



MINERAL INDUSTRY SURVEYS

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON, D. C. 20240



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Iron and Steel Scrap, Monthly

IRON AND STEEL SCRAP IN NOVEMBER 1972

Data based on 83 percent of reporting consumers, indicate November consumption of iron and steel scrap was down 3 percent compared to October, according to the Bureau of Mines, U.S. Department of the Interior. During the same period, production was down 4 percent; net receipts down 3 percent; and stocks down 2 percent. Total consumption for the year through November was up 9 percent from that of the comparable period in 1971.

Exports in November were 6 percent above those of October and 141 percent above those of November 1971. Total iron and steel scrap exports for the year through November were 12 percent above 1971 exports for the comparable period. Largest importer of U.S. scrap was Japan which took 42 percent of total U.S. exports. Next largest exports were to Canada and Mexico which received 15 percent and 10 percent, respectively.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of November was \$39.50, up \$9.83 from the November 1971 price of \$29.67. The end of November No. 2 bundle price of \$26.83 was \$5.99 above its \$20.84 price 1 year earlier.

Preliminary November figures indicate pig iron production and consumption during the month were down 2 percent and 3 percent respectively, from those of October. Stocks declined about 2 percent during the same period.

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

	November 1972 1/				Total for month of October 1972 4/	Total year through November 1972 5/
	Mfrs. of steel ingots and castings 2/	Mfrs. of steel castings 3/	Iron foundries and miscel-laneous users	Total for month of November 1972		
SCRAP:						
Receipts-----	2,670 218	166,288	970,550	3,807,056	3,953,128	40,338,183
Production-----	3,758,025	69,430	519,737	4,347,192	4,541,812	46,984,327
Consumption by grades:						
Carbon steel-						
Low phosphorous plate and punchings-----	42,888	57,567	95,321	195,776	201,131	2,027,932
Cut structural and plate-----	33,680	14,687	96,500	144,867	140,858	1,358,914
No. 1 heavy melting steel-----	2,370,629	17,660	33,287	2,421,576	2,463,158	25,620,654
No. 2 heavy melting steel-----	289,904	---	13,984	303,888	294,977	3,121,020
No. 1 and electric furnace bundles-----	558,428	10,532	34,516	603,476	671,615	6,117,724
No. 2 and all other bundles-----	251,522	1,371	53,257	306,150	313,390	3,242,092
Turnings and borings-----	152,605	6,820	48,913	208,338	198,035	2,194,386
Slag scrap (Fe content)-----	275,617	411	1,469	277,497	293,421	2,885,498
Shredded or fragmented-----	106,564	6,656	45,186	158,406	173,797	1,727,267
All other carbon steel scrap-----	1,336,725	66,931	162,302	1,565,958	1,606,691	16,145,463
Stainless steel-----	70,458	2,593	1,699	74,750	85,062	875,158
Alloy steel (except stainless)-----	193,789	10,981	10,684	215,454	220,627	2,458,317
Cast iron (includes borings)-----	468,235	23,858	792,319	1,284,412	1,349,628	13,342,653
Other grades of scrap-----	61,471	9,965	56,911	128,347	136,620	1,424,447
Consumption Total-----	6,212,515	230,032	1,446,348	7,888,895	8,149,010	82,541,525
Shipments-----	405,648	4,346	24,889	434,883	473,525	5,021,212
Stocks end of month-----	7,374,235	243,334	786,918	8,404,487	8,592,855	---
PIG IRON:						
Receipts-----	293,817	4,415	277,563	575,795	546,066	6,094,382
Production-----	7,359,607	---	---	7,359,607	7,533,359	80,258,216
Consumption-----	7,190,233	5,087	242,495	7,437,815	7,684,438	80,508,890
Shipments-----	515,764	10	15,506	531,280	435,280	5,932,089
Stocks end of month-----	1,438,293	6,960	264,916	1,710,169	1,744,510	---

1/ Based on 83 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 92 percent return from reporting consumers.

5/ Cumulative totals may not agree with sum of monthly reports because of addition of reports from late respondents.

TABLE 2. - Manufacturers of steel ingots and castings 1/ - receipts, production, consumption and shipments of iron and steel scrap, by grades, November 1972 2/ (Short tons)

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorous plate and punchings----	43,908	1,304	42,888	-142	55,713
Cut structural and plate-----	35,509	---	33,680	---	55,041
No. 1 heavy melting steel-----	803,898	1,655,770	2,370,629	144,958	2,671,170
No. 2 heavy melting steel-----	176,510	96,947	289,904	8,471	345,824
No. 1 and electric furnace bundles-----	482,864	68,506	558,428	8,720	855,760
No. 2 and all other bundles-----	195,904	46,266	251,522	15,092	386,691
Turnings and borings-----	132,115	25,290	152,605	9,056	122,526
Slag scrap (Fe content)-----	134,264	151,977	275,617	7,942	100,949
Shredded or fragmented-----	108,919	---	106,564	---	69,997
All other carbon steel scrap-----	276,405	1,142,509	1,336,725	96,299	1,182,715
Stainless steel-----	29,093	50,058	70,458	3,493	107,536
Alloy steel (except stainless)-----	28,557	153,775	193,789	5,465	234,175
Cast iron (includes borings)-----	183,336	346,626	468,235	103,396	1,155,732
Other grades of scrap-----	38,936	18,997	61,471	2,898	30,406
Total scrap-----	2,670,218	3,758,025	6,212,515	405,648	7,374,235
PIG IRON -----	293,817	7,359,607	7,190,233	515,764	1,438,293

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

2/ Based on 98 percent return from reporting consumers.

