



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 NOVEMBER 1973

Returns from 89 percent of reporting consumers indicated that consumption of ferrous scrap in November was 4.2 percent less than that of October 1973, according to the Bureau of Mines, U.S. Department of the Interior. In November, production decreased 4.2 percent from that of October 1973, receipts were down 3.9 percent, and stocks were down 0.8 percent.

Iron and Steel Scrap exports in November 1973 were down 22.6 percent from those of October 1973 and 18.0 percent less than those of November 1972. Total exports of scrap for the year through November 1973 were 16.4 percent above 1972 total exports for the comparable period. Korea was the major importer receiving 17.1 percent of the total quantity of U.S. ferrous scrap exported in November 1973. Spain with 16.2 percent and Mexico with 15.1 percent, respectively, of November 1973 shipments of ferrous scrap from the United States were the next major importers.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the close of November 1973 was \$80.83 per gross ton, up 104.6 percent from the November 1972 price of \$39.50. The No. 2 bundles price at the end of November 1973 was \$48.17, up 79.5 percent from the comparable November 1972 price of \$26.83.

Pig iron production and consumption in November 1973 was down 5.0 percent and 4.1 percent, respectively, from that of October 1973, according to the same reports from consumers. Stocks declined 3.3 percent in November 1973 compared with those of October 1973.

Data on imports of scrap and pig iron in November were not available, but will be published in the Mineral Industry Surveys for December 1973.

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

	November 1/				Total for month of October 1973 4/	Total year through November 1973 5/
	Mfgs. of steel ingots and castings 2/	Mfgs. of steel castings 3/	Iron foundries and miscel-laneous users	Total for month of November 1973		
SCRAP:						
Receipts-----	3,112,023	175,881	1,016,583	4,304,487	4,478,189	45,347,442
Production-----	4,163,756	72,385	502,816	4,738,957	4,947,787	52,834,527
Consumption by grades:						
Carbon steel-						
Low phosphorous plate and punchings-----	53,165	64,263	97,393	214,821	227,676	2,284,781
Cut structural and plate-----	49,658	16,366	91,378	157,402	168,840	1,803,622
No. 1 heavy melting steel-----	2,514,915	20,118	39,808	2,574,841	2,597,822	28,223,973
No. 2 heavy melting steel-----	344,609	703	15,039	360,351	370,704	3,819,157
No. 1 and electric furnace bundles-----	584,945	5,535	35,324	625,804	694,017	7,315,497
No. 2 and all other bundles-----	327,344	1,324	17,696	376,364	372,998	3,715,153
Turnings and borings-----	148,351	6,182	216,949	216,949	236,219	2,544,692
Slag scrap (Fe content)-----	337,443	577	62,416	338,107	335,565	3,322,467
Shredded or fragmentized-----	117,776	6,978	50,104	174,858	189,691	1,878,777
All other carbon steel scrap-----	1,452,935	79,721	154,721	1,687,377	1,760,550	18,543,272
Stainless steel-----	90,635	2,223	2,075	94,933	93,893	982,419
Alloy steel (except stainless)-----	184,296	11,216	8,553	204,065	228,328	2,339,761
Cast iron (includes borings)-----	567,491	24,538	796,247	1,388,276	1,511,173	14,939,131
Other grades of scrap-----	85,292	8,147	53,074	146,513	150,386	1,549,490
Consumption Total-----	6,858,855	247,891	1,453,915	8,560,661	8,937,862	93,262,192
Shipments-----	493,050	2,983	21,005	517,038	569,597	5,736,559
Stocks end of month-----	6,219,493	209,522	830,663	7,259,678	7,321,086	--
PIG IRON:						
Receipts-----	437,031	6,827	242,974	686,832	695,757	7,051,998
Production-----	7,882,809	--	--	7,882,809	8,295,398	91,256,215
Consumption-----	7,855,338	5,475	254,597	8,115,410	8,465,604	92,118,203
Shipments-----	486,051	306	166	486,523	566,422	6,643,342
Stocks end of month-----	949,608	7,934	242,644	1,200,186	1,241,384	--

