



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 FEBRUARY 1977

Returns from 81% of reporting consumers representing 96% of total scrap consumption, indicated that consumption of iron and steel scrap in February on a daily average basis was 9% above that in January, according to the Bureau of Mines, U.S. Department of the Interior. Compared with January data, daily average production and net receipts were up 14% and 17%, respectively, and stocks at the end of the month were up 1%.

Exports (453,000 short tons) of ferrous scrap during the month were 8% below those for January 1977 and 29% below those for February 1976. The Republic of Korea was the largest importer of U.S. scrap, taking 29% of the total exported in February 1977. The next largest importers were Spain and Japan, which received 16% and 13%, respectively.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of February was \$72.17 per long ton, down 9% from the price of \$79.50 at the end of February 1976. From mid-March to mid-April both the rate of raw steel production and the steel scrap composite price remained essentially unchanged.

Pig iron production and consumption on a daily average basis during the month were both up 8% from that of the previous month. Stocks of pig iron decreased 1% during February compared with those at the end of January 1977.

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

FEBRUARY 1977 (PRELIMINARY) 1/					

MFRS. OF					
PIG IRON AND					
STEEL INGOTS					
6 CASTINGS 2/					

MFRS. OF					
IRON FOUNDRIES					
AND MISCEL-					
LANEOUS USERS					

TOTAL FOR					
MONTH OF					
FEB 1977					

FINAL					
TOTAL FOR					
MONTH OF					
JAN 1977 4/					

TOTAL YEAR					
THROUGH					
FEB 1977 5/					

SCRAP1					
RECEIPTS FROM DEALERS AND OTHER SOURCES	1,841,471	139,137	857,049	2,837,687	2,733,934
RECEIPTS FROM OTHER OWN COMPANY PLANTS-	400,225	7,803	292,988	701,016	603,712
PRODUCTION RECIRCULATING SCRAP-----	2,852,770	77,394	481,753	3,411,917	3,332,327
PRODUCTION OBSOLETE SCRAP-----	169,979	558	8,120	178,657	164,246
CONSUMPTION-----	4,863,354	222,979	1,574,005	6,660,338	6,735,018
SHIPMENTS-----	346,036	1,788	23,071	370,895	339,716
STOCKS END OF MONTH-----	8,465,478	240,657	1,125,177	9,831,312	9,723,086
PIG IRON1					
RECEIPTS-----	395,094	3,134	203,788	602,016	605,700
PRODUCTION-----	5,826,953	--	--	5,826,953	5,984,147
CONSUMPTION-----	5,654,023	3,007	203,591	5,860,621	5,984,352
SHIPMENTS-----	576,560	--	401	576,961	587,040
STOCKS END OF MONTH-----	1,393,586	7,078	120,329	1,520,993	1,529,773
2 DIRECT-REDUCED OR PREREDUCED IRON1					
RECEIPTS-----	--	--	--	13,756	19,088
PRODUCTION-----	--	--	--	--	--
CONSUMPTION-----	--	--	--	13,592	19,332
SHIPMENTS-----	--	--	--	--	--
STOCKS END OF MONTH-----	--	--	--	3,955	4,141

