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 BUREAU OF MINES RECEIVED MAY 1979 U.S. DEPARTMENT OF THE INTERIOR BUREAU OF MINES WASHINGTON, D.C. 20241	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 1979

Returns from 75% of reporting consumers representing 94% 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 7%, respectively, and stocks at the end of the month were down 3%.

Exports of ferrous scrap during the month were 28% above those for January 1979 and 158% above those for February 1978. Japan was the principal country of destination, accounting for 46% of the total exported in February 1979, followed by the Republic of Korea and Italy, with 13% and 8%, respectively.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of February was \$110.83 per long ton, up 55% from the price of \$71.50 at the end of February 1978.

Pig iron production and consumption on a daily average basis during the month were both up 4% from those of the previous month. Stocks of pig iron decreased 2% during February compared with those at the end of January 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)

FEBRUARY 1979 (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 1979	FINAL TOTAL FOR MONTH OF JAN 1979 4/	TOTAL YEAR THROUGH FEB 1979 5/
SCRAP:						
RECEIPTS FROM DEALERS AND OTHER SOURCES	2,163,626	168,074	951,054	3,282,754	3,437,441	6,720,195
RECEIPTS FROM OTHER OWN COMPANY PLANTS	449,532	13,492	268,702	731,726	711,504	1,443,230
PRODUCTION RECIRCULATING SCRAP	3,201,361	86,004	543,547	3,830,912	4,015,316	7,846,228
PRODUCTION OBSOLETE SCRAP	277,895	270	2,363	280,528	206,317	486,845
CONSUMPTION	5,899,143	275,594	1,760,220	7,934,957	8,199,598	16,134,555
SHIPMENTS	388,962	3,359	30,892	423,183	441,379	864,562
STOCKS END OF MONTH	6,511,006	206,897	1,073,518	7,791,421	8,008,377	--
PIG IRON:						
RECEIPTS	217,149	3,574	225,617	446,340	509,875	956,215
PRODUCTION	6,624,305	--	--	6,624,305	7,035,498	13,659,803
CONSUMPTION	6,436,659	3,991	230,254	6,670,904	7,097,782	13,768,686
SHIPMENTS	499,115	52	753	499,920	554,528	1,054,448
STOCKS END OF MONTH	717,657	5,289	111,891	834,837	851,962	--
DIRECT-REDUCED OR PREREDUCED IRON:						
RECEIPTS	--	--	--	30,824	43,692	74,516
PRODUCTION	--	--	--	NA	NA	NA
CONSUMPTION	--	--	--	35,262	24,086	59,348
SHIPMENTS	--	--	--	W	W	W
STOCKS END OF MONTH	--	--	--	29,238	33,674	--

NA NOT AVAILABLE.

NOT AVAILABLE
WITHHELD.

11/ BASED ON RETURNS FROM 75% OF REPORTING CONSUMERS, REPRESENTING 94% OF SCRAP CONSUMPTION.

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

EXCLUDES COMPANIES THAT PRODUCE BOTH STEEL INGOTS AND CASTINGS.

