

Johnson, O'Donnell, ~~Waring~~,
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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 MARCH 1979

Returns from 73% of reporting consumers representing 95% of total scrap consumption, indicated that consumption of iron and steel scrap in March on a daily average basis was 7% above that in February, according to the Bureau of Mines, U.S. Department of the Interior. Compared with February data, daily average production and net receipts were up 8% and 15%, respectively, and stocks at the end of the month were up 3%.

Exports of ferrous scrap during the month were 24% below those for February 1979 and 39% above those for March 1978. Japan was the principal country of destination, accounting for 37% of the total exported in March 1979, followed by the Republic of Korea and Spain, 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 March was \$112.50 per long ton, up 52% from the price of \$73.83 at the end of March 1978.

Pig iron production and consumption on a daily average basis during the month were up 8% and 9%, respectively, from those of the previous month. Stocks of pig iron increased 2% during March compared with those at the end of February 1979.

Prepared in the Division of Ferrous Metals, May 29, 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)

		MARCH 1979 (PRELIMINARY) 1/				FINAL	
		MFRS. OF		MFRS. OF		TOTAL FOR	
		PIG IRON AND		STEEL		MONTH OF	
		STEEL INGOTS		CASTINGS 3/		MAR 1979	
		& CASTINGS 2/		LANEIOUS USERS		FEB 1979 4/	
						MAR 1979 5/	
SCRAP:							
RECEIPTS FROM DEALERS AND OTHER SOURCES		2,960,387		211,124		4,230,041	
RECEIPTS FROM OTHER OWN COMPANY PLANTS-		536,398		10,492		865,476	
PRODUCTION RECIRCULATING SCRAP-----		3,952,400		97,939		4,652,134	
PRODUCTION OBSOLETE SCRAP-----		240,870		347		244,201	
CONSUMPTION-----		7,159,425		305,410		9,389,833	
SHIPMENTS-----		458,823		5,132		33,573	
STOCKS END OF MONTH-----		6,699,898		215,309		8,016,398	
PIG IRON:							
RECEIPTS-----		248,719		4,976		542,236	
PRODUCTION-----		7,942,953		--		7,942,953	
CONSUMPTION-----		7,756,190		4,060		8,032,365	
SHIPMENTS-----		556,080		--		556,568	
STOCKS END OF MONTH-----		691,954		6,526		847,170	
DIRECT-REDUCED OR PREREDUCED IRON:							
RECEIPTS-----		--		--		45,262	
PRODUCTION-----		--		--		NA	
CONSUMPTION-----		--		--		48,976	
SHIPMENTS-----		--		--		W	
STOCKS END OF MONTH-----		--		--		25,610	
NA NOT AVAILABLE.							
W WITHHELD.							
1/ BASED ON RETURNS FROM 73% OF REPORTING CONSUMERS, REPRESENTING 95% 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 80% OF REPORTING CONSUMERS, REPRESENTING 97% 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, MARCH 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 SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	OBSELETE SCRAP (INCLUDES INGOT MOLD, STOOLES, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING OF SCRAP)	CHASED AND HOME SCRAP (INCLUDES RE-SCRAP)	SHIPMENTS	STOCKS		
SCRAP:									
CARBON STEEL-									
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	57,588	1,002	5,460	806	55,366	5,918	72,610	72,610	
CUT STRUCTURAL AND PLATE-----	35,478	11,888	28,670	--	72,704	618	40,048	40,048	
NO.1 HEAVY MELTING STEEL-----	770,516	254,488	1,743,837	6,249	2,490,085	210,233	2,122,767	2,122,767	
NO.2 HEAVY MELTING STEEL-----	223,584	5,616	146,356	306	375,516	5,009	346,801	346,801	
NO.1 AND ELECTRIC FURNACE BUNDLES---	634,240	64,041	242,553	1,482	980,660	9,917	1,104,107	1,104,107	
NO.2 AND ALL OTHER BUNDLES-----	188,671	4,129	7,199	--	209,853	2,504	291,206	291,206	
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	3,360	--	1,271	--	5,594	--	3,761	3,761	
RAILROAD RAILS-----	11,604	--	--	--	6,411	--	9,874	9,874	
TURNINGS AND BORINGS-----	138,615	6,088	35,546	119	175,249	11,862	119,986	119,986	
SLAG SCRAP (FE CONTENT 70 PERCENT)---	141,085	2,081	274,742	--	411,653	6,555	227,379	227,379	
SHREDDER OR FRAGMENTIZED-----	219,625	39,901	2,871	--	227,557	2	156,953	156,953	
NO. 1 BUSHING-----	157,957	4,533	645	--	154,063	12,452	121,737	121,737	
ALL OTHER CARBON STEEL SCRAP-----	191,114	17,597	1,036,562	37,270	1,199,353	57,225	751,932	751,932	
STAINLESS STEEL SCRAP-----									
ALLOY STEEL (EXCEPT STAINLESS)-----	38,281	4,513	74,066	38	116,485	6,041	92,126	92,126	
INGOT MOLD AND STUOL SCRAP-----	27,467	25,494	151,231	442	185,677	17,610	247,755	247,755	
MACHINERY AND CUPOLA CAST IRON-----	23,159	67,184	114,398	179,397	320,943	78,817	621,075	621,075	
CAST IRON BORINGS-----	2,579	265	--	--	1,138	--	3,531	3,531	
MOTOR BLOCKS-----	34,400	4,864	17,081	7,360	57,258	4,895	72,814	72,814	
OTHER IRON SCRAP-----	1,687	--	--	--	758	--	1,112	1,112	
OTHER MIXED SCRAP-----	40,853	11,540	55,138	7,390	65,509	24,704	242,688	242,688	
	18,524	11,174	14,774	11	47,593	4,461	49,636	49,636	
TOTAL SCRAP-----	2,960,387	536,398	3,952,400	240,870	7,159,425	458,823	6,699,898	6,699,898	
TOTAL SCRAP THROUGH MARCH 1979---	7,452,887	1,459,561	10,533,370	722,904	19,247,961	1,256,673	6,699,898	6,699,898	
PIG IRON-----									
	248,719		7,942,953		7,756,190	556,080	691,954	691,954	
PIG IRON THROUGH MARCH 1979-----									
	735,790		21,610,388		21,052,427	1,609,783	691,954	691,954	

