



MINERAL INDUSTRY SURVEYS

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



Cecil D. Andrus, Secretary

Lindsay D. Norman, Acting Director

For information call K. W. Palmer
Telephone: 202-634-1029

Iron and Steel Scrap, Monthly

IRON AND STEEL SCRAP IN MARCH 1980

Returns from 67% of reporting consumers representing 88% of total scrap consumption, indicated that consumption of iron and steel scrap in March on a daily average basis was 1% 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 1% and 2% respectively, and stocks at the end of the month were down 3%.

Exports of ferrous scrap during the month were 17% above those for February 1980 and 34% above those for March 1979. Japan was the principal country of destination, accounting for 36% of the total exported in March 1980, followed by Mexico and Spain both with 11%.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of March was \$97.50 per long ton, down 13% from the price of \$112.50 at the end of March 1979.

Pig iron production and consumption on a daily average basis during the month were up 3% from those of the previous month. Stocks of pig iron were up 2% during March compared with those at the end of February 1980.

Prepared in the Section of Ferrous Metals, May 28, 1980.

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 1980 (PRELIMINARY) 1/				FINAL	
	MFRS. OF PIG IRON AND RAW STEEL & CASTINGS 2/	MFRS. OF STEEL CASTINGS 3/	IRON FOUNDRIES AND MISCELLANEOUS USERS	TOTAL FOR MONTH OF MAR 1980	TOTAL FOR MONTH OF FEB 1980 4/	TOTAL YEAR THROUGH MAR 1980 5/
SCRAP:						
RECEIPTS FROM DEALERS AND OTHER SOURCES	2,774,961	174,244	821,869	3,771,074	3,463,156	10,741,577
RECEIPTS FROM OTHER OWN COMPANY PLANTS - PRODUCTION RECIRCULATING SCRAP	585,865	5,988	159,819	751,672	729,435	2,222,582
PRODUCTION OBSOLETE SCRAP	3,428,929	92,976	422,733	3,944,638	3,631,103	11,397,141
CONSUMPTION	250,820	--	2,083	252,903	239,050	667,586
SHIPMENTS	6,685,556	286,166	1,394,848	8,366,570	7,762,993	24,101,677
STOCKS END OF MONTH	545,751	3,795	26,463	576,009	570,829	1,724,461
	6,622,776	224,091	1,008,216	7,855,083	8,112,133	--
PIG IRON:						
RECEIPTS	300,522	4,082	187,645	492,249	459,053	1,407,178
PRODUCTION	7,047,901	--	--	7,047,901	6,370,403	20,010,569
CONSUMPTION	6,839,937	4,114	193,066	7,037,117	6,406,984	20,083,175
SHIPMENTS	547,984	--	526	548,510	518,045	1,593,955
STOCKS END OF MONTH	724,926	6,062	102,405	833,393	815,495	--
DIRECT-REDUCED OR PREREDUCED IRON:						
RECEIPTS 6/	--	--	--	39,442	41,008	112,070
PRODUCTION	--	--	--	--	--	--
CONSUMPTION	--	--	--	41,884	43,060	122,392
SHIPMENTS	--	--	--	--	--	--
STOCKS END OF MONTH	--	--	--	37,666	37,372	--

W WITHHELD TO AVOID DISCLOSING COMPANY PROPRIETARY DATA.

- 1/ BASED ON RETURNS FROM 67% OF REPORTING CONSUMERS, REPRESENTING 68% OF SCRAP CONSUMPTION.
- 2/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE RAW STEEL.
- 3/ EXCLUDES COMPANIES THAT PRODUCE BOTH RAW STEEL AND CASTINGS.
- 4/ BASED ON RETURNS FROM 74% OF REPORTING CONSUMERS, REPRESENTING 94% OF SCRAP CONSUMPTION.
- 5/ CUMULATIVE TOTALS MAY NOT AGREE WITH SUM OF MONTHLY REPORTS BECAUSE OF ADDITION OF REPORTS FROM LATE RESPONDENTS.
- 6/ INCLUDES PRODUCTION.

