



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 JUNE 1978

Returns from 75% of reporting consumers representing 95% of total scrap consumption, indicated that consumption of iron and steel scrap in June on a daily average basis was 4% below that in May, according to the Bureau of Mines, U.S. Department of the Interior. Compared with May data, daily average production and net receipts were unchanged and down 7%, respectively, and stocks at the end of the month were unchanged.

Exports of ferrous scrap during the month were 35% above those for May 1978 and 27% above those for June 1977. Japan was the largest importer of U.S. scrap, taking 39% of the total exported in June 1978. The next largest importers were the Republic of Korea and Italy, which received 15% and 13%, respectively.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of June was \$74.50 per long ton, up 21% from the price of \$61.50 at the end of June 1977.

Pig iron production and consumption on a daily average basis during the month were unchanged and down 2%, respectively, from those of the previous month. Stocks of pig iron increased 2% during June compared with those at the end of May 1978.

Prepared in the Division of Ferrous Metals, August 25, 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)

	JUNE 1978 (PRELIMINARY) 1/				
	MFRS. OF		MFRS. OF		FINAL
	PIG IRON AND STEEL INGOTS & CASTINGS 2/	CASTINGS 3/ LANFOUS USERS	IRON FOUNDRIES AND MISCEL- LANEOUS USERS	TOTAL FOR MONTH OF JUN 1978	TOTAL FOR MONTH OF MAY 1978 4/ JUN 1978 5/
SCRAP:					
RECEIPTS FROM DEALERS AND OTHER SOURCES	2,593,346	174,374	867,904	3,635,624	21,122,360
RECEIPTS FROM OTHER OWN COMPANY PLANTS-	554,019	14,359	291,756	860,134	4,982,988
PRODUCTION RECIRCULATING SCRAP-----	3,709,409	88,184	543,316	4,340,909	24,012,263
PRODUCTION OBSOLETE SCRAP-----	255,017	763	4,679	260,459	1,341,335
CONSUMPTION-----	6,592,220	271,643	1,725,409	8,589,272	49,240,203
SHIPMENTS-----	490,278	6,197	26,957	523,432	2,803,123
STOCKS END OF MONTH-----	7,392,980	247,027	1,080,981	8,720,988	--
PIG IRON:					
RECEIPTS-----	540,861	4,027	236,935	781,823	4,160,163
PRODUCTION-----	7,754,324	--	--	7,754,324	41,934,889
CONSUMPTION-----	7,532,985	4,367	233,466	7,770,818	42,591,125
SHIPMENTS-----	744,317	--	559	744,876	3,794,669
STOCKS END OF MONTH-----	898,912	6,845	111,194	1,016,951	--
DIRECT-REDUCED OR PREREDUCED IRON:					
RECEIPTS-----	--	--	--	29,787	114,880
PRODUCTION-----	NA	NA	NA	NA	NA
CONSUMPTION-----	--	--	--	29,994	116,511
SHIPMENTS-----	--	--	--	--	--
STOCKS END OF MONTH-----	--	--	--	639	--