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

2/ BASED ON RETURNS FROM 93% OF REPORTING CONSUMERS, REPRESENTING 99% 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, MARCH (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 AND SCRAP FROM CURRENT OLD EQUIPMENT, BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OLD EQUIPMENT, BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OLD EQUIPMENT, BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OLD EQUIPMENT, BUILDINGS, ETC.)	OF BOTH PURCHASED AND HOME SCRAP	OF BOTH PURCHASED AND HOME SCRAP	OF BOTH PURCHASED AND HOME SCRAP	
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	71,888	626	22,382	--	--	38,522	181	64,633		
CUT STRUCTURAL AND PLATE-----	22,609	1,734	2,371	--	--	23,572	--	16,978		
NO. 1 HEAVY MELTING STEEL-----	16,500	84	8,559	66	66	23,728	--	17,781		
NO. 2 HEAVY MELTING STEEL-----	10,770	--	1,712	--	--	11,230	--	5,893		
NO. 1 AND ELECTRIC FURNACE BUNDLES---	2,366	--	207	--	--	2,768	--	1,116		
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		
SHREDDER OR FRAGMENTIZED-----	5,984	1,964	--	--	--	9,203	--	1,343		
NO. 1 BUSHING-----	3,268	1,443	--	--	--	4,680	--	3,123		
ALL OTHER CARBON STEEL SCRAP-----	45,514	3,169	32,974	137	137	32,923	2,349	42,333		
STAINLESS STEEL SCRAP-----	1,921	56	2,566	--	--	4,398	468	4,402		
ALLOY STEEL (EXCEPT STAINLESS)---	6,553	731	10,859	100	100	17,639	156	23,422		
INGOT MOLD AND STOOL SCRAP-----	633	--	34	--	--	404	28	1,417		
MACHINERY AND CUPOLA CAST IRON-----	1,137	--	650	--	--	1,208	--	1,509		
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-----	211,124	10,492	97,939	347	347	305,410	5,132	215,309		
TOTAL SCRAP THROUGH MARCH 1979---	542,229	35,607	270,363	793	793	854,223	13,563	215,309		
PIG IRON-----	4,976	--	--	--	--	4,060	--	6,526		
PIG IRON THROUGH MARCH 1979-----	12,897	--	--	--	--	12,021	52	6,526		

