



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 1978

Returns from 75% of reporting consumers representing 89% of total scrap consumption, indicated that consumption of iron and steel scrap in February on a daily average basis was 7% 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 8% and 16%, respectively, and stocks at the end of the month were down 1%.

Exports of ferrous scrap during the month were 31% below those for January 1978 and 2% below those for February 1977. Japan was the largest importer of U.S. scrap, taking 42% of the total exported in February 1978. The next largest importers were the Republic of Korea and Canada, which received 21% and 10%, respectively.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of February 1978 was \$71.50 per long ton, down 1% from the price of \$72.17 at the end of February 1977.

Pig iron production and consumption on a daily average basis during the month were up 6% and 4%, respectively, from those of the previous month. Stocks of pig iron decreased 6% during February compared with those at the end of January 1978.

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 1978 (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 FEB 1978	TOTAL FOR MONTH OF JAN 1978 4/	TOTAL YEAR THROUGH FEB 1978 5/
SCRAP:						
RECEIPTS FROM DEALERS AND OTHER SOURCES	2,121,725	145,092	835,511	3,102,328	2,954,988	6,057,316
RECEIPTS FROM OTHER OWN COMPANY PLANTS-	404,858	9,144	309,665	723,667	724,038	1,447,705
PRODUCTION RECIRCULATING SCRAP-----	2,986,376	78,934	473,461	3,538,771	3,618,593	7,157,364
PRODUCTION OBSOLETE SCRAP-----	187,059	571	9,700	196,330	205,756	402,086
CONSUMPTION-----	5,486,545	241,532	1,593,310	7,321,387	7,541,235	14,862,622
SHIPMENTS-----	395,119	1,522	25,682	423,323	432,326	855,649
STOCKS END OF MONTH-----	7,497,559	238,739	1,066,274	8,802,572	8,922,882	--
PIG IRON:						
RECEIPTS-----	363,008	3,923	206,170	573,101	616,328	1,189,429
PRODUCTION-----	6,038,539	--	--	6,038,539	6,296,985	12,335,524
CONSUMPTION-----	5,837,947	3,995	211,522	6,053,464	6,452,077	12,505,541
SHIPMENTS-----	629,314	18	880	630,212	503,521	1,133,733
STOCKS END OF MONTH-----	1,075,652	6,136	117,677	1,199,455	1,271,286	--
DIRECT-REDUCED OR PREREDUCED IRON:						
RECEIPTS-----	--	--	--	4,446	18,420	22,866
PRODUCTION-----	--	--	--	--	--	--
CONSUMPTION-----	--	--	--	5,105	18,675	23,780
SHIPMENTS-----	--	--	--	--	--	--
STOCKS END OF MONTH-----	--	--	--	1,303	1,962	--

