



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 APRIL 1979

Returns from 72% of reporting consumers representing 93% of total scrap consumption, indicated that consumption of iron and steel scrap in April on a daily average basis was 2% below that in March, according to the Bureau of Mines, U.S. Department of the Interior. Compared with March data, daily average production and net receipts were both down 2% and stocks at the end of the month were up 2%.

Exports of ferrous scrap during the month were 26% below those for March 1979 and 22% above those for April 1978. Japan was the principal country of destination, accounting for 27% of the total exported in April 1979, followed by Spain and the Republic of Korea, with 16% and 15%, respectively.

The Iron Age composite price for No. 1 heavy melting scrap (Chicago, Pittsburgh, and Philadelphia) at the end of April was \$93.17 per long ton, up 23% from the price of \$75.50 at the end of April 1978.

Pig iron production and consumption on a daily average basis during the month were both down 1% from those of the previous month. Stocks of pig iron were down 8% during April compared with those at the end of March 1979.

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

		APRIL 1979 (PRELIMINARY) 1/		FINAL	
		MFRS. OF		TOTAL FOR	
		PIG IRON AND		MONTH OF	
		STEEL INGOTS		APR 1979	
		& CASTINGS 2/		MAR 1979 4/	
		MFRS. OF		THROUGH	
		STEEL		APR 1979 5/	
		CASTINGS 3/			
		IRON FOUNDRIES			
		AND MISCEL-			
		LANEOUS USERS			
SCRAP:					
RECEIPTS FROM DEALERS AND OTHER SOURCES					
RECEIPTS FROM OTHER OWN COMPANY PLANTS--					
PRODUCTION RECIRCULATING SCRAP-----					
PRODUCTION OBSOLETE SCRAP-----					
CONSUMPTION-----					
SHIPMENTS-----					
STOCKS END OF MONTH-----					
		2,873,491	197,216	961,104	4,242,848
		566,031	10,232	251,443	879,280
		3,781,002	85,246	569,384	4,655,344
		226,285	395	3,643	244,237
		6,948,380	276,620	1,735,211	9,428,104
		428,444	3,534	29,072	505,626
		6,783,014	229,754	1,113,468	7,999,648
					15,005,656
					3,145,619
					16,934,764
					962,005
					34,516,539
					1,829,990
					--
PIG IRON:					
RECEIPTS-----					
PRODUCTION-----					
CONSUMPTION-----					
SHIPMENTS-----					
STOCKS END OF MONTH-----					
		237,718	3,159	246,267	552,825
		7,636,351	--	--	7,957,645
		7,475,002	4,405	250,420	8,043,402
		539,416	24	690	576,565
		611,031	5,681	141,605	826,241
					--
					1,996,395
					29,261,431
					29,548,252
					2,171,958
					--
DIRECT-REDUCED OR PREREDUCED IRON:					
RECEIPTS-----					
PRODUCTION-----					
CONSUMPTION-----					
SHIPMENTS-----					
STOCKS END OF MONTH-----					
		--	--	--	45,262
		--	--	--	NA
		--	--	--	48,976
		--	--	--	W
		--	--	--	25,610
		--	--	--	--

NA NOT AVAILABLE.

W WITHHELD TO AVOID DISCLOSING COMPANY CONFIDENTIAL DATA.

