



MINERAL INDUSTRY SURVEYS

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON, D.C. 20241



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Iron and Steel Scrap, Monthly

IRON AND STEEL SCRAP IN MAY 1979

Returns from 72% of reporting consumers representing 95% of total scrap consumption, indicated that consumption of iron and steel scrap in May on a daily average basis was 2% below that in April, according to the Bureau of Mines, U.S. Department of the Interior. Compared with April data, daily average production and net receipts were unchanged and down 4%, respectively, and stocks at the end of the month were up 2%.

Exports of ferrous scrap during the month were 3% above those for April 1979 and 50% above those for May 1978. Japan was the principal country of destination, accounting for 19% of the total exported in May 1979, followed by Spain and the Republic of Korea, with 18% and 12%, respectively.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of May was \$106.83 per long ton, up 50% from the price of \$71.17 at the end of May 1978.

Pig iron production and consumption on a daily average basis during the month were up 5% and 4%, respectively, from those of the previous month. Stocks of pig iron were unchanged during May compared with those at the end of April 1979.

CORRECTION

The April 1979 issue of this publication should be corrected as follows:

Page 1, second paragraph, first line: "26%" should read "3%."

Page 11, under Foreign Trade, second line: "1,145,241" should read "870,680."

The data shown in Table 10, page 11, are correct.

TABLE 1. - U.S. RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS, AND STOCKS OF IRON AND STEEL SCRAP AND PIG IRON, BY TYPE OF MANUFACTURER (SHORT TONS)

	MAY 1979 (PRELIMINARY) 1/					
	MFRS. OF PIG IRON AND STEEL INGOTS & CASTINGS 2/	MFRS. OF STEEL CASTINGS 3/	IRON FOUNDRIES AND MISCEL- LANEOUS USERS	TOTAL FOR MONTH OF MAY 1979	FINAL TOTAL FOR MONTH OF APR 1979 4/ MAY 1979 5/	
SCRAP:						
RECEIPTS FROM DEALERS AND OTHER SOURCES	2,898,395	190,399	954,668	4,043,462	4,067,214	19,085,506
RECEIPTS FROM OTHER OWN COMPANY PLANTS-	529,814	10,204	264,921	804,939	816,799	3,939,651
PRODUCTION RECIRCULATING SCRAP-----	3,918,691	92,709	551,758	4,563,153	4,425,767	21,488,655
PRODUCTION OBSOLETE SCRAP-----	251,870	193	3,499	255,562	231,529	1,218,773
CONSUMPTION-----	7,092,904	283,895	1,746,170	9,122,969	8,966,969	43,651,046
SHIPMENTS-----	428,338	1,570	29,054	458,962	464,460	2,291,829
STOCKS END OF MONTH-----	6,931,712	236,287	1,102,279	8,270,273	8,137,696	--
PIG IRON:						
RECEIPTS-----	297,755	4,159	250,501	552,415	485,638	2,547,135
PRODUCTION-----	8,277,352	--	--	8,277,352	7,636,351	37,538,783
CONSUMPTION-----	8,066,400	3,979	246,352	8,316,731	7,729,122	37,864,372
SHIPMENTS-----	593,803	--	990	594,793	540,128	2,766,749
STOCKS END OF MONTH-----	610,762	5,593	122,714	739,069	736,833	--
DIRECT-REDUCED OR PREREDUCED IRON:						
RECEIPTS-----	--	--	--	52,121	46,188	218,087
PRODUCTION-----	--	--	--	NA	NA	NA
CONSUMPTION-----	--	--	--	50,730	51,860	210,914
SHIPMENTS-----	--	--	--	W	W	W
STOCKS END OF MONTH-----	--	--	--	25,877	24,483	--

NA NOT AVAILABLE.

W WITHHELD TO AVOID DISCLOSING COMPANY CONFIDENTIAL DATA.

1/ BASED ON RETURNS FROM 72% OF REPORTING CONSUMERS, REPRESENTING 96% OF SCRAP CONSUMPTION.