1/ BASED ON RETURNS FROM 75% OF REPORTING CONSUMERS, REPRESENTING 89% 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 1978 (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	FROM RECYCLATING SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STTOOLS, HOME SCRAP FROM AND SCRAP FROM (INCLUDES RE- OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.) SCRAP)	RECIRCULATING OBSOLETE SCRAP OF BOTH PUR- CHASED AND HOME SCRAP	FROM RECYCLATING SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STTOOLS, HOME SCRAP FROM AND SCRAP FROM (INCLUDES RE- OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.) SCRAP)	SHIPMENTS	ENDING STOCKS			
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	37,772	1,196	2,303	510	40,974	2,825	100,392			
CUT STRUCTURAL AND PLATE----	31,032	12,019	15,870	--	66,256	--	45,714			
NO.1 HEAVY MELTING STEEL----	473,364	211,921	1,350,321	4,083	1,915,161	165,993	2,352,988			
NO.2 HEAVY MELTING STEEL----	178,353	3,381	100,570	152	277,018	15,181	433,936			
NO.1 AND ELECTRIC FURNACE BUNDLES----	506,238	42,223	202,841	22	788,031	6,691	1,573,137			
NO.2 AND ALL OTHER BUNDLES----	154,666	7,525	1,719	--	149,092	1,931	263,527			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)----	3,160	--	--	--	2,471	--	3,012			
RAILROAD RAILS----	11,338	--	--	--	9,808	--	2,160			
TURNINGS AND DORINGS----	124,091	4,677	28,978	33	135,652	8,114	113,411			
SLAG SCRAP (FE CONTENT 70 PERCENT)----	80,496	829	154,536	290	213,679	6,691	176,634			
SHREDDED OR FRAGMENTIZED----	124,962	29,868	668	191	178,189	--	154,064			
NO. 1 BUSHING----	114,949	2,534	494	--	127,190	--	169,704			
ALL OTHER CARBON STEEL SCRAP----	142,866	12,424	800,651	29,475	937,656	88,333	904,478			
STAINLESS STEEL SCRAP----	30,659	3,582	51,157	4	79,301	5,451	88,387			
ALLOY STEEL (EXCEPT STAINLESS)----	13,943	17,867	127,880	97	146,982	15,156	302,850			
INGOT MOLD AND STUOL SCRAP----	19,719	32,249	73,335	144,030	265,538	57,002	541,229			
MACHINERY AND CUPOLA CAST IRON----	524	--	--	--	738	--	3,711			
CAST IRON BORINGS----	35,199	5,393	27,773	5,911	55,455	8,499	80,814			
MOTOR BLOCKS----	--	--	69	--	537	--	1,102			
OTHER IRON SCRAP----	16,406	14,531	35,568	2,253	65,435	10,350	141,194			
OTHER MIXED SCRAP----	21,988	2,639	11,643	8	31,182	2,903	44,715			
TOTAL SCRAP-----	2,121,725	404,858	2,986,376	197,059	5,486,545	395,119	7,497,559			
TOTAL SCRAP THROUGH FEBRUARY 1978----	4,172,970	844,686	6,076,182	382,651	11,258,676	804,957	7,497,559			
PIG IRON-----	363,008		6,038,539		5,837,947	629,314	1,075,652			
PIG IRON THROUGH FEBRUARY 1978----	794,473		12,335,524		12,098,073	1,132,184	1,075,652			

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS.
2/ BASED ON RETURNS FROM 89% OF REPORTING CONSUMERS, REPRESENTING 91% 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 1978 (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	RECYCLING SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.) SCRAP)	FROM CURRENT OPERATIONS	OF BOTH PURCHASED AND HOME SCRAP	SHIPMENTS	
SCRAP:							
CARBON STEEL-							
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	50,322	250	16,590	--	68,173	--	54,493
CUT STRUCTURAL AND PLATE-----	12,511	1,436	2,311	--	20,051	107	19,418
NO.1 HEAVY MELTING STEEL-----	8,012	--	5,495	33	16,952	--	26,161
NO.2 HEAVY MELTING STEEL-----	5,411	--	1,407	--	6,262	--	3,526
NO.1 AND ELECTRIC FURNACE BUNDLES---	2,610	--	249	--	3,669	--	2,726
NO.2 AND ALL OTHER BUNDLES-----	225	--	--	--	237	--	2,192
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	5,466	--	1,551	--	7,117	--	5,280
RAILROAD RAILS-----	73	--	--	--	92	--	139
TURNINGS AND BORINGS-----	4,075	819	1,904	--	6,110	911	4,480
SLAG SCRAP (FE CONTENT 70 PERCENT)---	--	--	293	--	247	6	78
SHREDDER OR FRAGMENTIZED-----	5,406	1,935	--	--	9,881	--	2,821
NO. 1 BUSHING-----	2,690	582	639	--	4,613	--	8,032
ALL OTHER CARBON STEEL SCRAP-----	35,700	3,155	26,132	505	66,305	--	52,503
STAINLESS STEEL SCRAP-----							
ALLOY STEEL (EXCEPT STAINLESS)---	2,246	374	2,098	--	4,094	270	4,539
INGOT MOLD AND STUOL SCRAP-----	3,366	593	10,429	--	10,265	--	24,331
MACHINERY AND CUPOLA CAST IRON---	198	--	26	--	187	12	772
CAST IRON BORINGS-----	314	--	741	--	1,525	--	1,556
MOTOR BLOCKS-----	4,389	--	2,136	--	6,671	--	4,558
OTHER IRON SCRAP-----	17	--	--	--	67	--	125
OTHER MIXED SCRAP-----	1,887	--	6,605	33	8,467	216	20,936
	174	--	328	--	547	--	73
TOTAL SCRAP-----	145,092	9,144	78,934	571	241,532	1,522	238,739
TOTAL SCRAP THROUGH FEBRUARY 1978---	290,951	16,533	154,914	1,169	482,751	3,144	238,739
PIG IRON-----							
	3,923		--	--	3,995	18	6,136
PIG IRON THROUGH FEBRUARY 1978-----							
	7,532		--	--	7,523	74	6,136

