



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 OCTOBER 1972

Figures based on 89 percent of reporting consumers, indicate October consumption of iron and steel scrap was up 7 percent compared to September, according to the Bureau of Mines, U.S. Department of the Interior. During the same period, production was up 5 percent; net receipts up 11 percent; and stocks down 1 percent. Total consumption for the year through October was up 7 percent from that of the comparable period in 1971.

Exports in October were 9 percent above those of September and 73 percent above those of October 1971. Total iron and steel scrap exports for the year through October were 6 percent above 1971 exports for the comparable period. Largest importers of U.S. scrap was Japan which took 39 percent of total U.S. exports. Next largest exports were to Canada and Mexico, each of which received about 9 percent.

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 33 percent from the end of November 1971 price of \$29.67. The end of November No. 2 bundle price of \$26.83 was 29 percent above its \$20.84 price 1 year earlier.

Both production and consumption of pig iron during the month were up 7 percent from those in September. 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)

	October 1972 1/				Total for month of September 1972 4/	Total year through October 1972 5/
	Mfrs. of steel ingots and castings 2/	Mfrs. of steel castings 3/	Iron foundries and miscellaneous users	Total for month of October 1972		
SCRAP:						
Receipts-----	2,762,024	158,963	1,028,664	3,949,651	3,600,604	36,527,650
Production-----	3,912,410	78,496	552,190	4,543,096	4,335,894	42,638,419
Consumption by grades:						
Carbon steel-						
Low phosphorous plate and punchings-----	44,178	58,654	98,292	201,124	200,506	1,832,149
Cut structural and plate-----	24,080	16,837	99,329	140,246	126,993	1,213,435
No. 1 heavy melting steel-----	2,411,128	17,110	34,251	2,462,489	2,327,901	23,198,409
No. 2 heavy melting steel-----	281,780	-----	13,197	294,977	274,970	2,817,132
No. 1 and electric furnace bundles-----	621,786	10,726	38,863	671,375	572,595	5,514,008
No. 2 and all other bundles-----	258,283	1,346	53,761	313,390	290,848	2,935,942
Turnings and borings-----	137,461	7,120	53,454	198,035	211,340	1,986,048
Slag scrap (Fe content)-----	291,292	425	1,704	293,421	263,706	2,608,001
Shredded or fragmentized-----	123,371	6,228	44,198	173,797	159,843	1,568,861
All other carbon steel scrap-----	1,155,779	75,898	175,046	1,606,723	1,456,041	14,579,537
Stainless steel-----	80,007	2,189	2,352	84,548	86,673	799,894
Alloy steel (except stainless)-----	196,379	11,455	12,793	220,627	215,140	2,242,863
Cast iron (includes borings)-----	466,808	25,133	857,533	1,349,474	1,265,881	12,058,087
Other grades of scrap-----	66,207	9,698	60,330	136,235	138,189	1,295,715
Consumption Total-----	6,358,539	242,819	1,545,103	8,146,461	7,590,626	74,650,081
Shipments-----	446,021	3,644	23,358	473,023	458,343	4,585,827
Stocks end of month-----	7,578,334	246,720	768,659	8,593,713	8,643,676	-----
PIG IRON:						
Receipts-----	270,629	5,541	269,686	545,856	520,986	5,518,377
Production-----	7,533,359	-----	-----	7,533,359	7,035,062	72,898,609
Consumption-----	7,436,051	5,373	242,784	7,684,208	7,175,479	73,070,845
Shipments-----	420,694	10	14,560	435,264	434,206	5,400,793
Stocks end of month-----	1,491,409	7,695	245,507	1,744,611	1,787,319	-----

1/ Based on 89 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 95 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, October 1972 2/ (Short tons)

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorous plate and punchings-----	42,892	1,290	44,178	2,174	53,247
Cut structural and plate-----	24,261	-----	24,080	-----	53,212
No. 1 heavy melting steel-----	798,633	1,733,625	2,411,128	146,407	2,708,977
No. 2 heavy melting steel-----	188,741	97,209	281,780	7,631	370,792
No. 1 and electric furnace bundles-----	520,753	64,211	621,786	3,591	871,399
No. 2 and all other bundles-----	199,996	50,984	258,283	16,872	411,758
Turnings and borings-----	123,643	22,512	137,461	5,407	126,782
Slag scrap (Fe content)-----	132,866	166,830	291,292	9,305	98,267
Shredded or fragmentized-----	124,397	-----	123,371	-----	69,697
All other carbon steel scrap-----	288,775	1,183,775	1,355,779	119,802	1,226,516
Stainless steel-----	34,133	49,097	80,007	3,199	102,297
Alloy steel (except stainless)-----	37,275	166,230	196,379	7,081	251,452
Cast iron (includes borings)-----	198,148	356,990	466,808	119,388	1,197,028
Other grades of scrap-----	47,511	19,657	66,207	5,164	36,910
Total scrap-----	2,762,024	3,912,410	6,358,539	446,021	7,578,334
PIG IRON-----	270,629	7,533,359	7,436,051	420,694	1,491,409

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

2/ Based on 100 percent return from reporting consumers.