BASED ON RETURNS FROM 84% 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 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 OBSOLETE SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	RESULTING FROM CURRENT OPERATIONS	INGOT MOLD, STOOLES, AND SCRAP FROM (INCLUDES RE-SCRAP)	CHASED AND HOME SCRAP	
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-----	526,825	203,558	1,478,867	3,168	2,046,264	176,642	1,983,541
NO.2 HEAVY MELTING STEEL-----	174,424	4,002	121,348	100	315,043	6,042	369,297
NO.1 AND ELECTRIC FURNACE BUNDLES----	538,325	54,089	201,093	1,488	893,962	8,287	1,152,749
NO.2 AND ALL OTHER BUNDLES-----	127,954	7,809	3,487	--	148,274	2,340	247,603
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-----	111,919	6,068	31,542	71	132,306	7,316	125,279
SLAG SCRAP (FE CONTENT 70 PERCENT)----	97,874	7,744	191,036	--	284,761	11,008	227,572
SHREDDED OR FRAGMENTIZED-----	144,053	34,561	1,884	--	210,901	21	103,297
NO. 1 BUSHELING-----	117,522	3,006	620	--	129,134	1,134	124,478
ALL OTHER CARBON STEEL SCRAP-----	126,189	10,511	769,913	102,869	961,487	44,896	746,294
STAINLESS STEEL SCRAP-----							
ALLOY STEEL (EXCEPT STAINLESS)-----	30,086	3,872	57,787	51	83,681	4,707	98,058
INGOT MOLD AND STUOL SCRAP-----	19,758	20,810	126,687	531	163,624	18,890	238,626
MACHINERY AND CUPOLA CAST IRON-----	22,267	49,919	90,492	164,247	252,546	65,443	631,305
CAST IRON BORINGS-----	307	87	3,855	--	6,652	--	2,745
MOTOR BLOCKS-----	14,786	2,325	15,305	4,566	44,450	3,187	69,826
OTHER IRON SCRAP-----	623	--	--	--	744	--	37
OTHER MIXED SCRAP-----	20,283	16,697	52,701	397	54,931	26,739	220,754
	18,767	8,653	11,853	8	36,080	7,536	54,605
TOTAL SCRAP-----	2,163,626	449,532	3,201,361	277,895	5,899,143	388,962	6,511,006
TOTAL SCRAP THROUGH FEBRUARY 1979----	4,486,680	925,058	6,585,856	481,434	12,099,945	799,951	6,511,006
RECEIPTS		PRODUCTION		CONSUMPTION		SHIPMENTS	
217,149		6,624,305		6,436,659		499,115	
487,071		13,659,803		13,289,438		1,052,888	
717,657		717,657		717,657		717,657	
717,657		717,657		717,657		717,657	

