



MINERAL INDUSTRY SURVEYS

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
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Iron and Steel Scrap, Monthly

IRON AND STEEL SCRAP IN JULY 1976

Returns from 81% of reporting consumers representing 96% of total scrap consumption, indicated that consumption of iron and steel scrap in July on a daily average basis was 12% below that in June, according to the Bureau of Mines, U.S. Department of the Interior. Compared with June data, daily average production and net receipts were down 9% and 15%, respectively, and stocks at the end of the month were up 3%.

Exports of ferrous scrap during the month were 15% above those for June 1976 and 9% below those for July 1975. Spain was the largest importer of U.S. scrap, taking 25% of the total exported in July 1976. The next largest importers were Italy and Japan, which received 14% and 12%, respectively.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of July was \$84.83 per long ton, up 46% from the price of \$58.17 at the end of July 1975.

Pig iron production and consumption on a daily average basis during the month were both down 2% from those of the previous month. Stocks of pig iron increased 4% during July compared with those at the end of June 1976.

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

	JULY 1976 (PRELIMINARY) 1/				
	MFRS. OF PIG IRON AND STEEL INGOTS 6 CASTINGS 2/	MFRS. OF STEEL CASTINGS 3/	IRON FOUNDRIES AND MISCEL- LANEOUS USERS	TOTAL FOR MONTH OF JUL 1976	FINAL TOTAL FOR MONTH OF JUN 1976 4/ TOTAL YEAR THROUGH JUL 1976 5/
SCRAP:					
RECEIPTS FROM DEALERS AND OTHER SOURCES	2,324,652	102,830	714,494	3,141,976	22,793,951
RECEIPTS FROM OTHER OWN COMPANY PLANTS	551,611	9,983	241,779	823,373	5,858,937
PRODUCTION RECYCLATING SCRAP	3,674,854	66,070	989,064	4,129,988	28,393,456
PRODUCTION OBSOLETE SCRAP	194,770	1,567	2,337	198,674	1,411,749
CONSUMPTION	5,970,180	175,625	1,911,255	7,457,060	53,994,380
SHIPMENTS	524,994	1,535	28,702	555,231	3,495,881
STOCKS END OF MONTH	8,346,151	244,102	1,060,912	9,651,165	9,381,033
PIG IRON:					
RECEIPTS	521,999	2,686	235,522	760,207	5,111,051
PRODUCTION	7,997,782	--	--	7,997,782	52,361,521
CONSUMPTION	7,690,801	3,181	241,572	7,935,554	52,541,487
SHIPMENTS	761,555	--	849	762,404	4,959,537
STOCKS END OF MONTH	1,281,081	6,892	128,979	1,416,952	--
DIRECT-REDUCED OR PREREDUCED IRON:					
RECEIPTS	--	--	--	27,553	201,680
PRODUCTION	--	--	--	--	--
CONSUMPTION	--	--	--	27,398	198,394
SHIPMENTS	--	--	--	--	--
STOCKS END OF MONTH	--	--	--	3,527	3,366

