



MINERAL INDUSTRY SURVEYS

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BUREAU OF MINES
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Iron and Steel Scrap, Monthly

IRON AND STEEL SCRAP IN JULY 1972

Preliminary figures based on 70 percent of reporting consumers, indicate July consumption of iron and steel scrap was down 11 percent compared to June, according to the Bureau of Mines, U.S. Department of the Interior. During the same period, production was down 7 percent, net receipts down 15 percent, and stocks up 2 percent. Total consumption for the year through June was down 4 percent from that of the comparable period in 1971.

Exports in July were 16 percent above those of June and 74 percent above those of July 1971. Total iron and steel scrap exports for the year through July were 5 percent above 1971 exports for the comparable period. Largest importers of U.S. scrap was Japan which took 32 percent of total U.S. exports. Next largest exports were to Italy and Spain which received 14 percent and 12 percent, respectively.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of July was \$36.17, up \$4.00 from the July 1971 price of \$32.17. The end of July No. 2 bundle price of \$24.83 was \$1.66 above its \$23.17 price 1 year earlier.

Preliminary July figures indicate pig iron production and consumption during the month were down 2 percent and 3 percent, respectively, from those of June. Stocks rose about 7 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)

	FINAL JUNE 1972 FIGURES				Total year through June 1972 ^{3/}	Preliminary total for month of July 1972 ^{4/}
	Mfgs. of steel ingots and castings ^{1/}	Mfgs. of steel castings ^{2/}	Iron foundries and miscel- laneous users	Total for month of June 1972		
SCRAP:						
Receipts-----	2,640,724	166,136	980,839	3,787,699	22,384,393	3,201,000
Production-----	3,791,257	72,737	477,816	4,341,810	25,520,955	4,043,000
Consumption by grades:						
Carbon steel-						
Low phosphorous plate and punchings-----	41,725	62,734	89,587	194,046	1,116,353	151,000
Cut structural and plate-----	28,426	15,005	84,806	128,237	725,467	111,000
No. 1 heavy melting steel-----	2,337,862	16,271	26,905	2,381,038	14,040,814	2,156,000
No. 2 heavy melting steel-----	271,595	----	3,404	274,999	1,774,576	244,000
No. 1 and electric furnace bundles-----	497,588	10,184	27,320	535,092	3,302,165	456,000
No. 2 and all other bundles-----	245,713	966	49,577	296,256	1,819,569	260,000
Turnings and borings-----	150,946	6,490	47,584	205,020	1,221,629	174,000
Slag scrap (Fe content)-----	274,854	433	1,403	276,690	1,492,948	268,000
Shredded or fragmented ^{5/} -----	99,582	4,875	39,381	143,838	977,382	118,000
All other carbon steel scrap-----	1,230,225	76,739	185,655	1,492,619	8,684,071	1,395,000
Stainless steel-----	81,475	2,160	204	83,839	489,634	63,000
Alloy steel (except stainless)-----	177,161	11,430	15,172	203,763	1,407,271	189,000
Cast iron (include borings)-----	384,455	29,343	766,797	1,180,595	7,415,204	1,012,000
Other grades of scrap-----	51,839	10,415	50,656	112,910	791,957	108,000
Consumption Total-----	5,873,446	247,045	1,388,451	7,508,942	45,259,040	6,705,000
Shipments-----	460,828	2,917	23,402	487,147	2,807,494	407,000
Stocks end of month-----	7,360,807	243,711	768,911	8,373,429	----	8,505,000
PIG IRON:						
Receipts-----	295,647	6,265	282,194	584,106	3,480,717	571,000
Production-----	7,354,375	----	----	7,354,375	43,659,875	7,201,000
Consumption-----	7,122,689	5,706	245,819	7,374,214	43,695,338	7,167,000
Shipments-----	544,093	82	13,246	557,421	3,553,288	494,000
Stocks end of month-----	1,436,673	9,821	241,025	1,687,519	----	1,799,000

1/ Includes only those manufacturers of steel castings that also produce ingots.
2/ Excludes companies that produce both steel ingots and castings.
3/ Year to date totals may not agree with a summation of prior monthly total due to revisions after publication of monthly data.
4/ Estimate based on 70 percent return of consumers reports - cut off date August 29, 1972.
5/ Does not include shredded scrap that consumers may have reported under different grade classification.

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

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorous plate and punchings-----	51,608	878	41,725	240	58,196
Cut structural and plate-----	27,874	--	28,426	139	38,193
No. 1 heavy melting steel-----	732,093	1,724,571	2,337,862	167,197	2,641,399
No. 2 heavy melting steel-----	193,945	90,923	271,595	6,799	374,363
No. 1 and electric furnace bundles-----	467,864	71,566	497,588	4,586	907,698
No. 2 and all other bundles-----	211,633	47,067	245,713	6,976	386,840
Turnings and borings-----	122,736	30,027	150,946	15,964	151,523
Slag scrap (Fe content)-----	124,361	160,147	274,854	8,446	98,574
Shredded or fragmented-----	100,852	--	99,582	43	79,311
All other carbon steel scrap-----	272,595	1,061,634	1,230,225	97,587	1,203,097
Stainless steel-----	39,826	52,970	81,475	3,729	96,457
Alloy steel (except stainless)-----	31,828	159,925	177,161	5,192	265,151
Cast iron (includes borings)-----	220,697	371,498	384,455	140,532	1,023,908
Other grades of scrap-----	42,812	20,051	51,839	3,398	36,097
Total scrap-----	2,640,724	3,791,257	5,873,446	460,828	7,360,807
PIG IRON-----	295,647	7,354,375	7,122,689	544,093	1,436,673