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS.
2/ BASED ON RETURNS FROM 93% OF REPORTING CONSUMERS, REPRESENTING 95% 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 1979 (PRELIMINARY) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP		PRODUCTION OF HOME SCRAP		CONSUMPTION OF BOTH PUR-CHASED AND RE-CEIVED SCRAP		ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STUOL, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP))	OPERATIONS BUILDINGS, ETC.)	CONSUMPTION	SHIPMENTS	
SCRAP:							
CARBON STEEL-							
LOW-PHOSPHORUS PLATE AND PUNCHINGS	55,868	473	20,215	--	79,074	181	57,128
CUT STRUCTURAL AND PLATE	16,906	1,065	2,114	--	21,918	--	13,763
NO.1 HEAVY MELTING STEEL	13,067	2,546	4,756	33	22,070	--	17,810
NO.2 HEAVY MELTING STEEL	8,580	--	1,850	--	10,249	--	4,770
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)	5,409	100	1,244	--	6,622	104	3,698
RAILROAD RAILS	84	5	--	--	171	--	10
TURNINGS AND BORINGS	5,218	631	1,429	--	6,237	114	5,395
SLAG SCRAP (FE CONTENT 70 PERCENT)	--	--	194	--	170	14	181
SHREDDED OR FRAGMENTIZED	5,841	2,409	--	--	8,349	--	2,598
NO. 1 BUSHING	2,255	1,334	277	--	3,840	--	3,666
ALL OTHER CARBON STEEL SCRAP	36,078	3,369	31,664	137	74,622	2,375	45,564
STAINLESS STEEL SCRAP-							
ALLOY STEEL (EXCEPT STAINLESS)	2,137	46	2,406	--	3,916	446	4,654
INGOT MOLD AND STUOL SCRAP	4,669	435	9,942	100	15,953	--	23,186
MACHINERY AND CUPOLA CAST IRON	515	--	26	--	407	16	1,204
CAST IRON BORINGS	471	--	364	--	925	--	988
MOTOR BLOCKS	4,521	139	2,508	--	6,834	70	4,925
OTHER IRON SCRAP	24	--	--	--	83	--	114
OTHER MIXED SCRAP	3,299	1,136	6,393	--	10,186	10	14,315
	19	--	430	--	430	62	
TOTAL SCRAP	168,074	13,492	86,004	270	275,594	3,329	206,897
TOTAL SCRAP THROUGH FEBRUARY 1979	331,081	27,697	171,067	446	549,516	8,456	206,897
PIG IRON-							
	RECEIPTS		PRODUCTION		CONSUMPTION		STOCKS
	3,574	--	--	--	3,991	52	5,289
PIG IRON THROUGH FEBRUARY 1979	7,835	--	--	--	7,965	52	5,289
1/ EXCLUDES COMPANIES THAT PRODUCE BOTH STEEL INGOTS AND CASTINGS.							
2/ BASED ON RETURNS FROM 77% 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 1979 (PRELIMINARY) 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, STOOLES, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLES, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLES, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLES, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLES, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLES, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-OPERATIONS BUILDINGS, ETC.)		
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	79,605	11,537	8,022	46	102,400	1,252	42,393			
CUT STRUCTURAL AND PLATE-----	156,602	7,193	14,547	--	177,919	370	106,693			
NO.1 HEAVY MELTING STEEL-----	20,276	7,537	5,586	--	29,576	1,872	53,570			
NO.2 HEAVY MELTING STEEL-----	5,890	235	2,557	48	8,875	107	4,875			
NO.1 AND ELECTRIC FURNACE BUNDLES---	18,150	21,137	6,055	41	39,846	--	16,849			
NO.2 AND ALL OTHER BUNDLES-----	45,921	--	--	--	47,666	--	38,147			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	18,681	7,999	106	--	24,813	--	11,771			
RAILROAD RAILS-----	10,663	--	24	--	10,738	24	10,756			
TURNINGS AND BORINGS-----	46,104	9,636	1,675	2	62,463	1,419	81,060			
SLAG SCRAP (FE CONTENT 70 PERCENT)---	6,401	--	45	--	7,201	--	21,973			
SHREDDER OR FRAGMENTIZED-----	75,172	4,703	3,601	--	81,213	583	37,277			
NO. 1 BUSHELING-----	31,020	4,362	1,192	--	38,608	1,520	16,974			
ALL OTHER CARBON STEEL SCRAP-----	76,796	53,791	14,642	4	165,915	480	98,815			
STAINLESS STEEL SCRAP-----	307	1	718	2	968	49	1,622			
ALLOY STEEL (EXCEPT STAINLESS)---	2,003	--	398	111	2,521	262	7,353			
INGOT MOLD AND STUOL SCRAP-----	17,175	87	10,371	266	21,097	324	44,934			
MACHINERY AND CUPOLA CAST IRON -----	76,216	6,827	65,367	28	144,820	333	85,305			
CAST IRON BORINGS-----	59,212	52,065	42,904	42	150,598	5,508	78,876			
MOTOR BLOCKS-----	57,101	2,313	38,187	--	96,950	300	64,168			
OTHER IRON SCRAP-----	107,883	4,563	297,151	1,360	406,342	16,019	187,337			
OTHER MIXED SCRAP-----	39,876	74,716	38,399	413	139,691	470	62,770			
TOTAL SCRAP-----	951,054	268,702	543,547	2,363	1,760,220	30,892	1,073,518			
TOTAL SCRAP THROUGH FEBRUARY 1979---	1,902,434	490,475	1,089,305	4,965	3,485,094	56,155	1,073,518			
PIG IRON-----										
	225,617	--	--	--	230,254	753	111,891			
PIG IRON THROUGH FEBRUARY 1979-----	461,309	--	--	--	471,283	1,508	111,891			
1/ BASED ON RETURNS FROM 70% OF REPORTING CONSUMERS, REPRESENTING 91% OF SCRAP CONSUMPTION.										