1/ BASED ON RETURNS FROM 81% 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 89% 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, FEBRUARY 1977 (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	FROM SCRAP RESULTING FROM CURRENT OPERATIONS	RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT MOLDS, STTOOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	CHASED AND HOME SCRAP (INCLUDES RE-CIRCULATING SCRAP)	SHIPMENTS OF SCRAP				
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	34,827	443	2,434	390	37,958	2,455				75,326
CUT STRUCTURAL AND PLATE-----	15,173	--	21,945	42	39,300	18				43,387
NO.1 HEAVY MELTING STEEL-----	378,390	180,732	1,262,879	6,892	1,685,048	178,402				2,410,828
NO.2 HEAVY MELTING STEEL-----	134,280	13,197	90,186	2,306	262,821	1,740				500,232
NO.1 AND ELECTRIC FURNACE BUNDLES----	484,502	41,696	169,927	1,118	600,033	3,138				1,628,004
NO.2 AND ALL OTHER BUNDLES-----	131,961	10,621	16,257	--	137,585	2,996				346,100
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	1,568	--	4,458	--	5,946	--				7,047
RAILROAD RAILS-----	10,285	--	--	--	11,221	--				14,094
TURNINGS AND BORINGS-----	80,599	4,566	23,746	76	97,789	12,258				98,120
SLAG SCRAP (FE CONTENT 70 PERCENT)----	99,743	4,033	171,599	--	263,502	5,052				321,994
SHREDDED OR FRAGMENTIZED-----	120,959	28,455	564	--	173,522	--				199,150
ALL OTHER CARBON STEEL SCRAP-----	240,066	9,513	799,629	21,096	993,067	42,902				1,163,534
STAINLESS STEEL SCRAP-----										
ALLOY STEEL (EXCEPT STAINLESS)-----	32,404	2,782	45,841	89	72,711	2,654				82,671
INGOT MOLD AND STUOL SCRAP-----	12,486	12,998	110,983	877	127,745	6,039				283,744
MACHINERY AND CUPOLA CAST IRON -----	14,811	66,949	45,675	132,366	245,287	41,578				959,598
CAST IRON BORINGS-----	920	--	--	--	634	--				4,064
MOTOR BLOCKS-----	13,107	12,845	24,789	3,673	44,909	11,982				77,703
OTHER IRON SCRAP-----	231	--	--	--	834	21				1,681
OTHER MIXED SCRAP-----	16,269	7,243	43,738	1,094	37,488	27,027				151,368
	18,850	4,152	18,120	--	25,934	7,774				96,833
TOTAL SCRAP-----	1,841,471	400,225	2,852,770	169,979	4,863,354	346,036				8,465,478
TOTAL SCRAP THROUGH FEBRUARY 1977----	3,616,882	776,364	5,651,802	326,323	9,842,016	664,184				8,465,478
PIG IRON-----										
	RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS
	395,094			5,826,953			5,654,023			1,393,586
PIG IRON THROUGH FEBRUARY 1977-----	799,797			11,811,100			11,434,798			1,393,586
1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS.										
2/ BASED ON RETURNS FROM 93% 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, BY GRADE, FEBRUARY 1977 (PRELIMINARY) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP		PRODUCTION OF HOME SCRAP			CONSUMPTION OF BOTH PURCHASED AND HOME SCRAP (INCLUDES RE-CIRCULATING SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	SHIPMENTS	ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RECYCLING SCRAP (INCLUDES INGOT MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-SCRAP)	OBsolete SCRAP (INCLUDES INGOT CHASED AND RESULTING FROM CURRENT OPERATIONS BUILDINGS, ETC.)				
SCRAP:								
CARBON STEEL-								
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	40,311	335	13,785	--	60,310	1	68,751	
CUT STRUCTURAL AND PLATE-----	13,447	1,858	1,935	--	17,024	70	19,583	
NO.1 HEAVY MELTING STEEL-----	7,391	132	5,054	--	13,030	3	29,927	
NO.2 HEAVY MELTING STEEL-----	3,692	--	1,629	--	5,491	--	3,664	
NO.1 AND ELECTRIC FURNACE BUNDLES----	6,071	--	42	--	4,901	--	5,311	
NO.2 AND ALL OTHER BUNDLES-----	108	--	--	--	203	--	460	
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	4,355	146	1,275	--	5,709	92	5,570	
RAILROAD RAILS-----	--	--	--	--	3	--	125	
TURNINGS AND BORINGS-----	4,735	808	2,140	--	6,813	1,021	3,390	
SLAG SCRAP (FE CONTENT 70 PERCENT)----	482	--	487	--	992	12	103	
SHREDDER OR FRAGMENTIZED-----	6,675	1,855	--	--	8,352	--	6,033	
ALL OTHER CARBON STEEL SCRAP-----	40,323	1,641	27,046	475	66,965	72	44,441	
STAINLESS STEEL SCRAP-----								
ALLOY STEEL (EXCEPT STAINLESS)-----	1,910	367	2,052	--	3,900	266	6,774	
INGOT MOLD AND STOOL SCRAP-----	2,567	661	9,948	--	10,690	--	19,507	
MACHINERY AND CUPOLA CAST IRON -----	28	--	16	--	223	16	511	
CAST IRON BORINGS-----	534	--	1,021	--	1,685	--	2,295	
MOTOR BLOCKS-----	4,313	--	4,980	--	8,824	--	3,463	
OTHER IRON SCRAP-----	200	--	--	--	80	--	231	
OTHER MIXED SCRAP-----	1,995	--	5,643	83	7,434	235	20,511	
	--	--	341	--	350	--	7	
TOTAL SCRAP-----	139,137	7,803	77,394	558	222,979	1,788	240,657	
TOTAL SCRAP THROUGH FEBRUARY 1977----	250,448	15,680	155,013	1,138	442,358	3,330	240,657	
PIG IRON-----								
	3,134	--	--	--	3,007	--	7,078	
PIG IRON THROUGH FEBRUARY 1977-----	6,815	--	--	--	6,219	--	7,078	