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, June 1972
(Short tons)

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorous plate and punchings-----	45,621	13,693	62,734	438	52,008
Cut structural and plate-----	11,211	536	15,005	---	8,886
No. 1 heavy melting steel-----	8,406	6,826	16,271	---	23,293
No. 2 heavy melting steel-----	7,665	---	10,184	---	6,912
No. 1 and electric furnace bundles-----	1,007	---	966	---	612
No. 2 and all other bundles-----	6,746	772	6,490	379	4,435
Turnings and borings-----	46	378	433	---	21
Slag scrap (Fe content)-----	4,393	---	4,875	---	4,079
Shredded or fragmentized-----	49,171	26,065	76,739	304	60,316
All other carbon steel scrap-----	1,128	1,649	2,160	97	6,960
Stainless steel-----	6,599	6,766	11,430	1,121	25,099
Alloy steel (except stainless)-----	16,186	11,646	29,343	133	42,629
Cast iron (includes borings)-----	7,957	4,406	10,415	445	8,461
Other grades of scrap-----					
Total scrap-----	166,136	72,737	247,045	2,917	243,711
PIG IRON-----	6,265	---	5,706	82	9,821

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, June 1972
(Short tons)

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorous plate and punchings-----	80,825	4,134	89,587	774	39,710
Cut structural and plate-----	70,883	8,259	84,806	483	60,334
No. 1 heavy melting steel-----	27,802	4,003	26,905	2,047	14,544
No. 2 heavy melting steel-----	8,403	1,020	3,404	5,333	10,472
No. 1 and electric furnace bundles-----	34,939	79	27,320	---	19,869
No. 2 and all other bundles-----	49,091	990	49,577	---	36,438
Turnings and borings-----	51,298	3,310	47,584	3,115	70,218
Slag scrap (Fe content)-----	435	776	1,403	---	189
Shredded or fragmentized-----	39,420	---	39,381	---	30,731
All other carbon steel scrap-----	201,998	10,194	185,655	2,143	123,614
Stainless steel-----	123	9	204	7	1,692
Alloy steel (except stainless)-----	15,991	679	15,172	152	16,341
Cast iron (includes borings)-----	370,050	423,915	766,797	8,259	320,624
Other grades of scrap-----	29,581	20,448	50,656	1,089	24,135
Total scrap-----	980,839	477,816	1,388,451	23,402	768,911
PIG IRON-----	282,194	---	245,819	13,246	241,025

FOREIGN TRADE

Exports of iron and steel scrap totaled 737,640 short tons in July compared with 637,107 tons in June. Exports of pig iron during July totaled 2,252 tons and 260 tons in June. Imports of scrap totaled 33,241 short tons in July compared with 23,858 tons in June. Of the scrap imported during July, 31,781 short tons came from Canada and 1,460 tons from other sources. Imports of pig iron totaled 76,114 short tons in July and 70,184 tons in June. In addition to the foregoing imports of pig iron during July there were 1,332 tons of sponge iron, valued at \$205,937 imported, of which 1,283 tons came from Canada, 49 tons from other countries.

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

Country	July 1972		Year to date	
	Short tons	Value	Short tons	Value
Belgium-----	33	\$ 4,660	3,631	\$ 185,106
Canada-----	60,417	1,806,730	540,869	16,151,656
Italy-----	101,178	2,973,064	443,959	13,669,694
Japan-----	238,498	6,635,217	1,182,975	32,443,433
Korea-----	44,950	1,658,207	178,571	6,213,688
Mexico-----	30,863	1,096,453	279,951	10,222,313
Spain-----	90,811	2,680,924	422,108	11,817,425
Taiwan-----	60,718	1,867,638	211,975	6,241,470
Thailand-----	12,319	397,700	59,021	2,004,318
United Kingdom-----	---	---	24,811	996,500
Venezuela-----	6,042	198,018	123,548	3,187,976
Other Countries-----	91,811	3,175,072	353,300	12,882,193
Total-----	737,640	22,493,683	3,824,719	116,015,772

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	July 1972		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	196,160	\$ 6,520,466	1,122,683	\$ 37,088,780
No. 2 heavy melting steel scrap-----	85,091	2,401,612	393,840	11,007,637
No. 1 bundles-----	22,552	789,983	83,734	2,607,558
No. 2 bundles-----	67,560	1,500,154	564,872	11,532,737
Borings, shovelings and turnings-----	61,602	1,346,693	276,592	5,629,927
Stainless steel-----	3,333	819,324	22,154	6,004,779
Shredded steel scrap----	156,136	4,782,683	793,324	24,448,434
Iron scrap (excluding borings and shovelings)	98,601	2,570,721	298,301	8,583,665
All other steel scrap <u>1/</u>	46,605	1,762,047	269,219	9,112,255
Total-----	737,640	22,493,683	3,824,719	116,015,772
Ships, boats, and other vessels for breaking up (for scrapping)-----	36,449	1,165,540	241,498	5,164,931
Total-----	774,089	23,659,223	4,066,217	121,180,703

1/ Includes tin plate and terne plate.