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 RETURNS FROM 78% OF REPORTING CONSUMERS, REPRESENTING 96% OF SCRAP CONSUMPTION.

5/ CUMULATIVE TOTALS MAY NOT AGREE WITH SUM OF MONTHLY REPORTS BECAUSE OF ADDITION OF REPORTS FROM LATE RESPONDENTS.

TABLE 2. - MANUFACTURERS OF PIG IRON AND STEEL INGOTS AND CASTINGS 1/ - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, BY GRADE, MAY 1979 (PRELIMINARY) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP		PRODUCTION OF HOME SCRAP		CONSUMPTION		ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOODLS, AND SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOODLS, AND SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	HOME SCRAP (INCLUDES RE-SHIPMENTS OF SCRAP)		
SCRAP:							
CARBON STEEL-							
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	58,015	1,980	4,943	565	52,962	6,813	74,336
CUT STRUCTURAL AND PLATE-----	28,695	13,711	22,312	--	71,488	--	39,415
NO.1 HEAVY MELTING STEEL-----	737,931	250,619	1,676,650	9,756	2,438,714	218,308	2,132,705
NO.2 HEAVY MELTING STEEL-----	231,174	4,977	122,490	218	344,370	9,041	377,693
NO.1 AND ELECTRIC FURNACE BUNDLES---	643,669	59,094	290,774	423	1,006,107	10,950	996,244
NO.2 AND ALL OTHER BUNDLES-----	185,910	4,204	7,869	--	167,817	2,212	374,813
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	3,560	3	2,167	37	5,262	--	3,600
RAILROAD RAILS-----	2,246	--	--	--	3,686	--	11,019
TURNINGS AND BORINGS-----	128,938	9,788	41,934	83	167,008	9,237	121,273
SLAG SCRAP (FE CONTENT 70 PERCENT)---	147,883	4,834	288,872	--	427,029	11,200	217,931
SHREDDER OR FRAGMENTIZED-----	201,804	45,557	3,958	--	231,588	22	211,249
NO. 1 BUSHELING-----	142,748	1,352	1,383	--	154,464	922	111,057
ALL OTHER CARBON STEEL SCRAP-----	171,737	24,293	1,018,954	30,174	1,137,641	66,966	747,906
STAINLESS STEEL SCRAP-----	40,517	5,086	62,613	92	96,861	5,348	93,427
ALLOY STEEL (EXCEPT STAINLESS)---	21,990	26,032	137,093	5,177	131,943	7,193	257,066
INGOT MOLD AND STOOD SCRAP-----	24,079	44,957	104,401	204,407	273,642	49,228	699,884
MACHINERY AND CUPOLA CAST IRON---	3,878	256	1,397	--	6,119	--	908
CAST IRON BORINGS-----	40,172	10,643	17,993	455	60,006	2,762	83,493
MOTOR BLOCKS-----	368	--	--	--	363	--	2,121
OTHER IRON SCRAP-----	62,500	11,386	85,125	483	115,438	25,224	295,117
OTHER MIXED SCRAP-----	20,581	11,042	27,763	--	50,396	2,912	80,455
TOTAL SCRAP-----	2,898,395	529,814	3,918,691	251,870	7,092,904	428,338	6,931,712
TOTAL SCRAP THROUGH MAY 1979---	13,263,746	2,555,310	18,240,169	1,202,261	33,333,840	2,126,373	6,931,712
PIG IRON-----							
RECEIPTS	297,755		8,277,352		8,066,400	593,803	610,762
PRODUCTION							
CONSUMPTION							
SHIPMENTS							
STOCKS							
PIG IRON THROUGH MAY 1979-----	1,281,159		37,538,783		36,604,431	2,762,999	610,762

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS.
2/ BASED ON RETURNS FROM 91% OF REPORTING CONSUMERS, REPRESENTING 98% OF SCRAP CONSUMPTION.