1/ BASED ON RETURNS FROM 72% OF REPORTING CONSUMERS, REPRESENTING 93% 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 79% OF REPORTING CONSUMERS, REPRESENTING 98% 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, APRIL 1979 (PRELIMINARY) 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	RECYCLATING SCRAP RESULTING FROM CURRENT OPERATIONS	OBsolete SCRAP (INCLUDES INGOT MOLDS, STOOOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	RECYCLATING SCRAP (INCLUDES INGOT MOLDS, STOOOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	HOME SCRAP (INCLUDES RE-CIRCULATING SCRAP)	SHIPMENTS OF SCRAP			
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-----	34,340	9,142	29,600	--	67,009	--	46,048			
NO.1 HEAVY MELTING STEEL-----	738,107	278,528	1,619,703	7,310	2,333,620	213,080	2,161,308			
NO.2 HEAVY MELTING STEEL-----	235,349	4,573	116,187	277	333,004	11,059	369,090			
NO.1 AND ELECTRIC FURNACE BUNDLES---	592,168	48,303	268,652	277	972,191	3,409	1,037,966			
NO.2 AND ALL OTHER BUNDLES-----	202,089	4,805	3,705	--	198,905	1,983	316,317			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	1,448	--	1,641	--	4,578	--	3,035			
RAILROAD RAILS-----	6,560	--	--	--	4,670	--	12,151			
TURNINGS AND BORINGS-----	147,204	15,331	32,455	83	137,665	10,489	117,211			
SLAG SCRAP (FE CONTENT 70 PERCENT)---	145,647	15,744	253,703	--	420,191	6,636	206,733			
SHREDDER OR FRAGMENTIZED-----	215,310	38,639	1,692	--	214,648	--	190,665			
NO. 1 BUSHING-----	142,138	2,236	964	--	146,178	1,554	117,195			
ALL OTHER CARBON STEEL SCRAP-----	187,530	42,692	954,417	27,610	1,147,864	62,538	737,430			
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	174,847	15,948	259,152			
INGOT WELD AND STOO SCRAP-----	32,365	55,375	104,031	179,165	296,272	60,034	643,334			
MACHINERY AND CUPOLA CAST IRON---	705	88	--	--	2,828	--	1,496			
CAST IRON BORINGS-----	39,418	6,809	19,294	6,324	61,724	6,794	66,511			
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	43,552	3,824	71,646			
TOTAL SCRAP-----	2,873,491	566,031	3,781,002	226,285	6,948,380	428,444	6,783,014			
TOTAL SCRAP THROUGH APRIL 1979---	10,335,876	2,024,786	14,321,567	949,189	26,217,123	1,693,446	6,783,014			
PIG IRON-----										
	237,718		7,636,351		7,475,002	539,416	611,031			
PIG IRON THROUGH APRIL 1979-----										
	983,404		29,261,431		28,538,076	2,169,196	611,031			
1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS. // BASED ON RETURNS FROM 93% OF REPORTING CONSUMERS, REPRESENTING 97% OF SCRAP CONSUMPTION.										

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS.

2/ BASED ON RETURNS FROM 93% OF REPORTING CONSUMERS, REPRESENTING 97% OF SCRAP CONSUMPTION.

TABLE 3. - MANUFACTURERS OF STEEL CASTINGS 1/ - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, BY GRADE, APRIL 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 SCRAP (INCLUDES INGOT MOLDS, STOOLS, AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	OBsolete SCRAP	RESULTING FROM OLD EQUIPMENT, CIRCULATING OF SCRAP	CHASED AND HOME SCRAP	RE- SHIPMENTS OF SCRAP		
SCRAP:									
CARBON STEEL-									
LOW-PHOSPHORUS PLATE AND PUNCHINGS	62,168	641	19,773	--	--	32,927	181	64,953	
CUT STRUCTURAL AND PLATE	21,049	1,291	1,865	--	--	20,783	79	20,447	
NO.1 HEAVY MELTING STEEL	19,840	86	7,181	--	--	23,175	192	22,041	
NO.2 HEAVY MELTING STEEL	10,843	--	1,747	--	--	9,377	--	9,083	
NO.1 AND ELECTRIC FURNACE BUNDLES	4,418	--	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	--	--	7,448	88	4,097	
RAILROAD RAILS	26	--	--	--	--	16	--	11	
TURNINGS AND BORINGS	4,839	448	2,054	--	--	6,639	680	6,301	
SLAG SCRAP (FE CONTENT 70 PERCENT)	--	--	147	--	--	114	10	224	
SHREDDER OR FRAGMENTIZED	4,941	1,957	--	--	--	5,732	--	2,548	
NO. 1 BUSHING	2,823	1,200	--	--	--	3,909	--	3,435	
ALL OTHER CARBON STEEL SCRAP	40,617	2,595	28,150	135	--	71,108	591	42,969	
STAINLESS STEEL SCRAP-									
ALLOY STEEL (EXCEPT STAINLESS)	1,803	90	2,541	--	--	4,129	434	4,345	
INGOT MOLD AND STOOL SCRAP	6,310	1,099	9,462	136	--	16,054	--	24,194	
MACHINERY AND CUPOLA CAST IRON	314	--	34	--	--	415	28	1,303	
CAST IRON BORINGS	620	--	544	--	--	1,071	--	949	
MOTOR BLOCKS	6,603	--	2,972	--	--	7,737	142	7,044	
OTHER IRON SCRAP	24	--	--	--	--	53	--	104	
OTHER MIXED SCRAP	3,216	725	6,792	124	--	10,611	1,109	12,867	
	--	--	414	--	--	416	--	39	
TOTAL SCRAP	197,216	10,232	85,246	395	--	276,620	3,534	229,754	
TOTAL SCRAP THROUGH APRIL 1979	745,811	45,589	356,266	1,224	--	1,136,185	17,225	229,754	
PIG IRON-									
	RECEIPTS		PRODUCTION		CONSUMPTION		SHIPMENTS		STOCKS
	3,159		--		4,405		24		5,681
PIG IRON THROUGH APRIL 1979	16,229		--		16,414		76		5,681

