



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 OCTOBER 1978

Returns from 71% of reporting consumers representing 93% of total scrap consumption, indicated that consumption of iron and steel scrap in October on a daily average basis was 4% above that in September, according to the Bureau of Mines, U.S. Department of the Interior. Compared with September data, daily average production and net receipts were up 3% and 2%, respectively, and stocks at the end of the month were down 3%.

Exports of ferrous scrap during the month were 129% above those for October 1977 and 17% above those for September 1978. Japan was the largest importer of U.S. scrap, taking 40% of the total exported in October 1978. The next largest importers were the Republic of Korea, and Italy, which received 11% and 10%, respectively.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of October was \$74.50 per long ton, up 17% from the price of \$63.83 at the end of October 1977.

Pig iron production and consumption on a daily average basis during the month were both up 2% from those of the previous month. Stocks of pig iron decreased 6% during October compared with those at the end of September 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)

OCTOBER 1974 (PRELIMINARY) 1/									
	MFRS. OF		MFRS. OF	IRON FOUNDRIES	TOTAL FOR	FINAL		TOTAL YEAR	
	PIG IRON AND	WASTE				MONTH OF	MONTH OF		
	CASTINGS 2/	CASTINGS 3/	CASTINGS 3/	LANEIOUS USERS	OCT 1974	SEP 1974	SEP 1974	THROUGH	
SCRAP:									
RECEIPTS FROM DEALERS AND OTHER SOURCES	2,413,037	175,567	911,602		3,500,206	3,355,583	3,355,583	34,856,493	
RECEIPTS FROM OTHER OWN COMPANY PLANTS-	520,965	11,388	386,634		918,987	830,126	830,126	8,361,058	
PRODUCTION RECIRCULATING SCRAP-----	3,787,325	94,826	573,669		4,455,820	4,180,979	4,180,979	40,895,986	
PRODUCTION OBSOLETE SCRAP-----	243,813	73	2,837		246,723	244,865	244,865	2,293,996	
CONSUMPTION-----	6,742,703	282,095	1,894,198		8,919,996	8,337,539	8,337,539	82,421,857	
SHIPMENTS-----	463,255	3,829	31,837		498,921	476,752	476,752	4,749,363	
STOCKS END OF MONTH-----	7,302,371	241,823	1,007,568		8,551,762	8,808,423	8,808,423	--	
PIG IRON:									
RECEIPTS-----	513,976	3,370	235,732		753,078	694,151	694,151	7,369,218	
PRODUCTION-----	7,805,162	--	--		7,805,162	7,394,460	7,394,460	72,286,709	
CONSUMPTION-----	7,646,841	3,385	235,673		7,885,899	7,463,199	7,463,199	73,779,314	
SHIPMENTS-----	708,685	--	446		709,131	651,450	651,450	6,340,244	
STOCKS END OF MONTH-----	881,975	5,593	95,892		983,370	1,046,900	1,046,900	--	
DIRECT-REDUCED OR PRE-REDUCED IRON:									
RECEIPTS-----	--	--	--		40,648	56,632	56,632	322,114	
PRODUCTION-----	--	--	--		NA	NA	NA	NA	
CONSUMPTION-----	--	--	--		40,807	54,242	54,242	703,637	
SHIPMENTS-----	--	--	--		W	--	--	W	
STOCKS END OF MONTH-----	--	--	--		18,628	29,153	29,153	--	
NA NOT AVAILABLE.									
W WITHHELD TO AVOID DISCLOSING INDIVIDUAL COMPANY CONFIDENTIAL DATA.									
1/ BASED ON RETURNS FROM 71% OF REPORTING CONSUMERS, REPRESENTING 93% 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 79% OF REPORTING CONSUMERS, REPRESENTING 97% 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, OCTOBER 1978 (PRELIMINARY) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF HOME SCRAP				CONSUMPTION				ENDING STOCKS	
					RECYCLING OBSOLETE SCRAP OF BOTH PUR-				CHASED AND					
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM RESULTING FROM CURRENT OPERATIONS	FROM OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-CIRCULATING OF SCRAP	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM RESULTING FROM CURRENT OPERATIONS	FROM OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-CIRCULATING OF SCRAP	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM RESULTING FROM CURRENT OPERATIONS	FROM OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-CIRCULATING OF SCRAP		
SCRAP:														
CARBON STEEL-														
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	43,188	596	3,655	1,127	48,679	5,040	95,599							
CUT STRUCTURAL AND PLATE-----	30,125	15,137	17,607	10	73,837	--	41,634							
NO.1 HEAVY MELTING STEEL-----	535,567	240,383	1,640,567	11,130	2,309,674	190,577	2,230,586							
NO.2 HEAVY MELTING STEEL-----	192,324	4,483	115,592	184	333,720	5,407	477,884							
NO.1 AND ELECTRIC FURNACE BUNDLES----	613,681	55,762	246,534	1,906	982,601	14,029	1,384,983							
NO.2 AND ALL OTHER BUNDLES-----	125,496	6,239	5,929	--	162,968	2,019	294,733							
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	4,539	--	1,009	--	5,523	--	3,911							
RAILROAD RAILS-----	6,615	--	--	--	8,879	--	4,500							
TURNINGS AND BORINGS-----	120,086	7,167	35,070	23	161,201	9,755	106,338							
SLAG SCRAP (FE CONTENT 70 PERCENT)----	127,092	2,194	247,694	--	366,150	8,088	205,124							
SHREDDED OR FRAGMENTIZED-----	165,355	37,685	2,925	--	226,875	--	198,490							
NO. 1 BUSHING-----	121,150	3,117	814	--	135,466	1,594	157,915							
ALL OTHER CARBON STEEL SCRAP-----	171,284	25,563	1,039,836	32,367	1,178,960	71,399	803,638							
STAINLESS STEEL SCRAP-----														
ALLOY STEEL (EXCEPT STAINLESS)-----	28,880	3,653	59,956	139	89,374	4,584	106,818							
INGOT MOLD AND STOOL SCRAP-----	28,363	19,751	144,095	482	181,799	9,141	277,041							
MACHINERY AND CUPOLA CAST IRON-----	29,089	65,772	97,965	191,730	295,983	89,719	559,256							
CAST IRON BORINGS-----	1,488	163	--	--	825	--	2,411							
MOTOR BLOCKS-----	20,278	4,708	27,253	4,224	54,465	6,231	104,894							
OTHER IRON SCRAP-----	1,224	--	--	--	993	20	1,645							
OTHER MIXED SCRAP-----	31,279	12,047	80,339	486	81,777	41,309	192,191							
	15,934	16,545	20,485	5	42,954	4,343	52,780							
TOTAL SCRAP-----	2,413,037	520,965	3,787,325	243,813	6,742,703	463,255	7,302,371							
TOTAL SCRAP THROUGH OCTOBER 1978----	24,716,949	5,086,813	34,976,489	2,243,484	63,253,817	4,451,467	7,302,371							
PIG IRON-----														
	513,976	--	7,805,162	--	7,646,841	708,685	881,975							
PIG IRON THROUGH OCTOBER 1978-----	4,840,809	--	72,288,709	--	70,807,398	6,574,179	881,975							