TABLE 3. - MANUFACTURERS OF STEEL CASTINGS 1/ - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, 1979 (PRELIMINARY) 2/ BY GRADE, MAY (SHORT TONS)

ITEM	RECEIPTS OF SCRAP		PRODUCTION OF HOME SCRAP			CONSUMPTION		ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RECYCLATING SCRAP (INCLUDES INGOT CHASED AND MOLDING, STILLS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	RE-OPERATIONS	SHIPMENTS	STOCKS		
SCRAP:								
CARBON STEEL-								
LOW-PHOSPHORUS PLATE AND PUNCHINGS	58,853	547	21,602	2	33,910	181	62,026	
CUT STRUCTURAL AND PLATE	18,552	1,429	2,655	--	22,289	79	20,607	
NO. 1 HEAVY MELTING STEEL	16,126	244	9,906	--	24,184	--	24,098	
NO. 2 HEAVY MELTING STEEL	10,237	--	1,704	--	9,856	--	11,168	
NO. 1 AND ELECTRIC FURNACE BUNDLES	3,833	--	207	--	3,190	--	1,749	
NO. 2 AND ALL OTHER BUNDLES	160	--	--	--	180	--	1,870	
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	6,271	100	1,405	--	7,060	--	4,349	
RAILROAD RAILS	319	--	--	--	62	--	268	
TURNINGS AND BORINGS	3,601	493	1,899	--	6,228	259	5,697	
SLAG SCRAP (FE CONTENT 70 PERCENT)	--	--	142	--	126	8	224	
SHREDDER OR FRAGMENTIZED	5,748	2,101	--	--	6,327	--	4,209	
NO. 1 BUSHING	4,170	1,264	--	--	3,926	--	4,943	
ALL OTHER CARBON STEEL SCRAP	43,847	3,323	28,451	--	74,391	--	44,431	
STAINLESS STEEL SCRAP-								
ALLOY STEEL (EXCEPT STAINLESS)	1,710	100	2,239	--	3,992	498	4,151	
INGOT MOLD AND STUOL SCRAP	6,853	603	10,432	136	17,434	--	24,357	
MACHINERY AND CUPOLA CAST IRON	400	--	--	--	434	--	1,275	
CAST IRON BORINGS	638	--	546	--	1,000	--	1,192	
MOTOR BLOCKS	6,101	--	2,681	--	7,536	18	7,194	
OTHER IRON SCRAP	89	--	--	--	58	--	134	
OTHER MIXED SCRAP	2,891	--	8,376	55	11,225	527	12,330	
	--	--	464	--	487	--	15	
TOTAL SCRAP	190,399	10,204	92,709	193	233,895	1,570	236,287	
TOTAL SCRAP THROUGH MAY 1979	936,297	55,793	448,452	1,441	1,418,009	18,889	236,287	
PIG IRON								
	4,159	--	--	--	3,979	--	5,593	
PIG IRON THROUGH MAY 1979	20,754	--	--	--	20,195	78	5,593	

1/ EXCLUDES COMPANIES THAT PRODUCE BOTH STEEL INGOTS AND CASTINGS.

2/ BASED ON RETURNS FROM 71% OF REPORTING CONSUMERS, REPRESENTING 84% OF SCRAP CONSUMPTION.