1/ EXCLUDES COMPANIES THAT PRODUCE BOTH STEEL INGOTS AND CASTINGS.
2/ BASED ON RETURNS FROM 74% OF REPORTING CONSUMERS, REPRESENTING 74% 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 1978 (PRELIMINARY) 1/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION			FINDING STOCKS
	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM SCRAP (INCLUDES INGOT CHASED AND MELTS, STTOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.) SCRAP)	RECYCLATING OBSOLETE SCRAP	RESULTING FROM CURRENT OPERATIONS	SHIPMENTS OF SCRAP	OF BOTH PURCHASED AND HOME SCRAP	SHIPMENTS		
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS	66,022	15,297	7,615	49	93,551	598	54,670			
CUT STRUCTURAL AND PLATE	118,536	11,909	12,595	84	132,436	381	96,368			
NO.1 HEAVY MELTING STEEL	25,383	9,040	5,678	--	36,455	5,553	50,757			
NO.2 HEAVY MELTING STEEL	4,075	351	1,604	58	6,443	75	5,644			
NO.1 AND ELECTRIC FURNACE BUNDLES	12,532	15,828	6,396	49	33,441	--	11,853			
NO.2 AND ALL OTHER BUNDLES	30,822	15,248	--	--	52,541	--	40,597			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	5,280	--	451	--	5,385	--	5,311			
RAILROAD RAILS	9,098	1	24	--	9,306	32	15,668			
TURNINGS AND BORINGS	63,880	13,731	1,610	4	76,840	2,032	87,018			
SLAG SCRAP (FE CONTENT 70 PERCENT)	5,558	--	42	--	4,491	42	30,277			
SHREDDER OR FRAGMENTIZED	73,007	7,153	--	--	79,368	--	50,299			
NO. 1 BUSHING	29,115	11,806	1,022	--	39,087	--	11,129			
ALL OTHER CARBON STEEL SCRAP	83,807	58,352	12,638	7	156,645	460	122,382			
STAINLESS STEEL SCRAP-										
ALLOY STEEL (EXCEPT STAINLESS)	222	6	547	--	1,307	28	3,045			
INGOT MOLD AND STUOL SCRAP	3,031	74	249	44	5,057	61	12,382			
MACHINERY AND CUPOLA CAST IRON	13,009	--	6,725	294	19,913	200	28,581			
CAST IRON BORINGS	71,135	10,393	60,869	26	138,354	3,073	87,862			
MOTOR BLOCKS	51,833	56,603	26,822	574	135,558	4,142	89,004			
OTHER IRON SCRAP	53,164	6,448	31,543	--	87,964	--	53,511			
OTHER MIXED SCRAP	85,140	8,818	268,473	6,897	353,647	9,333	165,255			
	30,862	68,607	28,558	574	125,521	661	44,660			
TOTAL SCRAP	835,511	309,665	473,461	8,700	1,593,310	26,682	1,066,274			
TOTAL SCRAP THROUGH FEBRUARY 1978	1,593,395	586,486	926,268	18,266	3,121,195	47,548	1,066,274			
PIG IRON										
	RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS
	206,170			--			211,522			
PIG IRON THROUGH FEBRUARY 1978	387,424			--			399,345			117,677
/ BASED ON RETURNS FROM 72% OF REPORTING CONSUMERS, REPRESENTING 76% OF SCRAP CONSUMPTION.										