TABLE 2. - MANUFACTURERS OF PIG IRON AND RAW STEEL AND CASTINGS 1/ - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, 1980 (PRELIMINARY) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION OF BOTH PURCHASED AND RECYCLED SCRAP			ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	868	RECIRCULATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOLS, HOME SCRAP FROM AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.))	4,008	142	38,772	SHIPMENTS OF SCRAP	4,085	
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS--	37,947	868		4,008	142	38,772	4,085	47,770		
CUT STRUCTURAL AND PLATE-----	39,131	791		81,717	--	99,458	12,243	52,905		
NO.1 HEAVY MELTING STEEL-----	709,193	308,882		1,398,869	6,970	2,249,340	242,387	1,984,014		
NO.2 HEAVY MELTING STEEL-----	205,125	16,042		129,515	1,196	338,142	16,317	405,464		
NO.1 AND ELECTRIC FURNACE BUNDLES--	565,770	44,137		227,116	13	875,427	15,147	1,098,730		
NO.2 AND ALL OTHER BUNDLES-----	190,146	8,967		3,333	--	209,410	5,991	313,957		
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	4,926	34		79	--	5,443	--	5,773		
RAILROAD RAILS-----	8,215	56		--	--	6,908	--	5,689		
TURNINGS AND BORINGS-----	114,989	7,432		34,228	63	163,677	13,238	91,056		
SLAG SCRAP (FE CONTENT 70 PERCENT)---	114,871	3,308		332,107	--	427,021	14,123	154,727		
SHREDDED OR FRAGMENTIZED-----	257,926	50,259		7,117	--	329,306	--	190,662		
NO. 1 BUSHING-----	117,799	1,505		7,268	64	123,565	1,209	95,866		
ALL OTHER CARBON STEEL SCRAP-----	217,997	23,415		825,844	81,592	1,050,099	76,790	724,350		
STAINLESS STEEL SCRAP-----	35,800	3,042		59,992	--	84,865	6,873	89,972		
ALLOY STEEL (EXCEPT STAINLESS)-----	23,530	18,923		130,202	625	157,029	13,477	258,414		
INGOT MOLD AND STUOL SCRAP-----	40,119	77,207		100,308	154,271	324,624	86,330	615,420		
MACHINERY AND CUPOLA CAST IRON-----	88	81		--	--	76	--	6,193		
CAST IRON BORINGS-----	20,745	256		18,685	4,964	49,017	12,263	82,774		
MOTOR BLOCKS-----	381	--		--	--	442	--	10		
OTHER IRON SCRAP-----	40,807	13,262		51,440	920	93,841	20,811	328,644		
OTHER MIXED SCRAP-----	28,456	11,398		16,701	--	59,094	4,467	70,382		
TOTAL SCRAP-----	2,774,961	589,865		3,428,929	250,820	6,685,556	545,751	6,622,776		
TOTAL SCRAP THROUGH MARCH 1980---	7,860,958	1,718,208		9,902,148	660,899	19,239,012	1,635,932	6,622,776		
PIG IRON-----	300,522	7,047,901		6,839,937		547,984		724,924		
PIG IRON THROUGH MARCH 1980-----	838,910	20,010,569		19,498,571		1,591,315		724,926		

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE RAW STEEL.
2/ BASED ON RETURNS FROM 83% 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, MARCH 1980 (PRELIMINARY) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION		
	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM RECYCLATING SCRAP (INCLUDES INGOT CHASED AND MOLD AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM RECYCLATING SCRAP (INCLUDES INGOT CHASED AND MOLD AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM RECYCLATING SCRAP (INCLUDES INGOT CHASED AND MOLD AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	CONSUMPTION OF BOTH PURCHASED AND RECYCLED SCRAP	SHIPMENTS OF SCRAP	ENDING STOCKS
SCRAP:									
CARBON STEEL-									
LOW-PHOSPHORUS PLATE AND PUNCHINGS-	59,979	513	19,416				80,389	178	70,617
CUT STRUCTURAL AND PLATE	19,481	766	1,994				25,947	88	21,871
NO. 1 HEAVY MELTING STEEL	13,535		8,660				23,032	942	19,831
NO. 2 HEAVY MELTING STEEL	6,755		2,078				11,266		10,570
NO. 1 AND ELECTRIC FURNACE BUNDLES	1,886		207				2,877		2,932
NO. 2 AND ALL OTHER BUNDLES	614						561		1,358
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	5,934		1,416				7,241	86	5,411
RAILROAD RAILS	20						18		76
TURNINGS AND BORINGS	4,206	322	2,271				5,788	1,206	3,387
SLAG SCRAP (FE CONTENT 70 PERCENT)			6					8	18
SHREDDED OR FRAGMENTIZED	4,691	1,803					6,047		1,065
NO. 1 BUSHING	1,916	965					3,332		4,091
ALL OTHER CARBON STEEL SCRAP	37,579	2,067	31,783				77,536	96	33,480
STAINLESS STEEL SCRAP	1,669	62	2,330				3,924	350	4,855
ALLOY STEEL (EXCEPT STAINLESS)	5,728		11,807				18,593	171	24,508
INGOT MOLD AND STOOL SCRAP	475		47				333	43	814
MACHINERY AND COPOLA CAST IRON	94		594				983	66	1,148
CAST IRON BORINGS	6,267	51	2,123				7,404	17	6,040
MOTOR BLOCKS	25						20		69
OTHER IRON SCRAP	3,390	239	7,808				10,439	544	11,927
OTHER MIXED SCRAP			436				436		23
TOTAL SCRAP	174,244	5,988	92,976				286,166	3,795	224,091
TOTAL SCRAP THROUGH MARCH 1980	520,706	20,310	263,328	4			825,868	10,532	224,091
PIG IRON	4,082						4,114		6,062
PIG IRON THROUGH MARCH 1980	12,346						12,585	22	6,062