1/ EXCLUDES COMPANIES THAT PRODUCE BOTH STEEL INGOTS AND CASTINGS.
2/ BASED ON RETURNS FROM 75% OF REPORTING CONSUMERS, REPRESENTING 89% 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, APRIL 1979 (PRELIMINARY) 1/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION				
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM OTHER OWN COMPANY PLANTS	RECYCLING OF OBSOLETE SCRAP (INCLUDES INGOT MOLDS, STUOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)			HOME SCRAP (INCLUDES RE- CIRCULATING SCRAP)				
				RESULTING FROM CURRENT OPERATIONS	OLD EQUIPMENT, BUILDINGS, ETC.)	SCRAP	SCRAP	SCRAP	SCRAP		
SCRAP:											
CARBON STEEL-											
LOW-PHOSPHORUS PLATE AND PUNCHINGS	79,405	10,937		9,045	28	97,063	975	49,018			
CUT STRUCTURAL AND PLATE	123,080	8,966		17,944	--	157,637	607	111,076			
NO.1 HEAVY MELTING STEEL	18,147	4,448		6,335	--	24,879	2,228	54,522			
NO.2 HEAVY MELTING STEEL	3,626	108		2,896	31	8,399	61	2,926			
NO.1 AND ELECTRIC FURNACE BUNDLES	23,417	18,475		6,138	58	40,802	--	19,462			
NO.2 AND ALL OTHER BUNDLES	68,777	--		--	--	59,425	--	56,063			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	20,377	6,090		281	--	24,195	--	12,475			
RAILROAD RAILS	11,300	--		24	--	11,927	24	11,571			
TURNINGS AND BORINGS	51,747	10,859		1,677	3	61,370	1,369	82,591			
SLAG SCRAP (FE CONTENT 70 PERCENT)	7,504	--		39	--	7,475	39	25,175			
SHREDDED OR FRAGMENTIZED	68,054	3,264		1,610	--	31,335	--	35,964			
NO. 1 BUSHING	32,364	3,762		1,192	--	37,441	1,520	18,592			
ALL OTHER CARBON STEEL SCRAP	80,105	69,539		15,365	4	160,098	512	98,711			
STAINLESS STEEL SCRAP	383	--		677	--	934	41	1,699			
ALLOY STEEL (EXCEPT STAINLESS)	6,733	2		496	81	6,972	256	8,981			
INGOT MOLD AND STUOL SCRAP	11,986	103		9,115	710	20,734	314	48,174			
MACHINERY AND CUPOLA CAST IRON	73,594	6,421		73,406	1,219	153,736	1,392	88,507			
CAST IRON BORINGS	79,465	46,158		41,738	44	151,072	5,869	83,584			
MOTOR BLOCKS	62,300	968		38,369	--	101,409	300	62,544			
OTHER IRON SCRAP	94,764	5,743		306,801	885	392,244	12,813	182,474			
OTHER MIXED SCRAP	43,976	55,600		36,236	580	136,064	752	59,359			
TOTAL SCRAP	961,104	251,443		569,384	3,643	1,735,211	29,072	1,113,468			
TOTAL SCRAP THROUGH APRIL 1979	3,923,969	1,075,244		2,256,931	11,592	7,163,231	119,319	1,113,468			
RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS		
246,267			--			250,420			141,605		
996,762			--			993,762			141,605		
PIG IRON THROUGH APRIL 1979	996,762			--			993,762			141,605	
/ BASED ON RETURNS FROM 66% OF REPORTING CONSUMERS, REPRESENTING 82% OF SCRAP CONSUMPTION.											

