



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 DECEMBER 1969

Consumption of iron and steel scrap declined in December although the year-end total showed a 10-percent increase, according to the Bureau of Mines, U.S. Department of the Interior. Receipts and production showed a slight increase over the previous month with estimated year-end totals indicating an approximate 10-percent gain over 1968. Pig iron production and consumption were also higher in December as the industry followed the pattern of the over-all iron and steel industry in stepping up production. Exports of iron and steel scrap dropped 10 percent in December with the major decrease resulting from shipments to Japan which were nearly 100,000 short tons less than in November.

Average quoted prices for iron and steel scrap increased sharply in December on all markets. The year-end composite price for No. 1 Heavy Melting scrap as quoted in the American Metal Market for December 31 was \$36.17 per gross ton, compared with the November ending price of \$32.19 per gross ton. The strong Midwest scrap metal market is partly based on an industry-wide impression that prices of iron and steel scrap will continue to rise. There also appears to be industry concern over the available supply and the possibility of a metal shortage developing. This is especially the condition of the industry in the Midwest where severe winter weather conditions have handicapped scrap processors and dealers.

Important: Surveillance responsibility for iron and steel scrap has been transferred to the Twin Cities Office of Mineral Resources, P. O. Box 1660, Twin Cities Airport, Minnesota 55111. The surveillant is Frank L. Fisher, Physical Scientist.

Prepared in Mineral Resource Evaluation, March 20, 1970.

TABLE 1. - U.S. receipts, production, consumption, shipments and stocks of iron and steel scrap and pig iron, by type of manufacturer, December 1969
(Short tons)

	Manufacturers of steel ingots and castings 1/	Manufacturers of steel castings 2/	Iron foundries and miscel- laneous users	Total	Total Year to date 3/
SCRAP:					
Receipts -----	2,715,221	163,936	728,908	3,608,065	43,242,052
Production -----	4,099,547	92,671	469,874	4,662,092	56,048,543
Consumption by grades:					
Carbon steel-					
Low phosphorous plate and punchings-	25,772	67,606	65,328	158,706	2,025,688
Cut structural and plate -----	30,807	16,269	69,865	116,941	1,538,632
No. 1 heavy melting steel -----	2,134,333	24,380	20,083	2,178,796	27,184,121
No. 2 heavy melting steel -----	506,616	295	19,205	526,116	6,483,384
No. 1 and electric furnace bundles -	605,481	6,302	35,913	647,696	7,631,346
No. 2 and all other bundles -----	307,216	2,780	39,508	349,504	4,264,522
Turnings and borings -----	245,440	6,043	39,695	291,178	3,098,166
Slag scrap (Fe content) -----	293,300	356	1,667	295,323	3,761,253
Shredded or fragmented -----	54,107	3,026	6,372	63,505	809,377
All other carbon steel scrap -----	1,309,496	78,097	136,912	1,524,505	17,890,109
Stainless steel -----	84,338	2,167	2,697	89,202	1,030,547
Alloy steel (except stainless) -----	268,295	11,167	13,109	292,571	3,290,769
Cast iron (include borings) -----	428,906	28,629	661,026	1,118,561	14,285,856
Other grades of scrap -----	35,785	13,262	40,771	89,818	1,075,693
Total consumption -----	6,329,892	260,379	1,152,151	7,742,422	94,369,463
Shipments -----	591,165	4,083	32,595	627,843	6,533,865
Stocks end of month -----	5,341,010	261,875	845,437	6,448,322	-----
PIG IRON:					
Receipts -----	479,761	7,153	285,976	772,890	8,797,062
Production -----	7,901,752	-	-	7,901,752	93,501,556
Consumption -----	7,660,714	8,125	296,367	7,965,206	94,485,699
Shipments -----	715,844	173	525	716,542	8,286,649
Stocks end of month -----	1,461,028	15,513	238,822	1,715,363	-----

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 totals due to revisions after publication of monthly data.