1/ EXCLUDES COMPANIES THAT PRODUCE BOTH RAW STEEL AND CASTINGS.
2/ BASED ON RETURNS FROM 71% OF REPORTING CONSUMERS, REPRESENTING 84% OF SCRAP CONSUMPTION.

TABLE 4. - IRON FOUNDRIES AND MISCELLANEOUS USERS - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS, AND STOCKS OF PIG IRON AND STEEL SCRAP, BY GRADE, MARCH 1980 (PRELIMINARY) 1/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF HOME SCRAP				CONSUMPTION				ENDING STOCKS
	FROM DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RESULTING FROM CURRENT OPERATIONS	OBsolete SCRAP (INCLUDES INGOT MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	FROM BROKERS	FROM OTHER OWN COMPANY PLANTS	RESULTING FROM CURRENT OPERATIONS	OBsolete SCRAP (INCLUDES INGOT MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	FROM BROKERS	FROM OTHER OWN COMPANY PLANTS	RESULTING FROM CURRENT OPERATIONS	OBsolete SCRAP (INCLUDES INGOT MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	
SCRAP:													
CARBON STEEL-													
LOW-PHOSPHORUS PLATE AND PUNCHINGS	68,968	7,513	5,816	18								996	36,404
CUT STRUCTURAL AND PLATE	129,269	9,584	15,989	21								299	103,633
NO.1 HEAVY MELTING STEEL	22,041	4,071	4,715	--								2,679	58,007
NO.2 HEAVY MELTING STEEL	8,928	353	2,739	27								93	6,657
NO.1 AND ELECTRIC FURNACE BUNDLES	12,097	7,075	4,917	15								--	15,517
NO.2 AND ALL OTHER BUNDLES	29,347	--	--	--								--	37,751
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	9,275	5,691	106	--								--	9,426
RAILROAD RAILS	12,068	--	24	--								24	10,857
TURNINGS AND BORINGS	52,443	8,179	2,757	--								2,345	94,996
SLAG SCRAP (FE CONTENT 70 PERCENT)	3,018	--	24	--								24	8,072
SHREDDED OR FRAGMENTIZED	77,247	261	--	--								261	63,430
NO. 1 BUSHING	24,370	1,349	1,192	--								1,520	8,788
ALL OTHER CARBON STEEL SCRAP	73,624	39,210	13,753	4								269	66,545
TOTAL CARBON STEEL SCRAP	97	--	1,596	--								57	1,660
ALLOY STEEL (EXCEPT STAINLESS)	1,839	5	426	115								299	9,442
INGOT MOLD AND STOOL SCRAP	11,964	--	7,357	363								509	58,476
MACHINERY AND CUPOLA CAST IRON	76,304	7,530	56,560	64								236	88,839
CAST IRON BORINGS	50,805	43,844	34,233	341								3,250	64,584
MOTOR BLOCKS	47,200	277	22,574	--								366	62,952
OTHER IRON SCRAP	75,641	5,315	218,908	651								12,546	155,336
OTHER MIXED SCRAP	35,324	19,264	29,047	464								690	46,844
TOTAL SCRAP	821,869	159,519	422,733	2,083								26,463	1,008,216
TOTAL SCRAP THROUGH MARCH 1980	2,359,913	484,264	1,231,665	6,683								77,997	1,008,216
PIG IRON													
187,645												526	102,405
555,922												2,618	102,405

1/ BASED ON RETURNS FROM 62% OF REPORTING CONSUMERS, REPRESENTING 37% OF SCRAP CONSUMPTION.