TABLE 5. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN APRIL 1979 (PRELIMINARY), 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
BLAST FURNACE 3/	453,858	--	--	--	--	--	453,858	--
BASIC OXYGEN PROCESS 4/	2,351,131	6,139,841	--	--	--	--	2,351,131	6,139,841
OPEN-HEARTH FURNACE	966,621	1,135,965	548	--	--	--	973,560	1,136,513
ELECTRIC FURNACE	3,033,957	21,047	3,376	3,376	28,396	28,396	3,821,600	52,819
CUPOLA FURNACE	36,973	1,094	11,700	75	1,163,489	73,383	1,212,162	74,552
OTHER (INCLUDING AIR FURNACE) 5/	105,840	34,617	2,257	406	39,803	3,229	147,900	38,252
DIRECT CASTINGS 6/	--	142,438	--	--	--	145,412	--	287,850
TOTAL	6,948,380	7,475,002	276,620	4,405	1,735,211	250,420	8,960,211	7,729,827

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 STOKES.

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, MARCH 1979 (FINAL) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP		PRODUCTION OF HOME SCRAP		CONSUMPTION OF BOTH PUR-CHASED AND HOME SCRAP (INCLUDES RE-SHIPMENTS OF SCRAP)		ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RECYCLING OBSOLETE SCRAP (INCLUDES INGOT MOLD, STUOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	RESULTING FROM CURRENT OPERATIONS	CHASED AND HOME SCRAP (INCLUDES RE-SHIPMENTS OF SCRAP)		
SCRAP:							
CARBON STEEL-							
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	57,588	1,002	5,460	806	55,366	5,918	72,610
CUT STRUCTURAL AND PLATE---	35,478	11,888	28,670	--	72,704	618	40,048
NO.1 HEAVY MELTING STEEL---	772,158	254,488	1,746,437	6,249	2,496,252	214,078	2,118,446
NO.2 HEAVY MELTING STEEL---	224,425	5,616	146,356	306	375,998	5,009	347,745
NO.1 AND ELECTRIC FURNACE BUNDLES---	634,240	64,215	242,553	1,482	931,568	9,917	1,103,765
NO.2 AND ALL OTHER BUNDLES---	188,415	4,129	7,199	--	209,713	2,504	291,148
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)---	2,580	--	1,271	--	5,259	--	3,821
RAILROAD RAILS---	11,604	--	--	--	6,411	--	9,874
TURNINGS AND BORINGS---	141,509	6,088	35,557	119	178,148	11,862	120,041
SLAG SCRAP (FE CONTENT 70 PERCENT)---	141,085	2,081	274,742	--	411,653	6,555	227,379
SHREDDER OR FRAGMENTIZED---	219,625	39,901	2,871	--	227,557	2	156,953
NO. 1 BUSHING---	157,749	4,533	645	--	154,404	12,452	121,751
ALL OTHER CARBON STEEL SCRAP---	191,114	17,597	1,040,449	37,270	1,199,735	60,120	752,437
STAINLESS STEEL SCRAP---							
ALLOY STEEL (EXCEPT STAINLESS)---	38,544	4,513	75,106	38	117,808	6,041	91,063
INGOT MOLD AND STUOL SCRAP---	27,467	25,494	151,235	442	135,664	17,610	247,629
STAINLESS STEEL SCRAP---	23,491	67,184	114,053	179,397	322,483	78,644	620,219
ALLOY STEEL (EXCEPT STAINLESS)---	38,544	4,513	75,106	38	117,808	6,041	91,063
INGOT MOLD AND STUOL SCRAP---	27,467	25,494	151,235	442	135,664	17,610	247,629
MACHINERY AND CUPOLA CAST IRON---	23,491	67,184	114,053	179,397	322,483	78,644	620,219
CAST IRON BORINGS---	2,579	265	--	--	1,138	--	3,531
MOTOR BLOCKS---	39,595	3,884	17,305	7,360	66,167	6,711	65,081
OTHER IRON SCRAP---	1,687	--	--	--	758	--	1,112
OTHER MIXED SCRAP---	40,853	11,540	55,138	7,390	65,509	24,704	242,688
	18,524	11,174	14,774	11	47,593	4,461	49,636
TOTAL SCRAP---	2,970,310	535,592	3,959,821	240,870	7,131,888	467,206	6,686,977
TOTAL SCRAP THROUGH MARCH 1979---	7,462,385	1,458,755	10,540,565	722,904	19,268,743	1,265,002	6,686,977
PIG IRON---							
	258,615		7,957,645		7,766,837	576,077	671,292
PIG IRON THROUGH MARCH 1979---	745,686		21,625,080		21,063,074	1,629,780	671,292

