



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 SEPTEMBER 1971

Preliminary figures based on 66 percent of reporting consumers, indicate September consumption of iron and steel scrap was up 13 percent compared to August, according to the Bureau of Mines, U.S. Department of the Interior. During the same period, production was up 14 percent; net receipts up 9 percent; and stocks up 1 percent. Total consumption for the year through September was down 4 percent from that of the comparable period in 1970.

Exports in August were 30 percent above those of July 1971, but 38 percent below those of August 1970. Total iron and steel scrap exports for the year through August were 41 percent below 1970 exports for the comparable period. Largest importer of U.S. scrap in August was Japan which took 37 percent of total U.S. exports. Next largest exports were to Italy and Canada which received 12 percent and 11 percent, respectively.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of September was \$33.17, down \$9.83 from the September 1970 price of \$43.00. The end of September No. 2 bundle price of \$22.83 was \$3.67 below its \$26.50 price 1 year earlier.

Preliminary September figures indicate pig iron production and consumption during the month were up 22 percent and 35 percent respectively, from those of August. Stocks declined about 1 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 AUGUST 1971 FIGURES					Total year through August 1971 <u>3/</u>	Preliminary total for month of September 1971 <u>4/</u>
	Mfgs. of steel ingots and castings <u>1/</u>	Mfgs. of steel castings <u>2/</u>	Iron foundries and miscellaneous users	Total for month of August 1971			
SCRAP:							
Receipts-----	1,661,444	122,412	699,554	2,483,410	26,369,704	2,666,000	
Production-----	2,054,730	65,231	436,407	2,556,368	35,499,519	2,908,000	
Consumption by grades:							
Carbon steel-							
Low phosphorus plate and punchings-	20,379	49,300	57,035	126,714	1,592,698	143,000	
Cut structural and plate-----	32,257	10,331	61,528	104,116	898,526	114,000	
No. 1 heavy melting steel-----	951,641	15,871	20,459	987,971	18,129,941	1,256,000	
No. 2 heavy melting steel-----	178,490 *	99	13,967	192,556	2,093,684	209,000	
No. 1 and electric furnace bundles-----	354,604	4,466	22,561	381,631	4,177,529	373,000	
No. 2 and all other bundles-----	158,699	2,078	44,659	205,436	2,307,719	195,000	
Turnings and borings-----	77,228	3,987	42,301	123,516	1,664,720	132,000	
Slag scrap (Fe content)-----	128,937	233	1,136	130,306	2,102,951	181,000	
Shredded or fragmented <u>5/</u> -----	61,562	4,546	38,903	105,011	990,613	129,000	
All other carbon steel scrap-----	794,432	57,123	130,066	981,621	11,426,341	1,097,000	
Stainless steel-----	30,710	1,739	104	32,553	542,854	51,000	
Alloy steel (except stainless)-----	135,250	8,888	8,996	153,134	1,839,101	161,000	
Cast iron (include borings)-----	291,009	20,654	658,359	970,022	9,551,471	1,009,000	
Other grades of scrap-----	41,676	7,048	39,848	88,572	859,192	112,000	
Consumption Total-----	3,256,874	186,363	1,139,922	4,583,159	58,177,340	5,162,000	
Shipments-----	347,853	2,709	16,922	367,484	3,651,366	350,000	
Stocks end of month-----	6,822,175	247,164	793,630	7,862,969	-----	7,925,000	
PIG IRON:							
Receipts-----	227,338	4,826	183,740	415,904	4,640,169	695,000	
Production-----	3,421,452	-----	-----	3,421,452	58,406,349	4,170,000	
Consumption-----	3,159,029	5,442	174,837	3,339,308	58,415,933	4,502,000	
Shipments-----	444,010	56	559	444,625	4,613,792	392,000	
Stocks end of month-----	1,639,731	14,244	286,185	1,940,160	-----	1,911,000	

^{1/} Includes only those castings made by companies producing steel 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 publications of monthly data.

^{4/} Estimate based on 66 percent return of consumers reports - cut off date 11/1/71.

^{5/} Does not include shredded scrap that consumers may have reported under different grade classification.

TABLE 2. - U.S. salient iron and steel scrap and pig iron statistics, August 1971
(Short tons)