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

2/ BASED ON RETURNS FROM 86% 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, OCTOBER 1978 (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	RECYCLING OBSOLETE SCRAP (INCLUDES INGOT AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	RESULTING FROM CURRENT OPERATIONS	SCRAP (INCLUDES INGOT AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	CHASED AND HOME SCRAP	RE- SHIPMENTS OF SCRAP			
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	79,988	14,241	9,082	42	105,191	615	48,452			
CUT STRUCTURAL AND PLATE-----	127,521	8,324	16,854	39	161,004	223	88,717			
NO.1 HEAVY MELTING STEEL-----	33,292	12,991	4,558	--	44,380	3,096	51,851			
NO.2 HEAVY MELTING STEEL-----	2,344	437	2,897	57	9,008	108	5,513			
NO.1 AND ELECTRIC FURNACE BUNDLES----	21,751	12,492	6,605	48	43,487	964	10,736			
NO.2 AND ALL OTHER BUNDLES-----	40,270	18,779	--	--	68,031	--	30,135			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	7,807	--	340	--	8,642	--	5,379			
RAILROAD RAILS-----	9,188	51	594	--	9,824	24	14,177			
TURNINGS AND BORINGS-----	66,488	14,401	1,614	3	80,981	1,754	85,772			
SLAG SCRAP (FE CONTENT 70 PERCENT)----	4,613	--	52	--	6,174	52	29,507			
SHREDDER OR FRAGMENTIZED-----	69,443	13,450	--	--	100,237	--	38,673			
NO. 1 BUSHING-----	22,298	8,343	1,077	--	35,105	--	9,287			
ALL OTHER CARBON STEEL SCRAP-----	89,506	92,272	12,454	9	184,019	973	96,702			
STAINLESS STEEL SCRAP-----										
ALLOY STEEL (EXCEPT STAINLESS)-----	117	2	680	--	742	28	1,639			
INGOT MOLD AND STOOL SCRAP-----	6,304	--	414	107	5,922	235	9,213			
MACHINERY AND COPULA CAST IRON -----	14,482	408	8,958	583	21,784	534	45,167			
CAST IRON BORINGS-----	76,687	6,296	69,306	256	151,956	1,111	81,560			
MOTOR BLOCKS-----	59,818	68,891	35,751	48	163,957	6,247	78,226			
OTHER IRON SCRAP-----	61,163	5,648	45,222	--	107,564	--	65,247			
OTHER MIXED SCRAP-----	77,150	24,933	321,231	978	420,993	15,200	170,425			
	41,372	84,675	35,980	667	165,197	673	41,197			
TOTAL SCRAP-----	911,602	386,634	573,669	2,837	1,894,198	31,837	1,007,568			
TOTAL SCRAP THROUGH OCTOBER 1978----	8,498,867	3,175,980	5,099,375	45,423	16,651,187	265,409	1,007,568			
PIG IRON-----										
	235,732			--	235,673	446	95,892			
PIG IRON THROUGH OCTOBER 1978-----										
	2,190,467			--	2,232,882	5,991	95,892			
1/ BASED ON RETURNS FROM 56% OF REPORTING CONSUMERS, REPRESENTING 86% OF SCRAP CONSUMPTION.										