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

2/ BASED ON RETURNS FROM 78% OF REPORTING CONSUMERS, REPRESENTING 88% 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, FEBRUARY 1977 (PRELIMINARY) 1/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION			ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER COMPANY PLANTS	FROM OTHER OWN	RECYCLATING SCRAP RESULTING FROM CURRENT OPERATIONS	OBsolete SCRAP (INCLUDES INGOT AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	CHASED AND HOME SCRAP (INCLUDES RE-SCRAP)	SHIPMENTS	CONSUMPTION		
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS----										
CUT STRUCTURAL AND PLATE-----	61,511	9,803		6,565	18	76,117	704			64,978
NO.1 HEAVY MELTING STEEL-----	116,400	8,589		12,167	39	134,297	264			97,570
NO.2 HEAVY MELTING STEEL-----	23,263	9,635		5,156	--	37,343	3,234			51,312
NO.1 AND ELECTRIC FURNACE BUNDLES---	4,064	188		1,421	51	5,975	68			4,180
NO.2 AND ALL OTHER BUNDLES-----	14,937	14,624		4,757	15	36,189	--			12,016
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	53,600	6,960		507	--	50,384	--			59,484
RAILROAD RAILS-----	5,085	--		1,415	--	5,920	--			5,556
TURNINGS AND BORINGS-----	9,998	--		24	--	9,424	24			18,295
SLAG SCRAP (FE CONTENT 70 PERCENT)---	60,512	8,546		1,490	50	55,729	1,812			98,278
SHREDDED OR FRAGMENTIZED-----	9,443	--		62	--	5,106	62			22,884
ALL OTHER CARBON STEEL SCRAP-----	75,942	15,987		--	--	84,160	--			63,265
	121,695	80,873		13,036	7	217,052	866			129,939
STAINLESS STEEL SCRAP-----										
ALLOY STEEL (EXCEPT STAINLESS)-----	565	3		479	4	739	19			11,070
INGOT MOLD AND STUOL SCRAP-----	6,217	17		621	79	6,034	253			3,844
MACHINERY AND CUPOLA CAST IRON -----	10,853	--		9,786	708	21,950	1,128			29,645
MOTOR BLOCKS-----	66,441	12,657		57,776	63	134,389	1,152			87,200
OTHER IRON SCRAP-----	44,841	47,698		21,196	20	116,221	3,995			80,132
OTHER MIXED SCRAP-----	55,182	3,792		37,726	--	94,763	159			58,395
	86,277	6,246		280,913	6,680	362,948	8,872			180,885
	30,223	67,370		26,656	386	119,265	459			46,249
TOTAL SCRAP-----	857,049	292,988		481,753	8,120	1,574,005	23,071			1,125,177
TOTAL SCRAP THROUGH FEBRUARY 1977---	1,694,261	512,684		937,429	15,442	3,110,982	43,097			1,125,177
PIG IRON-----										
	RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS
	203,788			--			203,591			
PIG IRON THROUGH FEBRUARY 1977-----	401,104			--			403,956			120,329

TABLE 3. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN FEBRUARY 1977 (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/	244,829	--	--	--	--	--	244,829	--
BASIC OXYGEN PROCESS 4/	1,764,867	4,649,360	--	--	--	--	1,764,867	4,649,360
OPEN-HEARTH FURNACE	716,613	781,719	484	--	--	--	722,607	782,203
ELECTRIC FURNACE	2,055,970	56,434	5,994	2,312	442,970	22,066	2,702,287	80,812
CUPOLA FURNACE	29,746	18,204	203,347	35	1,072,871	79,707	1,114,979	97,946
OTHER (INCLUDING AIR FURNACE) 5/	51,329	21,861	12,362	176	58,164	2,440	110,769	24,477
DIRECT CASTINGS 6/	--	126,445	1,276	--	--	99,378	--	225,823
TOTAL	4,863,354	5,654,023	222,979	3,007	1,574,005	203,591	6,660,338	5,860,621

