



MINERAL INDUSTRY SURVEYS

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



Rogers C. B. Morton, Secretary

Elburt F. Osborn, Director

For information call H. J. Polta
Telephone: 703-557-0622

Iron and Steel Scrap, Monthly

IRON AND STEEL SCRAP IN AUGUST 1972

Figures based on 84 percent of reporting consumers, indicate August consumption of iron and steel scrap was up 11 percent compared to July, according to the Bureau of Mines, U.S. Department of the Interior. During the same period, production was up 8 percent, net receipts up 11 percent, and stocks up 2 percent. Total consumption for the year through August was up 1 percent from that of the comparable period in 1971.

Exports in August were 21 percent below those of July but 6 percent above those of August 1971. Total iron and steel scrap exports for the year through August were 5 percent above 1971 exports for the comparable period. Largest importer of U.S. scrap was Japan which took 19 percent of total U.S. exports. Next largest exports were to Canada and Italy, each of which received 13 percent of the total.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of August was \$37.83, up \$6.00 from the August 1971 price of \$31.83. The end of August No. 2 bundle price of \$25.17 was \$2.00 above its \$23.17 price 1 year earlier.

Pig iron production and consumption during the month were up 2 percent and 3 percent, respectively, from those of July. Stocks remained essentially unchanged.

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

	AUGUST 1972 1/			Total for month of August 1972	Total for month of July 1972 4/	Total year through August 1972 5/
	Mfgs. of steel ingots and castings 2/	Mfgs. of steel castings 3/	Iron foundries and miscellaneous users			
SCRAP:						
Receipts-----	2,462,131	135,300	782,591	3,380,022	3,062,505	28,826,920
Production-----	3,777,199	56,583	399,554	4,233,336	3,904,902	33,659,193
Consumption by grades:						
Carbon steel-						
Low phosphorous plate and punchings-----	43,510	53,202	78,378	175,090	136,945	1,428,388
Cut structural and plate-----	27,219	10,859	78,931	117,009	104,978	947,454
No. 1 heavy melting steel-----	2,185,879	14,455	26,557	2,226,891	2,125,062	18,392,767
No. 2 heavy melting steel-----	234,313	-----	11,365	245,678	206,126	2,226,380
No. 1 and electric furnace bundles-----	470,113	7,470	28,623	506,206	460,241	4,268,612
No. 2 and all other bundles-----	217,205	1,527	47,708	266,440	246,927	2,332,936
Turnings and borings-----	130,804	5,375	45,452	181,631	168,686	1,571,946
Slag scrap (Fe content)-----	289,662	382	1,253	291,297	266,779	2,051,024
Shredded or fragmented-----	104,515	2,262	31,355	138,132	106,799	1,222,313
All other carbon steel scrap-----	1,278,128	53,019	122,927	1,454,074	1,321,027	11,459,172
Stainless steel-----	74,790	2,068	95	76,953	61,727	628,314
Alloy steel (except stainless)-----	186,646	9,748	16,011	212,405	188,440	1,808,116
Cast iron (include borings)-----	361,704	23,200	653,119	1,038,023	873,186	9,326,413
Other grades of scrap-----	67,515	6,824	46,260	120,599	107,539	1,020,095
Consumption Total-----						
Shipments-----	5,672,003	190,391	1,188,034	7,050,428	6,374,462	58,683,930
Stocks end of month-----	414,284	2,940	20,014	437,238	403,525	3,648,257
	7,748,286	254,992	772,697	8,775,975	8,642,018	----
PIG IRON:						
Receipts-----	271,270	4,455	217,356	493,081	474,258	4,448,056
Production-----	7,407,794	-----	-----	7,407,794	7,254,989	58,322,658
Consumption-----	7,139,373	4,667	217,501	7,361,541	7,153,499	58,210,378
Shipments-----	527,672	10	8,437	536,119	441,977	4,531,384
Stocks end of month-----	1,584,278	9,198	237,547	1,831,023	1,827,313	----

1/ Based on 84 percent return of consumers' reports.
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 of consumers' reports.
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, August 1972 (Short tons)

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorous plate and punchings-----	36,941	1,166	43,510	182	57,566
Cut structural and plate-----	26,666	-----	27,219	52	48,318
No. 1 heavy melting steel-----	680,478	1,733,049	2,185,879	153,354	2,795,808
No. 2 heavy melting steel-----	173,651	70,394	234,313	5,721	376,749
No. 1 and electric furnace bundles-----	428,226	59,563	470,113	2,480	915,447
No. 2 and all other bundles-----	212,378	24,420	217,205	7,667	415,843
Turnings and borings-----	109,001	24,256	130,804	32,448	123,926
Slag scrap (Fe content)-----	122,472	172,968	289,662	10,082	102,635
Shredded or fragmented-----	99,787	-----	104,515	-----	77,365
All other carbon steel scrap-----	288,206	1,114,572	1,278,128	93,734	1,204,660
Stainless steel-----	31,613	47,995	74,790	2,163	105,583
Alloy steel (except stainless)-----	34,861	158,881	186,646	4,826	260,457
Cast iron (includes borings)-----	160,084	353,368	361,704	97,585	1,224,521
Other grades of scrap-----	57,767	16,567	67,515	3,990	39,408
Total scrap-----	2,462,131	3,777,199	5,672,003	414,284	7,748,286
PIG IRON-----	271,270	7,407,794	7,139,373	527,672	1,584,278