NA NOT AVAILABLE.
1/ BASED ON RETURNS FROM 75% OF REPORTING CONSUMERS, REPRESENTING 95% 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 82% 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, 1978 (PRELIMINARY) 2/ BY GRADE, JUNE (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION			ENDING STOCKS
	FROM PROCKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM SCRAP RESULTING FROM CURRENT OPERATIONS BUILDINGS, ETC.)	RECIRCULATING OBSOLETE SCRAP (INCLUDES INGOT MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING SCRAP)	CHASED AND PURCHASED	SHIPMENTS OF SCRAP	OF BOTH PURCHASED AND CHASED	SHIPMENTS	STOCKS	
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	43,687	618	4,455	674	48,317	4,595	48,317	4,595	100,367	
CUT STRUCTURAL AND PLATE-----	31,966	10,755	21,193	--	67,881	--	67,881	--	46,892	
NO.1 HEAVY MELTING STEEL-----	572,367	270,345	1,582,619	4,991	2,258,177	231,243	2,258,177	231,243	2,125,525	
NO.2 HEAVY MELTING STEEL-----	264,071	5,233	143,912	285	360,333	6,835	360,333	6,835	474,065	
NO.1 AND ELECTRIC FURNACE BUNDLES---	609,429	53,012	282,090	441	1,017,004	1,867	1,017,004	1,867	1,430,369	
NO.2 AND ALL OTHER BUNDLES-----	181,925	2,476	14,938	--	177,476	4,324	177,476	4,324	367,613	
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	3,777	--	--	75	3,437	--	3,437	--	4,277	
RAILROAD RAILS-----	7,266	82	--	--	5,478	--	5,478	--	7,012	
TURNINGS AND BORINGS-----	137,917	5,307	33,184	21	163,200	12,692	163,200	12,692	127,301	
SLAG SCRAP (FE CONTENT 70 PERCENT)---	103,075	2,953	303,846	--	395,490	5,561	395,490	5,561	191,412	
SHREDDER OR FRAGMENTIZED-----	187,387	3,489	3,489	147	205,811	--	205,811	--	194,752	
NO. 1 BUSHING-----	121,676	3,672	5,859	--	131,857	693	131,857	693	157,958	
ALL OTHER CARBON STEEL SCRAP-----	155,769	31,597	908,745	60,296	1,083,533	82,480	1,083,533	82,480	838,264	
STAINLESS STEEL SCRAP-----	34,193	3,501	60,633	8	92,119	5,686	92,119	5,686	98,425	
ALLOY STEEL (EXCEPT STAINLESS)---	18,621	21,943	131,200	683	173,800	10,095	173,800	10,095	314,676	
INGOT MOLD AND STOOLE SCRAP-----	36,813	67,575	101,899	174,759	253,978	75,763	253,978	75,763	608,713	
MACHINERY AND CUPOLA CAST IRON---	3,476	405	--	--	2,411	--	2,411	--	4,473	
CAST IRON BORINGS-----	32,963	6,123	27,966	12,055	55,561	8,083	55,561	8,083	88,233	
MOTOR BLOCKS-----	208	--	--	--	1,018	60	1,018	60	371	
OTHER IRON SCRAP-----	28,633	20,692	63,920	580	57,008	29,244	57,008	29,244	170,028	
OTHER MIXED SCRAP-----	18,127	8,762	19,461	2	37,331	12,057	37,331	12,057	38,254	
TOTAL SCRAP-----	2,593,346	554,019	3,709,409	255,017	6,592,220	490,278	6,592,220	490,278	7,392,980	
TOTAL SCRAP THROUGH JUNE 1978---	14,938,096	3,032,028	20,435,454	1,304,422	37,644,720	2,628,526	37,644,720	2,628,526	7,392,980	
PIG IRON										
	RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS
	540,861		7,754,324		7,532,485	744,317				898,912
PIG IRON THROUGH JUNE 1978-----	2,825,309		41,934,889		41,237,599	3,790,950				898,912
1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS.										
2/ BASED ON RETURNS FROM 91% OF REPORTING CONSUMERS, REPRESENTING 97% OF SCRAP CONSUMPTION.										

