY SELECTED REGION AND COUNTRY  
OR LOCALITY<sup>1,2</sup>

(Thousand metric tons and thousand dollars)

Region and country or locality	December 2018		January–December <sup>3</sup>	
	Quantity	Value	Quantity	Value
<b>North America and South America:</b>				
Brazil	9	554	97	32,000
Canada	103	25,200	1,400	224,000
Costa Rica	--	--	3	154
Dominican Republic	(4)	126	1	271
Mexico	91	22,800	1,810	550,000
Ecuador	(4)	25	134	45,400
Panama	(4)	214	1	759
Peru	34	11,100	379	128,000
Other <sup>5</sup>	(4)	5	2	1,060
<b>Total</b>	<b>238</b>	<b>59,900</b>	<b>3,830</b>	<b>981,000</b>
<b>Africa, Europe, Middle East:</b>				
Austria	(4)	15	2	1,980
Belgium	1	455	24	11,100
Egypt	149	45,300	802	262,000
Finland	(4)	41	1	728
Germany	1	777	22	11,500
Greece	34	11,000	125	40,900
Italy	(4)	294	6	5,420
Kuwait	35	12,700	387	135,000
Liberia	--	--	1	801
Netherlands	(4)	346	13	9,130
Nigeria	--	--	1	192
Russia	(4)	259	2	1,620
Saudi Arabia	--	--	44	14,900
South Africa	--	--	1	231
Spain	(4)	193	1	790
Sweden	--	--	2	2,140
Turkey	207	57,100	3,430	1,090,000
United Arab Emirates	2	656	24	9,140
United Kingdom	1	361	4	1,690
Other <sup>5</sup>	(4)	101	2	1,200
<b>Total</b>	<b>432</b>	<b>130,000</b>	<b>4,900</b>	<b>1,600,000</b>
<b>Asia, Australia, Oceania:</b>				
Bangladesh	73	24,000	848	288,000
China	3	2,770	727	285,000
Hong Kong	7	6,170	123	99,800
India	47	27,500	944	422,000
Indonesia	22	8,170	447	158,000
Japan	7	2,470	138	64,900
Korea, Republic of	63	22,000	899	312,000
Malaysia	86	39,000	527	228,000
Pakistan	27	13,700	417	200,000
Philippines	2	1,750	28	19,700
Singapore	1	467	2	1,690
Taiwan	191	71,600	1,970	718,000
Thailand	9	4,630	494	191,000
Vietnam	42	12,600	1,020	335,000
Other <sup>5</sup>	(4)	7	1	355
<b>Total</b>	<b>579</b>	<b>237,000</b>	<b>8,590</b>	<b>3,330,000</b>
<b>Grand total</b>	<b>1,250</b>	<b>426,000</b>	<b>17,300</b>	<b>5,900,000</b>

-- 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 ½ unit.

<sup>5</sup>Includes countries with January–December 2018 quantities of less than 500 metric tons.

TABLE 7  
U.S. EXPORTS OF IRON AND STEEL SCRAP BY REGION AND  
SELECTED CUSTOMS DISTRICT<sup>1,2</sup>

(Thousand metric tons and thousand dollars)