TABLE 4. - IRON FOUNDRIES AND MISCELLANEOUS USERS - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS, AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, BY GRADE, MAY 1979 (PRELIMINARY) 1/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION			ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING SCRAP) OPERATIONS BUILDINGS, ETC.)	RECIRCULATING OBSOLETE SCRAP	RESULTING FROM CURRENT OLD EQUIPMENT, CIRCULATING SCRAP)	CONSUMPTION OF BOTH PURCHASED AND HOME SCRAP	SHIPMENTS OF SCRAP	STOCKS		
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	77,507	9,591	9,097	27	105,196	996	40,242			
CUT STRUCTURAL AND PLATE-----	121,016	9,523	14,317	519	150,331	327	103,905			
NO.1 HEAVY MELTING STEEL-----	19,876	6,350	6,051	--	28,270	3,288	52,816			
NO.2 HEAVY MELTING STEEL-----	4,196	379	3,720	29	8,493	83	2,648			
NO.1 AND ELECTRIC FURNACE BUNDLES---	19,110	14,061	6,489	30	43,841	--	11,000			
NO.2 AND ALL OTHER BUNDLES-----	63,570	--	--	--	65,636	--	54,027			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	19,459	5,978	256	--	23,947	--	15,248			
RAILROAD RAILS-----	11,236	3	24	--	11,639	24	11,051			
TURNINGS AND BORINGS-----	55,622	11,489	1,452	6	61,920	1,685	88,661			
SLAG SCRAP (FE CONTENT 70 PERCENT)---	5,929	--	6,673	--	11,875	58	27,488			
SHREDDER OR FRAGMENTIZED-----	86,390	1,659	693	--	77,341	--	49,083			
NO. 1 BUSHING-----	30,940	5,118	1,381	--	34,385	1,520	21,551			
ALL OTHER CARBON STEEL SCRAP-----	86,457	59,368	12,936	183	164,331	417	94,646			
STAINLESS STEEL SCRAP-----										
ALLOY STEEL (EXCEPT STAINLESS)-----	363	--	712	2	959	70	1,680			
INGOT MOLD AND STUOL SCRAP-----	7,114	1	493	70	7,157	249	9,401			
MACHINERY AND CUPOLA CAST IRON-----	12,822	606	694	492	14,278	876	43,518			
CAST IRON BORINGS-----	80,766	4,701	76,959	107	159,422	1,185	91,180			
MOTOR BLOCKS-----	62,947	60,899	38,266	64	159,941	4,994	79,576			
OTHER IRON SCRAP-----	61,616	832	39,588	--	98,247	300	64,776			
OTHER MIXED SCRAP-----	92,372	9,412	298,295	1,176	337,442	12,109	177,179			
	35,360	64,951	33,662	794	131,519	873	62,603			
TOTAL SCRAP-----	954,668	264,921	551,758	3,499	1,746,170	29,054	1,102,279			
TOTAL SCRAP THROUGH MAY 1979---	4,885,463	1,328,548	2,800,034	15,071	8,899,197	146,567	1,102,279			
PIG IRON-----										
		250,501	--	--	246,352	990	122,714			
PIG IRON THROUGH MAY 1979-----		1,245,222	--	--	1,239,746	3,674	122,714			
1/ BASED ON RETURNS FROM 67% OF REPORTING CONSUMERS, REPRESENTING 87% OF SCRAP CONSUMPTION.										

TABLE 5. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN MAY 1979 (PRELIMINARY). BY TYPE OF CONSUMER AND TYPE OF FURNACE OR OTHER USE
(SHORT TDNS)

TYPE OF FURNACE OR OTHER USE	MANUFACTURERS OF PIG IRON AND STEEL INGOTS AND CASTINGS 1/		MANUFACTURERS OF STEEL CASTINGS 2/		IRON FOUNDRIES AND MISCELLANEOUS USERS		TOTAL ALL TYPES	
	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON
	---	---	---	---	---	---	---	---
BLAST FURNACE 3/	385,034	--	--	--	--	--	385,034	--
BASIC OXYGEN PROCESS 4/	2,501,233	5,792,076	--	--	--	--	2,501,233	5,792,076
OPEN-HEARTH FURNACE	971,811	1,762,080	7,287	432	--	--	979,098	1,762,529
ELECTRIC FURNACE	3,085,306	59,757	264,659	3,135	26,351	26,351	3,873,033	89,226
CUPOLA FURNACE	51,280	5,438	9,733	44	523,068	67,126	1,249,020	72,608
OTHER (INCLUDING AIR FURNACE)5/	98,240	37,194	2,216	368	1,188,007	3,254	135,551	40,816
DIRECT CASTINGS 6/	--	409,895	--	--	35,095	149,621	--	559,476
TOTAL	7,092,904	8,066,400	283,895	3,979	1,746,170	246,352	9,122,969	8,316,731

1/ INCLUDES ONLY THOSE CASTINGS MADE BY COMPANIES PRODUCING STEEL INGOTS.