TABLE 3. - MANUFACTURERS OF STEEL CASTINGS 1/ - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, 1978 (PRELIMINARY) 2/ BY GRADE, JUNE (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION		
	FROM BROKERS, DEALERS AND OTHER	FROM OTHER OWN COMPANY PLANTS	SCRAP (INCLUDES OBSOLETE SCRAP (INCLUDES INGOT MOLD, STOO, HOME SCRAP AND SCRAP FROM (INCLUDES RE- SHIPMENTS OF SCRAP	RECYCLATING	FROM CURRENT OPERATIONS BUILDINGS, ETC.)	SCRAP	OF BOTH PUR- CHASED AND	ENDING STOCKS	
SCRAP:									
CARBON STEEL-									
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	52,917	606		17,944	--		71,780	181	64,299
CUT STRUCTURAL AND PLATE-----	18,274	1,220		2,957	--		19,469	784	16,225
NO.1 HEAVY MELTING STEEL-----	15,266	348		6,306	38		21,250	--	22,906
NO.2 HEAVY MELTING STEEL-----	4,709	--		1,510	--		6,338	--	3,580
NO.1 AND ELECTRIC FURNACE BUNDLES-----	3,289	--		207	--		3,929	--	2,933
NO.2 AND ALL OTHER BUNDLES-----	617	--		--	--		247	--	2,270
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	6,322	100		1,868	--		8,053	130	5,447
RAILROAD RAILS-----	237	--		--	--		63	--	351
TURNINGS AND BORINGS-----	5,643	926		1,955	--		7,680	641	4,088
SLAG SCRAP (FE CONTENT 70 PERCENT)---	--	--		485	--		414	42	178
SHREDDER OR FRAGMENTIZED-----	7,220	1,585		--	--		9,234	--	5,012
NO. 1 BUSHELING-----	4,863	790		981	--		6,339	--	10,657
ALL OTHER CARBON STEEL SCRAP-----	40,895	5,667		28,667	720		78,885	3,396	49,844
STAINLESS STEEL SCRAP-----	1,897	28		2,176	--		3,426	470	4,954
ALLOY STEEL (EXCEPT STAINLESS)-----	3,055	2,694		11,319	--		14,145	236	24,840
INGOT MOLD AND STOO SCRAP-----	515	--		12	--		446	--	1,053
MACHINERY AND CUPOLA CAST IRON-----	838	--		916	--		1,976	--	1,358
CAST IRON BORINGS-----	3,937	395		3,002	--		7,039	120	4,731
MOTOR BLOCKS-----	17	--		--	--		67	--	175
OTHER IRON SCRAP-----	3,806	--		7,405	5		10,295	197	21,671
OTHER MIXED SCRAP-----	57	--		474	--		528	--	455
TOTAL SCRAP-----	174,374	14,359		88,184	763		271,643	6,197	247,027
TOTAL SCRAP THROUGH JUNE 1978---	1,007,725	60,310		506,295	4,330		1,553,640	18,441	247,027
RECEIPTS				PRODUCTION			CONSUMPTION		
	4,027	--		--	--		4,367	--	6,845
PIG IRON-----									
	25,425	--		--	--		25,155	74	6,845
PIG IRON THROUGH JUNE 1978-----									

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

2/ BASED ON RETURNS FROM 81% OF REPORTING CONSUMERS, REPRESENTING 94% 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, JUNE 1978 (PRELIMINARY) 1/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION			ENDING STOCKS
	FROM DEALERS AND OTHER SOURCES	FROM BROKERS, SCRAP AND OTHER COMPANY PLANTS		RECYCLING OBSOLETE SCRAP (INCLUDES INGOT MOLDS, STOOLS, AND SCRAP FROM CURRENT OLD EQUIPMENT, OPERATIONS BUILDINGS, ETC.)	RECYCLING OBSOLETE SCRAP OF ROTH PURCHASED AND HOME SCRAP	SHIPMENTS OF SCRAP	CONSUMPTION OF ROTH PURCHASED AND HOME SCRAP			
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	70,320	11,247		7,927	23	95,207	692			50,305
CUT STRUCTURAL AND PLATE-----	125,046	7,333		13,595	81	150,559	399			92,348
NO.1 HEAVY MELTING STEEL-----	28,157	7,633		5,383	--	37,142	4,177			43,510
NO.2 HEAVY MELTING STEEL-----	6,094	351		1,841	35	7,903	46			5,906
NO.1 AND ELECTRIC FURNACE BUNDLES---	16,087	21,000		5,405	5	40,230	--			9,966
NO.2 AND ALL OTHER BUNDLES-----	51,552	9,117		--	--	62,193	--			47,173
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	6,496	--		1,602	--	7,324	--			6,502
RAILROAD RAILS-----	9,290	1		294	--	9,857	24			13,984
TURNINGS AND BORINGS-----	67,228	22,963		1,465	3	79,868	1,471			100,635
SLAG SCRAP (FE CONTENT 70 PERCENT)---	10,367	--		41	--	5,611	--			31,275
SHREDDER OR FRAGMENTIZED-----	69,553	13,893		--	--	95,457	--			47,965
NO. 1 BUSHING-----	21,912	6,676		1,077	--	33,526	--			11,066
ALL OTHER CARBON STEEL SCRAP-----	75,577	36,294		15,036	7	134,658	1,502			112,500
STAINLESS STEEL SCRAP-----										
ALLOY STEEL (EXCEPT STAINLESS)---	35	1		637	--	609	56			2,764
INGOT MOLD AND STOOL SCRAP-----	5,152	20		412	88	7,397	113			9,902
MACHINERY AND CUPOLA CAST IRON ---	10,324	382		8,502	902	19,816	683			43,600
CAST IRON BORINGS-----	72,011	4,157		74,301	2,242	162,584	1,815			82,158
MOTOR BLOCKS-----	48,963	54,301		35,455	36	149,308	6,077			83,773
OTHER IRON SCRAP-----	54,515	7,687		39,416	--	103,061	231			47,882
OTHER MIXED SCRAP-----	81,961	6,219		296,566	811	373,670	9,174			178,850
	37,264	82,481		34,361	446	149,429	497			58,897
TOTAL SCRAP-----	867,904	291,756		543,316	4,679	1,725,409	26,957			1,080,981
TOTAL SCRAP THROUGH JUNE 1978---	5,176,539	1,890,650		3,070,514	32,583	10,041,843	156,156			1,080,981
PIG IRON-----										
	236,935			--	--	233,466	559			111,194
PIG IRON THROUGH JUNE 1978-----	1,309,429			--	--	1,328,371	3,645			111,194
1/ BASED ON RETURNS FROM 69% OF REPORTING CONSUMERS, REPRESENTING 8% OF SCRAP CONSUMPTION.										

