



MINERAL INDUSTRY SURVEYS

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
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Iron and Steel Scrap, Monthly

IRON AND STEEL SCRAP IN JANUARY 1973

Returns from 96 percent of reporting consumers indicate consumption of iron and steel scrap in January was 6 percent above that in December, according to the Bureau of Mines, U.S. Department of the Interior. Compared to December, production was up 7 percent, net receipts up 8 percent, and stocks down 4 percent.

Exports of ferrous scrap during the month were 1 percent below those exported in December and 163 percent above those in January 1972. Japan continued as the largest importer of U.S. scrap, taking 59 percent of the total exported. Next largest exports were to Mexico and Canada which received 8 percent and 7 percent, respectively.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of January was \$48.50, up \$14.33 from the January 1972 price of \$34.17. The end of January No. 2 bundle price of \$34.83 was \$11.66 above its \$23.17 price 1 year earlier.

Pig iron production and consumption during the month were up 4 percent and 7 percent, respectively, from those of the previous month, according to the same reports from consumers. Stocks declined less than 1 percent during January.

TABLE 1. - U.S. receipts, production, consumption, shipments, and stocks of iron and steel scrap and pig iron, by type of manufacturer (Short tons)

	January 1973 ^{1/}				Total for month of December 1972 ^{4/}
	Mfgs. of steel ingots and castings ^{2/}	Mfgs. of steel castings ^{3/}	Iron foundries and miscellaneous users	Total for month of January 1973	
SCRAP:					
Receipts-----	2,800,987	148,707	1,025,584	3,975,278	3,757,953
Production-----	4,092,928	67,561	568,797	4,729,286	4,407,751
Consumption by grades:					
Carbon steel-					
Low phosphorous plate and punchings-----	38,843	58,992	117,012	214,847	184,382
Cut structural and plate-----	51,416	15,557	96,072	163,045	122,707
No. 1 heavy melting steel-----	2,497,347	11,858	37,826	2,547,031	2,480,081
No. 2 heavy melting steel-----	317,631	2,119	25,893	345,643	275,357
No. 1 and electric furnace bundles-----	604,564	5,360	41,414	651,338	622,400
No. 2 and all other bundles-----	262,482	1,127	53,659	317,268	294,608
Turnings and borings-----	152,530	5,705	60,704	218,939	207,572
Slag scrap (Fe content)-----	251,603	463	1,476	253,542	266,752
Shredded or fragmented-----	111,083	3,537	42,792	157,412	149,398
All other carbon steel scrap-----	1,397,133	66,126	191,411	1,654,670	1,577,013
Stainless steel-----	81,086	2,347	263	83,696	71,755
Alloy steel (except stainless)-----	189,476	11,969	8,198	209,643	209,846
Cast iron (includes borings)-----	494,047	22,760	871,833	1,388,640	1,262,388
Other grades of scrap-----	80,542	8,927	56,190	145,659	123,244
Consumption Total-----	6,529,783	216,847	1,604,743	8,351,373	7,847,503
Shipments-----	516,035	3,055	25,657	544,747	571,392
Stocks end of month-----	6,829,418	224,026	792,931	7,846,375	8,133,948
PIG IRON:					
Receipts-----	356,093	5,460	276,037	637,590	573,973
Production-----	8,178,761	---	---	8,178,761	7,871,896
Consumption-----	7,958,133	5,080	271,616	8,234,829	7,681,692
Shipments-----	581,266	50	11,380	592,696	813,278
Stocks end of month-----	1,372,354	6,677	266,293	1,645,324	1,655,641

^{1/} Based on 96 percent return of reporting consumers.

^{2/} Includes only those manufacturers of steel castings that also produce ingots.

^{3/} Excludes companies that produce both steel ingots and castings.

^{4/} Based on 94 percent return from reporting consumers.

TABLE 2. - Manufacturers of steel ingots and castings 1/ - receipts, production, consumption, and shipments of iron and steel scrap, by grades, January 1973 2/ (Short tons)