2/ EXCLUDES COMPANIES THAT PRODUCE BOTH STEEL INGOTS AND STEEL CASTINGS.

3/ INCLUDES CONSUMPTION IN ALL BLAST FURNACES PRODUCING PIG IRON.

4/ INCLUDES SCRAP AND PIG IRON PROCESSED IN METALLURGICAL BLAST CUPOLAS AND USED IN OXYGEN CONVERTERS.

5/ INCLUDES VACUUM MELTING FURNACES AND MISCELLANEOUS USES.

6/ INCLUDES INGOT MOLDS AND STOOLES.

TABLE 6. - MANUFACTURERS OF PIG IRON AND STEEL INGOTS AND CASTINGS 1/ - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, BY GRADE, APRIL 1979 (FINAL) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION			ENDING STOCKS	
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM	RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOODS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP)		CONSUMPTION	SHIPMENTS	STOCKS			
				FROM	FROM						
SCRAP:											
CARBON STEEL-											
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	45,257	893	4,402	2,669	52,399	6,298	67,972				
CUT STRUCTURAL AND PLATE-----	34,514	9,142	29,379	--	67,294	--	46,405				
NO.1 HEAVY MELTING STEEL-----	742,920	279,086	1,619,703	7,381	2,337,717	213,080	2,163,847				
NO.2 HEAVY MELTING STEEL-----	243,765	4,571	116,187	303	326,914	11,059	370,978				
NO.1 AND ELECTRIC FURNACE BUNDLES---	592,338	48,303	268,652	277	971,952	3,409	1,039,579				
NO.2 AND ALL OTHER BUNDLES-----	205,752	4,805	3,705	--	201,474	1,983	317,609				
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	1,448	--	1,641	--	4,578	--	3,035				
RAILROAD RAILS-----	7,520	154	--	--	5,314	--	12,450				
TURNINGS AND BORINGS-----	153,196	15,331	32,455	83	191,439	12,125	117,976				
SLAG SCRAP (FE CONTENT 70 PERCENT)---	151,742	15,744	251,114	--	422,623	9,988	206,511				
SHREDDER OR FRAGMENTIZED-----	215,202	38,639	1,692	--	217,263	--	193,399				
NO. 1 BUSHING-----	143,092	2,236	964	--	147,112	1,554	118,524				
ALL OTHER CARBON STEEL SCRAP-----	187,530	42,692	958,120	27,610	1,152,606	62,469	737,264				
STAINLESS STEEL SCRAP-----	31,499	4,942	60,013	--	96,317	5,261	88,450				
ALLOY STEEL (EXCEPT STAINLESS)---	20,482	18,284	145,287	2,006	175,078	15,948	259,152				
INGOT MOLD AND STOOD SCRAP-----	32,365	55,375	103,049	180,270	296,637	59,704	644,231				
MACHINERY AND CUPOLA CAST IRON---	705	88	--	--	2,828	--	1,496				
CAST IRON BORINGS-----	37,764	6,809	19,294	6,324	65,767	6,794	62,649				
MOTOR BLOCKS-----	1,174	--	--	--	235	--	2,101				
OTHER IRON SCRAP-----	31,852	6,195	142,294	554	139,683	19,537	267,203				
OTHER MIXED SCRAP-----	22,849	13,452	22,962	10	43,796	3,824	71,646				
TOTAL SCRAP-----	2,902,966	566,741	3,780,913	227,487	6,969,026	433,033	6,792,477				
TOTAL SCRAP THROUGH APRIL 1979---	10,365,351	2,025,496	14,321,478	950,391	26,240,936	1,698,035	6,792,477				
RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS		
237,718			7,636,351			7,474,957			611,031		
983,404			29,261,431			28,538,031			611,031		
PIG IRON THROUGH APRIL 1979-----											

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS.
2/ BASED ON RETURNS FROM 94% OF REPORTING CONSUMERS, REPRESENTING 98% OF SCRAP CONSUMPTION.