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 85% 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, JULY 1976 (PRELIMINARY) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION			ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER	COMPANY PLANTS	FROM OTHER OWN	SCRAP RESULTING FROM CURRENT OPERATIONS	RECYCLING OBSOLETE SCRAP (INCLUDES INGOT AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	SCRAP (INCLUDES INGOT AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	CHASED AND HOME SCRAP	RE-SCRAP	SHIPMENTS OF SCRAP	
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS	82,100	864	--	17,225	71	82,715			2,134	131,081
CUT STRUCTURAL AND PLATE	16,373	--	--	21,380	668	40,219			3,494	30,179
NO.1 HEAVY MELTING STEEL	468,636	291,550	--	1,694,537	11,673	2,172,724			263,390	2,348,817
NO.2 HEAVY MELTING STEEL	196,764	3,639	--	93,252	99	244,478			3,778	612,051
NO.1 AND ELECTRIC FURNACE BUNDLES	584,615	38,605	--	219,125	964	806,804			2,906	1,538,855
NO.2 AND ALL OTHER BUNDLES	224,476	4,700	--	32,537	--	232,092			16,055	444,668
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	15,326	--	--	7,364	--	15,928			153	25,445
RAILROAD RAILS	4,010	165	--	173	--	5,265			--	3,918
TURNINGS AND BORINGS	91,786	6,896	--	24,436	103	111,196			9,730	106,663
SLAG SCRAP (FE CONTENT 70 PERCENT)	91,361	36,495	--	262,460	--	389,965			15,278	251,902
SHREDDED OR FRAGMENTIZED	136,575	47,419	--	727	--	162,423			1,213	263,728
ALL OTHER CARBON STEEL SCRAP	245,214	12,506	--	982,806	5,793	1,130,699			73,110	959,223
STAINLESS STEEL SCRAP										
ALLOY STEEL (EXCEPT STAINLESS)	28,010	1,709	--	48,798	90	78,961			2,108	98,497
INGOT MOLD AND STUOL SCRAP	10,875	11,530	--	105,086	227	122,329			14,480	251,892
MACHINERY AND CUPOLA CAST IRON	66,145	75,172	--	62,945	167,694	245,109			75,324	958,515
CAST IRON BORINGS	2,112	--	--	--	--	501			--	8,758
MOTOR BLOCKS	19,419	6,892	--	29,981	6,760	55,874			10,220	85,827
OTHER IRON SCRAP	799	--	--	--	--	1,040			--	389
OTHER MIXED SCRAP	21,289	10,095	--	61,469	621	46,409			26,297	126,940
	18,767	3,374	--	14,553	7	25,449			5,324	98,863
TOTAL SCRAP	2,324,652	551,611	--	3,674,854	194,770	5,970,180			524,994	8,346,151
TOTAL SCRAP THROUGH JULY 1976	15,987,676	3,534,933	--	24,563,171	1,383,915	41,332,535			3,270,076	8,346,151
	RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS
PIG IRON	521,999			7,997,782			7,690,501			1,281,081
PIG IRON THROUGH JULY 1976	3,400,834			52,361,521			50,812,895			1,281,081

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS.
/ BASED ON RETURNS FROM 94% 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 94% OF REPORTING CONSUMERS, REPRESENTING 99% OF SCRAP CONSUMPTION.

TABLE 3. - MANUFACTURERS OF STEEL CASTINGS 1/ - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, 1976 (PRELIMINARY) 2/ BY GRADE, JULY (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION OF BOTH PURCHASED AND HOME SCRAP			ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	OTHER RESULTING FROM CURRENT OPERATIONS BUILDINGS, ETC.)	RECYCLING SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING SCRAP)	RECYCLING SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING SCRAP)	RECYCLING SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING SCRAP)	RECYCLING SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING SCRAP)	RECYCLING SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING SCRAP)	RECYCLING SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING SCRAP)	
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	32,521	186	13,809	47	48,714	9	70,803			
CUT STRUCTURAL AND PLATE---	9,111	1,154	1,454	--	12,676	65	19,338			
NO.1 HEAVY MELTING STEEL---	7,071	900	6,013	--	13,748	--	39,996			
NO.2 HEAVY MELTING STEEL---	3,218	--	1,027	--	3,284	--	2,566			
NO.1 AND ELECTRIC FURNACE BUNDLES---	3,629	--	--	--	3,334	--	4,768			
NO.2 AND ALL OTHER BUNDLES---	193	--	--	--	195	--	358			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)---	5,046	36	1,086	--	6,152	54	4,104			
RAILROAD RAILS---	179	--	--	--	43	--	193			
TURNINGS AND BORINGS---	3,032	341	1,945	--	5,357	726	3,279			
SLAG SCRAP (FE CONTENT 70 PERCENT)---	285	--	450	--	718	12	29			
SHREDDER OR FRAGMENTIZED---	2,975	1,025	--	--	3,519	--	8,678			
ALL OTHER CARBON STEEL SCRAP---	23,350	5,854	20,539	915	48,461	95	36,649			
STAINLESS STEEL SCRAP---	1,645	319	1,687	246	3,372	281	5,945			
ALLOY STEEL (EXCEPT STAINLESS)---	4,189	964	9,038	70	11,473	--	19,136			
INGOT MOLD AND STUOL SCRAP---	114	--	34	--	251	--	1,493			
MACHINERY AND CUPOLA CAST IRON ---	793	--	1,038	20	1,636	--	1,656			
CAST IRON BORINGS---	2,042	--	3,585	--	5,647	64	3,562			
MOTOR BLOCKS---	105	--	--	--	89	--	167			
OTHER IRON SCRAP---	3,307	4	4,016	269	6,519	229	21,282			
OTHER MIXED SCRAP---	25	--	369	--	437	--	100			
TOTAL SCRAP---	102,830	9,983	66,070	1,567	175,625	1,335	244,102			
TOTAL SCRAP THROUGH JULY 1976---	1,072,553	61,372	574,974	10,318	1,687,947	24,825	244,102			
PIG IRON---	RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS
	2,686	--	--	--	3,181	--	6,892			
PIG IRON THROUGH JULY 1976---	27,962	--	--	--	28,560	86	6,892			