1/ EXCLUDES COMPANIES THAT PRODUCE BOTH STEEL INGOTS AND CASTINGS.
2/ BASED ON RETURNS FROM 72% OF REPORTING CONSUMERS, REPRESENTING 87% 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, MARCH 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	RECYCLATING SCRAP RESULTING FROM CURRENT OPERATIONS	OBsolete SCRAP (INCLUDES INGOT MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	CHASED AND HOME SCRAP (INCLUDES RE- CIRCULATING SCRAP)	SHIPMENTS OF SCRAP	STOCKS	
SCRAP:									
CARBON STEEL-									
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	82,922	11,554		9,486	34	101,352	613	45,228	
CUT STRUCTURAL AND PLATE-----	151,700	8,309		16,412	57	166,328	413	122,182	
NO.1 HEAVY MELTING STEEL-----	20,500	12,019		4,957	--	25,959	2,947	53,132	
NO.2 HEAVY MELTING STEEL-----	5,061	261		3,145	35	9,815	769	4,687	
NO.1 AND ELECTRIC FURNACE BUNDLES---	21,531	16,436		6,654	46	47,746	--	14,244	
NO.2 AND ALL OTHER BUNDLES-----	65,972	--		--	--	57,546	--	46,713	
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	19,384	7,921		256	--	27,798	--	12,155	
RAILROAD RAILS-----	14,437	--		24	--	12,692	24	12,224	
TURNINGS AND BORINGS-----	51,425	12,461		2,831	3	67,257	2,395	79,144	
SLAG SCRAP (FE CONTENT 70 PERCENT)---	11,006	--		61	--	7,636	61	25,274	
SHREDDER OR FRAGMENTIZED-----	89,436	4,230		--	--	90,203	--	41,919	
NO. 1 BUSHELING-----	42,097	4,062		1,192	--	46,326	1,520	18,358	
ALL OTHER CARBON STEEL SCRAP-----	90,877	72,922		17,318	4	136,021	647	97,927	
STAINLESS STEEL SCRAP-----									
ALLOY STEEL (EXCEPT STAINLESS)---	6,532	14		437	179	6,393	260	8,821	
INGOT MOLD AND STUOL SCRAP-----	14,052	492		9,959	307	22,173	490	46,511	
MACHINERY AND CUPOLA CAST IRON ---	80,611	7,922		75,115	31	166,333	167	85,855	
CAST IRON BORINGS-----	70,527	65,630		46,670	45	179,259	5,984	74,612	
MOTOR BLOCKS-----	69,930	618		42,055	--	105,888	366	66,916	
OTHER IRON SCRAP-----	100,197	17,532		329,597	1,443	432,271	15,688	184,389	
OTHER MIXED SCRAP-----	49,940	76,176		34,905	800	164,988	1,201	59,218	
TOTAL SCRAP-----									
TOTAL SCRAP THROUGH MARCH 1979----	1,058,530	318,586		601,795	2,984	1,924,998	33,573	1,101,191	
TOTAL SCRAP THROUGH MARCH 1979----									
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TABLE 5. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN MARCH 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/-----	353,562	--	--	--	--	--	--	--	--	--	--	353,562	--	--
BASIC OXYGEN PROCESS 4/-----	2,464,394	--	6,310,406	--	--	--	--	--	--	--	--	2,464,394	6,310,406	--
OPEN-HEARTH FURNACE-----	1,035,630	--	1,184,529	--	6,394	--	280	--	--	--	--	1,042,024	1,184,809	--
ELECTRIC FURNACE-----	3,166,044	--	52,504	--	286,720	--	3,359	--	577,183	--	28,907	4,029,947	84,770	--
CUPOLA FURNACE-----	43,815	--	3,267	--	9,841	--	55	--	1,294,266	--	83,055	1,347,922	86,377	--
OTHER (INCLUDING AIR FURNACE)5/-----	95,980	--	32,777	--	2,455	--	366	--	53,549	--	3,161	151,984	36,304	--
DIRECT CASTINGS 6/-----	--	--	172,707	--	--	--	--	--	--	--	156,992	--	329,699	--
TOTAL-----	7,159,425	--	7,756,190	--	305,410	--	4,060	--	1,924,998	--	272,115	9,389,833	8,032,365	--

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 STOOLS.