TABLE 5. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN FEBRUARY 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		SCRAP		PIG IRON	
BLAST FURNACE 3/	241,987	--	--	--	--	--	--	--	241,987	--
BASIC OXYGEN PROCESS 4/	1,991,229	5,181,336	--	--	--	--	--	--	1,991,229	5,181,336
OPEN-HEARTH FURNACE	879,084	1,042,526	--	--	5,969	--	--	--	885,053	1,042,771
ELECTRIC FURNACE	2,681,187	42,162	--	--	258,707	3,303	567,397	26,278	3,507,291	71,743
CUPOLA FURNACE	34,665	9,117	--	--	8,678	55	1,152,478	77,494	1,195,821	86,666
OTHER (INCLUDING AIR FURNACE) 5/	70,991	23,933	--	--	2,240	388	40,345	3,058	113,576	27,379
DIRECT CASTINGS 6/	--	137,585	--	--	--	--	--	123,424	--	261,009
TOTAL	5,899,143	6,436,659	275,594	3,991	1,760,220	230,254	7,934,957	6,670,904		

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 1979 (FINAL) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF HOME SCRAP				CONSUMPTION				ENDING STOCKS	
	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM SCRAP (INCLUDES INGOT AND SCRAP FROM OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)						
SCRAP:														
CARBON STEEL--														
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	45,079	683	3,532	517	44,617	4,787	75,059							
CUT STRUCTURAL AND PLATE-----	23,735	6,985	30,027	--	56,630	473	38,184							
NO.1 HEAVY MELTING STEEL-----	530,016	224,628	1,445,176	9,360	2,150,000	197,612	1,984,431							
NO.2 HEAVY MELTING STEEL-----	178,024	18,362	120,733	126	347,283	4,093	386,807							
NO.1 AND ELECTRIC FURNACE BUNDLES---	589,858	47,040	256,619	670	958,093	15,714	1,266,944							
NO.2 AND ALL OTHER BUNDLES-----	146,015	3,754	5,329	--	153,001	2,785	257,931							
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	3,764	--	1,673	--	6,027	--	5,198							
RAILROAD RAILS-----	5,559	68	--	--	8,672	--	3,437							
TURNINGS AND BORINGS-----	107,644	5,688	33,959	108	135,842	8,051	119,053							
SLAG SCRAP (FE CONTENT 70 PERCENT)---	142,946	3,449	215,562	--	346,082	5,182	227,817							
SHREDDED OR FRAGMENTIZED-----	147,664	36,406	1,967	--	199,310	--	133,168							
NO. 1 BUSHELING-----	128,129	3,867	466	--	145,764	833	132,571							
ALL OTHER CARBON STEEL SCRAP-----	143,998	14,812	902,599	22,019	985,583	46,121	747,324							
STAINLESS STEEL SCRAP-----														
ALLOY STEEL (EXCEPT STAINLESS)-----	18,292	24,109	128,439	768	166,369	9,235	253,433							
INGOT MOLD AND STOOL SCRAP-----	29,896	60,168	92,844	167,995	259,515	81,884	618,035							
MACHINERY AND CUPOLA CAST IRON-----	255	--	3,855	--	6,290	--	3,835							
CAST IRON BORINGS-----	12,062	2,965	13,516	1,460	32,332	3,889	80,508							
MOTOR BLOCKS-----	283	--	--	--	665	--	10							
OTHER IRON SCRAP-----	25,197	12,581	55,407	358	67,668	23,395	210,749							
OTHER MIXED SCRAP-----	16,489	7,475	10,894	6	36,759	3,873	54,158							
TOTAL SCRAP-----	2,323,054	475,526	3,384,495	203,539	6,200,802	410,989	6,693,504							
TOTAL SCRAP THROUGH JANUARY 1979---	2,323,054	475,526	3,384,495	203,539	6,200,802	410,989	6,693,504							
FIG IRON-----														
PIG IRON THROUGH JANUARY 1979-----	269,922		7,035,498		6,852,779	553,773	731,597							
PIG IRON THROUGH JANUARY 1979-----														
1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS.														
2/ BASED ON RETURNS FROM 98% OF REPORTING CONSUMERS, REPRESENTING 100% OF SCRAP CONSUMPTION.														