TABLE 5. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN JUNE 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/	323,221	--	--	--	--	--	--	--	--	--	323,221	--	--	--
BASIC OXYGEN PROCESS 4/	2,275,706	6,016,647	--	--	--	--	--	--	--	--	2,275,706	6,016,647	--	--
OPEN-HEARTH FURNACE	982,351	1,230,263	8,353	668	8,353	668	--	--	--	--	990,704	1,230,931	--	--
ELECTRIC FURNACE	2,783,495	66,124	249,732	3,155	249,732	3,155	499,399	26,668	499,399	26,668	3,532,626	95,947	--	--
CUPOLA FURNACE	33,308	63,319	10,724	77	10,724	77	1,182,997	75,761	1,182,997	75,761	1,227,029	139,157	--	--
OTHER (INCLUDING AIR FURNACE) 5/	194,139	27,985	2,834	467	2,834	467	43,013	3,422	43,013	3,422	239,986	31,874	--	--
DIRECT CASTINGS 6/	--	128,147	--	--	--	--	--	127,615	--	127,615	--	255,762	--	--
TOTAL	6,592,220	7,532,495	271,643	4,367	271,643	4,367	1,725,409	233,466	1,725,409	233,466	8,589,272	7,770,318	--	--

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, BY GRADE, MAY 1978 (FINAL) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION			ENDING STOCKS
	FROM PROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RESULTING FROM CURRENT OPERATIONS	OBsolete SCRAP (INCLUDES INGOT MOLD, STOOLES, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	CHASED AND HOME SCRAP (INCLUDES RE-CIRCULATING SCRAP)	SHIPMENTS	STOCKS			
SCRAP :										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	48,317	374		3,734	913	46,974	4,608	103,958		
CUT STRUCTURAL AND PLATE-----	41,960	15,117		23,661	--	69,484	--	50,163		
NO.1 HEAVY MELTING STEEL-----	627,804	302,440		1,609,592	4,649	2,400,415	232,958	2,176,817		
NO.2 HEAVY MELTING STEEL-----	284,560	4,594		98,472	648	378,584	7,087	433,167		
NO.1 AND ELECTRIC FURNACE BUNDLES----	630,587	44,344		300,700	617	1,009,943	1,801	1,507,103		
NO.2 AND ALL OTHER BUNDLES-----	209,235	3,203		4,490	--	179,472	1,004	348,788		
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	4,269	--		--	--	5,342	--	3,862		
RAILROAD RAILS-----	7,773	136		--	--	4,386	--	5,212		
TURNINGS AND BORINGS-----	139,538	7,296		32,157	102	175,382	14,247	124,535		
SLAG SCRAP (FE CONTENT 70 PERCENT)----	153,595	2,151		248,226	523	396,823	6,086	182,606		
SHREDDED OR FRAGMENTIZED-----	210,442	43,748		4,359	52	235,864	--	169,458		
NO. 1 BUSHELING-----	119,107	2,560		6,109	--	130,656	778	159,815		
ALL OTHER CARBON STEEL SCRAP-----	175,329	19,698		970,693	35,258	1,152,296	74,086	855,254		
STAINLESS STEEL SCRAP-----										
ALLOY STEEL (EXCEPT STAINLESS)-----	38,770	2,981		60,099	4	89,851	5,716	98,147		
INGOT MOLD AND STUOL SCRAP-----	15,851	23,202		157,797	679	180,883	15,745	328,231		
MACHINERY AND CUPOLA CAST IRON-----	53,763	60,608		92,369	180,600	289,256	80,491	554,415		
MACHINERY AND CUPOLA CAST IRON-----	2,957	--		--	--	3,494	--	3,003		
CAST IRON BORINGS-----	31,414	13,458		26,946	6,779	60,849	9,990	72,779		
MOTOR BLOCKS-----	1,097	--		--	--	1,032	60	961		