TABLE 5. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN FEBRUARY 1978 (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	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON
BLAST FURNACE 3/	225,123	--	--	--	--	--	--	--	--	--	225,123	--	--	
BASIC OXYGEN PROCESS 4/	1,819,486	4,608,781	--	--	--	--	--	--	--	--	1,819,486	4,608,781	--	
OPEN-HEARTH FURNACE	924,389	957,525	4,154	509	--	--	--	--	--	--	928,543	958,034	--	
ELECTRIC FURNACE	2,408,769	103,876	226,217	3,243	226,217	3,243	478,102	24,385	3,113,088	24,385	3,113,088	131,504	--	
CUPOLA FURNACE	31,820	9,241	10,098	151	10,098	151	1,070,413	75,346	1,112,331	75,346	1,112,331	84,738	--	
OTHER (INCLUDING AIR FURNACE) 5/	76,958	29,442	1,063	92	1,063	92	44,795	3,515	122,816	3,515	122,816	33,049	--	
DIRECT CASTINGS 6/	--	129,082	--	--	--	--	--	108,276	--	108,276	--	237,358	--	
TOTAL	5,486,545	5,837,947	241,532	3,995	241,532	3,995	1,593,310	211,522	7,321,387	211,522	7,321,387	6,053,464	--	

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 1978 (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 (INCLUDES INGOT CHASED AND MOLDS, STUOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	RECYCLATING OBSOLETE SCRAP	RESULTING FROM CURRENT OPERATIONS	SCRAP OF BOTH PURCHASED AND HOME SCRAP (INCLUDES RE-CIRCULATING)	CONSUMPTION	SHIPMENTS		
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	37,550	1,105		2,518	464	44,401	2,526		102,802	
CUT STRUCTURAL AND PLATE-----	21,050	--		22,508	--	58,724	--		48,217	
NO.1 HEAVY MELTING STEEL-----	454,921	242,901		1,423,477	4,632	2,004,909	200,793		2,384,124	
NO.2 HEAVY MELTING STEEL-----	151,875	14,096		102,017	136	302,025	11,089		451,047	
NO.1 AND ELECTRIC FURNACE BUNDLES---	544,352	47,571		221,083	15	827,264	10,769		1,607,526	
NO.2 AND ALL OTHER BUNDLES-----	130,884	4,834		1,081	--	163,668	1,384		250,712	
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	1,839	--		160	--	3,187	--		2,323	
RAILROAD RAILS-----	7,007	--		--	--	9,836	--		631	
TURNINGS AND BORINGS-----	114,931	4,197		24,531	103	144,137	8,926		98,453	
SLAG SCRAP (FE CONTENT 70 PERCENT)---	89,694	633		145,260	320	239,502	7,181		161,526	
SHREDDED OR FRAGMENTIZED-----	115,613	35,024		--	--	196,905	--		171,793	
NO. 1 BUSHELING-----	104,550	2,800		1,114	--	110,692	6		176,228	
ALL OTHER CARBON STEEL SCRAP-----	154,090	11,603		825,816	30,533	992,922	87,439		906,596	
STAINLESS STEEL SCRAP-----										
ALLOY STEEL (EXCEPT STAINLESS)-----	28,841	1,894		49,152	--	79,067	2,582		87,797	
INGOT MOLD AND STUOL SCRAP-----	12,284	14,578		130,337	113	152,535	6,780		305,639	
MACHINERY AND CUPOLA CAST IRON-----	27,991	38,986		70,775	150,235	311,419	48,247		595,984	
CAST IRON BORINGS-----	325	--		--	--	653	--		3,925	
MOTOR BLOCKS-----	13,881	2,341		18,429	5,922	44,847	3,167		70,295	
OTHER IRON SCRAP-----	1	--		69	--	--	--		1,639	
OTHER MIXED SCRAP-----	15,751	15,138		39,824	3,108	51,977	10,831		148,221	
	23,815	2,127		11,655	11	33,411	8,118		45,057	
TOTAL SCRAP-----	2,051,245	439,828		3,099,806	195,592	5,772,131	409,839		7,620,535	
TOTAL SCRAP THROUGH JANUARY 1978----	2,051,245	439,828		3,089,806	195,592	5,772,131	409,838		7,620,535	
PIG IRON-----										
	431,465			6,296,985		6,260,126	502,870		1,143,032	
PIG IRON THROUGH JANUARY 1978-----										
	431,465			6,296,985		6,260,126	502,870		1,143,032	
1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS. // BASED ON RETURNS FROM 95% OF REPORTING CONSUMERS, REPRESENTING 99% OF SCRAP CONSUMPTION.										