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, November 1973 2/ (Short tons)

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorous plate and punchings-----	53,745	1,024	53,165	119	51,737
Cut structural and plate-----	50,944	69	49,658	--	39,690
No. 1 heavy melting steel-----	886,591	1,787,170	2,514,915	180,724	2,093,092
No. 2 heavy melting steel-----	216,726	108,510	344,609	6,588	304,561
No. 1 and electric furnace bundles-----	522,035	64,933	584,945	6,262	584,919
No. 2 and all other bundles-----	289,246	38,517	327,344	6,872	309,904
Turnings and borings-----	170,098	19,127	148,351	7,539	190,863
Slag scrap (Fe content)-----	132,766	230,832	337,443	7,378	229,330
Shredded or fragmented-----	129,437	--	117,776	-3	65,733
All other carbon steel scrap-----	301,822	1,218,484	1,452,935	149,249	794,671
Stainless steel-----	32,791	56,210	90,635	3,531	116,582
Alloy steel (except stainless)-----	30,872	173,394	184,296	13,282	188,573
Cast iron (includes borings)-----	232,429	439,844	567,491	107,666	1,206,234
Other grades of scrap-----	62,521	25,642	85,292	3,843	43,604
Total scrap-----	3,112,023	4,163,756	6,858,855	493,050	6,219,493
PIG IRON-----	437,031	7,882,809	7,855,338	486,051	949,608

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

2/ Based on 95 percent return from reporting consumers.

Table 3. - Manufacturers of steel castings 1/ - receipts, production, consumption, and shipments of iron and steel scrap, by grades, November 1973 2/ (Short tons)

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorous plate and punchings-----	52,364	14,762	64,263	473	45,072
Cut structural and plate-----	15,567	1,252	16,366	490	11,605
No. 1 heavy melting steel-----	13,820	7,300	20,118	--	21,914
No. 2 heavy melting steel-----	727	--	703	--	37
No. 1 and electric furnace bundles-----	5,597	--	5,535	--	3,352
No. 2 and all other bundles-----	1,255	--	1,324	--	1,778
Turnings and borings-----	5,978	699	6,182	415	6,526
Slag scrap (Fe content)-----	--	516	577	--	42
Shredded or fragmented-----	6,926	--	6,978	--	1,630
All other carbon steel scrap-----	49,069	26,863	79,721	265	69,399
Stainless steel-----	1,085	1,070	2,223	136	2,071
Alloy steel (except stainless)-----	7,464	5,645	11,216	1,015	14,837
Cast iron (includes borings)-----	12,165	10,013	24,538	184	28,861
Other grades of scrap-----	3,864	4,265	8,147	5	2,398
Total scrap-----	175,881	72,385	247,891	2,983	209,522
PIG IRON-----	6,827	--	5,475	306	7,934

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

2/ Based on 86 percent return from reporting consumers.

Table 4. - Iron foundries and miscellaneous users - receipts, production, consumption, and shipments of iron and steel scrap, by grades, November 1973 1/ (Short tons)

Item	Receipts	Production	Consumption	Shipments	Ending stocks
SCRAP:					
Carbon steel-					
Low phosphorous plate and punchings-----	100,322	4,202	97,393	217	64,525
Cut structural and plate-----	88,408	8,713	91,378	671	67,003
No. 1 heavy melting steel-----	32,435	5,854	39,808	2,636	19,096
No. 2 heavy melting steel-----	16,020	328	15,039	134	16,663
No. 1 and electric furnace bundles-----	36,773	17	35,324	--	28,400
No. 2 and all other bundles-----	59,183	847	47,696	172	46,097
Turnings and borings-----	67,446	4,427	62,416	4,623	62,913
Slag scrap (Fe content)-----	87	67	87	67	--
Shredded or fragmented-----	52,557	--	50,104	231	23,238
All other carbon steel scrap-----	153,806	9,309	154,721	2,452	123,484
Stainless steel-----	2,735	17	2,075	13	1,896
Alloy steel (except stainless)-----	10,554	317	8,553	54	20,318
Cast iron (includes borings)-----	355,529	451,722	796,247	9,284	329,609
Other grades of scrap-----	40,728	16,996	53,074	451	27,421
Total scrap-----	1,016,583	502,816	1,453,915	21,005	830,663
PIG IRON-----	242,974	--	254,597	166	242,644

1/ Based on 88 percent return from reporting consumers.