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

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

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorous plate and punchings-----	35,715	15,189	53,202	240	53,391
Cut structural and plate-----	9,533	519	10,859	--	9,171
No. 1 heavy melting steel-----	10,570	4,653	14,455	--	24,966
No. 2 heavy melting steel-----	--	--	--	--	--
No. 1 and electric furnace bundles-----	5,857	--	7,470	--	4,455
No. 2 and all other bundles-----	2,420	--	1,527	--	1,594
Turnings and borings-----	5,040	773	5,375	470	5,211
Slag scrap (Fe content)-----	33	354	382	--	12
Shredded or fragmented-----	3,849	--	2,262	--	5,484
All other carbon steel scrap-----	37,273	17,508	53,019	293	66,101
Stainless steel-----	1,275	851	2,068	104	6,760
Alloy steel (except stainless)-----	4,699	5,729	9,748	1,141	26,192
Cast iron (includes borings)-----	13,483	8,740	23,200	229	41,817
Other grades of scrap-----	5,559	2,267	6,824	463	9,838
Total scrap-----	135,300	56,583	190,391	2,940	254,992
PIG IRON-----	4,455	--	4,667	10	9,198

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

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

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorus plate and punchings-----	73,009	3,376	78,378	611	38,390
Cut structural and plate-----	70,898	6,283	78,931	420	60,728
No. 1 heavy melting steel-----	20,328	7,794	26,557	2,737	19,566
No. 2 heavy melting steel-----	12,659	172	11,365	104	12,376
No. 1 and electric furnace bundles-----	29,950	54	28,623	--	19,985
No. 2 and all other bundles-----	45,426	237	47,708	--	42,099
Turnings and borings-----	46,662	4,671	45,452	4,024	66,479
Slag scrap (Fe content)-----	834	849	1,253	53	403
Shredded or fragmented-----	29,523	29	31,355	--	28,203
All other carbon steel scrap-----	113,580	12,624	122,927	1,898	129,262
Stainless steel-----	119	29	95	--	1,825
Alloy steel (except stainless)-----	12,037	1,422	16,011	53	12,194
Cast iron (includes borings)-----	296,524	341,950	653,119	8,177	314,561
Other grades of scrap-----	31,042	20,064	46,260	1,937	26,626
Total scrap-----	782,591	399,554	1,188,034	20,014	772,697
PIG IRON-----	217,356	--	217,501	8,437	237,547

FOREIGN TRADE

Exports of iron and steel scrap totaled 586,133 short tons in August compared with 737,640 tons in July. Exports of pig iron during August totaled 349 tons and 2,252 tons in July. Imports of scrap totaled 16,112 short tons in August compared with 33,241 tons in July. Of the scrap imported during August, 14,656 short tons came from Canada and 1,456 tons from other sources. Imports of pig iron totaled 41,813 short tons in August and 76,114 tons in July. In addition to the foregoing imports of pig iron during August, there were 1,184 tons of sponge iron, valued at \$190,857 imported, of which 1,137 tons came from Canada, 47 tons from other countries.

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

	August 1972		Year to date	
	Short tons	Value	Short tons	Value
Belgium-----	32	\$6,905	3,663	\$192,011
Canada-----	74,361	2,072,399	615,230	18,224,055
Italy-----	74,286	2,396,409	518,245	16,066,103
Japan-----	110,913	3,846,984	1,293,888	36,290,417
Korea-----	72,364	2,316,241	250,935	8,529,929
Mexico-----	53,567	1,959,969	333,518	12,182,282
Spain-----	51,946	1,410,449	474,054	13,227,874
Taiwan-----	6,193	269,414	218,168	6,510,884
Thailand-----	----	----	59,021	2,004,318
United Kingdom-----	----	----	24,811	996,500
Venezuela-----	31,608	857,267	155,156	4,045,243
Other countries-----	110,863	4,121,363	464,163	17,003,556
Total-----	586,133	19,257,400	4,410,852	135,273,172

^{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

	August 1972		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	188,707	\$6,573,735	1,311,390	\$43,662,515
No. 2 heavy melting steel scrap-----	71,941	2,379,661	465,781	13,387,298
No. 1 bundles-----	----	----	83,734	2,607,558
No. 2 bundles-----	99,908	2,308,793	664,780	13,841,530
Borings, shovelings and turnings-----	29,997	673,647	306,589	6,303,574
Stainless steel-----	1,948	634,637	24,102	6,639,416
Shredded steel scrap-----	108,254	3,647,619	901,578	28,096,053
Iron scrap (excluding borings and shovelings)-	21,381	720,726	319,682	9,304,391
All other steel scrap ^{1/--}	63,997	2,318,582	333,216	11,430,837
Total-----	586,133	19,257,400	4,410,852	135,273,172
Ships, boats, and other vessels for breaking up (for scrapping)-----	14,931	442,200	256,429	5,607,131
Total-----	601,064	19,699,600	4,667,281	140,880,303

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