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS.
2/ BASED ON RETURNS FROM 95% 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 1978 (FINAL) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF HOME SCRAP				CONSUMPTION			
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM SCRAP (INCLUDES INGOT CHASED AND MELTS, STOKES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP BUILDINGS, ETC.)	RECYCLING	RESULTING FROM CURRENT OPERATIONS	SCRAP (INCLUDES INGOT CHASED AND MELTS, STOKES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP BUILDINGS, ETC.)	RECYCLING	RESULTING FROM CURRENT OPERATIONS	CONSUMPTION	SHIPMENTS	STOCKS	ENDING STOCKS
SCRAP:												
CARBON STEEL-												
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	46,150	138	15,829	77	66,990	44	55,266					
CUT STRUCTURAL AND PLATE-----	12,962	1,388	2,450	--	19,874	107	20,361					
NO.1 HEAVY MELTING STEEL-----	10,142	--	5,068	11	17,500	100	27,799					
NO.2 HEAVY MELTING STEEL-----	5,465	28	1,433	--	6,162	--	2,944					
NO.1 AND ELECTRIC FURNACE BUNDLES---	2,663	--	249	--	2,482	--	4,181					
NO.2 AND ALL OTHER BUNDLES-----	223	--	--	--	202	--	2,204					
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	5,404	--	1,497	--	6,613	--	5,354					
RAILROAD RAILS-----	11	--	--	--	67	--	158					
TURNINGS AND BORINGS-----	4,203	250	1,893	--	6,455	850	4,743					
SLAG SCRAP (FE CONTENT 70 PERCENT)---	--	--	384	--	382	22	38					
SHREDDER OR FRAGMENTIZED-----	5,251	1,024	--	--	8,834	--	2,996					
NO. 1 BUSHING-----	3,002	598	639	--	4,887	--	8,669					
ALL OTHER CARBON STEEL SCRAP-----	36,736	2,920	26,248	462	68,294	--	52,016					
STAINLESS STEEL SCRAP-----	1,935	344	2,049	--	4,231	278	4,235					
ALLOY STEEL (EXCEPT STAINLESS)---	3,993	699	9,762	--	11,995	87	23,053					
INGOT MOLD AND STOKES SCRAP-----	396	--	14	--	408	8	745					
MACHINERY AND CUPOLA CAST IRON---	466	--	605	--	1,270	--	2,032					
CAST IRON BORINGS-----	4,585	--	1,026	--	5,276	39	4,666					
MOTOR BLOCKS-----	121	--	--	--	51	--	175					
OTHER IRON SCRAP-----	2,151	--	6,435	48	8,846	87	21,036					
OTHER MIXED SCRAP-----	--	--	399	--	400	--	6					
TOTAL SCRAP-----	145,859	7,389	75,980	598	241,219	1,622	242,677					
TOTAL SCRAP THROUGH JANUARY 1978---	145,859	7,389	75,980	598	241,219	1,622	242,677					
PIG IRON-----												
	3,609	--	--	--	3,528	56	6,376					
PIG IRON THROUGH JANUARY 1978-----	3,609	--	--	--	3,528	56	6,376					
1/ EXCLUDES COMPANIES THAT PRODUCE BOTH STEEL INGOTS AND CASTINGS.												
2/ BASED ON RETURNS FROM 91% OF REPORTING CONSUMERS, REPRESENTING 96% 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, JANUARY 1978 (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	FROM SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOKES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-SHIPMENTS OF SCRAP CIRCULATING OLD EQUIPMENT, CIRCULATING SCRAP) OPERATIONS BUILDINGS, ETC.)	RECIRCULATING OBSOLETE SCRAP	FROM CURRENT OLD EQUIPMENT, CIRCULATING SCRAP	FROM SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOKES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-SHIPMENTS OF SCRAP CIRCULATING OLD EQUIPMENT, CIRCULATING SCRAP) OPERATIONS BUILDINGS, ETC.)	OF BOTH PURCHASED AND HOME SCRAP	SHIPMENTS		