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

2/ BASED ON RETURNS FROM 98% OF REPORTING CONSUMERS, REPRESENTING 100% 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 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	RECYCLING SCRAP (INCLUDES INGOT CHASED AND MOLD, STTOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP)	OPERATIONS BUILDINGS, ETC.)	CONSUMPTION OF BOTH PUR-	SHIPMENTS	STOCKS			
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	53,118	339	19,540	--	80,274	181	59,883			
CUT STRUCTURAL AND PLATE-----	13,381	998	2,471	--	19,908	48	15,457			
NO.1 HEAVY MELTING STEEL-----	14,240	1,993	5,342	--	20,475	210	19,367			
NO.2 HEAVY MELTING STEEL-----	6,561	--	2,171	--	8,950	--	4,605			
NO.1 AND ELECTRIC FURNACE BUNDLES----	2,295	--	207	--	2,672	--	1,211			
NO.2 AND ALL OTHER BUNDLES-----	916	--	--	--	679	--	1,801			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	6,176	100	1,387	--	7,509	104	3,867			
RAILROAD RAILS-----	19	10	--	--	76	--	92			
TURNINGS AND BORINGS-----	4,111	517	1,522	--	6,092	136	4,511			
SLAG SCRAP (FE CONTENT 70 PERCENT)---	--	--	363	--	339	14	169			
SHREDDER OR FRAGMENTIZED-----	3,344	2,409	--	--	8,966	--	2,697			
NO. 1 BUSHELING-----	1,213	1,685	--	--	4,450	--	4,028			
ALL OTHER CARBON STEEL SCRAP-----	43,280	3,528	30,314	176	74,238	3,758	50,324			
STAINLESS STEEL SCRAP-----										
ALLOY STEEL (EXCEPT STAINLESS)-----	1,611	86	2,428	--	4,520	518	4,250			
INGOT MOLD AND STOOD SCRAP-----	5,287	933	8,649	--	14,203	--	24,531			
MACHINERY AND CUPOLA CAST IRON-----	456	257	26	--	473	16	1,129			
CAST IRON BORINGS-----	357	708	343	--	773	--	1,274			
MOTOR BLOCKS-----	4,022	138	2,933	--	7,457	65	4,641			
OTHER IRON SCRAP-----	24	--	--	--	103	--	174			
OTHER MIXED SCRAP-----	2,396	504	6,897	--	11,269	77	13,662			
	--	--	470	--	496	--	43			
TOTAL SCRAP-----	163,007	14,205	85,063	176	273,922	5,127	217,716			
TOTAL SCRAP THROUGH JANUARY 1979----	163,007	14,205	85,063	176	273,922	5,127	217,716			
PIG IRON-----										
	RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS
	4,261			--			3,974			
PIG IRON THROUGH JANUARY 1979-----	4,261			--			3,974			5,772