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, JANUARY 1977 (FINAL) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION OF BOTH PUR-			ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STTOOLS, HOME SCRAP AND SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STTOOLS, HOME SCRAP AND SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STTOOLS, HOME SCRAP AND SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STTOOLS, HOME SCRAP AND SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STTOOLS, HOME SCRAP AND SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STTOOLS, HOME SCRAP AND SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STTOOLS, HOME SCRAP AND SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	45,227	120	3,225	316	46,863	2,568	77,912			
CUT STRUCTURAL AND PLATE-----	27,612	19	17,865	--	31,257	37	43,605			
NO.1 HEAVY MELTING STEEL-----	315,097	165,649	1,232,361	5,541	1,681,162	158,675	2,429,102			
NO.2 HEAVY MELTING STEEL-----	129,416	11,796	89,878	95	244,681	2,286	517,295			
NO.1 AND ELECTRIC FURNACE BUNDLES----	422,449	46,043	201,201	878	698,284	10,003	1,542,455			
NO.2 AND ALL OTHER BUNDLES-----	127,398	7,915	18,453	--	161,564	6,921	325,707			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	769	--	4,053	--	5,543	--	6,967			
RAILROAD RAILS-----	17,559	--	--	--	6,124	--	15,060			
TURNINGS AND BORINGS-----	65,659	4,852	22,817	96	96,797	3,320	100,725			
SLAG SCRAP (FE CONTENT 70 PERCENT)----	66,530	17,413	165,577	--	254,183	5,121	315,391			
SHREDDED OR FRAGMENTIZED-----	215,408	27,789	945	--	177,978	--	218,179			
ALL OTHER CARBON STEEL SCRAP-----	241,215	6,888	748,468	18,587	1,006,355	35,777	1,135,798			
STAINLESS STEEL SCRAP-----	26,005	1,987	52,214	7	84,597	2,705	77,212			
ALLOY STEEL (EXCEPT STAINLESS)-----	8,775	14,048	108,943	704	119,873	5,432	280,141			
INGOT MOLD AND STOOL SCRAP-----	19,277	56,051	55,601	126,594	265,343	44,991	985,220			
MACHINERY AND CUPOLA CAST IRON -----	2,167	--	--	--	820	--	3,778			
CAST IRON BORINGS-----	12,616	4,108	24,821	3,064	36,838	5,962	80,182			
MOTOR BLOCKS-----	894	--	--	--	712	44	2,141			
OTHER IRON SCRAP-----	16,420	7,428	40,053	461	37,366	28,480	149,809			
OTHER MIXED SCRAP-----	14,918	4,033	12,557	1	22,322	5,826	92,374			
TOTAL SCRAP-----	1,775,411	376,139	2,799,032	156,344	4,978,662	318,148	8,399,053			
TOTAL SCRAP THROUGH JANUARY 1977----	1,775,411	376,139	2,799,032	156,344	4,978,662	318,148	8,399,053			
PIG IRON-----	404,703		5,984,147		5,780,775	586,608	1,402,306			
PIG IRON THROUGH JANUARY 1977-----	404,703		5,984,147		5,780,775	586,608	1,402,306			