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	52,938	13,028	6,821	39	80,371	142	59,940			
CUT STRUCTURAL AND PLATE-----	112,340	7,393	12,561	167	132,573	381	85,304			
NO.1 HEAVY MELTING STEEL-----	20,291	8,628	6,322	--	37,995	3,182	49,819			
NO.2 HEAVY MELTING STEEL-----	4,131	394	1,747	46	6,917	74	6,055			
NO.1 AND ELECTRIC FURNACE BUNDLES----	12,390	11,979	6,228	47	30,543	--	10,396			
NO.2 AND ALL OTHER BUNDLES-----	36,232	12,928	--	--	59,197	--	46,901			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	3,933	--	1,859	--	7,110	--	5,266			
RAILROAD RAILS-----	9,009	1	24	--	9,286	24	15,938			
TURNINGS AND BORINGS-----	50,173	10,473	1,480	--	58,659	1,510	86,294			
SLAG SCRAP (FE CONTENT 70 PERCENT)---	4,598	--	58	--	7,233	58	29,151			
SHREDDED OR FRAGMENTIZED-----	56,975	9,207	--	--	69,335	113	49,270			
NO. 1 BUSHING-----	26,585	6,265	1,022	--	35,527	--	9,013			
ALL OTHER CARBON STEEL SCRAP-----	79,895	58,072	11,810	7	152,795	375	126,359			
STAINLESS STEEL SCRAP-----										
ALLOY STEEL (EXCEPT STAINLESS)---	208	--	443	1	567	35	3,562			
INGOT MOLD AND STOKOL SCRAP-----	4,644	22	234	87	3,764	2,834	13,923			
MACHINERY AND CUPOLA CAST IRON ---	4,806	--	8,725	315	18,856	116	28,551			
CAST IRON BORINGS-----	72,987	10,709	58,335	31	141,813	789	84,949			
MOTOR BLOCKS-----	47,965	51,247	25,611	513	128,783	3,360	87,046			
OTHER IRON SCRAP-----	61,220	2,538	41,022	--	101,811	141	54,426			
OTHER MIXED SCRAP-----	68,981	5,621	246,499	8,113	328,016	7,511	161,517			
	27,583	68,316	22,006	200	116,734	221	45,951			
TOTAL SCRAP-----	757,884	276,821	452,807	9,566	1,527,885	20,866	1,059,670			
TOTAL SCRAP THROUGH JANUARY 1978---	757,884	276,821	452,807	9,566	1,527,885	20,866	1,059,670			
PIG IRON-----										
	181,254	--	--	--	188,423	595	121,878			
PIG IRON THROUGH JANUARY 1978-----										
	181,254	--	--	--	188,423	595	121,878			
1/ BASED ON RETURNS FROM 86% 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 1978 (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/	218,888	--	--	--	--	--	218,888	--
BASIC OXYGEN PROCESS 4/	1,953,089	4,962,401	--	--	--	--	1,953,089	4,962,401
OPEN-HEARTH FURNACE	1,802,934	1,051,936	4,361	298	--	--	1,807,295	1,052,234
ELECTRIC FURNACE	2,495,618	115,197	224,471	2,766	428,103	26,949	3,148,192	144,912
CUPOLA FURNACE	33,248	11,252	10,158	151	1,058,425	73,461	1,101,831	84,864
OTHER (INCLUDING AIR FURNACE) 5/	68,354	24,471	2,229	313	41,357	3,148	111,940	27,932
DIRECT CASTINGS 6/	--	94,869	--	--	--	84,865	--	179,734
TOTAL	5,772,131	6,260,126	241,219	3,528	1,527,805	188,423	7,541,235	6,452,077