OTHER IRON SCRAP-----	30,364	15,469		55,067	3,348	61,871	24,334	140,571		
OTHER MIXED SCRAP-----	22,460	3,119		21,472	4	39,399	9,761	38,896		
TOTAL SCRAP-----	2,849,192	564,628		3,715,943	234,176	6,912,256	488,752	7,361,741		
TOTAL SCRAP THROUGH MAY 1978----	12,344,750	2,478,009		16,726,045	1,049,405	31,052,500	2,138,248	7,361,741		
PIG IRON-----										
	676,561			7,753,579		7,739,617	695,742	883,757		
PIG IRON THROUGH MAY 1978-----										
	2,284,448			34,180,565		33,705,114	3,046,633	883,757		

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

2/ BASED ON RETURNS FROM 97% OF REPORTING CONSUMERS, REPRESENTING 99% OF SCRAP CONSUMPTION.

TABLE 7. - MANUFACTURERS OF STEEL CASTINGS 1/ - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, BY GRADE, MAY 1978 (FINAL) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP		PRODUCTION OF HOME SCRAP			CONSUMPTION			ENDING STOCKS
	FROM DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RECYCLATING SCRAP (INCLUDES INGOT MOLD, STOOLES, AND SCRAP FROM CURRENT OLD EQUIPMENT, BUILDINGS, ETC.)	OBSOLETE SCRAP (INCLUDES INGOT MOLD, STOOLES, AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, BUILDINGS, ETC.)	CHASED AND HOME SCRAP	SHIPMENTS OF SCRAP	SHIPMENTS		
SCRAP:									
CARBON STEEL-									
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	52,188	628		19,280	--	68,882	181		63,947
CUT STRUCTURAL AND PLATE-----	16,619	1,158		3,428	--	20,098	784		14,550
NO.1 HEAVY MELTING STEEL-----	11,962	330		6,348	56	18,516	58		22,290
NO.2 HEAVY MELTING STEEL-----	4,843	--		1,522	--	6,141	--		3,699
NO.1 AND ELECTRIC FURNACE BUNDLES----	4,138	--		207	--	4,455	--		3,237
NO.2 AND ALL OTHER BUNDLES-----	268	--		--	--	305	--		1,940
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	6,628	100		1,857	--	8,307	80		5,659
RAILROAD RAILS-----	195	--		--	--	80	--		177
TURNINGS AND BORINGS-----	5,788	592		2,049	--	7,718	970		4,203
SLAG SCRAP (FE CONTENT 70 PERCENT)----	--	--		380	--	374	10		149
SHREDDER OR FRAGMENTIZED-----	8,445	1,639		--	--	8,444	--		5,441
NO. 1 BUSHING-----	3,467	1,042		818	--	6,042	--		10,991
ALL OTHER CARBON STEEL SCRAP-----	45,119	4,827		26,665	668	79,542	205		55,284
STAINLESS STEEL SCRAP-----									
ALLOY STEEL (EXCEPT STAINLESS)-----	1,298	70		2,214	--	3,422	477		4,612
INGOT MOLD AND STUOL SCRAP-----	5,886	785		10,857	--	13,344	5		26,171
MACHINERY AND CUPOLA CAST IRON-----	637	--		20	--	438	14		972
CAST IRON BORINGS-----	601	--		808	--	1,765	--		1,329
MOTOR BLOCKS-----	4,675	--		2,776	--	7,873	--		4,550
OTHER IRON SCRAP-----	111	--		--	--	65	--		225
OTHER MIXED SCRAP-----	3,852	--		6,591	12	10,343	123		20,997
	94	--		395	--	438	--		452
TOTAL SCRAP-----	176,814	11,171		86,215	736	266,592	2,907		250,875
TOTAL SCRAP THROUGH MAY 1978----	833,351	45,951		418,111	3,567	1,281,997	12,244		250,875
PIG IRON-----									
	4,371	--		--	--	4,518	--		7,029
PIG IRON THROUGH MAY 1978-----	21,398	--		--	--	20,788	74		7,029