State	Receipts	Production	Consumption	Shipments	Stocks end of month	Pig iron consumption
Alabama-----	129,172	123,769	251,642	6,415	301,037	245,599
Arizona-----	W	W	W	W	W	-----
Arkansas-----	W	-----	W	-----	W	-----
California-----	103,002	98,286	179,088	8,298	278,235	151,268
Colorado-----	20,649	27,202	41,404	-----	39,710	59,813
Connecticut-----	4,361	2,548	6,383	229	11,308	781
Delaware-----	W	W	W	-----	W	-----
Florida-----	W	W	W	W	W	W
Georgia-----	23,341	7,749	32,921	96	50,182	631
Illinois-----	284,194	253,806	504,701	30,736	765,389	331,664
Indiana-----	112,873	268,345	302,420	40,299	1,260,573	453,297
Iowa-----	23,046	8,627	34,653	W	48,125	1,952
Kansas-----	5,910	3,940	10,435	-----	5,586	101
Kentucky-----	20,998	24,856	36,658	1,710	142,081	34,439
Louisiana-----	W	W	W	W	W	-----
Maine-----	W	W	W	-----	W	W
Maryland-----	10,839	34,324	27,048	W	239,490	W
Massachusetts-----	2,913	3,487	6,053	W	3,233	1,369
Michigan-----	330,637	308,716	631,233	17,987	332,405	378,732
Minnesota-----	8,129	3,334	9,654	W	87,769	1,997
Mississippi-----	W	W	W	-----	W	-----
Missouri-----	68,824	13,868	55,471	W	175,845	1,288
Montana-----	W	-----	-----	-----	W	-----
Nebraska-----	W	W	W	W	W	W
Nevada-----	W	-----	W	-----	W	W
New Hampshire-----	W	W	W	-----	W	W
New Jersey-----	33,823	8,815	39,066	348	48,032	5,414
New York-----	36,535	40,501	72,780	-1,948	349,001	12,176
North Carolina-----	8,405	W	9,123	-----	3,851	W
Ohio-----	419,609	486,055	728,623	163,358	1,131,071	527,850
Oklahoma-----	20,857	3,571	14,457	-----	35,220	534
Oregon-----	9,763	W	14,393	W	13,238	W
Pennsylvania-----	396,548	559,258	889,653	89,366	1,689,517	814,956
Rhode Island-----	4,726	3,261	7,312	W	7,320	214
South Carolina-----	1,560	W	4,118	-----	1,221	W
Tennessee-----	28,059	14,116	40,148	729	14,676	7,943
Texas-----	154,985	88,207	260,738	-6,769	246,709	8,117
Utah-----	W	W	W	W	W	W
Vermont-----	696	593	1,226	-----	2,013	362
Virginia-----	23,261	13,551	32,891	W	31,358	W
Washington-----	28,360	4,996	32,051	845	85,593	18
West Virginia-----	52,367	73,595	122,577	63	111,652	192,778
Wisconsin-----	30,257	30,646	60,587	3,479	27,745	8,530
Undistributed-----	84,711	46,346	123,652	12,243	323,784	97,485
Total-----	2,483,410	2,556,368	4,583,159	367,484	7,862,969	3,339,308

W Withheld to avoid disclosing individual company confidential data; included in Undistributed.

TABLE 3. - U.S. consumption of iron and steel scrap by grades, August 1971
(Short tons)

State	CARBON STEEL						Stainless & alloy steel	Cast iron (including borings)	Other grades of scrap including slag
	Low phos., cut structural, and plate	No. 1 & 2 heavy melting steel & No. 1 bundles	No. 2 & all other bundles	Turnings & borings	Shredded or fragmented	All other carbon steel			
Alabama-----	16,925	84,066	32,681	2,314	656	37,835	1,225	71,471	4,469
Arizona-----	W	W	-----	-----	-----	W	W	W	W
Arkansas-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
California-----	2,682	35,635	8,431	2,013	1,418	76,437	698	41,599	10,175
Colorado-----	1,992	25,318	-----	721	2,769	-----	123	1,194	9,287
Connecticut-----	2,198	198	22	-----	116	466	1,249	1,817	W
Delaware-----	W	W	-----	W	-----	W	W	W	-----
Florida-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Georgia-----	206	20,039	4,823	-----	50	6,310	-----	1,493	-----
Illinois-----	52,271	184,980	25,748	13,863	16,274	134,016	8,052	63,701	5,796
Indiana-----	10,302	108,341	19,007	9,816	442	76,232	3,857	42,419	32,004
Iowa-----	4,103	3,539	2,851	9,850	414	981	-----	9,738	3,177
Kansas-----	4,443	-----	-----	-----	W	W	-----	585	-----
Kentucky-----	-----	10,442	-----	3,091	76	5,578	3,572	8,726	5,173
Louisiana-----	W	-----	-----	-----	-----	W	-----	-----	-----
Maine-----	W	-----	-----	-----	-----	-----	-----	W	-----
Maryland-----	1,331	W	-----	W	-----	-----	-----	6,352	5,764
Massachusetts-----	919	29	-----	W	-----	W	4,369	4,092	W
Michigan-----	24,044	130,642	16,862	5,152	23,317	172,726	6	226,253	28,094
Minnesota-----	2,059	2,169	W	W	-----	1,615	4,143	3,568	220
Mississippi-----	-----	W	W	-----	-----	-----	-----	-----	-----
Missouri-----	279	35,142	-----	W	W	2,547	1,164	10,133	1,029
Montana-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Nebraska-----	W	-----	-----	-----	-----	W	-----	W	W
Nevada-----	W	-----	-----	-----	-----	-----	-----	W	-----
New Hampshire-----	-----	W	-----	-----	-----	-----	-----	-----	-----
New Jersey-----	1,381	6,305	9,992	-----	W	6,656	554	13,445	67
New York-----	3,758	3,851	5,137	153	2,223	13,628	3,654	38,236	2,140
North Carolina-----	W	7,520	-----	-----	-----	W	-----	1,051	-----
Ohio-----	47,149	198,925	43,659	39,150	13,839	125,628	52,358	181,835	26,080
Oklahoma-----	W	W	-----	-----	-----	W	-----	W	W
Oregon-----	-----	W	W	-----	-----	W	W	-----	-----
Pennsylvania-----	20,894	441,376	12,716	21,726	1,498	145,593	86,243	112,280	47,327
Rhode Island-----	-----	W	-----	-----	-----	680	W	W	W
South Carolina-----	W	-----	-----	W	-----	W	-----	2,707	-----
Tennessee-----	6,171	W	W	-----	-----	W	-----	23,005	5,895
Texas-----	7,013	123,809	4,643	13,405	8,989	47,698	4,616	43,735	6,830
Utah-----	W	W	W	-----	W	W	W	W	-----
Vermont-----	-----	W	-----	-----	-----	W	-----	W	-----
Virginia-----	4,513	W	W	-----	W	-----	-----	14,859	-----
Washington-----	2,421	19,021	788	126	4,486	1,626	917	1,364	W
West Virginia-----	197	19,143	6,738	99	-----	81,354	856	1,534	W
Wisconsin-----	11,651	1,369	-----	1,178	399	14,153	100	27,986	3,751
Undistributed-----	1,928	100,299	11,338	859	28,045	29,181	7,931	14,844	21,600
U.S. Total-----	230,830	1,562,158	205,436	123,516	105,011	981,621	185,687	970,022	218,878