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

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorus plate and punchings-----	45,553	13,617	58,654	347	52,988
Cut structural and plate-----	14,876	591	16,837	---	7,031
No. 1 heavy melting steel-----	8,856	7,405	17,110	---	22,977
No. 2 heavy melting steel-----	---	---	---	---	---
No. 1 and electric furnace bundles-----	9,811	---	10,726	83	6,199
No. 2 and all other bundles-----	1,035	---	1,346	---	687
Turnings and borings-----	6,567	666	7,120	310	4,841
Slag scrap (Fe content)-----	40	456	425	---	79
Shredded or fragmented-----	4,277	---	6,228	---	3,434
All other carbon steel scrap-----	43,546	31,070	75,898	243	66,479
Stainless steel-----	711	1,725	2,189	130	7,247
Alloy steel (except stainless)-----	5,743	5,921	11,455	1,104	25,489
Cast iron (includes borings)-----	14,168	10,657	25,133	699	40,587
Other grades of scrap-----	3,780	6,388	9,698	728	8,682
Total scrap-----	158,963	78,496	242,819	3,644	246,720
PIG IRON-----	5,541	---	5,373	10	7,695

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

2/ Based on 90 percent return from reporting consumers.

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

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Los phosphorous plate and punchings-----	101,405	4,767	98,292	631	49,899
Cut structural and plate-----	92,630	7,783	99,329	489	63,178
No. 1 heavy melting steel-----	30,886	7,953	34,251	2,287	22,407
No. 2 heavy melting steel-----	10,649	346	13,197	177	11,872
No. 1 and electric furnace bundles-----	37,483	35	38,863	--	19,377
No. 2 and all other bundles-----	47,143	539	53,761	9	36,423
Turnings and borings-----	53,480	4,529	53,454	4,293	63,491
Slag scrap (Fe content)-----	1,004	753	1,704	59	293
Shredded or fragmentized-----	46,003	--	44,198	114	27,221
All other carbon steel scrap-----	187,216	12,106	175,046	2,276	147,503
Stainless steel-----	1,220	29	2,352	3	1,070
Alloy steel (except stainless)-----	13,155	845	12,793	103	17,221
Cast iron (includes borings)-----	367,401	488,627	857,533	11,646	282,030
Other grades of scrap-----	38,989	23,878	60,330	1,271	26,674
Total scrap-----	1,028,664	552,190	1,545,103	23,358	768,659
PIG IRON-----	269,686	--	242,784	14,560	245,507

1/ Based on 87 percent return from reporting consumers.

FOREIGN TRADE

Exports of iron and steel scrap totaled 638,002 short tons in October compared with 587,715 tons in September. Exports of pig iron during October totaled 1,572 tons and 479 tons in September. Imports of scrap totaled 21,403 short tons in October compared with 25,931 tons in September. Of the scrap imported during October, 20,366 short tons came from Canada and 1,037 tons from other sources. Imports of pig iron totaled 65,935 short tons in October and 66,370 tons in September. In addition to the foregoing imports of pig iron during October, there were 1,481 tons of sponge iron, valued at \$215,789 imported, of which 1,452 tons came from Canada and 29 tons from other countries.

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

Country	October 1972		Year to date	
	Short tons	Value	Short tons	Value
Belgium-----	325	39,556	4,192	259,196
Canada-----	59,784	1,680,724	746,227	21,989,833
Italy-----	45,241	1,666,532	661,019	21,170,939
Japan-----	251,560	8,076,744	1,643,508	47,599,120
Korea-----	16,588	527,989	293,665	10,001,548
Mexico-----	55,125	2,131,052	448,344	16,624,374
Spain-----	20,472	753,087	545,982	15,383,898
Taiwan-----	46,661	1,326,440	370,501	11,913,400
Thailand-----	11,773	449,104	70,794	2,453,422
United Kingdom-----	149	5,631	25,092	1,006,131
Venezuela-----	53,436	1,658,782	240,987	6,477,480
Other Countries-----	76,888	3,612,763	586,258	22,114,094
Total-----	638,002	21,928,404	5,636,569	176,993,435

^{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	October 1972		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	252,951	8,806,608	1,762,038	59,446,168
No. 2 heavy melting steel scrap-----	55,607	1,764,015	589,358	17,615,684
No. 1 bundles-----	25,786	940,623	114,306	3,693,388
No. 2 bundles-----	67,837	1,621,493	779,900	16,507,480
Borings, shovelings and turnings-----	48,140	929,795	381,812	7,820,599
Stainless steel-----	5,127	1,513,844	31,842	8,593,197
Shredded steel scrap-----	107,195	3,782,188	1,156,234	36,787,359
Iron scrap (excluding borings and shovelings)-	23,836	712,411	383,669	11,157,351
All other steel scrap ^{1/} -----	51,523	1,857,427	437,410	15,372,209
Total-----	638,002	21,928,404	5,636,569	176,993,435
Ships, boats, and other vessels for breaking up (for scrapping)-----	2,280	342,114	267,342	7,789,085
Total-----	640,282	22,270,518	5,903,911	184,782,520

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