



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 1979

Returns from 70% of reporting consumers representing 94% of total scrap consumption, indicated that consumption of iron and steel scrap in October on a daily average basis was 3% 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 4% and 5%, respectively, and stocks at the end of the month were up 1%.

Exports of ferrous scrap during the month were 29% above those for September 1979 and 5% below those for October 1978. Japan was the principal country of destination, accounting for 29% of the total exported in October 1979, followed by Italy and Mexico, with 14% and 11%, respectively.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of October was \$88.83 per long ton, up 9% from the price of \$81.17 at the end of October 1978.

Pig iron production and consumption on a daily average basis during the month were down 5% and 2%, respectively, from those of the previous month. Stocks of pig iron decreased 1% during October compared with those at the end of September 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)

OCTOBER 1979 (PRELIMINARY) 1/						
	MFRS. OF		MFRS. OF	IRON FOUNDRIES	TOTAL FOR	FINAL
	PIG IRON AND	RAW STEEL	STEEL	AND MISCEL-	MONTH OF	TOTAL FOR
	& CASTINGS 2/		CASTINGS 3/	LANEOUS USERS	OCT 1979	MONTH OF
						SEP 1979 4/
						THROUGH
						OCT 1979 5/
SCRAP:						
RECEIPTS FROM DEALERS AND OTHER SOURCES	2,515,480		195,800	840,536	3,551,816	3,303,195
RECEIPTS FROM OTHER OWN COMPANY PLANTS-	638,503		11,682	235,942	886,127	799,030
PRODUCTION RECIRCULATING SCRAP-----	3,531,783		94,849	445,322	4,071,954	3,899,569
PRODUCTION OBSOLETE SCRAP-----	340,172		--	4,645	344,817	206,314
CONSUMPTION-----	6,452,313		289,926	1,479,613	8,221,852	7,703,832
SHIPMENTS-----	579,870		4,902	30,455	615,227	569,341
STOCKS END OF MONTH-----	7,629,409		236,647	1,067,851	8,933,907	8,876,537
PIG IRON:						
RECEIPTS-----	422,855		3,961	223,529	650,345	452,581
PRODUCTION-----	6,691,889		--	--	6,691,889	6,835,243
CONSUMPTION-----	6,596,085		4,346	225,066	6,825,497	6,768,299
SHIPMENTS-----	608,624		--	756	609,380	584,097
STOCKS END OF MONTH-----	753,456		5,103	106,295	864,854	876,318
DIRECT-REDUCED OR PREREDUCED IRON:						
RECEIPTS 6/-----	--		--	--	74,905	59,635
PRODUCTION-----	--		--	--	W	W
CONSUMPTION-----	--		--	--	75,422	61,527
SHIPMENTS-----	--		--	--	W	W
STOCKS END OF MONTH-----	--		--	--	55,835	59,540
W WITHHELD TO AVOID DISCLOSING COMPANY PROPRIETARY DATA.						
1/ BASED ON RETURNS FROM 70% OF REPORTING CONSUMERS, REPRESENTING 94% OF SCRAP CONSUMPTION.						537,332
2/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE RAW STEEL.						508,165
3/ EXCLUDES COMPANIES THAT PRODUCE BOTH RAW STEEL AND CASTINGS.						--
4/ BASED ON RETURNS FROM 75% OF REPORTING CONSUMERS, REPRESENTING 95% OF SCRAP CONSUMPTION.						--
5/ CUMULATIVE TOTALS MAY NOT AGREE WITH SUM OF MONTHLY REPORTS BECAUSE OF ADDITION OF REPORTS FROM LATE RESPONDENTS.						--
6/ INCLUDES PRODUCTION.						--