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

2/ BASED ON RETURNS FROM 89% 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 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	FROM OTHER RESULTING FROM CURRENT OPERATIONS	FROM SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOD, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP BUILDINGS, ETC.)	RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOD, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP BUILDINGS, ETC.)	FROM OTHER RESULTING FROM CURRENT OPERATIONS	FROM SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOD, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP BUILDINGS, ETC.)	CONSUMPTION					
SCRAP:													
CARBON STEEL-													
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	80,175	10,120	8,649	38	101,460	938	45,961	108,277	53,066	5,063	10,847	39,302	45,961
CUT STRUCTURAL AND PLATE-----	140,217	5,418	14,216	3	159,853	667	108,277	53,066	5,066	10,847	39,302	45,961	108,277
NO-1 HEAVY MELTING STEEL-----	20,305	3,570	7,742	--	38,252	2,998	53,066	10,847	39,302	45,961	108,277	53,066	20,305
NO-2 HEAVY MELTING STEEL-----	5,641	374	3,146	45	8,177	113	5,063	10,847	39,302	45,961	108,277	53,066	5,641
NO-1 AND ELECTRIC FURNACE BUNDLES----	17,060	12,815	6,534	27	42,025	--	10,847	39,302	45,961	108,277	53,066	5,063	17,060
NO-2 AND ALL OTHER BUNDLES-----	63,157	--	--	--	59,054	--	10,847	39,302	45,961	108,277	53,066	5,063	63,157
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	18,479	5,353	106	--	25,475	--	9,713	11,353	85,365	22,265	38,649	18,740	18,479
RAILROAD RAILS-----	10,949	--	24	--	10,537	24	11,353	85,365	22,265	38,649	18,740	18,479	10,949
TURNINGS AND BORINGS-----	41,267	5,996	1,698	--	57,188	1,209	11,353	85,365	22,265	38,649	18,740	18,479	41,267
SLAG SCRAP (FE CONTENT 70 PERCENT)----	4,561	--	53	--	6,163	53	22,265	38,649	18,740	18,479	39,302	45,961	4,561
SHREDDER OR FRAGMENTIZED-----	78,894	3,908	--	--	86,811	325	38,649	18,740	18,479	39,302	45,961	108,277	78,894
NO. 1 BUSHING-----	39,772	4,911	1,192	--	45,718	1,520	18,740	18,479	39,302	45,961	108,277	53,066	39,772
ALL OTHER CARBON STEEL SCRAP-----	88,450	41,721	11,033	4	151,458	359	119,923	1,630	7,624	38,802	81,985	80,448	88,450
STAINLESS STEEL SCRAP-----													
ALLOY STEEL (EXCEPT STAINLESS)-----	342	--	707	--	976	28	1,630	7,624	38,802	81,985	80,448	66,052	342
INGOT MOLD AND STOOD SCRAP-----	2,189	--	418	79	2,520	161	1,630	7,624	38,802	81,985	80,448	66,052	2,189
MACHINERY AND CUPOLA CAST IRON -----	8,694	452	10,310	534	21,601	644	38,802	81,985	80,448	66,052	199,259	56,833	8,694
CAST IRON BORINGS-----	72,526	6,033	71,889	28	155,425	589	81,985	80,448	66,052	199,259	56,833	1,630	72,526
MOTOR BLOCKS-----	66,798	58,577	33,610	35	151,005	4,252	80,448	66,052	199,259	56,833	1,630	7,624	66,798
OTHER IRON SCRAP-----	60,358	2,942	40,644	--	101,032	426	66,052	199,259	56,833	1,630	7,624	38,802	60,358
OTHER MIXED SCRAP-----	83,193	10,617	299,124	1,455	374,159	10,171	199,259	56,833	1,630	7,624	38,802	81,985	83,193
	48,353	48,966	34,663	354	125,985	786	56,833	1,630	7,624	38,802	81,985	80,448	48,353
TOTAL SCRAP-----	951,380	221,773	545,758	2,602	1,724,874	25,263	1,097,157	1,097,157	1,097,157	1,097,157	1,097,157	1,097,157	951,380
TOTAL SCRAP THROUGH JANUARY 1979----	951,380	221,773	545,758	2,602	1,724,874	25,263	1,097,157	1,097,157	1,097,157	1,097,157	1,097,157	1,097,157	951,380
PIG IRON-----													
	235,692	--	--	--	241,029	755	114,593	114,593	114,593	114,593	114,593	114,593	235,692
PIG IRON THROUGH JANUARY 1979-----	235,692	--	--	--	241,029	755	114,593	114,593	114,593	114,593	114,593	114,593	235,692
1/ BASED ON RETURNS FROM 79% OF REPORTING CONSUMERS, REPRESENTING 94% OF SCRAP CONSUMPTION.													