Region and customs district	December 2018		January–December <sup>3</sup>	
	Quantity	Value	Quantity	Value
Canada–United States border:				
Buffalo, NY	10	3,360	399	42,600
Chicago, IL	(4)	94	3	1,980
Detroit, MI	15	4,390	247	56,300
Duluth, MN	3	1,040	249	6,620
Great Falls, MT	1	354	20	5,970
Ogdensburg, NY	2	631	39	9,650
Pembina, ND	42	13,900	245	74,400
Other	20	666	309	10,800
<b>Total</b>	<b>95</b>	<b>24,400</b>	<b>1,510</b>	<b>208,000</b>
East coast:				
Baltimore, MD	43	16,700	431	169,000
Boston, MA	27	9,550	930	312,000
Charleston, SC	8	4,370	115	63,500
Miami, FL	36	12,200	504	187,000
New York City, NY	222	84,900	2,630	992,000
Norfolk, VA	23	12,300	260	135,000
Philadelphia, PA	108	25,500	1,060	319,000
Portland, ME	3	560	91	25,200
Providence, RI	73	20,800	793	244,000
Savannah, GA	10	5,680	199	93,000
St. Albans, VT	5	816	78	14,800
Washington, DC	--	--	(4)	11
Wilmington, NC	(4)	179	2	1,760
<b>Total</b>	<b>559</b>	<b>194,000</b>	<b>7,090</b>	<b>2,560,000</b>
Gulf coast and Mexico–United States border (includes Caribbean territories):				
Dallas–Fort Worth, TX	(4)	10	(4)	54
El Paso, TX	5	1,840	123	40,300
Houston–Galveston, TX	14	8,600	421	171,000
Laredo, TX	59	14,600	889	272,000
Mobile, AL	1	1,060	6	5,360
New Orleans, LA	(4)	468	6	2,910
Nogales, AZ	--	--	2	611
San Juan, PR	5	1,580	180	54,900
Tampa, FL	6	2,370	235	89,300
<b>Total</b>	<b>90</b>	<b>30,500</b>	<b>1,860</b>	<b>636,000</b>
West coast and Hawaii:				
Anchorage, AK and Honolulu, HI	3	875	136	46,500
Columbia–Snake, OR	73	25,600	834	285,000
Los Angeles, CA	193	72,400	3,070	1,210,000
San Diego, CA	15	2,890	255	56,300
San Francisco, CA	177	58,900	1,700	594,000
Seattle, WA	45	17,200	857	310,000
<b>Total</b>	<b>504</b>	<b>178,000</b>	<b>6,850</b>	<b>2,500,000</b>
<b>Grand total</b>	<b>1,250</b>	<b>426,000</b>	<b>17,300</b>	<b>5,900,000</b>

-- 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 ½ unit.

Source: U.S. Census Bureau.



TABLE 8  
U.S. EXPORTS OF IRON AND STEEL SCRAP AND OTHER FERROUS PRODUCTS BY GRADE<sup>1,2</sup>

(Thousand metric tons and thousand dollars)

Item	December 2018		January–December <sup>3</sup>	
	Quantity	Value	Quantity	Value
No. 1 heavy melting steel	401	120,000	5,270	1,700,000
No. 2 heavy melting steel	75	23,800	774	251,000
No. 1 bundles	1	258	24	7,300
No. 2 bundles	(4)	12	4	753
Shredded steel scrap	396	125,000	5,680	1,900,000
Borings, shovelings and turnings	(4)	99	9	2,410
Cut plate and structural	38	12,500	543	184,000
Tinned iron or steel	5	1,250	61	16,500
Remelting scrap ingots	(4)	289	3	2,550
Cast iron	59	36,300	797	383,000
Other iron and steel	183	61,000	2,490	845,000
Total carbon steel and cast iron	1,160	381,000	15,700	5,300,000
Stainless steel	43	28,700	778	327,000
Other alloy steel	45	16,600	883	279,000
Total stainless and alloy steel	88	45,300	1,660	606,000
Total carbon, stainless, alloy steel and cast iron	1,250	426,000	17,300	5,900,000
Ships, boats, and other vessels for breaking up (for scrapping)	--	--	3	521
Used rails for rerolling and other uses	(4)	228	12	16,200
Total scrap exports	1,250	427,000	17,300	5,920,000
Exports of manufactured ferrous products:				
Pig iron < or = 0.5% phosphorus	(4)	176	12	6,020
Pig iron > or = 0.5% phosphorus	(4)	20	2	178
Alloy pig iron	--	--	(4)	138
Total pig iron	(4)	196	14	6,330
Direct-reduced iron (DRI)	34	11,100	554	168,000
Spongy iron products, not DRI	62	22,900	492	213,000
Granules for abrasive cleaning and other uses	2	2,820	34	42,000
Powders of alloy steel	1	6,580	21	81,400
Other ferrous powders	5	7,310	96	122,000
Total DRI, granules, powders	105	50,800	1,200	627,000
Grand total	1,350	478,000	18,500	6,550,000

-- 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 ½ unit.

Source: U.S. Census Bureau.