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 444,146 short tons in February compared with 642,320 tons in January. Exports of pig iron during February totaled 1,352 tons and 706 tons in January. Imports of scrap totaled 45,585 short tons in February compared with 52,687 tons in January. Of the scrap imported during February, 43,728 short tons came from Canada and 1,857 tons from other sources. Imports of pig iron totaled 6,648 short tons in February and 44,423 tons in January. In addition to the foregoing imports of pig iron during February, there were 12 tons of sponge iron, valued at \$8,000 imported, all of which came from Canada.

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

Country	February 1978		Year to date	
	Short tons	Value	Short tons	Value
Argentina-----	--	--	2	\$8,194
Canada-----	42,558	\$2,071,237	80,752	3,985,273
Egypt-----	5,588	294,210	23,694	1,217,657
Greece-----	--	--	21,908	1,185,543
Italy-----	--	--	83,176	4,342,249
Japan-----	185,151	11,002,791	405,527	22,039,286
Korea, Republic of-----	91,882	5,967,068	223,202	12,932,707
Mexico-----	23,638	1,748,840	56,847	3,404,979
Pakistan-----	316	16,104	2,729	277,360
Spain-----	26,297	1,300,778	28,550	2,322,888
Sweden-----	596	460,214	596	460,214
Taiwan-----	7,735	1,350,633	61,691	4,952,991
Turkey-----	23,541	1,547,544	37,173	2,496,999
United Kingdom-----	53	13,348	179	41,891
Other countries-----	36,791	2,291,466	60,440	5,182,461
Total-----	444,146	28,064,233	1,086,466	64,850,692

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 1978		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	169,520	\$9,960,260	378,001	\$21,831,014
No. 2 heavy melting steel scrap-----	42,831	2,330,156	98,317	5,247,173
No. 1 bundles-----	2,580	135,790	18,724	948,526
No. 2 bundles-----	4,696	198,465	20,549	712,780
Borings, shovelings and turnings-----	26,011	1,151,445	34,875	1,439,333
Stainless steel-----	4,909	1,140,996	10,614	3,926,533
Shredded steel scrap-----	121,660	7,645,879	345,456	19,532,065
Iron scrap (excluding borings and shovelings)-	27,441	1,740,614	53,144	3,252,828
All other steel scrap <u>1/</u> -----	44,498	3,760,628	126,786	7,960,440
Total-----	444,146	28,064,233	1,086,466	64,850,692
Ships, boats, and other vessels for breaking up (for scrapping)-----	--	--	--	--
Total-----	444,146	28,064,233	1,086,466	64,850,692

1/ Includes tinplate and terneplate.