TABLE 9. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN JANUARY 1979 (FINAL), BY TYPE OF CONSUMER AND TYPE OF FURNACE OR OTHER USE
(SHORT TONS)

TYPE OF FURNACE OR OTHER USE	MANUFACTURERS OF PIG IRON AND STEEL INGOTS AND CASTINGS 1/		MANUFACTURERS OF STEEL CASTINGS 2/		IRON FOUNDRIES AND MISCELLANEOUS USERS		TOTAL ALL TYPES	
	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON
BLAST FURNACE 3/	286,534	--	--	--	--	--	286,534	--
BASIC OXYGEN PROCESS 4/	2,143,319	5,587,819	--	--	--	--	2,143,319	5,587,819
OPEN-HEARTH FURNACE	857,315	1,951,797	5,347	241	--	--	862,662	1,052,038
ELECTRIC FURNACE	2,797,789	42,298	255,796	3,228	539,527	25,880	3,593,112	71,406
CUPOLA FURNACE	31,891	16,265	9,665	59	1,136,903	82,152	1,178,459	98,476
OTHER (INCLUDING AIR FURNACE) 5/	83,954	24,484	3,114	446	48,444	2,920	135,512	27,850
DIRECT CASTINGS 6/	--	130,116	--	--	--	130,077	--	260,193
TOTAL	6,200,802	6,952,779	273,922	3,974	1,724,874	241,029	8,199,598	7,097,782

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 1,145,241 short tons in February compared with 893,447 tons in January. Exports of pig iron during February totaled 4,503 tons and 34,620 tons in January. Imports of scrap totaled 48,352 short tons in February compared with 46,455 tons in January. Of the scrap imported during February 46,650 short tons came from Canada and 1,702 tons from other sources. Imports of pig iron totaled 33,452 short tons in February and 49,419 tons in January. In addition to the foregoing imports of pig iron during February, there were 3 tons of sponge iron, valued at \$2,132, imported from Canada.

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

Country	February 1979		Year to date	
	Short tons	Value	Short tons	Value
Canada-----	59,356	\$4,147,509	171,686	\$8,292,041
Germany, Federal Rep. of-----	2,286	944,864	28,202	2,704,299
Greece-----	11,098	644,021	55,274	5,498,992
Indonesia-----	19,317	1,932,871	19,317	1,932,871
Italy-----	97,240	8,815,186	114,770	10,126,440
Japan-----	530,131	50,504,388	951,559	89,395,555
Korea, Republic of-----	150,313	14,377,619	190,681	17,795,133
Mexico-----	61,777	6,216,103	141,300	13,864,027
Qatar-----	--	--	--	--
Singapore-----	--	--	19	5,440
Spain-----	68,133	5,051,886	156,530	13,603,182
Taiwan-----	91,175	1,533,970	126,437	5,793,388
Turkey-----	33,446	2,752,464	59,186	5,213,915
United Kingdom-----	280	26,538	1,228	199,073
Other countries-----	20,689	2,253,896	22,499	2,986,567
Total-----	1,145,241	99,201,315	2,038,688	177,410,923

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	February 1979		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	274,029	\$25,048,851	475,419	\$42,439,112
No. 2 heavy melting steel scrap-----	116,987	10,057,049	198,510	16,827,123
No. 1 bundles-----	15,225	1,317,449	29,391	2,593,754
No. 2 bundles-----	66,770	5,024,957	124,477	8,328,093
Borings, shovelings and turnings-----	50,441	3,305,328	98,469	5,902,272
Stainless steel-----	4,617	2,390,063	53,920	6,850,657
Shredded steel scrap-----	301,903	29,497,777	579,180	55,479,898
Iron scrap (excluding borings and shovelings)	77,154	7,335,781	98,290	9,163,186
All other steel scrap <u>1/-</u>	238,115	15,224,060	381,032	29,826,828
Total-----	1,145,241	99,201,315	2,038,688	177,410,923
Ships, boats, and other vessels for breaking up (for scrapping)-----	12,000	660,655	24,198	1,350,933
Total-----	1,157,241	99,861,970	2,062,886	178,761,856

1/ Includes tinplate and terneplate.

Source: U.S. Bureau of Census.