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS.

2/ BASED ON RETURNS FROM 96% OF REPORTING CONSUMERS, REPRESENTING 99% 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, MARCH 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 MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP BUILDINGS, ETC.) SCRAP)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP BUILDINGS, ETC.) SCRAP)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP BUILDINGS, ETC.) SCRAP)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP BUILDINGS, ETC.) SCRAP)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP BUILDINGS, ETC.) SCRAP)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP BUILDINGS, ETC.) SCRAP)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP BUILDINGS, ETC.) SCRAP)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP BUILDINGS, ETC.) SCRAP)
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS--	74,994	626	22,538	--	--	39,996	181	65,057		
CUT STRUCTURAL AND PLATE--	22,139	1,734	2,474	--	--	23,310	64	16,920		
NO. 1 HEAVY MELTING STEEL--	16,510	84	8,585	66	66	23,778	--	17,781		
NO. 2 HEAVY MELTING STEEL--	10,573	--	1,745	--	--	11,392	--	5,870		
NO. 1 AND ELECTRIC FURNACE BUNDLES--	4,129	--	207	--	--	4,748	--	1,216		
NO. 2 AND ALL OTHER BUNDLES--	647	--	--	--	--	519	--	1,915		
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)--	5,834	100	1,356	--	--	7,147	116	3,549		
RAILROAD RAILS--	15	--	--	--	--	24	--	1		
TURNINGS AND BORINGS--	6,501	559	2,831	--	--	7,388	1,141	6,537		
SLAG SCRAP (FE CONTENT 70 PERCENT)--	--	--	244	--	--	211	10	205		
SHREDDED OR FRAGMENTIZED--	5,984	1,964	--	--	--	9,203	--	1,343		
NO. 1 BUSHING--	3,154	1,443	--	--	--	4,725	--	3,321		
ALL OTHER CARBON STEEL SCRAP--	45,852	3,044	32,974	137	137	33,134	2,349	42,366		
STAINLESS STEEL SCRAP--	1,921	56	2,562	--	--	4,390	468	4,401		
ALLOY STEEL (EXCEPT STAINLESS)--	6,904	731	11,163	136	136	18,082	156	23,666		
INGOT MOLD AND STOOLES SCRAP--	633	--	34	--	--	404	28	1,417		
MACHINERY AND CUPOLA CAST IRON--	581	--	625	--	--	1,208	--	928		
CAST IRON BORINGS--	5,170	--	2,910	--	--	7,763	58	5,187		
MOTOR BLOCKS--	83	--	--	--	--	62	--	134		
OTHER IRON SCRAP--	3,731	26	7,818	44	44	11,534	625	13,790		
OTHER MIXED SCRAP--	--	--	466	--	--	487	--	41		
TOTAL SCRAP--	215,355	10,367	98,532	383	383	309,505	5,196	215,645		
TOTAL SCRAP THROUGH MARCH 1979--	548,595	35,357	271,020	829	829	859,565	13,691	215,645		
PIG IRON--										
	5,149	--	--	--	--	4,047	--	6,587		
PIG IRON THROUGH MARCH 1979--	13,070	--	--	--	--	12,009	52	6,587		