TABLE 5. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN MARCH 1980 (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 RAW STEEL 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
BLAST FURNACE 3/	359,652	--	--	--	--	--	--	--	359,652	--
BASIC OXYGEN PROCESS 4/	2,171,846	5,529,022	5,014	--	--	--	--	--	2,171,846	5,529,022
OPEN-HEARTH FURNACE	792,879	1,082,881	5,014	731	--	--	--	--	797,893	1,083,612
ELECTRIC FURNACE	3,270,799	53,518	271,449	3,147	448,492	26,531	928,597	3,990,740	83,196	
CUPOLA FURNACE	8,596	4,947	7,816	--	911,985	62,500	--	67,447	--	
OTHER (INCLUDING AIR FURNACE) 5/	81,784	31,730	1,887	236	34,171	3,650	117,842	35,616	--	
DIRECT CASTINGS 6/	--	137,839	--	--	--	100,385	--	--	238,224	
TOTAL	6,685,556	6,839,937	286,166	4,114	1,394,648	193,066	8,366,370	7,037,117		

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

2/ EXCLUDES COMPANIES THAT PRODUCE BOTH RAW STEEL 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 RAW STEEL AND CASTINGS 1/ - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, BY GRADE, FEBRUARY 1980 (FINAL) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF HOME SCRAP				CONSUMPTION		ENDING STOCKS
	FROM DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	RECYCLATING SCRAP (INCLUDES INGOT CHASED AND RESULTING FROM CURRENT OPERATIONS)	OBsolete SCRAP (INCLUDES MOLDS, STUOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	OF BOTH PURCHASED AND HOME SCRAP	SHIPMENTS OF SCRAP	STOCKS				
SCRAP:											
CARBON STEEL-											
LOW-PHOSPHORUS PLATE AND PUNCHINGS--	35,641	1,237	3,666	326	35,690	3,295	47,524				
CUT STRUCTURAL AND PLATE-----	26,728	23,551	74,701	--	136,926	16,259	36,175				
NO.1 HEAVY MELTING STEEL-----	642,951	257,562	1,245,570	13,941	1,995,291	257,877	2,042,911				
NO.2 HEAVY MELTING STEEL-----	182,182	13,753	113,895	628	325,539	7,874	417,222				
NO.1 AND ELECTRIC FURNACE BUNDLES--	532,917	33,519	244,496	265	773,089	9,082	1,154,749				
NO.2 AND ALL OTHER BUNDLES-----	161,718	3,245	3,100	--	195,428	185	313,901				
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	3,941	7	924	--	5,473	--	5,997				
RAILROAD RAILS-----	7,637	71	3	--	4,843	--	5,731				
TURNINGS AND BORINGS-----	105,089	9,176	32,012	85	147,947	8,580	108,965				
SLAG SCRAP (FE CONTENT 70 PERCENT)---	116,925	644	319,911	1,036	442,708	9,293	141,403				
SHREDDED OR FRAGMENTIZED-----	223,641	42,572	3,635	--	293,933	--	209,941				
NO. 1 BUSHELING-----	101,179	1,321	7,461	19	112,253	615	96,077				
ALL OTHER CARBON STEEL SCRAP-----	222,166	38,944	763,610	73,823	989,059	78,645	758,847				
STAINLESS STEEL SCRAP-----											
ALLOY STEEL (EXCEPT STAINLESS)-----	33,019	3,066	56,886	112	93,707	3,483	84,086				
INGOT MOLD AND STUOL SCRAP-----	17,594	20,993	124,294	995	156,188	8,268	255,468				
MACHINERY AND CUPOLA CAST IRON-----	27,403	86,981	82,648	140,411	311,034	95,232	654,665				
CAST IRON BORINGS-----	165	157	--	--	81	--	6,100				
MOTOR BLOCKS-----	20,756	353	7,014	4,984	44,968	8,160	89,641				
OTHER IRON SCRAP-----	309	--	--	--	309	--	10				
OTHER MIXED SCRAP-----	27,524	18,367	51,857	181	85,748	27,572	341,818				
	34,710	7,921	13,167	--	52,221	8,165	74,265				
TOTAL SCRAP-----	2,524,185	563,440	3,148,850	236,806	6,199,935	542,585	6,845,496				
TOTAL SCRAP THROUGH FEBRUARY 1980---	5,085,997	1,128,343	6,473,219	410,079	12,553,456	1,090,181	6,845,496				
PIG IRON-----											
	270,959		6,370,403		6,213,093	517,509	702,269				
	538,388		12,462,668		12,458,634	1,043,331	702,269				