FOREIGN TRADE

Exports of iron and steel scrap totaled 555,490 short tons in November compared with 717,366 tons in October. Exports of pig iron during November totaled 1,364 tons and 1,123 tons in October. Imports of scrap totaled (NA) short tons in November compared with 31,922 tons in October. Of the scrap imported during November, (NA) short tons came from Canada and (NA) tons from other sources. Imports of pig iron totaled (NA) short tons in (NA) and 23,763 tons in October. In addition to the foregoing imports of pig iron during November there were (NA) tons of sponge iron, valued at (NA) imported, of which (NA) tons came from Canada, (NA) tons from other countries.

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

Country	November 1973		Year to date	
	Short tons	Value	Short tons	Value
Argentina-----	6,326	\$367,357	243,006	\$12,856,376
Canada-----	62,747	2,245,727	788,811	26,061,611
China, People's Rep. of-----	46,023	2,794,936	393,551	21,495,413
Greece-----	31,366	1,913,058	186,261	9,429,224
Italy-----	37,913	3,521,150	351,685	23,942,859
Japan-----	28,314	1,939,774	4,528,337	223,766,571
Korea-----	95,113	6,402,907	640,746	36,792,219
Mexico-----	83,728	4,784,154	926,862	50,783,623
Spain-----	89,745	5,200,928	992,986	50,022,587
Taiwan-----	35,536	2,205,585	585,943	34,323,365
Venezuela-----	60	5,040	76,453	3,796,317
Other Countries-----	38,619	2,419,177	533,460	36,320,482
Total-----	555,490	33,799,793	10,248,101	529,590,647

NA Not available.

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	November 1973		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	212,245	\$13,616,968	3,539,979	\$191,386,061
No. 2 heavy melting steel scrap-----	48,798	2,361,132	1,040,010	49,423,487
No. 1 bundles-----	23,536	1,396,624	375,802	20,734,379
No. 2 bundles-----	57,827	2,757,273	1,138,087	45,140,207
Borings, shoveling and turnings-----	31,695	1,032,009	497,966	15,415,761
Stainless steel-----	4,360	1,455,524	45,440	15,579,824
Shredded steel scrap-----	82,761	5,498,510	1,957,610	108,581,567
Iron scrap (excluding borings and shoveling)-----	40,907	2,460,495	586,014	27,949,549
All other steel scrap <u>1/</u> -----	53,361	3,221,258	1,067,193	55,379,812
Total-----	555,490	33,799,793	10,248,101	529,590,647
Ships, boats, and other vessels for breaking up (for scrapping)-----	9,578	301,800	142,808	6,225,857
Total-----	565,068	34,101,593	10,390,909	535,816,504

1/ Includes tinplate and terneplate.

Table 7. - Consumers stocks, receipts, production, consumption, and shipments of iron and steel scrap in 1972, by grade
(Thousand short tons)