TABLE 2. - U.S. salient iron and steel scrap and pig iron statistics, December 1969
(Short tons)

STATE	Receipts	Production	Consumption	Shipments	Stocks end of month	Pig iron consumption
Alabama -----	146,791	165,360	296,290	18,865	207,080	354,197
Arizona -----	W	W	W	W	W	-
Arkansas -----	W	-	W	-	W	-
California ----	130,186	111,804	249,199	3,347	182,949	198,267
Colorado -----	W	W	W	-	W	W
Connecticut ---	8,129	5,964	12,534	737	14,605	1,368
Delaware -----	W	W	W	W	W	W
Florida -----	W	W	W	-	W	W
Georgia -----	W	W	W	W	W	W
Illinois -----	349,011	414,541	741,660	87,121	637,618	669,257
Indiana -----	303,860	649,612	871,903	58,317	544,774	1,051,476
Iowa -----	37,944	14,171	52,282	331	47,041	3,090
Kansas -----	4,544	4,114	10,174	W	3,177	237
Kentucky -----	56,206	62,963	111,686	14,435	101,694	W
Louisiana -----	W	W	W	W	W	W
Maine -----	W	W	W	-	W	W
Maryland -----	56,688	223,066	267,955	10,767	155,165	W
Massachusetts--	4,738	5,233	9,985	283	5,053	2,225
Michigan -----	372,736	361,995	748,202	21,022	360,091	673,198
Minnesota -----	23,497	21,640	44,999	337	80,457	W
Mississippi ---	W	W	W	-	W	-
Missouri -----	46,835	19,335	69,085	691	181,770	-
Montana -----	W	W	W	W	W	W
Nebraska -----	W	W	W	W	W	W
Nevada -----	W	-	W	-	W	W
New Hampshire--	W	W	W	-	W	W
New Jersey ----	41,460	12,617	53,793	1,796	56,966	5,060
New York -----	111,573	214,546	301,804	7,475	412,736	514,980
North Carolina-	13,085	5,786	18,956	-	22,475	2,886
Ohio -----	721,203	839,592	1,304,571	170,874	940,950	1,355,025
Oklahoma -----	20,068	4,086	22,233	726	36,780	1,195
Oregon -----	9,060	4,731	14,203	605	19,628	W
Pennsylvania --	657,970	1,072,912	1,627,694	185,650	1,653,937	1,944,688
Rhode Island---	6,482	4,183	11,106	67	17,210	970
South Carolina-	2,039	2,623	4,583	-	1,264	W
Tennessee -----	22,185	16,837	36,829	810	12,545	10,487
Texas -----	148,880	153,954	275,505	17,916	284,794	8,719
Utah -----	13,873	57,489	78,457	15,174	133,524	132,095
Vermont -----	1,182	618	1,714	-	2,278	521
Virginia -----	17,043	15,979	34,059	346	19,121	W
Washington ----	49,577	11,940	51,027	1,597	73,904	W
West Virginia--	69,302	83,009	150,288	3,510	90,124	216,893
Wisconsin -----	38,840	40,628	79,450	2,927	33,592	12,930
Undistributed--	123,078	60,764	190,196	2,117	115,020	805,442
Total U.S. --	3,608,065	4,662,092	7,742,422	627,843	6,448,322	7,965,206

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

TABLE 3. - U. S. consumption of iron and steel scrap by grades, December 1969
(Short tons)