1/ EXCLUDES COMPANIES THAT PRODUCE BOTH STEEL INGOTS AND CASTINGS.
2/ BASED ON RETURNS FROM 83% OF REPORTING CONSUMERS, REPRESENTING 92% 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, MAY 1978 (FINAL) 1/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION			ENDING STOCKS
	FROM PROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	OTHER RESULTING FROM CURRENT OPERATIONS	RECYCLATING SCRAP (INCLUDES INGOT MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	OBsolete SCRAP	OF BOTH PURCHASED AND HOME SCRAP	SHIPMENTS	STOCKS		
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	68,487	17,368	8,010	73	96,935	662	56,276			
CUT STRUCTURAL AND PLATE-----	138,648	7,464	14,923	15	160,001	273	100,916			
NO.1 HEAVY MELTING STEEL-----	25,408	12,268	6,255	--	39,101	4,299	42,632			
NO.2 HEAVY MELTING STEEL-----	4,582	351	1,832	60	6,523	44	5,578			
NO.1 AND ELECTRIC FURNACE BUNDLES---	15,038	14,906	6,467	18	42,266	--	7,700			
NO.2 AND ALL OTHER BUNDLES-----	52,897	12,041	--	--	69,391	--	46,007			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	5,934	--	1,583	--	7,787	--	5,835			
RAILROAD RAILS-----	8,586	1	618	--	8,763	24	14,769			
TURNINGS AND BORINGS-----	63,345	15,899	1,585	2	84,515	1,512	90,301			
SLAG SCRAP (FE CONTENT 70 PERCENT)---	8,025	--	41	--	9,473	--	26,508			
SHREDDER OR FRAGMENTIZED-----	83,633	12,828	--	--	89,474	--	58,014			
NO. 1 BUSHING-----	21,323	9,402	1,077	--	34,919	--	14,149			
ALL OTHER CARBON STEEL SCRAP-----	74,550	91,075	11,733	7	169,545	1,661	123,183			
STAINLESS STEEL SCRAP-----										
ALLOY STEEL (EXCEPT STAINLESS)-----	35	--	613	--	627	41	2,755			
INGOT MOLD AND STOOL SCRAP-----	5,429	220	389	126	6,349	149	10,917			
MACHINERY AND CUPOLA CAST IRON -----	12,674	1,349	8,493	512	21,284	1,688	42,522			
CAST IRON BORINGS-----	81,808	11,542	65,647	2,706	160,606	2,693	94,372			
MOTOR BLOCKS-----	50,710	80,757	36,254	51	157,037	5,496	99,519			
OTHER IRON SCRAP-----	61,013	1,120	38,894	--	95,707	--	52,588			
OTHER MIXED SCRAP-----	92,250	6,310	249,487	968	386,130	9,375	176,309			
	34,669	46,007	34,741	473	112,256	484	54,075			
TOTAL SCRAP-----	909,044	340,908	538,642	5,011	1,758,689	28,401	1,124,925			
TOTAL SCRAP THROUGH MAY 1978---	4,308,635	1,598,894	2,527,198	27,904	8,316,434	129,199	1,124,925			
PIG IRON-----										
	216,736	--	--	--	224,368	449	105,817			
PIG IRON THROUGH MAY 1978-----										
	1,072,494	--	--	--	1,094,905	3,086	105,817			
1/ BASED ON RETURNS FROM 78% OF REPORTING CONSUMERS, REPRESENTING 94% OF SCRAP CONSUMPTION.										