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, FEBRUARY 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	RECYCLATING SCRAP (INCLUDES INGOT MOLDS, STOOLS, AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	OBsolete SCRAP (INCLUDES INGOT MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE- SHIPMENTS OF SCRAP)	PRODUCTION	CONSUMPTION	SHIPMENTS			
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	36,674	1,620	3,500	299	45,421	4,520	68,791			
CUT STRUCTURAL AND PLATE-----	23,468	14,201	37,532	--	76,328	254	36,616			
NO.1 HEAVY MELTING STEEL-----	527,556	203,558	1,481,081	3,168	2,037,581	177,503	1,986,909			
NO.2 HEAVY MELTING STEEL-----	173,366	4,002	121,348	100	315,435	6,042	363,166			
NO.1 AND ELECTRIC FURNACE BUNDLES----	543,364	54,089	201,093	1,488	900,421	8,287	1,153,532			
NO.2 AND ALL OTHER BUNDLES-----	128,384	7,809	3,487	--	148,139	2,340	246,628			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	2,771	--	1,859	--	5,104	--	4,724			
RAILROAD RAILS-----	8,751	--	--	--	7,450	--	4,699			
TURNINGS AND BORINGS-----	109,949	6,068	31,374	71	137,029	7,316	121,961			
SLAG SCRAP (FE CONTENT 70 PERCENT)----	96,496	7,744	192,503	--	234,785	11,008	227,832			
SHREDDED OR FRAGMENTIZED-----	143,693	32,666	779	--	209,216	21	102,562			
NO. 1 BUSHELING-----	117,022	3,006	620	--	128,549	1,134	124,563			
ALL OTHER CARBON STEEL SCRAP-----	126,189	10,511	756,274	102,869	948,421	42,003	743,985			
STAINLESS STEEL SCRAP-----										
ALLOY STEEL (EXCEPT STAINLESS)-----	30,086	3,872	57,787	51	33,681	4,707	98,059			
INGOT MOLD AND STOOL SCRAP-----	20,043	20,810	126,687	631	163,619	18,890	238,861			
MACHINERY AND CUPOLA CAST IRON-----	22,267	49,919	99,387	164,847	256,587	65,443	633,695			
MACHINERY AND CUPOLA CAST IRON-----	307	87	--	--	1,484	--	1,825			
CAST IRON BORINGS-----	14,786	2,325	15,305	4,566	44,450	3,187	69,826			
MOTOR BLOCKS-----	623	--	--	--	744	--	37			
OTHER IRON SCRAP-----	20,283	16,697	52,701	397	54,931	26,739	220,764			
OTHER MIXED SCRAP-----	23,368	8,653	13,158	8	38,359	7,467	52,234			
TOTAL SCRAP-----	2,169,446	447,637	3,196,475	278,495	5,837,734	386,861	6,501,268			
TOTAL SCRAP THROUGH FEBRUARY 1979----	4,492,500	923,163	6,580,970	482,034	12,038,536	797,850	6,501,268			
PIG IRON-----										
PIG IRON-----	217,149		6,631,937		6,444,273	499,115	717,446			
PIG IRON THROUGH FEBRUARY 1979----	487,071		13,667,435		13,296,237	1,053,703	717,446			