Grades of scrap	Receipts	Production	Consumption	Shipments	Stocks Dec. 31
MANUFACTURERS OF STEEL INGOTS AND CASTINGS:					
Carbon steel-					
Low phosphorous plate and punchings-----	523	12	538	4	55
Cut structural and plate-----	526	--	525	1	50
No. 1 heavy melting steel-----	2,999	20,303	27,751	1,913	2,599
No. 2 heavy melting steel-----	6,126	1,088	3,362	92	329
No. 1 and electric furnace bundles-----	2,611	730	6,746	87	860
No. 2 and all other bundles-----	1,570	524	2,997	126	352
Turnings and borings-----	1,404	331	1,753	157	178
Slag scrap (Fe content)-----	1,508	1,767	3,076	119	86
Shredded or fragmented-----	3,718	--	1,507	1	72
All other carbon steel scrap-----	413	12,609	15,058	1,188	1,066
Stainless steel-----	413	575	930	50	99
Alloy steel (except stainless)-----	2,391	2,032	2,457	67	242
Cast iron (includes borings)-----	1,182	4,125	5,234	1,311	1,055
Other grades of scrap-----	335	335	1,481	44	23
U.S. total 1/-	33,702	44,431	73,415	5,160	7,066
PIG IRON-----					
4,136	88,941	86,207	6,715	1,377	
MANUFACTURERS OF STEEL CASTINGS:					
Carbon steel-					
Low phosphorous plate and punchings-----	528	156	687	4	59
Cut structural and plate-----	171	4	178	--	8
No. 1 heavy melting steel-----	127	71	203	1	20
No. 2 heavy melting steel-----	1	--	1	--	--
No. 1 and electric furnace bundles-----	101	--	107	--	8
No. 2 and all other bundles-----	15	--	15	--	--
Turnings and borings-----	66	8	70	4	6
Slag scrap (Fe content)-----	1	4	6	--	--
Shredded or fragmented-----	51	--	53	--	3
All other carbon steel scrap-----	518	282	797	5	67
Stainless steel-----	15	14	26	2	8
Alloy steel (except stainless)-----	68	70	127	14	20
Cast iron (includes borings)-----	171	118	295	3	38
Other grades of scrap-----	44	56	99	4	6
U.S. total 1/-	1,877	783	2,664	37	243
PIG IRON-----					
59	--	60	1	6	

Table 7. - Consumers stocks, receipts, production, consumption, and shipments of iron and steel scrap in 1972, by grade--Continued
(Thousand short tons)

Grades of scrap	Receipts	Production	Consumption	Shipments	Stocks Dec. 31
IRON FOUNDRIES AND MISCELLANEOUS USERS:					
Carbon steel-					
Low phosphorous plate and punchings-----	1,009	53	1,046	10	54
Cut structural and plate-----	963	92	1,038	7	62
No. 1 heavy melting steel-----	311	76	377	27	12
No. 2 heavy melting steel-----	36	24	59	2	3
No. 1 and electric furnace bundles-----	371	--	368	--	17
No. 2 and all other bundles-----	633	10	671	1	41
Turnings and borings-----	608	47	617	42	56
Slag scrap (Fe content)-----	9	8	17	--	--
Shredded or fragmented-----	506	--	502	1	25
All other carbon steel scrap-----	2,079	132	2,103	24	224
Stainless steel-----	10	--	13	--	3
Alloy steel (except stainless)-----	127	9	144	1	18
Cast iron (includes borings)-----	4,448	5,137	9,545	119	320
Other grades of scrap-----	431	382	792	19	25
U.S. total 1/-----	11,541	5,970	17,292	253	860
PIG IRON-----					
TOTAL - ALL TYPES OF MANUFACTURERS:	3,010	--	2,873	147	277
Carbon steel-					
Low phosphorous plate and punchings-----	2,060	220	2,271	18	168
Cut structural and plate-----	1,660	95	1,740	7	120
No. 1 heavy melting steel-----	r/9,456	20,450	r/28,331	1,941	2,631
No. 2 heavy melting steel-----	2,336	1,112	3,422	94	331
No. 1 and electric furnace bundles-----	6,599	731	7,221	87	884
No. 2 and all other bundles-----	3,260	534	3,683	127	394
Turnings and borings-----	2,244	385	2,440	204	241
Slag scrap (Fe content)-----	1,414	1,780	3,099	119	87
Shredded or fragmented-----	2,064	--	2,062	2	100
All other carbon steel scrap-----	6,315	13,024	17,959	1,217	1,357
Stainless steel-----	438	589	969	52	109
Alloy steel (except stainless)-----	608	2,112	2,728	82	280
Cast iron (includes borings)-----	7,010	9,379	15,074	1,433	1,412
Other grades of scrap-----	r/1,657	773	r/2,372	67	55
U.S. total 1/-----	r/47,121	51,184	r/93,371	5,450	8,169
PIG IRON-----					
TOTAL - ALL TYPES OF MANUFACTURERS:	7,205	88,941	89,140	6,863	1,660

r/ Revised.
1/ Data may not add to totals shown because of independent rounding.