TABLE 7. - MANUFACTURERS OF STEEL CASTINGS 1/ - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, BY GRADE, APRIL 1979 (FINAL) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION			ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.) SCRAP)	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.) SCRAP)	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.) SCRAP)	
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	62,282	641	19,773	19,773	641	19,773	32,823	181	65,423	
CUT STRUCTURAL AND PLATE-----	20,949	1,291	1,991	1,991	1,291	1,991	20,709	79	20,443	
NO.1 HEAVY MELTING STEEL-----	19,255	86	6,750	6,750	86	6,750	21,652	192	22,634	
NO.2 HEAVY MELTING STEEL-----	10,843	--	1,747	1,747	--	1,747	9,377	--	9,083	
NO.1 AND ELECTRIC FURNACE BUNDLES---	4,418	--	207	207	--	207	4,752	--	910	
NO.2 AND ALL OTHER BUNDLES-----	129	--	--	--	--	--	154	--	1,890	
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	6,633	100	1,363	1,363	100	1,363	7,448	88	4,097	
RAILROAD RAILS-----	26	--	--	--	--	--	16	--	11	
TURNINGS AND BORINGS-----	4,839	448	2,054	2,054	448	2,054	6,639	680	6,301	
SLAG SCRAP (FE CONTENT 70 PERCENT)---	--	--	145	145	--	145	114	20	216	
SHREDDER OR FRAGMENTIZED-----	4,941	1,957	--	--	1,957	--	5,732	--	2,548	
NO. 1 BUSHING-----	2,823	1,200	--	--	1,200	--	3,909	--	3,435	
ALL OTHER CARBON STEEL SCRAP-----	40,877	2,595	28,152	28,152	2,595	28,152	71,048	591	43,137	
STAINLESS STEEL SCRAP-----	1,507	90	2,391	2,391	90	2,391	3,886	446	4,185	
ALLOY STEEL (EXCEPT STAINLESS)---	6,399	1,099	9,458	9,458	1,099	9,458	15,760	--	24,438	
INGOT MOLD AND STUOL SCRAP-----	314	--	48	48	--	48	405	--	1,327	
MACHINERY AND CUPOLA CAST IRON---	601	--	544	544	--	544	1,069	--	941	
CAST IRON BORINGS-----	6,597	--	2,972	2,972	--	2,972	7,737	142	7,044	
MOTOR BLOCKS-----	24	--	--	--	--	--	53	--	104	
OTHER IRON SCRAP-----	3,100	725	6,798	6,798	725	6,798	10,566	1,115	12,827	
OTHER MIXED SCRAP-----	--	--	414	414	--	414	416	--	39	
TOTAL SCRAP-----	196,557	10,232	84,807	84,807	10,232	84,807	274,265	3,534	231,033	
TOTAL SCRAP THROUGH APRIL 1979---	745,898	45,589	355,743	355,743	45,589	355,743	1,134,114	17,319	231,033	
PIG IRON-----	RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS
	3,541			--			4,316			24
PIG IRON THROUGH APRIL 1979-----	16,595			--			16,216			76

1/ EXCLUDES COMPANIES THAT PRODUCE BOTH STEEL INGOTS AND CASTINGS.
2/ BASED ON RETURNS FROM 81% OF REPORTING CONSUMERS, REPRESENTING 93% OF SCRAP CONSUMPTION.