W Withheld to avoid disclosing individual company confidential data; included in Undistributed.

FOREIGN TRADE

Exports of iron and steel scrap totaled 550,637 short tons in August compared with 424,995 tons in July. Exports of pig iron during August totaled 3,648 tons and 5,322 tons in July. Imports of scrap totaled 21,779 short tons in August compared with 22,186 tons in July. Of the scrap imported during August, 20,330 short tons came from Canada and 1,449 tons from other sources. Imports of pig iron totaled 37,806 short tons in August and 35,728 tons in July. In addition to the foregoing imports of pig iron during August there were 837 tons of sponge iron, valued at \$119,495 imported, of which 705 tons came from Canada and 132 tons from Mexico.

TABLE 4. - U.S. exports of iron and steel scrap 1/, by countries

Country	AUGUST 1971		Year to date	
	Short tons	Value	Short tons	Value
Canada-----	60,047	\$1,709,301	541,267	\$15,312,540
China (Taiwan)-----	20,160	711,600	319,823	10,324,297
France-----	-----	-----	7,652	290,203
Italy-----	66,652	3,101,960	404,985	16,513,106
Japan-----	203,831	5,346,346	1,333,750	43,276,487
Korea-----	-----	-----	168,257	6,992,300
Mexico-----	36,665	1,224,703	344,286	12,571,262
Spain-----	46,289	1,326,890	410,562	15,144,954
Sweden-----	1,036	209,483	14,691	3,244,621
United Kingdom-----	34,334	1,399,479	268,004	10,072,601
Venezuela-----	8,697	308,373	128,857	3,641,283
Other Countries-----	72,926	2,218,417	246,647	10,252,294
Total-----	550,637	17,556,552	4,188,781	147,635,948

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

TABLE 5. - U.S. exports of iron and steel scrap, by grades

Grades of scrap	AUGUST 1971		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	190,691	\$6,190,369	1,288,955	\$48,046,504
No. 2 heavy melting steel scrap-----	72,428	2,095,272	486,869	15,975,277
No. 1 bundles-----	10,745	336,838	126,032	4,804,046
No. 2 bundles-----	68,329	1,295,763	656,376	15,456,033
Borings, shoveling and turnings-----	42,991	865,906	230,021	5,304,545
Stainless steel-----	5,268	1,514,619	26,907	7,710,924
Shredded steel scrap-----	119,403	4,005,530	715,391	27,005,027
Iron scrap (excluding borings and shoveling)	20,054	531,838	365,315	11,101,266
All other steel scrap <u>1/-</u>	20,728	720,417	292,915	12,232,326
Total-----	550,637	17,556,552	4,188,781	147,635,948
Ships, boats, and other vessels for breaking up (for scrapping)-----	20,336	273,554	313,785	5,575,453
Total-----	570,973	17,830,106	4,502,566	153,211,401

1/ Includes tin plate and terne plate.