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, FEBRUARY 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 RECYCLATING SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING OF SCRAP)	FROM RECYCLATING SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING OF SCRAP)	FROM RECYCLATING SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING OF SCRAP)	FROM RECYCLATING SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING OF SCRAP)	FROM RECYCLATING SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING OF SCRAP)	FROM RECYCLATING SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING OF SCRAP)	FROM RECYCLATING SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING OF SCRAP)	
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS--	55,954	473		20,215	--		79,178		181	57,056
CUT STRUCTURAL AND PLATE--	16,906	1,065		2,114	--		21,918		--	13,763
NO.1 HEAVY MELTING STEEL--	13,540	659		6,538	33		23,224		--	17,394
NO.2 HEAVY MELTING STEEL--	8,240	--		1,426	--		9,182		--	4,944
NO.1 AND ELECTRIC FURNACE BUNDLES--	2,500	--		207	--		2,911		--	1,079
NO.2 AND ALL OTHER BUNDLES--	613	--		--	--		627		--	1,787
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)--	5,267	100		1,236	--		6,606		78	3,648
RAILROAD RAILS--	84	--		--	--		166		--	10
TURNINGS AND BORINGS--	5,125	551		1,429	--		6,164		114	5,395
SLAG SCRAP (FE CONTENT 70 PERCENT)--	--	--		196	--		170		10	185
SHREDDER OR FRAGMENTIZED--	5,841	1,779		--	--		7,719		--	2,598
NO. 1 BUSHELING--	2,255	1,164		277	--		3,670		--	3,666
ALL OTHER CARBON STEEL SCRAP--	36,078	3,363		31,664	137		74,616		2,375	45,564
STAINLESS STEEL SCRAP--	2,095	46		2,408	--		3,914		448	4,638
ALLOY STEEL (EXCEPT STAINLESS)--	4,669	435		9,942	100		15,953		--	23,186
INGOT MOLD AND STOOL SCRAP--	497	--		34	--		409		28	1,190
MACHINERY AND CUPOLA CAST IRON--	471	--		364	--		925		--	988
CAST IRON BORINGS--	4,521	139		2,508	--		6,834		70	4,925
MOTOR BLOCKS--	24	--		--	--		83		--	114
OTHER IRON SCRAP--	3,299	1,136		6,373	--		10,192		--	14,301
OTHER MIXED SCRAP--	19	--		430	--		430		--	62
TOTAL SCRAP--	168,098	10,910		87,361	270		274,891		3,304	206,493
TOTAL SCRAP THROUGH FEBRUARY 1979--	331,105	25,115		172,424	446		548,813		8,431	206,493
PIG IRON--	3,660	--		--	--		3,987		52	5,333
PIG IRON THROUGH FEBRUARY 1979--	7,921	--		--	--		7,961		52	5,333

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

2/ BASED ON RETURNS FROM 82% 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, FEBRUARY 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 SCRAP (INCLUDES INGOT MOLD, STOOLS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	RESULTING FROM CURRENT OPERATIONS	OBsolete SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	OF BOTH PURCHASED AND RE- SHIPMENTS OF SCRAP				
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	76,839	11,537		8,022	46	99,464	1,252	42,145		
CUT STRUCTURAL AND PLATE-----	156,901	7,351		14,648	--	179,032	370	106,508		
NO.1 HEAVY MELTING STEEL-----	19,891	7,537		5,818	--	29,686	2,494	52,849		
NO.2 HEAVY MELTING STEEL-----	5,890	235		2,557	48	8,875	107	4,875		
NO.1 AND ELECTRIC FURNACE BUNDLES---	18,229	21,137		6,055	41	39,931	--	16,858		
NO.2 AND ALL OTHER BUNDLES-----	45,921	--		--	--	47,666	--	38,147		
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	18,781	7,999		256	--	24,978	--	11,956		
RAILROAD RAILS-----	10,611	--		24	--	10,820	24	10,767		
TURNINGS AND BORINGS-----	46,104	9,636		1,675	2	62,463	1,564	80,915		
SLAG SCRAP (FE CONTENT 70 PERCENT)---	6,404	--		45	--	7,034	45	22,032		
SHREDDER OR FRAGMENTIZED-----	74,414	4,703		3,601	--	30,199	583	37,652		
NO. 1 BUSHING-----	30,738	4,362		1,192	--	38,410	1,520	16,998		
ALL OTHER CARBON STEEL SCRAP-----	77,937	53,791		14,642	4	166,983	480	98,976		
STAINLESS STEEL SCRAP-----										
ALLOY STEEL (EXCEPT STAINLESS)-----	307	1		718	2	964	49	1,617		
INGOT MOLD AND STUOL SCRAP-----	6,503	--		398	111	6,521	262	8,153		
MACHINERY AND CUPOLA CAST IRON -----	17,532	87		9,897	266	21,223	324	44,592		
CAST IRON BORINGS-----	76,039	6,738		65,634	28	146,182	333	85,106		
MOTOR BLOCKS-----	59,220	52,065		42,915	42	150,623	5,545	78,991		
OTHER IRON SCRAP-----	57,404	2,313		38,467	--	97,129	300	64,448		
OTHER MIXED SCRAP-----	108,559	4,563		297,605	1,360	407,568	16,019	185,500		
	39,876	74,716		30,399	413	139,691	489	62,751		
TOTAL SCRAP-----	954,100	268,771		544,568	2,363	1,765,442	31,760	1,071,836		
TOTAL SCRAP THROUGH FEBRUARY 1979---	1,904,976	490,544		1,090,505	4,965	3,490,461	57,023	1,071,836		
PIG IRON-----										
	RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS
	225,794			--			230,053			111,811
PIG IRON THROUGH FEBRUARY 1979-----										
	461,350			--			470,817			111,811
1/ BASED ON RETURNS FROM 74% OF REPORTING CONSUMERS, REPRESENTING 93% OF SCRAP CONSUMPTION.										