TABLE 5. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN OCTOBER 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
BLAST FURNACE 3/-----	394,181	--	--	--	--	--	394,181	--
BASIC OXYGEN PROCESS 4/-----	2,455,733	6,220,487	--	--	--	--	2,455,733	6,220,487
OPEN-HEARTH FURNACE-----	979,873	1,140,201	--	--	--	--	979,873	1,140,201
ELECTRIC FURNACE-----	2,772,812	61,264	9,299	359	--	--	2,782,111	61,623
CUPOLA FURNACE-----	32,813	18,421	258,788	2,649	543,848	24,512	804,978	28,181
OTHER (INCLUDING AIR FURNACE) 5/	108,091	33,227	11,240	58	1,301,976	79,755	1,421,254	109,740
DIRECT CASTINGS 6/-----	--	173,241	2,768	319	48,374	2,978	3,210	3,370
TOTAL-----	6,742,703	7,646,841	282,095	3,385	1,894,198	235,673	8,919,996	7,885,899

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 STOOKS.

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, SEPTEMBER 1978 (FINAL) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP		PRODUCTION OF HOME SCRAP		CONSUMPTION OF BOTH PURCHASED AND HOME SCRAP		ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	RECYCLATING SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	RESULTING FROM OLD EQUIPMENT, CIRCULATING SCRAP	RE- SHIPMENTS OF SCRAP		
SCRAP:							
CARBON STEEL-							
LOW-PHOSPHORUS PLATE AND PUNCHINGS----							
CUT STRUCTURAL AND PLATE-----	40,324	585	5,786	1,174	46,824	5,004	97,660
NO.1 HEAVY MELTING STEEL-----	37,150	9,468	23,336	10	66,257	--	50,569
NO.2 HEAVY MELTING STEEL-----	527,003	238,759	1,563,032	10,564	2,206,190	185,971	2,275,727
NO.1 AND ELECTRIC FURNACE BUNDLES----	188,100	4,045	105,836	278	306,644	7,779	500,424
NO.2 AND ALL OTHER BUNDLES-----	573,887	48,626	276,125	465	918,959	3,227	1,457,600
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	135,736	2,787	11,265	--	159,643	12,063	321,743
RAILROAD RAILS-----	2,921	--	792	6	4,948	--	3,271
TURNINGS AND BORINGS-----	5,199	--	--	--	2,540	--	6,536
SLAG SCRAP (FE CONTENT 70 PERCENT)----	111,403	5,740	29,366	30	157,581	9,522	107,465
SHREDDED OR FRAGMENTIZED-----	121,417	653	231,599	--	345,913	6,297	207,661
NO. 1 BUSHING-----	160,457	42,540	3,038	--	199,339	479	225,129
ALL OTHER CARBON STEEL SCRAP-----	118,137	2,793	574	--	121,828	1,678	165,594
	143,251	15,069	945,649	54,314	1,110,449	79,575	802,257
STAINLESS STEEL SCRAP-----							
ALLOY STEEL (EXCEPT STAINLESS)-----	29,418	2,912	55,365	2,427	83,898	3,130	106,102
INGOT MOLD AND STUOL SCRAP-----	22,401	20,298	125,427	604	159,190	16,645	273,349
MACHINERY AND CUPOLA CAST IRON-----	43,752	65,774	76,447	164,152	303,460	79,343	553,680
CAST IRON BORINGS-----	1,292	163	--	--	1,218	--	1,585
MOTOR BLOCKS-----	18,090	4,316	30,404	7,396	50,610	7,364	114,404
OTHER IRON SCRAP-----	1,823	--	--	--	808	20	1,272
OTHER MIXED SCRAP-----	20,593	10,034	71,205	374	70,279	24,605	186,595
	14,901	9,045	16,527	--	37,551	2,811	44,900
TOTAL SCRAP-----	2,317,255	483,647	3,571,863	241,794	6,354,129	445,513	7,503,534
TOTAL SCRAP THROUGH SEPTEMBER 1978----	22,303,912	4,565,848	31,189,164	1,999,671	56,511,114	3,988,212	7,503,534
PIG IRON-----							
	477,515		7,394,460		7,232,639	660,983	947,753
PIG IRON THROUGH SEPTEMBER 1978-----							
	4,326,833		64,483,547		63,160,557	5,865,494	947,753
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.							