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

2/ BASED ON RETURNS FROM 81% OF REPORTING CONSUMERS, REPRESENTING 77% 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, JULY 1976 (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 RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOODS, HOME SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOODS, HOME SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOODS, HOME SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOODS, HOME SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOODS, HOME SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOODS, HOME SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOODS, HOME SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.)	
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS--	47,049	10,433	6,778	4	60,474	134	71,975			
CUT STRUCTURAL AND PLATE--	94,905	13,437	7,147	597	102,178	1,233	91,872			
NO.1 HEAVY MELTING STEEL--	28,368	7,726	6,768	2	25,301	4,950	41,027			
NO.2 HEAVY MELTING STEEL--	9,641	284	167	110	6,144	72	10,384			
NO.1 AND ELECTRIC FURNACE BUNDLES--	9,482	11,183	5,067	20	29,932	137	9,768			
NO.2 AND ALL OTHER BUNDLES--	24,690	7,178	1,127	--	33,899	568	20,000			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)--	32,286	5,956	458	--	38,221	--	11,341			
RAILROAD RAILS--	4,595	--	24	--	5,708	24	10,431			
TURNINGS AND BORINGS--	55,448	8,072	567	131	63,693	984	87,507			
SLAG SCRAP (FE CONTENT 70 PERCENT)--	2,430	--	49	--	3,581	49	8,421			
SHREDDED OR FRAGMENTIZED--	59,880	8,972	470	--	60,249	--	40,278			
ALL OTHER CARBON STEEL SCRAP--	76,585	47,768	8,376	96	149,913	975	132,349			
STAINLESS STEEL SCRAP--	471	--	226	1	1,979	1	5,397			
ALLOY STEEL (EXCEPT STAINLESS)--	3,952	--	558	125	4,178	141	15,523			
INGOT MOLD AND STOOD SCRAP--	8,277	--	11,067	566	20,270	846	27,127			
MACHINERY AND CUPOLA CAST IRON--	71,561	11,758	38,022	109	120,546	1,974	90,987			
CAST IRON BORINGS--	26,742	53,351	17,691	213	97,314	3,413	85,120			
MOTOR BLOCKS--	48,283	1,756	23,491	--	70,702	18	68,201			
OTHER IRON SCRAP--	78,460	8,867	245,998	40	312,969	12,823	181,070			
OTHER MIXED SCRAP--	31,389	65,038	19,013	323	104,434	360	54,134			
TOTAL SCRAP--	714,494	261,779	389,064	2,337	1,311,255	28,702	1,060,912			
TOTAL SCRAP THROUGH JULY 1976--	5,733,722	2,262,632	3,255,311	17,516	10,973,898	200,980	1,060,912			
PIG IRON--										
PIG IRON THROUGH JULY 1976--										
1/ BASED ON RETURNS FROM 77% OF REPORTING CONSUMERS, REPRESENTING 83% OF SCRAP CONSUMPTION.										

TABLE 5. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN JULY 1976 (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/-	331,830	--	--	--	--	--	331,830	--
BASIC OXYGEN PROCESS 4/-	2,393,656	5,988,346	--	--	--	--	2,393,656	5,988,346
OPEN-HEARTH FURNACE	1,075,089	1,489,941	7,296	530	--	--	1,082,385	1,490,471
ELECTRIC FURNACE	2,050,841	13,338	160,315	2,421	304,709	14,553	2,515,865	30,312
CUPOLA FURNACE	31,360	11,883	6,631	30	901,433	77,953	939,424	89,866
OTHER (INCLUDING AIR FURNACE) 5/	87,404	32,018	1,383	200	105,113	3,445	193,900	35,663
DIRECT CASTINGS 6/	--	154,975	--	--	--	145,621	--	300,596
TOTAL	5,970,180	7,690,501	175,625	3,181	1,311,255	241,572	7,457,060	9,935,254

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 STOKES.