TABLE 9. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN FEBRUARY 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	
	PIG IRON		PIG IRON		PIG IRON		PIG IRON	
	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON
BLAST FURNACE 3/--	240,830	--	--	--	--	--	240,830	--
BASIC OXYGEN PROCESS 4/----	1,991,472	5,191,182	--	--	--	--	1,991,472	5,191,182
OPEN-HEARTH FURNACE-----	877,380	1,038,077	--	--	--	--	883,349	1,038,322
ELECTRIC FURNACE-----	2,672,060	42,162	5,969	245	--	--	3,500,357	71,406
CUPOLA FURNACE-----	34,665	9,117	258,004	3,299	570,293	25,945	1,198,147	86,798
OTHER (INCLUDING AIR FURNACE)5/	71,327	26,150	8,678	55	1,154,804	77,626	113,912	29,596
DIRECT CASTINGS 6/-----	--	137,585	2,240	388	40,345	3,058	--	261,009
TOTAL-----	5,887,734	6,444,273	274,891	3,987	1,765,442	230,053	7,928,067	6,678,313

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 STODLS.

FOREIGN TRADE

Exports of iron and steel scrap totaled 870,680 short tons in March compared with 1,145,241 tons in February. Exports of pig iron during March totaled 1,924 tons and 4,503 tons in February. Imports of scrap totaled 68,465 short tons in March compared with 48,352 tons in February. Of the scrap imported during March 65,184 short tons came from Canada and 3,281 tons from other sources. Imports of pig iron totaled 38,212 short tons in March and 33,452 tons in February. In addition to the foregoing imports of pig iron during March, there were 3 tons of sponge iron, valued at \$3,035 imported from Canada.

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

Country	March 1979		Year to date	
	Short tons	Value	Short tons	Value
Canada-----	79,329	\$5,823,058	251,015	\$14,115,099
Germany, Federal Rep. of-----	542	239,731	28,744	2,944,030
Greece-----	49,017	5,772,628	104,291	11,271,620
Indonesia-----	--	--	19,317	1,932,871
Italy-----	34,467	4,014,172	149,237	14,140,612
Japan-----	318,810	34,374,085	1,270,369	123,769,640
Korea, Republic of-----	152,548	16,532,264	343,229	34,327,397
Mexico-----	56,519	6,162,423	197,819	20,026,450
Singapore-----	--	--	19	5,440
Spain-----	105,313	8,083,182	261,843	21,686,364
Taiwan-----	19,193	2,999,880	145,630	8,793,268
Turkey-----	22,042	1,785,558	81,228	6,999,473
United Kingdom-----	2,856	296,511	4,084	495,584
Other countries-----	30,044	4,208,550	52,543	7,195,117
Total-----	870,680	90,292,042	2,909,368	267,702,965

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	March 1979		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	232,712	\$24,205,819	708,131	\$66,644,931
No. 2 heavy melting steel scrap-----	82,591	7,522,988	281,101	24,350,111
No. 1 bundles-----	14,050	1,619,916	43,441	4,213,670
No. 2 bundles-----	68,516	4,585,698	192,993	12,913,791
Borings, shovelings and turnings-----	34,311	1,873,176	132,780	7,775,448
Stainless steel-----	4,092	1,987,438	58,012	8,838,095
Shredded steel scrap-----	208,448	23,098,986	787,628	78,578,884
Iron scrap (excluding borings and shovelings)	48,282	4,674,392	146,572	13,837,578
All other steel scrap <u>1/-</u>	177,678	20,723,629	558,710	50,550,457
Total-----	870,680	90,292,042	2,909,368	267,702,965
Ships, boats, and other vessels for breaking up (for scrapping)-----	7,373	357,630	31,571	1,708,563
Total-----	878,053	90,649,672	2,940,939	269,411,528

1/ Includes tinplate and terneplate.

Source: U.S. Bureau of Census.