1/ EXCLUDES COMPANIES THAT PRODUCE BOTH STEEL INGOTS AND CASTINGS.
2/ BASED ON RETURNS FROM 79% OF REPORTING CONSUMERS, REPRESENTING 94% 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, MARCH 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	RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT MOLDS, STOOLS, AND SCRAP FROM CURRENT OLD EQUIPMENT, OPERATIONS BUILDINGS, ETC.)	SCRAP RESULTING FROM	SCRAP (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP)	CHASED AND HOME SCRAP	SHIPMENTS	STOCKS			
SCRAP:											
CARBON STEEL-											
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	83,285	11,553	9,486	34	99,976	613	47,108				
CUT STRUCTURAL AND PLATE-----	151,849	8,274	16,412	57	166,450	413	122,250				
NO.1 HEAVY MELTING STEEL-----	21,776	10,125	4,996	--	24,955	2,947	55,789				
NO.2 HEAVY MELTING STEEL-----	5,061	261	3,145	35	9,815	769	4,687				
NO.1 AND ELECTRIC FURNACE BUNDLES----	21,684	19,469	6,654	46	51,041	--	14,202				
NO.2 AND ALL OTHER BUNDLES-----	55,972	--	--	--	57,546	--	46,713				
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	19,384	7,921	256	--	27,798	--	12,155				
RAILROAD RAILS-----	14,493	--	24	--	12,667	24	12,241				
TURNINGS AND BORINGS-----	51,913	12,934	2,831	3	68,170	2,395	79,151				
SLAG SCRAP (FE CONTENT 70 PERCENT)----	11,006	--	61	--	7,636	61	25,274				
SHREDDER OR FRAGMENTIZED-----	89,447	4,230	--	--	38,945	--	43,440				
NO. 1 BUSHING-----	42,097	4,062	1,192	--	46,326	1,520	18,358				
ALL OTHER CARBON STEEL SCRAP-----	85,055	86,903	17,318	4	193,252	659	94,598				
STAINLESS STEEL SCRAP-----											
ALLOY STEEL (EXCEPT STAINLESS)-----	393	27	721	--	1,014	28	1,682				
INGOT MOLD AND STOOL SCRAP-----	6,363	14	437	179	6,052	260	8,834				
MACHINERY AND CUPOLA CAST IRON -----	14,052	492	9,959	307	22,173	490	46,511				
CAST IRON BORINGS-----	80,755	6,354	80,087	31	169,382	167	86,025				
MOTOR BLOCKS-----	69,635	64,376	35,230	45	168,920	6,165	72,635				
OTHER IRON SCRAP-----	69,982	618	42,055	--	106,022	366	66,773				
OTHER MIXED SCRAP-----	103,017	19,532	331,222	1,443	443,685	15,146	179,428				
	49,964	76,176	34,905	800	164,886	1,201	59,172				
TOTAL SCRAP-----	1,057,183	333,321	596,991	2,984	1,936,711	33,224	1,097,026				
TOTAL SCRAP THROUGH MARCH 1979----	2,962,865	823,801	1,687,547	7,949	5,428,020	90,247	1,097,026				
PIG IRON-----											
	RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS	
	289,061			--			272,519				
	750,495			--			743,342				
PIG IRON THROUGH MARCH 1979-----											148,362
1/ BASED ON RETURNS FROM 74% OF REPORTING CONSUMERS, REPRESENTING 92% OF SCRAP CONSUMPTION.											