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, 1976 (FINAL) 2/ BY GRADE, JUNE 1976 (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 OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STTOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING SCRAP)	FROM SCRAP (INCLUDES INGOT CHASED AND MOLDS, STTOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING SCRAP)	CONSUMPTION OF BOTH PURCHASED AND HOME SCRAP	SHIPMENTS	STOCKS		
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	74,362	920	18,268	157	91,805	2,229	116,080			
CUT STRUCTURAL AND PLATE-----	20,327	1,993	24,452	1,020	32,765	4,859	36,535			
NO.1 HEAVY MELTING STEEL-----	519,756	289,263	1,679,882	14,720	2,221,950	276,456	2,305,857			
NO.2 HEAVY MELTING STEEL-----	239,624	7,304	94,152	97	292,778	3,920	565,927			
NO.1 AND ELECTRIC FURNACE BUNDLES---	571,286	51,200	222,923	1,292	791,895	4,731	1,515,150			
NO.2 AND ALL OTHER BUNDLES-----	256,910	12,072	27,708	--	244,896	14,888	431,041			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	16,544	--	7,791	--	19,350	--	19,184			
RAILROAD RAILS-----	4,900	--	--	--	3,472	--	4,550			
TURNINGS AND BORINGS-----	105,303	10,471	28,580	90	132,752	10,972	104,275			
SLAG SCRAP (FE CONTENT 70 PERCENT)---	96,957	18,280	317,608	6,046	376,926	11,415	266,575			
SHREDDED OR FRAGMENTIZED-----	173,068	54,783	48	--	210,167	1,343	247,334			
ALL OTHER CARBON STEEL SCRAP-----	218,224	21,724	1,003,554	5,424	1,130,947	61,869	929,491			
STAINLESS STEEL SCRAP-----										
ALLOY STEEL (EXCEPT STAINLESS)-----	43,663	3,170	51,572	17	88,561	3,371	101,082			
INGOT MOLD AND STUOL SCRAP-----	18,514	20,957	139,567	539	163,234	13,321	260,964			
MACHINERY AND CUPOLA CAST IRON -----	49,465	70,917	95,531	165,143	292,173	74,034	904,877			
CAST IRON BORINGS-----	5,137	--	--	--	684	--	7,147			
MOTOR BLOCKS-----	25,206	15,741	38,994	533	66,484	13,142	94,001			
OTHER IRON SCRAP-----	2,515	--	--	--	2,234	--	630			
OTHER MIXED SCRAP-----	25,509	11,647	53,852	1,306	63,049	31,224	106,072			
	15,368	5,207	14,904	6	24,832	12,970	93,387			
TOTAL SCRAP-----	2,482,638	595,649	3,819,386	196,390	6,250,954	540,744	8,110,159			
TOTAL SCRAP THROUGH JUNE 1976---	13,663,024	2,983,322	20,888,317	1,189,145	35,362,355	2,745,082	8,110,159			
PIG IRON-----										
RECEIPTS				PRODUCTION		CONSUMPTION		STOCKS		
518,681				7,876,900		7,586,827		1,213,682		
PIG IRON THROUGH JUNE 1976-----										
2,878,835				44,363,739		43,122,394		1,213,682		
1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS.										
2/ BASED ON RETURNS FROM 94% 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, JUNE 1976 (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, STOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.) SCRAP)	RECYCLATING	OBsolete	SCRAP OF BOTH PUR-	OF BOTH PUR-	CHASED AND	SHIPMENTS	
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	50,910	1,910	17,427	47	69,656	223	73,232			
CUT STRUCTURAL AND PLATE-----	17,217	2,299	2,086	21	20,182	85	20,286			
NO.1 HEAVY MELTING STEEL-----	12,712	323	7,124	--	21,003	--	40,846			
NO.2 HEAVY MELTING STEEL-----	4,951	--	1,505	--	6,360	--	1,605			
NO.1 AND ELECTRIC FURNACE BUNDLES---	4,855	--	--	--	4,022	--	4,701			
NO.2 AND ALL OTHER BUNDLES-----	290	--	--	--	303	--	360			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	4,885	47	1,168	--	6,323	52	4,004			
RAILROAD RAILS-----	--	17	--	--	43	--	57			
TURNINGS AND BORINGS-----	4,097	337	2,634	--	6,973	819	3,278			
SLAG SCRAP (FE CONTENT 70 PERCENT)---	465	--	472	--	936	6	24			
SHREDDED OR FRAGMENTIZED-----	7,645	1,025	--	4	8,045	--	8,170			
ALL OTHER CARBON STEEL SCRAP-----	38,284	7,198	21,035	1,237	70,319	--	34,921			
STAINLESS STEEL SCRAP-----	2,014	554	1,643	276	4,346	223	5,885			
ALLOY STEEL (EXCEPT STAINLESS)---	4,951	807	13,615	2	16,921	--	18,946			
INGOT MOLD AND STUOL SCRAP-----	504	--	24	--	249	10	1,685			
MACHINERY AND CUPOLA CAST IRON ---	746	--	1,303	--	2,231	--	1,446			
CAST IRON BORINGS-----	3,494	--	6,057	--	9,342	--	3,646			
MOTOR BLOCKS-----	54	--	--	--	90	--	151			
OTHER IRON SCRAP-----	3,661	91	5,254	45	9,435	104	20,454			
OTHER MIXED SCRAP-----	25	--	367	--	431	--	143			
TOTAL SCRAP-----	161,760	14,608	82,014	1,632	257,210	1,299	243,840			
TOTAL SCRAP THROUGH JUNE 1976---	969,723	51,369	508,904	8,751	1,512,322	23,290	243,840			
PIG IRON-----		RECEIPTS	PRODUCTION		CONSUMPTION	SHIPMENTS	STOCKS			
	3,963	--	--	--	4,625	--	7,455			
PIG IRON THROUGH JUNE 1976-----	25,276	--	--	--	25,379	86	7,455			