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE RAW STEEL.
2/ BASED ON RETURNS FROM 89% OF REPORTING CONSUMERS, REPRESENTING 96% 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 1980 (FINAL) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF HOME SCRAP				CONSUMPTION		ENDING STOCKS
	FROM DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER COMPANY PLANTS	FROM SCRAP RESULTING FROM CURRENT OPERATIONS	FROM OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	FROM SCRAP RESULTING FROM CURRENT OPERATIONS	FROM OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	HOME SCRAP	SHIPMENTS OF SCRAP	CONSUMPTION	SHIPMENTS	
SCRAP:											
CARBON STEEL-											
LOW-PHOSPHORUS PLATE AND PUNCHINGS	54,408	245	19,020	--	78,084	182	70,722				
CUT STRUCTURAL AND PLATE	19,568	1,968	2,059	--	25,619	88	26,094				
NO. 1 HEAVY MELTING STEEL	11,743	18	8,345	--	28,919	851	21,098				
NO. 2 HEAVY MELTING STEEL	5,750	--	1,626	--	9,184	--	13,003				
NO. 1 AND ELECTRIC FURNACE BUNDLES	2,272	--	207	--	2,840	--	3,241				
NO. 2 AND ALL OTHER BUNDLES	727	--	--	--	456	--	1,493				
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	5,550	--	1,384	--	6,631	80	5,504				
RAILROAD RAILS	65	--	--	--	14	--	74				
TURNINGS AND BORINGS	4,145	376	2,083	--	6,253	604	3,715				
SLAG SCRAP (FE CONTENT 70 PERCENT)	--	--	6	--	--	8	18				
SHREDDER OR FRAGMENTIZED	2,669	1,108	--	--	4,477	--	1,418				
NO. 1 BUSHING	1,969	925	--	--	2,498	--	4,638				
ALL OTHER CARBON STEEL SCRAP	41,205	2,103	28,558	--	74,136	--	37,918				
STAINLESS STEEL SCRAP-											
ALLOY STEEL (EXCEPT STAINLESS)	1,871	66	2,192	--	3,902	274	5,058				
INGOT MOLD AND STOOL SCRAP	5,142	284	9,145	--	18,696	199	25,722				
MACHINERY AND CUPOLA CAST IRON	146	--	54	--	388	5	662				
CAST IRON BORINGS	200	--	826	--	995	68	1,505				
MOTOR BLOCKS	5,856	355	2,343	--	7,081	201	6,134				
OTHER IRON SCRAP	25	--	--	--	20	--	69				
OTHER MIXED SCRAP	2,433	164	7,525	--	9,577	556	11,550				
TOTAL SCRAP	165,744	7,614	85,645	--	272,245	3,116	239,659				
TOTAL SCRAP THROUGH FEBRUARY 1980	346,462	14,122	170,352	4	539,702	6,737	239,659				
PIG IRON											
	RECEIPTS				PRODUCTION				CONSUMPTION		STOCKS
	4,004				--				4,395		22
	8,264				--				8,471		22
PIG IRON THROUGH FEBRUARY 1980											
	--				--				--		6,296
	--				--				--		6,296