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS.
2/ BASED ON RETURNS FROM 94% OF REPORTING CONSUMERS, REPRESENTING 94% 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, SEPTEMBER 1978 (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	RECYCLATING SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM BROKERS, DEALERS AND OTHER SOURCES	RECYCLATING SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM BROKERS, DEALERS AND OTHER SOURCES	RECYCLATING SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM BROKERS, DEALERS AND OTHER SOURCES	RECYCLATING SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM BROKERS, DEALERS AND OTHER SOURCES	RECYCLATING SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM BROKERS, DEALERS AND OTHER SOURCES	
SCRAP:													
CARBON STEEL-													
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	46,557	513	19,968	513	19,968	513	19,968	513	19,968	513	19,968	513	58,226
CUT STRUCTURAL AND PLATE-----	15,416	1,748	2,614	1,748	2,614	1,748	2,614	1,748	2,614	1,748	2,614	1,748	21,368
NO.1 HEAVY MELTING STEEL-----	10,998	14	5,584	14	5,584	14	5,584	14	5,584	14	5,584	14	25,193
NO.2 HEAVY MELTING STEEL-----	4,546	--	1,886	--	1,886	--	1,886	--	1,886	--	1,886	--	5,309
NO.1 AND ELECTRIC FURNACE BUNDLES---	4,131	--	207	--	207	--	207	--	207	--	207	--	1,856
NO.2 AND ALL OTHER BUNDLES-----	145	--	--	--	--	--	--	--	--	--	--	--	1,573
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	4,969	100	1,475	100	1,475	100	1,475	100	1,475	100	1,475	100	4,594
RAILROAD RAILS-----	2	11	--	11	--	11	--	11	--	11	--	11	277
TURNINGS AND BORINGS-----	5,374	527	2,212	527	2,212	527	2,212	527	2,212	527	2,212	527	5,154
SLAG SCRAP (FE CONTENT 70 PERCENT)---	--	--	274	--	274	--	274	--	274	--	274	--	205
SHREDDER OR FRAGMENTIZED-----	6,009	2,266	--	2,266	--	2,266	--	2,266	--	2,266	--	2,266	7,553
NO. 1 RUSHING-----	3,869	866	1,055	866	1,055	866	1,055	866	1,055	866	1,055	866	7,093
ALL OTHER CARBON STEEL SCRAP-----	47,833	3,516	20,338	3,516	20,338	3,516	20,338	3,516	20,338	3,516	20,338	3,516	52,413
STAINLESS STEEL SCRAP-----	1,489	32	2,459	32	2,459	32	2,459	32	2,459	32	2,459	32	5,001
ALLOY STEEL (EXCEPT STAINLESS)---	5,884	857	11,241	857	11,241	857	11,241	857	11,241	857	11,241	857	26,979
INGOT MOLD AND STUOL SCRAP-----	507	--	46	--	46	--	46	--	46	--	46	--	923
MACHINERY AND CUPOLA CAST IRON-----	1,245	--	901	--	901	--	901	--	901	--	901	--	1,315
CAST IRON BORINGS-----	4,623	--	2,932	--	2,932	--	2,932	--	2,932	--	2,932	--	4,343
MOTOR BLOCKS-----	90	--	--	--	--	--	--	--	--	--	--	--	223
OTHER IRON SCRAP-----	4,058	--	7,738	--	7,738	--	7,738	--	7,738	--	7,738	--	21,253
OTHER MIXED SCRAP-----	--	--	353	--	353	--	353	--	353	--	353	--	83
TOTAL SCRAP-----	167,753	10,450	80,283	10,450	80,283	10,450	80,283	10,450	80,283	10,450	80,283	10,450	250,132
TOTAL SCRAP THROUGH SEPTEMBER 1978---	1,465,110	86,987	725,296	86,987	725,296	86,987	725,296	86,987	725,296	86,987	725,296	86,987	250,132
PIG IRON-----													
	3,159	--	--	--	--	--	--	--	--	--	--	--	5,539
PIG IRON THROUGH SEPTEMBER 1978-----	34,572	--	--	--	--	--	--	--	--	--	--	--	5,539