TABLE 9  
U.S. IMPORTS FOR CONSUMPTION OF IRON AND STEEL SCRAP  
BY SELECTED COUNTRY OR LOCALITY<sup>1,2</sup>

(Thousand metric tons and thousand dollars)

Country or locality	December 2018		January–December <sup>3</sup>	
	Quantity	Value	Quantity	Value
Bahamas, The	--	--	6	660
Belgium	20	6,110	20	6,210
Brazil	(4)	16	2	2,950
Canada	300	99,500	3,560	1,190,000
Cayman Islands	(4)	17	1	357
China	(4)	122	4	1,750
Costa Rica	--	--	1	191
Czechia	(4)	122	1	1,230
Finland	--	--	3	3,430
France	(4)	2	27	10,100
Germany	3	202	22	3,130
India	(4)	13	2	631
Indonesia	--	--	4	1,240
Japan	(4)	196	5	2,990
Marshall Islands	--	--	1	277
Mexico	55	20,700	588	245,000
Netherlands	29	9,880	249	129,000
Russia	(4)	366	9	14,900
South Africa	--	--	41	5,900
Spain	(4)	2	47	17,000
Saint Kitts and Nevis	(4)	48	2	375
Sweden	30	11,600	188	71,100
Taiwan	(4)	122	1	1,390
Trinidad and Tobago	(4)	76	3	2,010
United Kingdom	(4)	164	258	98,800
Venezuela	--	--	3	726
Other <sup>5</sup>	(4)	118	5	5,560
Total	439	149,000	5,050	1,810,000

-- Zero.

<sup>1</sup>Includes tinplate and terneplate; excludes used rails for rerolling and other uses and ship, 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 ½ unit.

<sup>5</sup>Includes countries with January–December 2018 quantities of less than 500 metric tons.

Source: U.S. Census Bureau.

TABLE 10  
U.S. IMPORTS FOR CONSUMPTION OF IRON AND STEEL SCRAP  
BY SELECTED CUSTOMS DISTRICT<sup>1,2</sup>

(Thousand metric tons and thousand dollars)

Customs district	December 2018		January–December <sup>3</sup>	
	Quantity	Value	Quantity	Value
Baltimore, MD	(4)	307	1	915
Buffalo, NY	35	13,100	544	264,000
Charleston, SC	60	18,900	336	114,000
Chicago, IL	8	2,040	29	5,780
Cleveland, OH	(4)	281	141	6,980
Columbia–Snake, OR	--	--	28	6,480
Detroit, MI	138	51,900	1,560	566,000
Duluth, MN	11	3,540	96	31,100
El Paso, TX	8	2,640	65	22,300
Great Falls, MT	1	231	21	5,640
Houston–Galveston, TX	(4)	180	16	22,800
Laredo, TX	37	14,200	357	151,000
Los Angeles, CA	(4)	129	1	2,560
Miami, FL	(4)	191	10	2,400
Mobile, AL	34	13,700	131	111,000
New Orleans, LA	22	6,180	540	191,000
New York City, NY	(4)	4	1	626
Nogales, AZ	3	913	29	9,520
Ogdensburg, NY	(4)	178	10	6,650
Pembina, ND	19	6,130	207	68,600
Philadelphia, PA	(4)	158	5	2,860
Portland, ME	(4)	111	1	1,050
San Diego, CA	4	865	80	21,800
Savannah, GA	(4)	15	2	1,090
Seattle, WA	58	13,300	822	192,000
St. Albans, VT	1	242	14	3,840
Wilmington, NC	(4)	10	1	414
Other	(4)	9	1	592
Total	439	149,000	5,050	1,810,000

-- 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 ½ unit.

Source: U.S. Census Bureau.

TABLE 11  
U.S. IMPORTS OF IRON AND STEEL SCRAP AND OTHER  
FERROUS PRODUCTS BY GRADE<sup>1, 2</sup>

(Thousand metric tons and thousand dollars)