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorous plate and punchings----	29,210	1,107	38,843	303	45,391
Cut structural and plate-----	49,428	82	51,416	78	32,649
No. 1 heavy melting steel-----	854,560	1,753,782	2,497,347	228,401	2,489,426
No. 2 heavy melting steel-----	178,342	127,866	317,631	9,998	317,384
No. 1 and electric furnace bundles----	528,471	74,401	604,564	3,634	802,025
No. 2 and all other bundles-----	191,331	45,499	262,482	4,917	326,540
Turnings and borings-----	126,009	36,995	152,530	10,970	177,987
Slag scrap (Fe content)-----	113,512	151,970	251,603	5,460	127,118
Shredded or fragmented-----	97,395	---	111,083	---	56,288
All other carbon steel scrap-----	279,980	1,271,232	1,397,133	125,656	1,041,132
Stainless steel-----	32,582	55,478	81,086	2,480	105,571
Alloy steel (except stainless)-----	32,233	158,607	189,476	5,177	215,832
Cast iron (includes borings)-----	227,521	393,884	494,047	115,197	1,061,353
Other grades of scrap-----	60,413	22,025	80,542	3,764	30,722
Total scrap-----	2,800,987	4,092,928	6,529,783	516,035	6,829,418
PIG IRON-----	356,093	8,178,761	7,958,133	581,266	1,372,354

1/ Includes only those manufacturers of steel castings that also produce ingots.

2/ Based on 94 percent return from reporting consumers.

TABLE 3. - Manufacturers of steel castings 1/ - receipts, production, consumption, and shipments of iron and steel scrap, by grades, January 1973 2/ (Short tons)

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorous plate and punchings-----	40,592	13,615	58,992	270	54,557
Cut structural and plate-----	16,617	1,031	15,557	87	10,063
No. 1 heavy melting steel-----	7,985	3,956	11,858	---	15,503
No. 2 heavy melting steel-----	2,071	---	2,119	---	353
No. 1 and electric furnace bundles-----	5,486	---	5,360	---	5,578
No. 2 and all other bundles-----	1,466	---	1,127	---	676
Turnings and borings-----	5,129	407	5,705	31	3,083
Slag scrap (Fe content)-----	41	419	463	---	32
Shredded or fragmented-----	4,196	---	3,537	---	3,296
All other carbon steel scrap-----	43,055	24,887	66,126	234	60,360
Stainless steel-----	1,608	948	2,347	297	7,523
Alloy steel (except stainless)-----	6,643	5,740	11,969	1,748	19,258
Cast iron (includes borings)-----	10,731	10,157	22,760	199	35,650
Other grades of scrap-----	3,087	6,401	8,927	189	8,094
Total scrap-----	148,707	67,561	216,847	3,055	224,026
PIG IRON-----	5,460	---	5,080	50	6,677

1/ Excludes companies that produce both steel ingots and castings.

2/ Based on 69 percent return from reporting consumers.

TABLE 4. - Iron foundries and miscellaneous users - receipts, production, consumption, and shipments of iron and steel scrap, by grades, January 1973 ^{1/}
(Short tons)

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorous plate and punchings-----	109,317	4,349	117,012	410	44,194
Cut structural and plate-----	89,851	9,194	96,072	623	60,246
No. 1 heavy melting steel-----	37,083	7,119	37,826	2,439	16,269
No. 2 heavy melting steel-----	25,129	286	25,893	101	22,249
No. 1 and electric furnace bundles-----	41,772	27	41,414	---	15,704
No. 2 and all other bundles-----	48,739	---	53,659	---	23,965
Turnings and borings-----	59,390	4,304	60,704	3,644	54,386
Slag scrap (Fe content)-----	1,037	609	1,476	67	196
Shredded or fragmented-----	42,542	30	42,792	---	26,586
All other carbon steel scrap-----	149,921	13,309	191,411	2,995	191,442
Stainless steel-----	3,002	26	263	9	3,961
Alloy steel (except stainless)-----	8,480	298	8,198	48	18,491
Cast iron (includes borings)-----	374,542	505,925	871,833	13,296	292,038
Other grades of scrap-----	34,779	23,321	56,190	2,025	23,204
Total scrap-----	1,025,584	568,797	1,604,743	25,657	792,931
PIG IRON-----	276,037	---	271,616	11,380	266,293

^{1/} Based on 95 percent return from reporting consumers.

FOREIGN TRADE

Exports of iron and steel scrap totaled 856,043 short tons in January compared with 865,590 tons in December. Exports of pig iron during January totaled 249 tons and 3,429 tons in December. Imports of scrap totaled 30,732 short tons in January compared with 25,113 tons in December. Of the scrap imported during January, 29,885 short tons came from Canada and 847 tons from other sources. Imports of pig iron totaled 24,603 short tons in January and 114,044 tons in December. In addition to the foregoing imports of pig iron during January there were 2,384 tons of sponge iron, valued at \$312,779 imported, of which 1,262 tons came from Canada, 1,122 tons from other countries.