TABLE 2. - MANUFACTURERS OF PIG IRON AND RAW STEEL AND CASTINGS 1/ - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, BY GRADE, OCTOBER 1979 (PRELIMINARY) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF MORE SCRAP				CONSUMPTION				ENDING STOCKS	
	FROM				RECYCLATING OBSOLETE SCRAP OF BOTH PUR-				CHASED AND					
	BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	SCRAP RESULTING FROM CURRENT OPERATIONS	OLD EQUIPMENT, BUILDINGS, ETC.)	AND SCRAP FROM (INCLUDES RE-CIRCULATING SCRAP)	MOLDS, STUOLS, HOME SCRAP	SHIPMENTS OF SCRAP	CONSUMPTION	SHIPMENTS	STOCKS				
SCRAP :														
CARBON STEEL-														
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	34,561	1,076	4,582	870	36,036	4,960	55,734							
CUT STRUCTURAL AND PLATE-----	27,303	37,951	52,739	--	133,811	--	32,669							
NO.1 HEAVY MELTING STEEL-----	643,784	291,290	1,299,411	79,809	2,047,157	272,955	2,293,378							
NO.2 HEAVY MELTING STEEL-----	195,424	12,875	126,183	518	363,191	10,793	486,891							
NO.1 AND ELECTRIC FURNACE BUNDLES----	496,401	55,250	273,715	11	799,968	16,826	1,248,816							
NO.2 AND ALL OTHER BUNDLES-----	178,353	3,310	8,045	--	196,201	3,493	406,783							
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	4,834	--	--	--	4,766	--	6,320							
RAILROAD RAILS-----	521	126	--	--	1,737	--	1,750							
TURNINGS AND BORINGS-----	119,883	10,913	38,590	49	175,316	9,138	212,975							
SLAG SCRAP (FE CONTENT 70 PERCENT)---	150,737	19,274	299,023	--	431,520	8,959	213,434							
SHREDDED OR FRAGMENTIZED-----	201,505	45,328	4,072	--	258,184	--	201,549							
NO. 1 BUSHING-----	115,247	1,695	10,139	109	139,469	817	218,285							
ALL OTHER CARBON STEEL SCRAP-----	171,912	28,591	1,012,847	81,988	1,181,533	104,221	832,493							
STAINLESS STEEL SCRAP-----														
ALLOY STEEL (EXCEPT STAINLESS)-----	29,924	4,810	64,194	--	88,570	10,244	106,680							
INGOT MOLD AND STUOL SCRAP-----	18,481	22,442	123,971	1,220	150,270	10,533	223,648							
MACHINERY AND CUPOLA CAST IRON-----	29,235	73,385	117,298	162,967	267,613	92,735	865,853							
CAST IRON BORINGS-----	688	244	--	5,705	2,926	3,843	19,334							
MOTOR BLOCKS-----	30,919	2,309	14,756	3,413	46,946	2,360	130,826							
OTHER IRON SCRAP-----	--	--	--	--	387	--	20							
OTHER MIXED SCRAP-----	32,308	13,095	63,840	3,513	68,857	23,171	371,553							
	33,460	14,539	18,378	--	57,855	2,822	80,467							
TOTAL SCRAP-----	2,515,480	638,503	3,531,783	340,172	6,452,313	579,870	7,629,489							
TOTAL SCRAP THROUGH OCTOBER 1979----	26,732,600	5,471,330	36,169,203	2,470,485	63,565,234	4,800,243	7,629,489							
PIG IRON-----														
RECEIPTS				PRODUCTION				CONSUMPTION				STOCKS		
422,855				6,691,889				6,596,085				753,456		
2,880,523				74,258,167				72,257,438				753,456		
PIG IRON THROUGH OCTOBER 1979-----														

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE RAW STEEL.
2/ BASED ON RETURNS FROM 90% 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, BY GRADE, OCTOBER 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	RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLS, HOME SCRAP AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	SHIPMENTS	SHIPMENTS	
SCRAP:							
CARBON STEEL-							
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	68,660	546	20,243	--	80,768	233	67,979
CUT STRUCTURAL AND PLATE-----	23,395	1,436	2,707	--	25,084	91	22,364
NO.1 HEAVY MELTING STEEL-----	13,046	1,414	7,497	--	24,159	1,670	21,083
NO.2 HEAVY MELTING STEEL-----	8,372	--	1,955	--	10,717	--	14,981
NO.1 AND ELECTRIC FURNACE BUNDLES----	3,393	--	207	--	2,614	--	3,322
NO.2 AND ALL OTHER BUNDLES-----	252	--	--	--	230	--	827
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	6,078	230	1,445	--	8,014	104	4,903
RAILROAD RAILS-----	16	--	--	--	66	--	40
TURNINGS AND BORINGS-----	6,182	628	1,937	--	8,164	1,814	3,603
SLAG SCRAP (FE CONTENT 70 PERCENT)---	--	--	156	--	113	8	251
SHREDDED OR FRAGMENTIZED-----	5,113	1,914	--	--	6,766	--	4,734
NO. 1 BUSHING-----	810	1,422	--	--	2,965	--	2,184
ALL OTHER CARBON STEEL SCRAP-----	43,286	3,377	31,378	--	76,292	--	39,582
STAINLESS STEEL SCRAP-----							
ALLOY STEEL (EXCEPT STAINLESS)-----	1,954	100	2,859	--	4,368	488	5,122
INGOT MOLD AND STOOL SCRAP-----	5,791	439	11,799	--	18,858	54	25,567
MACHINERY AND CUPOLA CAST IRON-----	796	--	--	--	293	24	966
CAST IRON BORINGS-----	6,364	65	565	--	987	378	1,554
MOTOR BLOCKS-----	32	--	2,861	--	7,987	65	6,020
OTHER IRON SCRAP-----	1,996	111	8,744	--	71	--	44
OTHER MIXED SCRAP-----	23	--	496	--	10,930	773	11,579
TOTAL SCRAP-----	195,800	11,682	94,849	--	289,926	4,902	236,647
TOTAL SCRAP THROUGH OCTOBER 1979----	1,773,954	104,499	876,804	1,927	2,712,047	33,962	236,647
PIG IRON-----							
	3,961	--	--	--	4,346	--	5,103
PIG IRON THROUGH OCTOBER 1979-----							
	39,616	--	--	--	39,636	76	5,103