Table 8. - Consumption of iron and steel scrap and pig iron 1/ in the United States in 1972, by type of consumer and type of furnace or equipment
(Thousand short tons)

Type of furnace or equipment	Manufacturers of steel ingots and castings 2/		Manufacturers of steel castings 3/		Iron foundries and miscellaneous users		Total all types	
	Scrap	Pig iron	Scrap	Pig iron	Scrap	Pig iron	Scrap	Pig iron
Blast furnace 4/-----	r/3,565	--	--	--	--	--	r/3,565	--
Basic oxygen converter 5/-----	r/24,192	60,233	--	--	--	--	r/24,192	60,233
Open-hearth furnace-----	r/18,637	r/22,361	187	14	--	--	r/18,824	r/22,375
Electric furnace-----	r/24,886	r/777	2,165	34	3,408	150	r/30,459	961
Cupola furnace-----	r/1,759	r/330	278	5	13,507	1,929	r/15,544	r/2,264
Air furnace-----	33	84	33	7	121	48	187	139
Other furnace 6/-----	343	247	1	--	256	7	600	254
U.S. total-----	r/73,415	84,032	2,664	60	17,292	2,134	r/93,371	7/86,226

r/ Revised.

- 1/ Excludes molten pig iron used for ingot molds and direct castings.
2/ Includes only those manufacturers of steel castings that also produce ingots.
3/ Excludes companies that produce both steel ingots and steel castings.
4/ Includes consumption in all blast furnaces producing pig iron.
5/ Includes scrap and pig iron processed in metallurgical blast cupolas and used in oxygen converters.
6/ Includes vacuum melting furnaces and miscellaneous melting processes.
7/ Excludes pig iron used in molds and poured directly into castings.

Table 9. - Consumers receipts, shipments, production, consumption, and stocks
of iron and steel scrap, 1935-72 ^{1/}
(Thousand short tons)

Year	Receipts	Shipments	Production	Consumption		Stocks December 31
				Home	Purchased	
1935	--	--	--	14,948	14,637	29,585
1936	--	--	--	21,170	19,552	40,721
1937	--	--	--	22,256	20,311	42,567
1938	--	--	--	12,680	11,226	23,906
1939	--	--	--	19,622	16,705	36,327
1940	--	--	--	25,048	19,482	44,530
1941	--	--	--	33,905	25,312	59,216
1942	--	--	--	33,129	27,136	60,265
1943	--	--	--	35,037	26,614	61,651
1944	--	--	--	35,426	25,923	61,349
1945	Not reported prior to 1955			30,961	25,230	56,191
1946				26,134	23,350	49,484
1947	--	--	--	31,579	29,285	60,864
1948	--	--	--	32,420	32,544	64,964
1949	--	--	--	29,166	25,172	54,338
1950	--	--	--	35,525	33,376	68,901
1951	--	--	--	38,857	37,871	76,728
1952	--	--	--	34,837	34,186	69,023
1953	--	--	--	--	--	77,131
1954	--	--	--	--	--	61,354
1955	38,592	2,857	45,501	--	--	81,375
1956	39,425	2,579	43,676	--	--	80,315
1957	33,862	2,776	43,996	--	--	73,549
1958	25,110	1,819	33,714	--	--	56,360
1959	31,128	2,085	37,418	Not reported after 1952		66,062
1960	28,469	2,374	39,632			66,469
1961	27,553	2,248	38,475	--	--	64,327
1962	27,499	2,215	40,645	--	--	66,160
1963	32,248	2,816	44,655	--	--	74,621
1964	36,664	4,833	52,262	--	--	84,626
1965	41,239	5,435	55,213	--	--	90,359
1966	42,394	5,723	55,463	--	--	91,583
1967	37,984	5,330	52,312	--	--	85,361
1968	39,463	5,876	53,545	--	--	87,060
1969	43,679	6,750	56,287	--	--	94,816
1970	39,668	5,520	52,575	--	--	85,559
1971	39,542	5,334	49,194	--	--	82,817
1972	<u>47,121</u>	<u>5,450</u>	<u>51,184</u>	--	--	<u>93,371</u>

^{1/} Revised.