Item	December 2018		January–December <sup>3</sup>	
	Quantity	Value	Quantity	Value
No. 1 heavy melting steel	24	6,830	222	63,900
No. 2 heavy melting steel	9	2,350	133	33,700
No. 1 bundles	118	43,600	1,310	490,000
No. 2 bundles	9	2,910	96	28,100
Shredded steel scrap	67	19,600	740	231,000
Borings, shovelings and turnings	6	1,490	86	21,300
Cut plate and structural	9	2,760	177	52,100
Tinned iron or steel	15	4,960	115	40,500
Remelting scrap ingots	(4)	88	1	1,450
Cast iron	12	3,180	289	49,700
Other iron and steel	103	31,800	863	234,000
Total carbon steel and cast iron	370	120,000	4,030	1,250,000
Stainless steel	15	12,400	329	345,000
Other alloy steel	54	17,500	692	222,000
Total stainless and alloy steel	69	29,900	1,020	567,000
Total carbon, stainless, alloy steel and cast iron	439	149,000	5,050	1,810,000
Ships, boats, and other vessels for breaking up (for scrapping)	--	--	(4)	20
Used rails for rerolling and other uses	(4)	91	6	5,450
Total scrap imports	439	150,000	5,060	1,820,000
Imports of manufactured ferrous products:				
Pig iron < or = 0.5% phosphorus	--	--	--	--
Pig iron > or = 0.5% phosphorus	677	263,000	6,020	2,350,000
Alloy pig iron	(4)	73	1	1,030
Total pig iron	677	263,000	6,020	2,360,000
Direct-reduced iron (DRI)	321	86,400	3,930	966,000
Spongy iron products, not DRI	1	1,030	4	7,760
Granules for abrasive cleaning and other uses	2	3,020	30	35,300
Powders of alloy steel	5	8,820	68	116,000
Other ferrous powders	4	7,460	49	88,500
Total DRI, granules, powders	333	107,000	4,080	1,210,000
Grand total	1,450	519,000	15,200	5,390,000

-- 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 ½ unit.

Source: U.S. Census Bureau.

TABLE 12  
 U.S. RAW STEEL PRODUCTION, RAW STEEL CAPABILITY UTILIZATION,  
 AND CONTINUOUS CAST STEEL PRODUCTION<sup>1</sup>

Period	Raw steel production, thousand metric tons		Raw steel capability utilization, percent		Continuous cast steel production, percent	
	Monthly	Year to date <sup>2</sup>	Monthly	Year to date <sup>2</sup>	Monthly	Year to date <sup>2</sup>
2017:						
December	6,730	81,600	71.9	74.0	99.6	99.6
2018:						
January	6,890	6,890	73.6	73.6	98.0	98.0
February	6,590	13,500	77.9	75.7	98.1	98.1
March	7,330	20,800	78.3	76.6	98.2	98.1
April	6,920	27,700	76.0	76.4	98.1	98.1
May	7,260	35,000	77.1	76.6	98.2	98.1
June	7,060	42,100	77.4	76.7	98.2	98.1
July	7,380	49,400	78.4	77.0	98.2	98.1
August	7,480	56,900	79.4	77.3	98.2	98.2
September	7,260	64,200	79.6	77.5	98.2	98.2
October	7,560	71,700	80.2	77.8	98.2	98.2
November	7,400	79,100	81.2	78.1	98.2	98.2
December	7,480	86,600	79.4	78.2	98.2	98.2

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

<sup>2</sup>May include revisions to previously published data.

Source: American Iron and Steel Institute.

TABLE 13  
COMPOSITE PRICES FOR NO. 1 HEAVY MELTING STEEL SCRAP AND PIG IRON

Period	American Metal Market		Scrap Price Bulletin			
	No. 1 HMS		No. 1 HMS		Pig Iron <sup>1</sup>	
	\$/lt	\$/t	\$/lt	\$/t	\$/lt	\$/t
2017:						
August	279.18	274.77	288.50	283.94	434.34	427.48
September	286.66	282.13	294.33	289.68	419.11	412.49
October	263.78	259.61	270.17	265.90	409.96	403.48
November	258.33	254.25	266.00	261.80	408.94	402.48
December	283.67	279.19	286.83	279.35	408.94	402.48
Average, January–December	269.94	265.67	272.11	267.56	409.24	402.77
2018:						
January	315.05	310.07	255.46	251.43	410.97	404.48
February	318.75	313.72	243.46	239.61	422.89	416.21
March	335.15	329.86	339.75	334.38	417.13	410.54
April	350.47	344.93	354.16	348.57	438.40	431.48
May	342.83	377.91	258.96	285.45	441.96	434.98
June	334.58	329.30	340.17	334.80	441.96	434.98
July	340.72	335.34	345.17	339.72	443.99	436.98
August	323.99	318.87	NA	NA	NA	NA
September	304.21	299.41	NA	NA	NA	NA
October	311.01	306.09	NA	NA	NA	NA
November	331.33	326.10	NA	NA	NA	NA
December	329.93	324.72	NA	NA	NA	NA

NA Not available.

<sup>1</sup>Prices are Brazilian basic pig iron, f.o.b. New Orleans, LA.

Note: Long tons = 1t; metric tons = t.