TABLE 8. - IRON FOUNDRIES AND MISCELLANEOUS USERS - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS, AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, BY GRADE, APRIL 1979 (FINAL) 1/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION			ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RECIRCULATING SCRAP (INCLUDES INGOT CHASED AND MOLDS, STTOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RECIRCULATING SCRAP (INCLUDES INGOT CHASED AND MOLDS, STTOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RECIRCULATING SCRAP (INCLUDES INGOT CHASED AND MOLDS, STTOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS--	79,296	10,937	9,045	28		97,029	975			48,972
CUT STRUCTURAL AND PLATE-----	120,520	8,966	17,939	--		157,205	607			110,766
NO.1 HEAVY MELTING STEEL-----	18,111	4,347	5,919	--		24,454	2,228			54,818
NO.2 HEAVY MELTING STEEL-----	3,546	108	2,896	31		8,367	61			2,870
NO.1 AND ELECTRIC FURNACE BUNDLES--	16,780	19,318	6,138	38		40,219	--			16,755
NO.2 AND ALL OTHER BUNDLES-----	68,777	--	--	--		59,425	--			56,063
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	20,178	6,090	281	--		25,351	--			12,287
RAILROAD RAILS-----	11,300	--	24	--		11,925	24			11,566
TURNINGS AND BORINGS-----	51,875	10,827	1,381	3		60,412	1,555			82,694
SLAG SCRAP (FE CONTENT 70 PERCENT)---	6,780	--	6,654	--		13,174	39			26,913
SHREDDED OR FRAGMENTIZED-----	67,979	3,264	1,610	--		30,767	--			36,786
NO. 1 BUSHING-----	35,229	3,762	1,192	--		38,137	1,520			20,525
ALL OTHER CARBON STEEL SCRAP-----	92,619	55,356	12,814	4		153,609	509			101,051
STAINLESS STEEL SCRAP-----	383	--	677	--		934	41			1,699
ALLOY STEEL (EXCEPT STAINLESS)-----	6,853	2	536	81		6,956	256			9,109
INGOT MOLD AND STUOL SCRAP-----	11,998	103	694	710		12,739	314			45,990
MACHINERY AND CUPOLA CAST IRON -----	73,094	6,421	73,160	1,219		152,128	1,392			89,000
CAST IRON BORINGS-----	79,217	47,760	41,993	44		155,064	4,367			82,357
MOTOR BLOCKS-----	84,129	1,138	38,676	--		101,974	300			64,907
OTHER IRON SCRAP-----	95,114	5,825	303,799	885		329,370	12,953			179,381
OTHER MIXED SCRAP-----	43,913	55,602	34,619	580		134,439	752			59,677
TOTAL SCRAP-----	967,691	239,826	560,047	3,623		1,723,678	27,893			1,114,186
TOTAL SCRAP THROUGH APRIL 1979---	3,930,795	1,063,627	2,248,276	11,572		7,153,027	117,513			1,114,186
RECEIPTS				PRODUCTION			CONSUMPTION			SHIPMENTS
244,379				--			249,849			688
994,721				--			993,394			2,684
PIG IRON-----										120,076
PIG IRON THROUGH APRIL 1979-----										120,076
1/ BASED ON RETURNS FROM 73% OF REPORTING CONSUMERS, REPRESENTING 91% OF SCRAP CONSUMPTION.										

TABLE 9. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN APRIL 1979 (FINAL), BY TYPE OF CONSUMER AND TYPE OF FURNACE OR OTHER USE
(SHORT TONS)

TYPE OF FURNACE OR OTHER USE	MANUFACTURERS OF PIG IRON AND STEEL INGOTS AND CASTINGS 1/						MANUFACTURERS OF STEEL CASTINGS 2/				IRON FOUNDRIES AND MISCELLANEOUS USERS				TOTAL ALL TYPES	
	SCRAP		PIG IRON		SCRAP		PIG IRON		SCRAP		PIG IRON		SCRAP		PIG IRON	
	453,858		6,139,841		6,939		3,287		524,904		28,650		453,858		6,139,841	
BLAST FURNACE 3/	2,351,131		1,135,965		253,369		548		973,560		1,136,513		2,351,131		6,139,841	
BASIC OXYGEN PROCESS 4/	3,054,603		1,094		11,700		75		1,159,308		72,318		3,832,876		52,939	
OPEN-HEARTH FURNACE	36,973		34,617		2,257		406		39,466		2,969		1,207,981		73,987	
ELECTRIC FURNACE	105,840		142,438								145,412		147,563		37,992	
CUPOLA FURNACE															287,850	
OTHER (INCLUDING AIR FURNACE) 5/																
DIRECT CASTINGS 6/																
TOTAL	6,969,026		7,474,957		274,265		4,316		1,723,678		249,349		8,966,969		7,729,122	

1/ INCLUDES ONLY THOSE CASTINGS MADE BY COMPANIES PRODUCING STEEL INGOTS.