State	CARBON STEEL										Cast iron (including borings)	Stainless & alloy steel	Other grades of scrap including slag
	Low phos., cut struc- tural, and plate	No. 1 & 2 heavy melt- ing steel	No. 1-2 & all other bundles	Turnings & borings	Shredded or fragmentized steel	All other carbon steel							
Alabama -----	12,208	101,726	54,326	121	217	47,924	13,444	59,867	6,457				
Arizona -----	W	-	-	-	-	W	W	W	W				
Arkansas -----	-	-	-	-	-	-	-	-	-				
California ---	3,380	56,207	25,037	3,639	7,616	101,082	742	37,285	14,211				
Colorado -----	W	W	-	W	-	-	W	W	W				
Connecticut --	3,189	696	33	-	-	620	3,892	3,796	W				
Delaware -----	W	W	W	W	W	W	W	W	W				
Florida -----	W	-	W	-	-	W	-	W	-				
Georgia-----	W	W	W	-	-	W	-	W	-				
Illinois -----	42,419	219,209	152,510	23,935	5,176	199,230	15,089	78,065	6,027				
Indiana -----	11,097	439,743	107,351	45,325	-	144,563	11,437	43,607	68,780				
Iowa -----	5,373	7,271	4,329	12,434	657	4,275	89	13,067	4,787				
Kansas -----	5,174	-	-	-	W	W	-	1,577	W				
Kentucky -----	-	60,280	8,227	6,862	-	19,069	8,045	8,026	1,177				
Louisiana -----	W	-	-	-	-	W	-	-	-				
Maine -----	W	-	-	-	-	-	-	W	-				
Maryland -----	3,094	W	33,601	W	2,834	W	7,481	22,692	17,673				
Massachusetts-	1,644	60	W	W	-	1,225	W	6,408	W				
Michigan -----	22,869	41,719	142,948	14,027	11,787	265,355	13,094	217,339	19,064				
Minnesota -----	2,904	20,863	W	W	-	1,885	W	6,906	W				
Mississippi --	-	-	W	-	W	W	-	-	-				
Missouri -----	4,067	41,710	W	W	W	2,977	1,200	11,024	1,226				
Montana -----	-	W	-	-	-	-	-	W	W				
Nebraska -----	W	-	-	-	-	W	-	W	W				
Nevada -----	W	-	-	-	-	-	-	W	-				
New Hampshire-	-	W	-	-	-	-	-	-	-				
New Jersey ---	3,466	2,580	13,488	W	W	10,325	625	22,133	383				
New York -----	3,388	131,775	16,601	7,101	709	49,656	13,523	45,806	33,245				
North Carolina	W	-	W	-	-	W	-	9,500	-				
Ohio -----	74,119	420,349	157,934	79,456	20	231,009	84,938	190,535	66,211				
Oklahoma -----	-	W	-	-	-	W	-	W	W				
Oregon -----	-	W	W	-	-	-	W	W	-				
Pennsylvania -	27,902	714,060	150,464	49,257	-	209,863	193,087	191,577	91,484				
Rhode Island--	-	W	W	-	-	-	W	-	W				
South Carolina	W	-	-	13	-	W	-	3,695	-				
Tennessee -----	8,299	W	W	-	W	W	-	21,840	4,811				
Texas -----	8,159	86,812	15,931	32,739	14,435	67,528	4,860	37,529	7,512				
Utah -----	W	W	W	W	-	W	W	W	-				
Vermont -----	-	W	-	-	-	W	-	W	-				
Virginia -----	5,769	W	W	-	W	6,528	W	16,505	-				
Washington ---	2,536	22,904	7,608	780	6,578	1,790	1,396	5,919	W				
West Virginia-	W	11,034	W	1,968	-	W	197	4,009	W				
Wisconsin -----	19,345	767	-	2,027	-	15,912	281	30,726	10,392				
Undistributed-	5,246	325,147	106,812	11,494	13,476	143,689	8,353	29,128	31,701				
U. S. Total ---	275,647	2,704,912	997,200	291,178	63,505	1,524,505	381,773	1,118,561	385,141				

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FOREIGN TRADE

Exports of iron and steel scrap totaled 723,985 short tons in December compared with 809,902 tons in November. Exports of pig iron during December totaled 26,940 tons and 7,318 tons in November. Imports of scrap totaled 25,289 short tons in December compared with 39,191 tons in November. Of the scrap imported during December 24,957 short tons came from Canada and 332 tons from other sources. Imports of pig iron totaled 45,991 short tons in December and 39,136 tons in November. In addition to the foregoing imports of pig iron during December there were 364 tons of sponge iron, valued at \$51,224 imported, of which 355 tons came from Canada and 9 tons from Mexico.

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

Country	December 1969		Year to date	
	Short tons	Value	Short tons	Value
Canada -----	56,877	\$1,789,705	618,758	\$15,306,529
Hong Kong -----	56	4,089	12,849	391,388
Italy -----	44,125	1,313,037	878,767	25,781,283
Japan -----	331,291	11,379,732	4,204,090	126,254,418
Korea -----	27,154	1,201,618	554,118	20,376,530
Mexico -----	50,710	2,055,798	582,249	20,231,147
Spain -----	101,003	3,356,783	1,103,697	30,150,383
Sweden -----	16,341	434,579	203,566	19,766,849
Taiwan -----	19,468	868,864	114,869	4,506,945
United Kingdom -----	18,708	994,657	309,824	10,515,240
West Germany -----	4,098	167,261	92,963	5,344,031
Other countries -----	54,154	1,412,857	360,211	13,231,718
Total -----	723,985	24,978,980	9,035,961	291,856,461

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

Grades of scrap	December 1969		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap -----	277,643	\$10,369,448	3,452,217	\$114,646,291
No. 2 heavy melting steel scrap -----	99,499	3,272,638	1,009,047	29,760,139
No. 1 bundles -----	19,061	650,325	592,961	19,678,816
No. 2 bundles -----	120,515	3,193,476	1,037,557	22,038,345
Borings, shovelings and turnings -----	61,858	1,354,837	766,558	13,135,053
Iron scrap -----	47,489	1,541,843	627,462	20,480,860
Stainless steel scrap ----	2,093	645,063	75,565	22,868,303
All other scrap 1/ -----	95,827	3,951,350	1,474,594	49,248,654
Total -----	723,985	24,978,980	9,035,961	291,856,461

1/ Includes tin plate and terne plate.