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

2/ BASED ON RETURNS FROM 76% OF REPORTING CONSUMERS, REPRESENTING 86% 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 1980 (FINAL) 1/
(SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF HOME SCRAP				CONSUMPTION				ENDING STOCKS	
	FROM DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM BROKERS, DEALERS AND OTHER	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.))	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.))	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.))	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.))	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.))		FROM BROKERS, DEALERS AND OTHER SOURCES
SCRAP:														
CARBON STEEL--														
LOV-PHOSPHORUS PLATE AND PUNCHINGS--	67,464	5,908	6,396	27	79,057	1,290	39,872	1,290	79,057	1,290	39,872	1,290	39,872	
CUT STRUCTURAL AND PLATE--	120,090	8,325	17,617	--	144,270	357	98,886	357	144,270	357	98,886	357	98,886	
NO.1 HEAVY MELTING STEEL--	24,593	3,685	5,042	--	26,334	2,929	61,066	2,929	26,334	2,929	61,066	2,929	61,066	
NO.2 HEAVY MELTING STEEL--	3,531	3,422	2,802	27	9,661	95	2,708	95	9,661	95	2,708	95	2,708	
NO.1 AND ELECTRIC FURNACE BUNDLES--	8,606	8,678	4,494	15	23,625	--	15,782	--	23,625	--	15,782	--	15,782	
NO.2 AND ALL OTHER BUNDLES--	30,365	--	--	--	27,154	--	38,583	--	27,154	--	38,583	--	38,583	
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)--	10,390	3,813	106	--	14,775	--	6,715	--	14,775	--	6,715	--	6,715	
RAILROAD RAILS--	12,062	--	24	--	12,412	24	11,840	24	12,412	24	11,840	24	11,840	
TURNINGS AND BORINGS--	39,984	12,257	1,759	4	55,901	1,346	92,810	1,346	55,901	1,346	92,810	1,346	92,810	
SLAG SCRAP (FE CONTENT 70 PERCENT)--	3,521	--	56	--	3,383	301	8,274	301	3,383	301	8,274	301	8,274	
SHREDDED OR FRAGMENTIZED--	76,628	42	--	--	69,984	42	63,140	42	69,984	42	63,140	42	63,140	
NO. 1 BUSHELING--	21,082	1,292	1,192	--	24,895	1,520	8,364	1,520	24,895	1,520	8,364	1,520	8,364	
ALL OTHER CARBON STEEL SCRAP--	66,115	29,949	10,940	4	108,451	275	76,564	275	108,451	275	76,564	275	76,564	
STAINLESS STEEL SCRAP--	84	--	2,026	2	2,055	35	1,657	35	2,055	35	1,657	35	1,657	
ALLOY STEEL (EXCEPT STAINLESS)--	2,145	3	480	146	2,100	296	9,367	296	2,100	296	9,367	296	9,367	
INGOT MOLD AND STOOL SCRAP--	9,996	--	6,901	470	18,373	681	55,710	681	18,373	681	55,710	681	55,710	
MACHINERY AND CUPOLA CAST IRON--	75,892	7,969	52,559	1,001	138,889	316	89,289	316	138,889	316	89,289	316	89,289	
CAST IRON BORINGS--	46,637	30,769	31,374	89	111,559	3,164	68,739	3,164	111,559	3,164	68,739	3,164	68,739	
MOTOR BLOCKS--	47,540	319	20,233	--	68,961	498	62,856	498	68,961	498	62,856	498	62,856	
OTHER IRON SCRAP--	75,602	7,032	284,552	627	278,021	10,882	157,174	10,882	278,021	10,882	157,174	10,882	157,174	
OTHER MIXED SCRAP--	30,892	34,918	27,855	332	92,753	1,077	57,571	1,077	92,753	1,077	57,571	1,077	57,571	
TOTAL SCRAP--	773,227	158,381	396,408	2,744	1,290,813	25,128	1,026,978	25,128	1,290,813	25,128	1,026,978	25,128	1,026,978	
TOTAL SCRAP THROUGH FEBRUARY 1980--	1,538,044	324,745	808,932	4,600	2,642,149	51,534	1,026,978	51,534	2,642,149	51,534	1,026,978	51,534	1,026,978	
PIG IRON--	184,090	--	--	--	189,496	514	106,930	514	189,496	514	106,930	514	106,930	
PIG IRON THROUGH FEBRUARY 1980--	368,237	--	--	--	378,953	2,092	106,930	2,092	378,953	2,092	106,930	2,092	106,930	

1/ BASED ON RETURNS FROM 70% OF REPORTING CONSUMERS, REPRESENTING 87% OF SCRAP CONSUMPTION.