2/ EXCLUDES COMPANIES THAT PRODUCE BOTH STEEL INGOTS AND STEEL CASTINGS.

3/ INCLUDES CONSUMPTION IN ALL BLAST FURNACES PRODUCING PIG IRON.

4/ INCLUDES SCRAP AND PIG IRON PROCESSED IN METALLURGICAL BLAST CUPOLAS AND USED IN OXYGEN CONVERTERS.

5/ INCLUDES VACUUM MELTING FURNACES AND MISCELLANEOUS USES.

6/ INCLUDES INGOT MOLDS AND STOOLES.

FOREIGN TRADE

Exports of iron and steel scrap totaled 870,075 short tons in May compared with 847,425 tons in April. Exports of pig iron during May totaled 689 tons and 20,457 tons in April. Imports of scrap totaled 58,755 short tons in May compared with 73,340 tons in April. Of the scrap imported during May 54,057 short tons came from Canada and 4,698 tons from other sources. Imports of pig iron totaled 22,205 short tons in May and 46,982 tons in April. In addition to the foregoing imports of pig iron during May, there were 88 tons of sponge iron, valued at \$45,391 imported, of which 21 tons came from Canada, and 67 tons from Sweden.

Table 10. - U.S. exports of iron and steel scrap, 1/ by country

Country	May 1979		Year to date	
	Short tons	Value	Short tons	Value
Canada-----	67,336	\$4,520,610	386,119	\$23,513,628
Germany, Federal Rep. of-----	151	74,987	29,231	3,127,930
Greece-----	--	--	139,059	14,951,375
Indonesia-----	--	--	19,317	1,932,871
Italy-----	95,387	9,557,118	298,229	29,319,496
Japan-----	161,397	19,427,278	1,657,398	169,891,653
Korea, Republic of-----	105,484	12,476,946	572,526	60,219,822
Mexico-----	57,754	5,907,181	316,762	32,614,104
Singapore-----	34,274	3,007,409	34,344	3,017,407
Spain-----	157,423	14,861,651	557,691	50,693,592
Taiwan-----	52,098	6,823,263	266,631	22,853,763
Turkey-----	48,465	5,698,018	151,351	14,903,297
United Kingdom-----	131	38,217	4,618	629,383
Other countries-----	90,175	12,126,176	193,592	28,177,607
Total-----	870,075	94,518,854	4,626,868	455,845,928

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

Source: U.S. Bureau of Census.

Table 11. - U.S. exports of iron and steel scrap, by grade

Grade of scrap	May 1979		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	195,963	\$21,539,732	1,151,998	\$115,697,319
No. 2 heavy melting steel scrap-----	54,474	5,431,034	429,581	39,001,945
No. 1 bundles-----	3,659	336,876	55,678	5,486,114
No. 2 bundles-----	78,730	5,994,569	327,137	23,426,755
Borings, shovelings and turnings-----	107,091	7,766,502	289,373	18,287,135
Stainless steel-----	9,463	4,801,583	77,517	18,918,129
Shredded steel scrap-----	248,748	27,395,976	1,244,364	128,726,512
Iron scrap (excluding borings and shovelings)	42,895	4,353,333	242,977	24,073,952
All other steel scrap <u>1/-</u>	129,052	16,899,249	808,243	82,228,067
Total-----	870,075	94,518,854	4,626,868	455,845,928
Ships, boats, and other vessels for breaking up (for scrapping)-----	--	--	43,769	2,561,193
Total-----	870,075	94,518,854	4,670,637	458,407,121

1/ Includes tinplate and terneplate.

Source: U.S. Bureau of Census.