1/ EXCLUDES COMPANIES THAT PRODUCE BOTH STEEL INGOTS AND CASTINGS.
2/ BASED ON RETURNS FROM 81% OF REPORTING CONSUMERS, REPRESENTING 91% 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, SEPTEMBER 1978 (FINAL) 1/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION			ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM OTHER RESULTING FROM CURRENT OPERATIONS	RECYCLING SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.) SCRAP)	RECYCLING SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.) SCRAP)	RECYCLING SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.) SCRAP)	RECYCLING SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.) SCRAP)	RECYCLING SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.) SCRAP)		
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	73,905	13,252	8,363	31	95,865	1,143	50,077			
CUT STRUCTURAL AND PLATE-----	131,520	8,233	14,432	23	148,231	218	97,406			
NO.1 HEAVY MELTING STEEL-----	31,639	8,152	4,188	--	38,159	4,155	47,504			
NO.2 HEAVY MELTING STEEL-----	6,390	445	2,834	161	8,472	329	8,920			
NO.1 AND ELECTRIC FURNACE BUNDLES---	18,747	15,091	5,915	27	41,206	12	13,803			
NO.2 AND ALL OTHER BUNDLES-----	38,900	12,379	--	--	56,902	600	40,098			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	7,274	--	329	--	7,853	--	6,309			
RAILROAD RAILS-----	10,507	1	267	--	8,843	24	14,839			
TURNINGS AND BORINGS-----	59,913	14,893	1,574	6	76,880	1,271	84,284			
SLAG SCRAP (FE CONTENT 70 PERCENT)---	2,624	--	50	--	5,826	50	31,312			
SHREDDER OR FRAGMENTIZED-----	79,259	7,442	--	--	85,852	--	54,327			
NO. 1 BUSHING-----	23,602	7,720	1,077	--	32,361	--	12,273			
ALL OTHER CARBON STEEL SCRAP-----	83,253	59,067	13,136	7	160,582	1,023	84,016			
STAINLESS STEEL SCRAP-----										
ALLOY STEEL (EXCEPT STAINLESS)---	75	6	529	4	543	48	1,630			
INGOT MOLD AND STUOL SCRAP-----	4,636	409	207	120	5,549	64	8,860			
MACHINERY AND CUPOLA CAST IRON ---	10,372	241	8,945	330	21,535	350	44,047			
CAST IRON BORINGS-----	68,206	4,088	71,053	26	146,486	663	84,560			
MOTOR BLOCKS-----	53,073	61,319	35,301	56	142,742	6,401	79,660			
OTHER IRON SCRAP-----	55,947	2,232	40,988	--	91,569	--	66,085			
OTHER MIXED SCRAP-----	76,176	19,346	286,312	895	375,580	10,410	181,642			
	34,557	101,713	33,333	892	172,950	985	43,108			
TOTAL SCRAP-----	870,575	336,029	528,833	2,578	1,723,986	27,746	1,054,757			
TOTAL SCRAP THROUGH SEPTEMBER 1978---	7,587,265	2,789,346	4,525,706	42,586	14,756,989	233,572	1,054,757			
PIG IRON-----										
	RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS
	213,477			--			226,856			93,608
PIG IRON THROUGH SEPTEMBER 1978-----	1,954,735			--			1,997,209			93,608
1/ BASED ON RETURNS FROM 75% OF REPORTING CONSUMERS, REPRESENTING 92% OF SCRAP CONSUMPTION.										