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

2/ BASED ON RETURNS FROM 86% OF REPORTING CONSUMERS, REPRESENTING 94% OF SCRAP CONSUMPTION.

TABLE 8. - IRON FOUNDRIES AND MISCELLANEOUS USERS - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS, AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, BY GRADE, JUNE 1976 (FINAL) 1/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION OF BOTH PURCHASED AND RECYCLED SCRAP (INCLUDES INGOT CHASED AND MOLD, STUOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING SHIPMENTS OF SCRAP OPERATIONS BUILDINGS, ETC.) SCRAP)			ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS		RECYCLING SCRAP (INCLUDES INGOT CHASED AND MOLD, STUOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING SHIPMENTS OF SCRAP OPERATIONS BUILDINGS, ETC.) SCRAP)	FROM OTHER OWN COMPANY PLANTS	FROM OTHER OWN COMPANY PLANTS	RECYCLING SCRAP (INCLUDES INGOT CHASED AND MOLD, STUOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING SHIPMENTS OF SCRAP OPERATIONS BUILDINGS, ETC.) SCRAP)	FROM OTHER OWN COMPANY PLANTS		
SCRAP:										
CARBON STEEL--										
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	59,298	10,769	9,283	24	79,535	4,006	68,079			
CUT STRUCTURAL AND PLATE-----	116,230	10,921	11,716	40	143,213	402	82,066			
NO.1 HEAVY MELTING STEEL-----	22,506	10,653	5,049	--	36,987	5,527	28,404			
NO.2 HEAVY MELTING STEEL-----	11,691	228	1,527	5	15,625	--	6,396			
NO.1 AND ELECTRIC FURNACE BUNDLES----	11,835	17,004	5,337	69	36,671	--	14,182			
NO.2 AND ALL OTHER BUNDLES-----	26,670	6,800	151	--	33,938	156	18,651			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	34,304	8,975	874	--	45,764	--	10,243			
RAILROAD RAILS-----	8,481	--	24	--	8,429	24	11,445			
TURNINGS AND BORINGS-----	58,692	10,139	1,838	50	61,553	5,372	87,876			
SLAG SCRAP (FE CONTENT 70 PERCENT)----	3,869	--	49	--	2,633	49	9,900			
SHREDDER OR FRAGMENTIZED-----	60,539	19,289	--	--	80,688	--	31,039			
ALL OTHER CARBON STEEL SCRAP-----	90,234	82,005	11,544	5	177,473	3,483	142,158			
STAINLESS STEEL SCRAP-----	1,030	--	438	3	2,842	11	6,895			
ALLOY STEEL (EXCEPT STAINLESS)-----	3,139	--	697	89	3,677	232	15,265			
INGOT MOLD AND STUOL SCRAP-----	9,128	--	11,247	559	22,010	729	28,376			
MACHINERY AND CUPOLA CAST IRON -----	87,880	14,336	61,064	95	158,756	1,779	96,096			
CAST IRON BORINGS-----	40,743	66,719	23,527	14	132,563	4,782	85,672			
MOTOR BLOCKS-----	54,316	5,136	31,550	--	90,790	348	64,080			
OTHER IRON SCRAP-----	97,556	7,972	299,501	528	390,192	12,467	173,142			
OTHER MIXED SCRAP-----	40,014	81,986	18,789	548	140,515	572	47,069			
TOTAL SCRAP-----	838,155	352,932	494,205	2,029	1,663,854	39,939	1,027,034			
TOTAL SCRAP THROUGH JUNE 1976----	5,019,228	2,000,853	2,866,247	15,179	9,662,643	172,278	1,027,034			
PIG IRON										
	RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS
	264,600			--			267,419			134,834
PIG IRON THROUGH JUNE 1976-----	1,446,733			--			1,458,460			134,834
1/ BASED ON RETURNS FROM 83% OF REPORTING CONSUMERS, REPRESENTING 94% OF SCRAP CONSUMPTION.										