NA Not available.

^{1/} Source: Minerals Yearbooks. Collection of official U.S. statistics from consumers of iron and steel scrap on a regular basis was started by the Bureau of Mines in 1935.

^{2/} Data may not add to totals shown because of independent rounding.

Table 10. - U.S. consumption of iron and steel scrap by type of furnace 1935-1972 1/
(Thousand short tons)

Year	Blast	Open hearth	Basic oxygen	Electric	Cupola	Air	All other 2/	Total
1935	1,736	21,414	--	1,025	4,658	500	252	29,585
1936	2,337	29,451	--	1,397	6,512	744	280	40,721
1937	2,656	29,584	--	1,933	7,288	834	272	42,567
1938	1,192	16,361	--	1,048	4,695	476	134	23,906
1939	1,933	25,531	--	1,673	6,415	546	229	36,327
1940	2,080	31,008	--	2,495	8,030	646	271	44,530
1941	2,905	39,923	--	4,178	10,564	1,222	424	59,216
1942	2,938	39,560	--	5,906	9,055	1,141	1,665	60,265
1943	3,568	40,214	None	6,914	8,004	1,229	1,722	61,651
1944	3,638	40,808	prior	6,422	7,543	1,191	1,747	61,349
1945	3,339	37,756	to	5,083	7,344	1,070	1,599	56,191
1946	2,273	32,442	1954	3,698	8,559	1,011	1,501	49,484
1947	2,692	39,288	--	5,224	10,558	1,310	1,792	60,864
1948	2,932	40,623	--	6,706	11,467	1,381	1,855	64,964
1949	3,007	35,522	1954-1958	4,697	8,757	901	1,454	54,338
1950	4,390	43,512	included	7,323	10,721	1,195	1,760	68,901
1951	4,478	47,416	under	9,372	12,319	1,432	1,711	76,728
1952	4,274	42,997	"All other"	8,793	10,169	1,199	1,591	69,023
1953	4,948	49,668	--	9,157	10,634	1,197	1,527	77,131
1954	3,628	39,028	--	6,832	9,564	962	1,340	61,354
1955	4,722	51,555	--	9,801	12,058	1,445	1,794	81,375
1956	4,404	50,806	--	11,057	11,025	1,269	1,754	80,315
1957	4,171	46,439	--	9,939	10,325	1,152	1,523	73,549
1958	2,857	34,342	--	8,050	8,654	920	1,537	56,360
1959	3,189	38,657	581	10,353	10,727	1,272	1,283	66,062
1960	3,594	39,613	1,150	9,920	10,045	1,086	1,061	66,469
1961	3,551	37,872	1,371	10,103	9,511	985	934	64,327
1962	3,782	36,784	1,847	10,871	10,710	1,213	953	66,160
1963	4,306	40,637	2,776	12,935	11,920	1,317	730	74,621
1964	4,816	43,881	5,486	14,862	13,407	1,441	733	84,626
1965	5,054	43,725	7,774	16,694	14,781	1,548	783	90,359
1966	5,226	39,339	11,368	18,002	15,273	1,572	803	91,583
1967	4,724	33,043	13,932	18,011	13,877	1,100	674	85,361
1968	4,267	31,619	16,112	19,550	14,776	NA	736	87,060
1969	4,779	30,706	19,828	23,807	14,978	210	508	94,816
1970	5,302	22,313	21,124	23,014	12,988	227	591	85,559
1971	3,708	18,832	20,058	24,668	14,806	185	560	82,817
1972	<u>18,565</u>	<u>18,824</u>	<u>18,192</u>	<u>18,459</u>	<u>15,544</u>	<u>187</u>	<u>600</u>	<u>193,371</u>

r/ Revised.