TABLE 3. - Manufacturers of steel castings 1/ - receipts, production, consumption, and shipments of iron and steel scrap, by grades, November 1972 2/ (Short tons)

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorous plate and punchings-----	48,302	13,628	57,567	351	57,056
Cut structural and plate-----	13,586	720	14,687	243	6,487
No. 1 heavy melting steel-----	10,497	6,430	17,660	407	21,572
No. 2 heavy melting steel-----	---	---	---	---	---
No. 1 and electric furnace bundles-----	10,410	---	10,532	---	6,077
No. 2 and all other bundles-----	1,215	---	1,371	---	456
Turnings and borings-----	6,862	853	6,820	522	5,154
Slag scrap (Fe content)-----	53	319	411	---	40
Shredded or fragmented-----	7,514	---	6,656	---	4,292
All other carbon steel scrap-----	41,929	24,756	66,931	999	64,985
Stainless steel-----	1,802	869	2,593	103	7,410
Alloy steel (except stainless)-----	5,982	5,620	10,981	1,167	20,572
Cast iron (includes borings)-----	14,356	9,490	23,858	182	40,363
Other grades of scrap-----	3,780	6,745	9,965	372	8,870
Total scrap-----	166,288	69,430	230,032	4,346	243,334
PIG IRON-----	4,415	---	5,087	10	6,960

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

2/ Based on 79 percent return from reporting consumers.

TABLE 4. - Iron foundries and miscellaneous users - receipts, production, consumption
and shipments of iron and steel scrap, by grades, November 1972 1/
(Short tons)

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorous plate and punchings----	97,272	4,172	95,321	834	55,020
Cut structural and plate-----	87,106	7,761	96,500	818	60,802
No. 1 heavy melting steel-----	27,429	6,678	33,287	2,085	21,141
No. 2 heavy melting steel-----	11,421	244	13,984	47	9,506
No. 1 and electric furnace bundles----	36,828	14	34,516	---	21,532
No. 2 and all other bundles-----	47,261	1,344	53,257	9	31,762
Turnings and borings-----	50,697	6,881	48,913	6,645	65,084
Slag scrap (Fe content)-----	834	639	1,469	59	238
Shredded or fragmented-----	45,253	---	45,186	---	26,652
All other carbon steel scrap-----	165,019	10,976	162,302	2,096	159,220
Stainless steel-----	1,511	6	1,699	8	880
Alloy steel (except stainless)-----	8,854	308	10,684	87	15,612
Cast iron (includes borings)-----	356,042	456,367	792,319	9,526	292,941
Other grades of scrap-----	35,023	24,347	56,911	2,675	26,528
Total scrap-----	970,550	519,737	1,446,348	24,889	786,918
PIG IRON-----	277,563	---	242,495	15,506	264,916

1/ Based on 79 percent return from reporting consumers.

FOREIGN TRADE

Exports of iron and steel scrap totaled 674,063 short tons in November compared with 638,002 tons in October. Exports of pig iron during November totaled 2,033 tons and 1,572 tons in October. Imports of scrap totaled 23,275 short tons in November compared with 21,403 tons in October. Of the scrap imported during November, 21,301 short tons came from Canada and 1,974 tons from other sources. Imports of pig iron totaled 47,440 short tons in November and 65,935 tons in October. In addition to the foregoing imports of pig iron during November there were 1,537 tons of sponge iron, valued at \$266,111 imported, all of which came from Canada.

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

Country	November 1972		Year to date	
	Short tons	Value	Short tons	Value
Belgium-----	53	\$2,777	4,245	\$261,973
Canada-----	99,554	2,650,761	845,781	24,640,594
Italy-----	31,967	1,057,860	692,986	22,228,799
Japan-----	285,411	10,605,203	1,928,919	58,204,323
Korea-----	24,985	935,004	318,650	10,936,552
Mexico-----	65,320	2,571,536	513,664	19,195,910
Spain-----	45,098	1,373,768	591,080	16,757,666
Taiwan-----	5,122	384,418	375,623	12,297,818
Thailand-----	---	---	70,794	2,453,422
United Kingdom-----	1,005	21,700	26,097	1,027,831
Venezuela-----	20,099	634,396	261,086	7,111,876
Other Countries-----	95,449	3,580,141	681,707	25,694,235
Total-----	674,063	23,817,564	6,310,632	200,810,999

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	November 1972		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	253,513	\$9,249,108	2,015,551	\$68,695,276
No. 2 heavy melting steel scrap-----	72,854	2,423,785	662,212	20,039,469
No. 1 bundles-----	22,008	778,060	136,314	4,471,448
No. 2 bundles-----	44,451	1,119,410	824,351	17,626,890
Borings, shovelings and turnings-----	51,448	1,157,917	433,260	8,978,516
Stainless steel-----	4,428	880,991	36,270	9,474,188
Shredded steel scrap-----	126,239	4,627,126	1,282,473	41,414,485
Iron scrap (excluding borings and shovelings)-	17,993	620,596	401,662	11,777,947
All other steel scrap <u>1/--</u>	81,129	2,960,571	518,539	18,332,780
Total-----	674,063	23,817,564	6,310,632	200,810,999
Ships, boats, and other vessels for breaking up (for scrapping)-----	1,066	160,014	268,408	7,949,099
Total-----	675,129	23,977,578	6,579,040	208,760,098

1/ Includes tin plate and terne plate.