TABLE 9. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN MAY 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	
	PIG IRON		PIG IRON		PIG IRON		PIG IRON	
	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON
BLAST FURNACE 3/-	400,165	--	--	--	--	--	400,165	--
BASIC OXYGEN PROCESS 4/-	2,355,280	6,141,232	--	--	--	--	2,355,280	6,141,232
OPEN-HEARTH FURNACE	1,057,895	1,298,702	9,624	750	--	--	1,067,519	1,299,452
ELECTRIC FURNACE	2,950,901	104,104	241,672	3,122	487,757	23,890	3,680,330	131,116
CUPOLA FURNACE	30,201	22,843	12,303	57	1,221,483	71,325	1,263,987	94,225
OTHER (INCLUDING AIR FURNACE) 5/	117,814	28,803	2,993	589	49,449	3,296	170,256	32,688
DIRECT CASTINGS 6/-	--	143,933	--	--	--	125,857	--	269,790
TOTAL	6,912,256	7,739,617	266,592	4,518	1,758,689	224,368	8,937,537	7,968,503

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 STOOKLS.

FOREIGN TRADE

Exports of iron and steel scrap totaled 785,698 short tons in June compared with 581,589 tons in May. Exports of pig iron during June totaled 527 tons and 1,245 tons in May. Imports of scrap totaled 55,448 short tons in June compared with 126,946 tons in May. Of the scrap imported during June 46,629 short tons came from Canada and 8,819 tons from other sources. Imports of pig iron totaled 98,942 short tons in June and 38,026 tons in May. There were no imports of sponge iron during June.

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

Country	June 1978		Year to date	
	Short tons	Value	Short tons	Value
Argentina-----	--	--	2	\$8,194
Canada-----	77,862	\$3,950,207	384,051	19,369,210
Egypt-----	--	--	23,694	1,217,657
Greece-----	--	--	142,071	9,658,704
Italy-----	104,144	9,237,534	334,263	25,774,281
Japan-----	306,120	22,290,030	1,302,299	87,097,930
Korea, Republic of-----	118,328	8,878,955	769,146	53,465,967
Mexico-----	30,453	2,397,720	184,701	12,689,433
Pakistan-----	44	32,424	3,916	422,792
Spain-----	41,440	4,023,361	119,035	9,414,802
Sweden-----	74	59,172	751	620,876
Taiwan-----	41,530	3,965,218	175,028	17,778,776
Turkey-----	28,843	1,922,849	127,862	8,869,714
United Kingdom-----	861	138,431	2,456	320,782
Other countries-----	35,999	4,171,835	207,772	23,236,742
Total-----	785,698	61,067,736	3,777,047	269,945,860

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

Source: Bureau of Census

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

Grade of scrap	June 1978		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	129,950	\$9,228,768	955,464	\$61,937,334
No. 2 heavy melting steel scrap-----	68,123	4,490,106	363,284	22,185,375
No. 1 bundles-----	26,529	1,912,814	67,578	4,367,493
No. 2 bundles-----	9,071	395,108	108,720	5,166,406
Borings, shovelings and turnings-----	114,934	5,228,309	261,527	10,887,727
Stainless steel-----	19,817	7,676,856	60,185	20,093,858
Shredded steel scrap-----	241,204	17,277,215	1,212,180	82,018,021
Iron scrap (excluding borings and shovelings)	42,797	3,222,510	213,774	15,166,702
All other steel scrap <u>1/-</u>	133,273	11,636,050	534,335	48,122,944
Total-----	785,698	61,067,736	3,777,047	269,945,860
Ships, boats, and other vessels for breaking up (for scrapping)-----	86	12,870	520	77,956
Total-----	785,784	61,080,606	3,777,567	270,023,816

1/ Includes tinplate and terneplate.