TABLE 9. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN SEPTEMBER 1978 (FINAL), BY TYPE OF CONSUMER AND TYPE OF FURNACE OR OTHER USE
(SHORT TONS)

TYPE OF FURNACE OR OTHER USE	MANUFACTURERS OF PIG IRON AND STEEL INGOTS AND CASTINGS 1/				MANUFACTURERS OF STEEL CASTINGS 2/				IRON FOUNDRIES AND MISCELLANEOUS USERS				TOTAL ALL TYPES	
	SCRAP		PIG IRON		SCRAP		PIG IRON		SCRAP		PIG IRON		SCRAP	PIG IRON
BLAST FURNACE 3/		361,511											361,511	--
BASIC OXYGEN PROCESS 4/		2,244,739	5,839,009										2,244,739	5,839,009
OPEN-HEARTH FURNACE		960,974	1,141,615		8,027		497						969,001	1,142,112
ELECTRIC FURNACE		2,665,166	47,208		238,815		2,822		513,261		23,932		3,417,242	73,962
CUPOLA FURNACE		24,080	17,221		9,928		60		1,170,333		72,466		1,204,341	89,747
OTHER (INCLUDING AIR FURNACE) 5/		97,659	27,341		2,654		325		40,392		3,009		140,705	30,675
DIRECT CASTINGS 6/		--	160,245		--		--		--		127,449		--	287,694
TOTAL		6,354,129	7,232,639		259,424		3,704		1,723,986		226,856		8,337,539	7,463,199

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.

Exports of iron and steel scrap totaled 976,818 short tons in October compared with 834,347 tons in September. Exports of pig iron during October totaled 10,949 tons and 893 tons in September. Imports of scrap totaled 50,891 short tons in October compared with 70,428 tons in September. Of the scrap imported during October 47,771 short tons came from Canada and 3,120 tons from other sources. Imports of pig iron totaled 40,629 short tons in October and 87,743 tons in September. In addition to the foregoing imports of pig iron during October, there were 63 tons of sponge iron, valued at \$46,254 imported, of which 62 tons came from Canada, and 1 ton from Sweden.

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

Country	October 1978		Year to date	
	Short tons	Value	Short tons	Value
Canada-----	71,393	\$3,931,979	638,593	\$32,669,270
Egypt-----	--	--	23,694	1,217,657
Greece-----	15,018	1,178,811	291,373	21,242,886
Indonesia-----	--	--	44,902	3,260,037
Italy-----	93,446	6,862,830	571,490	46,733,476
Japan-----	386,037	29,837,201	2,551,883	183,660,424
Korea, Republic of-----	109,806	9,538,329	1,211,409	92,311,839
Mexico-----	44,932	3,840,458	334,994	25,438,562
Qatar-----	8,235	639,746	71,377	5,285,785
Singapore-----	26,718	2,107,304	78,590	5,589,198
Spain-----	90,160	6,320,383	418,709	27,803,736
Taiwan-----	47,196	4,936,337	328,139	33,171,446
Turkey-----	--	--	226,564	16,599,735
United Kingdom-----	86	7,006	4,315	527,993
Other countries <u>2/</u> -----	83,791	7,155,310	325,659	39,565,356
Total-----	976,818	76,355,694	7,121,691	535,077,400

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: U.S. Bureau of Census, adjusted by Bureau of Mines.

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

Grade of scrap	October 1978		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	247,652	\$19,265,878	1,799,247	\$128,223,269
No. 2 heavy melting steel scrap-----	88,540	6,271,225	644,571	41,525,753
No. 1 bundles-----	14,193	1,022,584	100,802	6,663,322
No. 2 bundles-----	56,620	2,921,871	251,258	12,679,489
Borings, shovelings and turnings-----	119,830	5,314,461	581,280	24,874,132
Stainless steel <u>1/</u> -----	9,017	3,633,530	98,772	36,516,729
Shredded steel scrap-----	245,351	19,654,514	2,218,897	160,047,569
Iron scrap (excluding borings and shovelings)	32,468	2,798,070	343,590	25,345,406
All other steel scrap <u>2/</u> -----	163,147	15,473,561	1,083,274	99,201,731
Total-----	976,818	76,355,694	7,121,691	535,077,400
Ships, boats, and other vessels for breaking up (for scrapping)-----	--	--	1,534	230,193
Total-----	976,818	76,355,694	7,123,225	535,307,593

1/ Figures believed to be too high, due to overstatement of exports destined for Canada.

2/ Includes tinplate and terneplate.

Source: U.S. Bureau of Census.