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

2/ BASED ON RETURNS FROM 71% 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, OCTOBER 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 OTHER	RECYCLATING SCRAP	OBsolete SCRAP (INCLUDES INGOT MOLD, STOO, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	FROM CURRENT OPERATIONS	RECYCLATING SCRAP	OBsolete SCRAP (INCLUDES INGOT MOLD, STOO, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)		
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	78,644	3,834		8,273	14		89,410		1,625	41,805
CUT STRUCTURAL AND PLATE-----	119,599	4,582		12,260	48		136,304		616	90,628
NO.1 HEAVY MELTING STEEL-----	25,106	956		5,119	--		24,824		5,303	60,323
NO.2 HEAVY MELTING STEEL-----	3,728	249		3,176	49		8,420		104	3,017
NO.1 AND ELECTRIC FURNACE BUNDLES---	13,872	7,982		5,903	43		28,426		--	15,020
NO.2 AND ALL OTHER BUNDLES-----	26,851	--		--	--		27,354		--	29,701
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	12,531	5,470		356	--		18,604		--	9,129
RAILROAD RAILS-----	11,271	--		24	--		11,548		24	10,424
TURNINGS AND BORINGS-----	37,382	7,717		1,838	124		33,423		1,436	101,791
SLAG SCRAP (FE CONTENT 70 PERCENT)---	6,251	--		77	--		3,857		57	20,921
SHREDDED OR FRAGMENTIZED-----	67,423	--		--	--		81,559		--	51,475
NO. 1 BUSHING-----	21,862	2,693		1,192	--		26,419		1,520	9,302
ALL OTHER CARBON STEEL SCRAP-----	85,782	60,293		14,581	4		136,342		457	144,733
STAINLESS STEEL SCRAP-----	343	--		459	--		749		37	1,584
ALLOY STEEL (EXCEPT STAINLESS)-----	7,363	6		585	175		7,226		282	9,846
INGOT MOLD AND STUOL SCRAP-----	18,358	519		5,049	532		19,489		570	47,520
MACHINERY AND CUPOLA CAST IRON -----	76,469	12,229		39,736	1,411		126,803		419	94,117
CAST IRON BORINGS-----	47,537	47,179		39,828	161		134,313		5,034	64,012
MOTOR BLOCKS-----	54,081	1,573		29,423	--		83,811		300	56,184
OTHER IRON SCRAP-----	85,207	10,018		243,706	1,162		336,916		11,087	148,564
OTHER MIXED SCRAP-----	40,876	70,642		33,737	922		143,816		2,184	57,755
TOTAL SCRAP-----	840,536	235,942		445,322	4,645		1,479,613		30,455	1,067,851
TOTAL SCRAP THROUGH OCTOBER 1979----	8,808,868	2,450,802		5,022,782	30,181		16,074,799		293,850	1,067,851
PIG IRON-----										
PIG IRON THROUGH OCTOBER 1979-----										
1/ BASED ON RETURNS FROM 63% OF REPORTING CONSUMERS, REPRESENTING 83% OF SCRAP CONSUMPTION.										

TABLE 5. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN OCTOBER 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 RAW STEEL AND CASTINGS 1/				MANUFACTURERS OF STEEL CASTINGS 2/				IRON FOUNDRIES AND MISCELLANEOUS USERS				TOTAL ALL TYPES	
	SCRAP		PIG IRON		SCRAP		PIG IRON		SCRAP		PIG IRON		SCRAP	PIG IRON
BLAST FURNACE 3/	355,283	--	--	--	--	--	--	--	--	--	--	--	355,283	--
BASIC OXYGEN PROCESS 4/	2,128,361	5,461,904	--	--	--	--	--	--	--	--	--	--	2,128,361	5,461,904
OPEN-HEARTH FURNACE	813,321	865,730	--	--	6,940	517	--	--	--	--	--	--	820,261	866,247
ELECTRIC FURNACE	3,062,681	51,275	--	--	272,569	3,342	--	--	449,557	25,947	--	--	3,784,807	80,564
CUPOLA FURNACE	448	11,602	--	--	8,587	62	--	--	1,008,261	72,314	--	--	1,017,296	83,978
OTHER (INCLUDING AIR FURNACE) 5/	92,219	31,840	--	--	1,830	425	--	--	21,795	2,748	--	--	115,844	35,013
DIRECT CASTINGS 6/	--	173,734	--	--	--	--	--	--	--	124,057	--	--	--	297,791
TOTAL	6,452,313	6,596,085	--	--	289,926	4,346	--	--	1,479,613	225,066	--	--	8,221,852	6,825,497

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

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

3/ INCLUDES CONSUMPTION IN ALL BLAST FURNACES PRODUCING PIG IRON.