TABLE 9. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN FEBRUARY 1980 (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 RAW STEEL 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	SCRAP	PIG IRON
BLAST FURNACE 3/	408,042	--	--	--	--	--	--	--	408,042	--	--	--
BASIC OXYGEN PROCESS 4/	1,945,379	5,163,340	--	--	--	--	--	--	1,945,379	--	--	5,163,340
OPEN-HEARTH FURNACE	772,757	836,292	4,796	715	--	--	--	--	777,553	--	--	837,007
ELECTRIC FURNACE	2,889,566	56,233	257,701	3,427	450,443	26,624	--	--	3,597,710	450,443	26,624	88,284
CUPOLA FURNACE	110,516	4,688	8,911	--	808,341	61,837	--	--	926,868	808,341	61,837	66,525
OTHER (INCLUDING AIR FURNACE) 5/	73,675	25,284	1,737	253	32,029	3,522	--	--	107,441	32,029	3,522	29,059
DIRECT CASTINGS 6/	--	125,256	--	--	--	97,513	--	--	--	--	97,513	222,769
TOTAL	6,199,935	6,213,093	272,245	4,395	1,290,813	189,496	--	--	7,762,993	1,290,813	189,496	6,406,984

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

2/ EXCLUDES COMPANIES THAT PRODUCE BOTH RAW STEEL 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.

FOREIGN TRADE

Exports of iron and steel scrap totaled 1,162,822 short tons in March compared with 992,324 tons in February. Exports of pig iron during March totaled 856 tons and 864 tons in February. Imports of scrap totaled 70,083 short tons in March compared with 70,000 tons in February. Of the scrap imported during March 62,979 short tons came from Canada and 7,104 tons from other sources. Imports of pig iron totaled 70,952 short tons in March and 27,166 tons in February. In addition to the foregoing imports of pig iron during March, there was 1,606 tons of sponge iron, including metal powder valued at \$233,961 imported, of which 1,583 tons came from Canada, and 23 tons from other countries.

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

Country	March 1980		Year to date	
	Short tons	Value	Short tons	Value
Canada-----	83,178	\$6,268,349	241,605	\$19,502,221
Germany, Federal Rep. of--	103	84,221	28,890	3,081,143
Greece-----	11,191	1,350,694	132,129	14,802,796
Italy-----	96,388	11,512,863	536,896	61,199,122
Japan-----	421,724	49,448,141	927,067	107,367,739
Korea, Republic of-----	121,720	13,935,782	341,770	42,652,583
Mexico-----	130,455	15,744,065	294,973	34,606,181
Spain-----	128,101	14,493,102	341,286	37,440,218
Taiwan-----	76,795	10,097,329	257,207	31,189,888
Thailand-----	--	--	9,921	1,576,747
Turkey-----	38,124	4,326,335	68,864	7,497,882
United Kingdom-----	313	78,996	964	191,446
Other countries <u>2/</u> -----	54,730	8,041,367	112,637	16,591,804
Total-----	1,162,822	135,381,244	3,294,209	377,699,770

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

2/ Argentina, Pakistan, and Sweden are included in "Other countries".

Source: Bureau of the Census.

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

Grade of scrap	March 1980		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	391,744	\$44,324,061	972,553	\$108,225,312
No. 2 heavy melting steel scrap-----	135,428	14,393,400	353,007	35,732,010
No. 1 bundles-----	8,713	887,899	36,615	3,813,451
No. 2 bundles-----	30,346	2,970,277	83,313	7,389,176
Borings, shovelings and turnings-----	30,715	1,950,288	123,485	7,146,576
Stainless steel-----	7,315	4,874,209	25,656	17,143,397
Shredded steel scrap-----	326,872	38,004,874	1,054,379	116,816,337
Iron scrap (excluding borings and shovelings)-	97,354	8,905,871	194,935	18,407,629
All other steel scrap <u>1/</u> -----	134,335	19,070,365	450,266	63,025,882
Total-----	1,162,822	135,381,244	3,294,209	377,699,770
Ships, boats, and other vessels for breaking up (for scrapping)-----	33,181	3,248,618	43,483	5,251,751
Total-----	1,196,003	138,629,862	3,337,692	382,951,521

1/ Includes tinplate and terneplate.

Source: Bureau of the Census.