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS
2/ BASED ON RETURNS FROM 97% 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, JANUARY 1977 (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 SCRAP RESULTING FROM CURRENT OPERATIONS	RECYCLING SCRAP (INCLUDES INGOT AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	OBsolete SCRAP	OF BOTH PURCHASED AND HOME SCRAP	SHIPMENTS OF SCRAP	STOCKS		
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS	36,135	517	12,813	56	56,668	81	72,903			
CUT STRUCTURAL AND PLATE	11,001	1,915	1,920	--	16,208	60	19,229			
NO.1 HEAVY MELTING STEEL	8,994	50	4,706	--	12,568	--	30,485			
NO.2 HEAVY MELTING STEEL	3,467	--	1,100	--	4,141	--	3,833			
NO.1 AND ELECTRIC FURNACE BUNDLES	4,516	--	42	--	4,048	--	4,474			
NO.2 AND ALL OTHER BUNDLES	--	89	--	--	145	--	555			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	3,399	146	1,332	--	4,690	60	5,636			
RAILROAD RAILS	20	--	--	--	2	--	128			
TURNINGS AND BORINGS	4,216	890	2,084	--	6,325	869	3,624			
SLAG SCRAP (FE CONTENT 70 PERCENT)	499	--	394	--	871	20	138			
SHREDDER OR FRAGMENTIZED	6,985	1,604	--	--	9,802	--	5,790			
ALL OTHER CARBON STEEL SCRAP	31,745	1,964	28,950	498	70,012	218	39,892			
STAINLESS STEEL SCRAP-										
ALLOY STEEL (EXCEPT STAINLESS)	1,307	400	1,951	--	3,524	189	5,884			
INGOT MOLD AND STUOL SCRAP	2,453	702	10,232	--	10,887	--	20,815			
MACHINERY AND CUPOLA CAST IRON	390	--	4	--	275	20	651			
CAST IRON BORINGS	528	--	1,006	--	1,630	--	2,317			
MOTOR BLOCKS	3,574	--	4,883	--	8,796	2	2,999			
OTHER IRON SCRAP	82	--	--	--	82	--	111			
OTHER MIXED SCRAP	1,990	--	6,229	26	8,312	23	20,909			
	10	--	373	--	373	--	16			
TOTAL SCRAP	121,311	7,877	77,619	580	219,379	1,542	239,959			
TOTAL SCRAP THROUGH JANUARY 1977	121,311	7,877	77,619	580	219,379	1,542	239,959			
PIG IRON										
	RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS
	3,681			--			3,212			6,949
PIG IRON THROUGH JANUARY 1977	3,681			--			3,212			6,949

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

2/ BASED ON RETURNS FROM 89% 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 STEEL SCRAP, BY GRADE, JANUARY 1977 (FINAL) 1/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP		PRODUCTION OF HOME SCRAP				ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RECYCLATING SCRAP (INCLUDES INGOT MOLD, STUOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING SCRAP)	OBSELETE SCRAP (INCLUDES CHASED AND HOME SCRAP)	CONSUMPTION OF BOTH PURCHASED AND HOME SCRAP (INCLUDES RE-CIRCULATING SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	SHIPMENTS	
SCRAP:							
CARBON STEEL--							
LOW-PHOSPHORUS PLATE AND PUNCHINGS---							
CUT STRUCTURAL AND PLATE-----	55,551	9,378	6,323	5	71,138	692	64,569
NO.1 HEAVY MELTING STEEL-----	109,980	7,610	12,535	42	130,039	334	94,678
NO.2 HEAVY MELTING STEEL-----	18,524	10,183	3,634	5	38,146	3,107	53,871
NO.1 AND ELECTRIC FURNACE BUNDLES---	5,435	447	2,573	49	8,723	55	4,448
NO.2 AND ALL OTHER BUNDLES-----	19,552	9,552	4,231	41	29,942	--	13,746
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	44,338	7,572	537	--	38,610	--	48,807
RAILROAD RAILS-----	4,656	--	1,160	--	5,209	--	4,976
TURNINGS AND BORINGS-----	16,211	--	24	--	9,010	24	18,014
SLAG SCRAP (FE CONTENT 70 PERCENT)---	60,556	8,052	1,678	55	56,398	2,229	94,440
SHREDDED OR FRAGMENTIZED-----	7,124	--	41	--	10,361	41	18,564
ALL OTHER CARBON STEEL SCRAP-----	75,134	13,928	--	--	76,278	--	55,282
	128,016	70,002	11,799	7	215,657	326	128,266
STAINLESS STEEL SCRAP-----							
ALLOY STEEL (EXCEPT STAINLESS)---	349	3	561	--	601	18	10,893
INGOT MOLD AND STOOL SCRAP-----	6,418	4	427	73	5,879	106	3,368
MACHINERY AND CUPOLA CAST IRON ---	11,657	--	9,730	585	21,331	666	30,737
CAST IRON BORINGS-----	67,474	11,280	51,524	108	130,385	1,802	86,964
MOTOR BLOCKS-----	43,008	38,887	21,904	27	115,494	3,393	82,930
OTHER IRON SCRAP-----	53,788	3,382	31,465	--	87,430	--	55,434
OTHER MIXED SCRAP-----	82,642	5,369	265,171	6,043	354,850	6,887	173,609
	26,799	24,047	30,359	282	131,496	346	40,478
TOTAL SCRAP-----	837,212	219,696	455,676	7,322	1,536,977	20,026	1,084,074
TOTAL SCRAP THROUGH JANUARY 1977---	837,212	219,696	455,676	7,322	1,536,977	20,026	1,084,074
PIG IRON-----							
	197,316	--	--	--	200,365	432	120,518
PIG IRON THROUGH JANUARY 1977-----	197,316	--	--	--	200,365	432	120,518
1/ BASED ON RETURNS FROM 87% OF REPORTING CONSUMERS, REPRESENTING 96% OF SCRAP CONSUMPTION.							