NA Not available.

1/ Source: Minerals Yearbooks.

2/ Includes Bessemer, crucible, puddling, ferroalloy, and all other furnaces.

Table 11. - U.S. consumption of pig iron by type of furnace and for all other uses 1935-1972 1/
(Thousand short tons)

Year	Open hearth	Basic oxygen	Electric	Cupola	Air	Bessemer	Direct casting	All other 2/ 17	Total
1935	16,324	--	37	2,997	330	3,261	129		23,095
1936	24,596	--	26	4,070	456	4,072	457	33	33,710
1937	28,132	--	50	4,699	498	4,131	598	35	38,143
1938	15,377	--	18	2,693	208	2,180	243	6	20,725
1939	26,826	--	31	3,349	329	3,603	1,066	29	35,233
1940	36,297	--	47	4,106	374	3,829	1,504	29	46,186
1941	42,481	--	73	5,389	605	5,993	1,590	54	56,185
1942	45,539	None reported	93	4,491	555	6,131	2,184	50	59,043
1943	47,108	prior	394	3,603	538	6,258	2,376	38	60,315
1944	48,281	to	240	3,941	499	5,583	2,377	31	60,952
1945	41,683	1954	163	4,084	434	4,751	2,049	23	53,187
1946	34,608	--	113	4,613	356	3,723	1,642	17	45,072
1947	45,338	--	127	5,439	414	4,712	2,242	9	58,281
1948	47,267	--	132	5,281	368	4,778	2,184	16	60,026
1949	41,783	--	108	4,764	274	4,612	1,902	4	53,447
1950	50,946	--	154	6,059	335	5,170	2,275	4	64,943
1951	56,055	--	144	6,560	400	5,551	2,704	--	71,414
1952	49,374	--	119	5,438	317	3,999	2,303	--	61,551
1953	61,307	--	181	5,550	313	4,351	3,006	--	74,708
1954	48,632	1954-1958	178	4,897	232	2,849	1,874	--	58,662
1955	63,750	included	274	5,962	295	3,933	3,002	--	77,216
1956	62,166	under	233	5,349	293	4,039	2,916	--	74,995
1957	64,998	all other	275	4,660	245	3,495	2,681	--	76,353
1958	48,408	--	256	3,709	190	2,636	2,064	--	57,262
1959	51,250	1,574	391	4,412	251	1,483	2,411	--	61,773
1960	55,270	2,937	372	3,822	210	1,303	2,712	--	66,626
1961	54,611	3,552	279	3,439	178	976	2,763	--	65,797
1962	54,509	5,020	240	3,402	186	792	2,446	--	66,595
1963	57,291	7,082	212	3,597	178	1,603	2,726	--	72,689
1964	65,206	12,446	325	3,704	170	949	3,582	--	86,382
1965	61,483	18,519	387	3,757	173	652	3,975	--	88,945
1966	55,508	27,821	286	3,667	167	332	3,989	--	91,770
1967	46,386	33,553	378	3,162	147	87	3,658	--	87,371
1968	40,145	39,284	519	2,909	(3/)	(3/)	(3/)	7,096	89,953
1969	37,447	46,408	332	2,911	92	(3/)	(3/)	7,445	94,635
1970	31,529	49,136	453	2,076	94	(3/)	(3/)	6,838	90,126
1971	23,573	52,023	825	1,865	60	(3/)	(3/)	2,869	81,215
1972	r/22,375	r/60,232	961	r/2,264	139	(3/)	(3/)	r/255	r/86,226

r/ Revised.

1/ Source: Minerals Yearbooks.

2/ Includes pig iron consumed in crucible, puddling, induction, and vacuum melting furnaces, and after 1967 molten pig iron used for ingot molds and stools and for other uses.

3/ Included under all other.