TABLE 9. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN JUNE 1976 (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	
	-----		-----		-----		-----		-----		-----		-----	
BLAST FURNACE 3/-----	350,751	--	--	--	--	--	--	--	--	--	--	--	350,751	--
BASIC OXYGEN PROCESS 4/-----	2,264,518	5,718,934	--	--	--	--	--	--	--	--	--	--	2,264,518	5,718,934
OPEN-HEARTH FURNACE-----	1,175,166	1,637,969	--	--	7,992	559	--	--	--	--	--	--	1,183,158	1,638,528
ELECTRIC FURNACE-----	2,370,564	18,377	--	--	235,952	3,513	--	--	373,686	16,713	--	--	2,980,202	38,603
CUPOLA FURNACE-----	24,041	10,828	--	--	11,080	56	--	--	1,164,338	93,885	--	--	1,199,459	104,769
OTHER (INCLUDING AIR FURNACE) 5/	65,914	35,676	--	--	2,186	497	--	--	125,830	4,466	--	--	193,930	40,639
DIRECT CASTINGS 6/-----	--	165,043	--	--	--	--	--	--	--	152,355	--	--	--	317,398
TOTAL-----	6,250,954	7,586,827	257,210	4,625	1,663,854	267,419	8,172,018	7,858,871						

- 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 752,174 short tons in July compared with 652,627 tons in June. Exports of pig iron during July totaled 3,457 tons and 7,141 tons in June. Imports of scrap totaled 67,572 short tons in July compared with 57,424 tons in June. Of the scrap imported during July, 63,455 short tons came from Canada and 4,117 tons from other sources. Imports of pig iron totaled 33,482 short tons in July and 39,243 tons in June. No sponge iron was imported in July.

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

Country	July 1976		Year to date	
	Short tons	Value	Short tons	Value
Argentina-----	4,490	\$417,538	4,490	\$417,538
Canada-----	67,321	3,619,957	549,746	31,481,284
China, People's Rep. of----	--	--	51,413	4,192,618
Greece-----	24,255	1,953,476	106,329	8,536,508
Italy-----	105,033	8,753,977	478,673	40,334,487
Japan-----	90,606	6,852,692	579,935	44,122,407
Korea, Republic of-----	52,060	4,168,625	468,117	31,145,697
Mexico-----	38,334	2,933,481	418,173	33,307,303
Spain-----	188,521	14,517,268	1,328,985	93,596,224
Sweden-----	40,048	624,926	49,287	4,203,763
Taiwan-----	29,346	2,267,422	143,280	12,494,613
United Kingdom-----	43,010	4,448,671	339,505	29,640,724
Other countries-----	69,150	7,718,553	295,985	31,166,930
Total-----	752,174	58,276,586	4,813,918	364,640,096

^{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	July 1976		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	114,031	\$9,102,628	1,182,135	\$88,806,298
No. 2 heavy melting steel scrap-----	38,364	2,813,299	399,654	26,996,360
No. 1 bundles-----	20,724	2,058,358	78,097	6,527,894
No. 2 bundles-----	153,055	9,406,349	602,928	33,938,090
Borings, shovelings and turnings-----	37,467	1,871,318	379,912	19,857,994
Stainless steel-----	10,416	5,560,117	59,437	24,920,981
Shredded steel scrap-----	236,268	18,981,606	1,300,465	98,582,602
Iron scrap (excluding borings and shovelings)---	36,420	2,689,720	293,381	21,504,712
All other steel scrap ^{1/} ----	105,429	5,793,191	517,909	43,505,165
Total-----	752,174	58,276,586	4,813,918	364,640,096
Ships, boats, and other vessels for breaking up (for scrapping)-----	47	7,100	8,767	643,258
Total-----	752,221	58,283,686	4,822,685	365,283,354

^{1/} Includes tinplate and terneplate.