TABLE 5. - U.S. exports of iron and steel scrap ^{1/}, by countries

Country	January 1973	
	Short tons	Value
Argentina-----	31,647	\$ 1,237,898
Canada-----	63,272	2,073,847
China, Peoples Republic of-----	6,880	313,306
Greece-----	21,634	900,149
Italy-----	21,125	1,425,585
Japan-----	505,016	18,503,476
Korea-----	27,684	1,112,043
Mexico-----	67,892	3,229,610
Spain-----	52,852	1,683,475
Taiwan-----	28,280	1,096,541
Venezuela-----	15,202	578,165
Other Countries-----	14,559	871,450
Total-----	856,043	\$33,025,545

^{1/} Excludes ships, boats, and other vessels for breaking up (for scrapping) which was included in 1965-1970 figures.

TABLE 6. - U.S. exports of iron and steel scrap, by grades

Grades of scrap	January 1973	
	Short tons	Value
No. 1 heavy melting steel scrap-----	221,834	\$9,334,463
No. 2 heavy melting steel scrap-----	75,719	2,699,930
No. 1 bundles-----	7,265	256,046
No. 2 bundles-----	147,690	3,596,531
Borings, shovelings and turnings-----	28,881	764,411
Stainless steel-----	4,824	1,551,670
Shredded steel scrap-----	244,779	10,598,496
Iron scrap (excluding borings and shovelings)-----	21,043	867,299
All other steel scrap ^{1/} -----	104,008	3,356,699
Total-----	856,043	33,025,545
Ships, boats, and other vessels for breaking up (for scrapping)-----	4,961	256,307
Total-----	861,004	\$33,281,852

^{1/} Includes tin plate and terne plate.

FOREIGN TRADE

Exports of iron and steel scrap totaled r/865,590 short tons in December, compared with 674,063 tons in November. Exports of pig iron during December totaled 3,429 tons and 2,033 tons in November. Imports of scrap totaled 25,113 short tons in December, compared with 23,275 tons in November. Of the scrap imported during December, 24,626 short tons came from Canada and 487 tons from other sources. Imports of pig iron totaled 114,044 short tons in December and 47,446 tons in November. In addition to the foregoing imports of pig iron during December, there were 1,636 tons of sponge iron, valued at \$206,772, imported, of which 1,565 tons came from Canada, and 71 tons from other countries.

TABLE 5. - U.S. exports of iron and steel scrap 1/, by countries

Country	December 1972		Year to date	
	Short tons	Value	Short tons	Value
Belgium-----	295	\$38,078	4,540	\$300,051
Canada-----	57,249	1,963,929	903,030	26,604,523
Italy-----	24,462	994,420	717,448	23,223,219
Japan-----	380,552	13,102,845	2,309,471	71,307,168
Korea-----	61,480	2,150,518	380,130	13,087,070
Mexico-----	72,862	3,105,795	586,526	22,301,705
Spain-----	129,286	4,693,845	720,366	21,451,511
Taiwan-----	43,574	1,730,986	419,197	14,028,804
Thailand <u>r</u> /-----	12,936	490,431	83,730	2,943,853
United Kingdom-----	---	---	26,097	1,027,831
Venezuela-----	23,282	620,425	284,368	7,732,301
Other Countries-----	59,612	3,693,325	741,319	29,387,560
Total <u>r</u> /-----	865,590	32,584,597	7,176,222	233,395,596

r/ Revised.

1/ Excludes ships, boats, and other vessels for breaking up (for scrapping) which was included in 1965-1970 figures.

TABLE 6. - U.S. exports of iron and steel scrap, by grades

Grades of scrap	December 1972		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap <u>r</u> /-----	273,136	\$10,551,050	2,288,687	\$79,246,326
No. 2 heavy melting steel scrap <u>r</u> /-----	93,725	3,160,395	755,937	23,199,864
No. 1 bundles <u>r</u> /-----	43,506	1,640,878	179,820	6,112,326
No. 2 bundles-----	72,314	1,995,661	896,665	19,622,551
Borings, shovelings and turnings-----	74,623	1,782,594	507,883	10,761,110
Stainless steel <u>r</u> /-----	12,024	2,205,085	48,294	11,679,273
Shredded steel scrap-----	180,327	6,771,904	1,462,800	48,186,389
Iron scrap (excluding borings and shovelings)--	37,056	1,248,143	438,718	13,026,090
All other steel scrap <u>1</u> / <u>r</u> /-----	78,879	3,228,887	597,418	21,561,667
Total <u>r</u> /-----	865,590	32,584,597	7,176,222	233,395,596
Ships, boats, and other vessels for breaking up (for scrapping)-----	30,718	1,059,900	299,126	9,008,999
Total <u>r</u> /-----	896,308	33,644,497	7,475,348	242,404,595

r/ Revised.

1/ Includes tin plate and terne plate.