TABLE 9. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN JANUARY 1977 (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
BLAST FURNACE 3/	199,552												199,552	
BASIC OXYGEN PROCESS 4/	1,804,392		4,663,001										1,804,392	4,663,001
OPEN-HEARTH FURNACE	862,194		927,004		5,996								868,190	927,615
ELECTRIC FURNACE	2,033,943		43,784		200,540		2,383		434,938		20,385		2,669,421	66,552
CUPOLA FURNACE	20,493		16,422		11,300		32		1,043,799		72,436		1,075,592	88,890
OTHER (INCLUDING AIR FURNACE) 5/	58,088		26,416		1,543		186		58,240		2,834		117,871	29,436
DIRECT CASTINGS 6/			104,148								104,710			208,858
TOTAL	4,978,662	5,780,775			219,379	3,212			1,536,977	200,365			6,735,018	5,984,352

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.

FOREIGN TRADE

Exports of iron and steel scrap totaled 453,131 short tons in February compared with 490,878 tons in January. Exports of pig iron during February totaled 3,065 tons and 4,105 tons in January. Imports of scrap totaled 52,961 short tons in February compared with 54,713 tons in January. Of the scrap imported during February 30,447 short tons came from Canada and 22,514 tons from other sources. Imports of pig iron totaled 19,538 short tons in February and 6,284 tons in January. There were no imports of sponge iron during February.

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

Country	February 1977		Year to date	
	Short tons	Value	Short tons	Value
Argentina-----	--	--	--	--
Canada-----	51,011	\$2,383,293	96,720	\$4,371,476
China, People's Rep. of--	--	--	--	--
Greece-----	6,630	441,592	26,754	1,625,520
Italy-----	2,827	1,576,465	2,907	1,635,802
Japan-----	60,504	4,100,784	222,862	14,581,619
Korea, Republic of-----	129,211	8,156,755	226,369	13,910,522
Mexico-----	54,288	3,840,976	77,278	5,513,865
Pakistan-----	97	88,288	341	190,235
Spain-----	71,549	3,793,925	125,438	7,397,186
Sweden-----	203	103,840	260	153,593
Taiwan-----	37,242	3,005,075	44,034	3,782,793
Turkey-----	8,424	518,324	46,358	3,117,110
United Kingdom-----	9,075	1,180,506	38,965	4,398,244
Other countries-----	22,070	1,836,826	35,723	3,243,428
Total-----	453,131	31,026,649	944,009	63,921,393

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

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

Grade of scrap	February 1977		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	98,691	\$5,969,658	272,914	\$16,840,969
No. 2 heavy melting steel scrap-----	45,741	2,623,484	137,903	8,059,323
No. 1 bundles-----	1,572	105,868	1,792	119,508
No. 2 bundles-----	25,281	1,266,246	41,211	2,037,261
Borings, shovelings and turnings-----	25,305	862,499	42,867	1,458,959
Stainless steel-----	5,604	3,100,174	11,565	5,154,118
Shredded steel scrap-----	142,155	9,644,695	270,631	18,590,653
Iron scrap (excluding borings and shovelings)--	33,191	2,150,789	53,258	3,580,204
All other steel scrap <u>1/</u> ---	75,591	5,303,236	111,868	8,080,398
Total-----	453,131	31,026,649	944,009	63,921,393
Ships, boats, and other vessels for breaking up (for scrapping)-----	21	3,050	25	4,850
Total-----	453,152	31,029,699	944,034	63,926,243

1/ Includes tinplate and terneplate.