TABLE 9. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN MARCH 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		SCRAP		PIG IRON		SCRAP		PIG IRON		SCRAP	
	365,365		6,321,053		2,472,656		6,394		280		576,404		28,682		2,472,656	
BLAST FURNACE 3/	2,472,656		1,184,529		1,035,630		288,485		3,360		1,306,663		83,683		1,042,024	
BASIC OXYGEN PROCESS 4/	3,168,442		52,504		43,815		12,179		42		53,644		3,161		4,033,331	
OPEN-HEARTH FURNACE	95,980		32,777		172,707		2,447		365		152,071		156,992		1,362,657	
ELECTRIC FURNACE															36,303	
CUPOLA FURNACE															329,699	
OTHER (INCLUDING AIR FURNACE) 5/																
DIRECT CASTINGS 6/																
TOTAL	7,181,888		7,766,837		309,505		4,047		1,936,711		272,518		9,428,104		8,043,402	

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 SPOOLS.

FOREIGN TRADE

Exports of iron and steel scrap totaled 847,425 short tons in April compared with 1,145,241 tons in March. Exports of pig iron during April totaled 20,457 tons and 1,924 tons in March. Imports of scrap totaled 73,340 short tons in April compared with 68,465 tons in March. Of the scrap imported during April 60,070 short tons came from Canada and 13,270 tons from other sources. Imports of pig iron totaled 46,982 short tons in April and 38,212 tons in March. In addition to the foregoing imports of pig iron during April, there were 77 tons of sponge iron, valued at \$55,211, imported from Canada.

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

Country	April 1979		Year to date	
	Short tons	Value	Short tons	Value
Canada-----	67,768	\$4,877,919	318,783	\$18,993,018
Germany, Federal Rep. of-----	336	108,913	29,080	3,052,943
Greece-----	34,768	3,679,755	139,059	14,951,375
Indonesia-----	--	--	19,317	1,932,871
Italy-----	53,605	5,621,766	202,842	19,762,378
Japan-----	225,632	26,694,735	1,496,001	150,464,375
Korea, Republic of-----	123,813	13,415,479	467,042	47,742,876
Mexico-----	61,189	6,680,473	259,008	26,706,923
Singapore-----	51	4,558	70	9,998
Spain-----	138,425	14,145,577	400,268	35,831,941
Taiwan-----	68,903	7,237,232	214,533	16,030,500
Turkey-----	21,658	2,205,806	102,886	9,205,279
United Kingdom-----	403	95,582	4,487	591,166
Other countries-----	50,874	8,856,314	103,417	16,051,431
Total-----	847,425	93,624,109	3,756,793	361,327,074

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	April 1979		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	247,904	\$27,512,656	956,035	\$94,157,587
No. 2 heavy melting steel scrap-----	94,006	9,220,800	375,107	33,570,911
No. 1 bundles-----	8,578	935,568	52,019	5,149,238
No. 2 bundles-----	55,414	4,518,395	248,407	17,432,186
Borings, shovelings and turnings-----	49,502	2,745,185	182,282	10,520,633
Stainless steel-----	10,042	5,278,451	68,054	14,116,546
Shredded steel scrap-----	207,988	22,751,652	995,616	101,330,536
Iron scrap (excluding borings and shovelings)	53,510	5,883,041	200,082	19,720,619
All other steel scrap <u>1/-</u>	120,481	14,778,361	679,191	65,328,818
Total-----	847,425	93,624,109	3,756,793	361,327,074
Ships, boats, and other vessels for breaking up (for scrapping)-----	12,198	852,630	43,769	2,561,193
Total-----	859,623	94,476,739	3,800,562	363,888,267

1/ Includes tinplate and terneplate.

Source: U.S. Bureau of Census.