4/ INCLUDES SCRAP AND PIG IRON PROCESSED IN METALLURGICAL BLAST CUPOLAS AND USED IN OXYGEN CONVERTERS.

5/ INCLUDES VACUUM MELTING FURNACES AND MISCELLANEOUS USES.

6/ INCLUDES INGOT MOLDS AND STOOLES.

TABLE 6. - MANUFACTURERS OF PIG IRON AND RAW STEEL AND CASTINGS 1/ - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, BY GRADE, SEPTEMBER 1979 (FINAL) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF HOME SCRAP				CONSUMPTION OF BOTH PURCHASED AND RECYCLED SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOD, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.) SCRAP)				ENDING STOCKS	
	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM OTHER RESULTING FROM CURRENT OPERATIONS	FROM OTHER RESULTING FROM CURRENT OPERATIONS	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM OTHER RESULTING FROM CURRENT OPERATIONS	FROM OTHER RESULTING FROM CURRENT OPERATIONS	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM OTHER RESULTING FROM CURRENT OPERATIONS	FROM OTHER RESULTING FROM CURRENT OPERATIONS		
SCRAP:														
CARBON STEEL-														
LOW-PHOSPHORUS PLATE AND PUNCHES	30,609	2,274	3,707	1,170	41,203	5,724	54,611							
CUT STRUCTURAL AND PLATE	23,362	44,926	63,680	--	118,547	--	45,664							
NO.1 HEAVY MELTING STEEL	638,931	273,438	1,345,094	6,261	2,072,677	273,438	2,288,232							
NO.2 HEAVY MELTING STEEL	192,249	6,043	108,761	1,457	304,272	8,692	944,723							
NO.1 AND ELECTRIC FURNACE BUNDLES	484,182	51,102	225,815	5	737,993	10,272	1,149,439							
NO.2 AND ALL OTHER BUNDLES	148,056	2,623	7,662	--	178,044	1,516	419,028							
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	5,212	--	599	--	4,545	--	7,313							
RAILROAD RAILS	907	--	--	--	2,936	--	2,407							
TURNINGS AND BORINGS	103,275	7,925	43,861	34	156,865	6,728	122,250							
SLAG SCRAP (FE CONTENT 70 PERCENT)	125,615	2,464	235,801	--	366,739	3,100	187,878							
SHREDDED OR FRAGMENTIZED	182,786	34,887	3,782	--	249,507	--	214,244							
NO. 1 BUSHING	115,557	604	10,151	109	115,225	1,271	129,322							
ALL OTHER CARBON STEEL SCRAP	160,538	23,441	935,947	32,824	1,033,585	64,595	828,291							
STAINLESS STEEL SCRAP-														
ALLOY STEEL (EXCEPT STAINLESS)	31,337	4,089	60,741	26	92,974	4,488	109,696							
INGOT MOLD AND STOOD SCRAP	20,009	18,534	125,925	519	169,358	12,328	228,652							
MACHINERY AND CUPOLA CAST IRON	41,507	91,022	114,658	156,007	276,528	78,638	842,746							
CAST IRON BORINGS	753	165	3,997	2,587	2,526	5,996	19,565							
MOTOR BLOCKS	28,183	2,270	14,409	1,774	42,201	3,419	128,103							
OTHER IRON SCRAP	--	--	--	--	717	--	938							
OTHER MIXED SCRAP	41,482	10,668	72,294	661	65,344	52,943	928,177							
	17,457	11,483	15,275	--	47,042	4,699	83,844							
TOTAL SCRAP	2,392,007	587,958	3,392,159	203,434	6,078,828	537,276	7,622,105							
TOTAL SCRAP THROUGH SEPTEMBER 1979	24,217,120	4,832,827	32,637,420	2,130,313	59,112,921	4,820,873	7,622,105							
PIG IRON-														
	230,574		6,835,243		6,544,337	583,570	768,367							
PIG IRON THROUGH SEPTEMBER 1979	2,457,668		67,566,278		65,661,353	5,078,487	763,347							
1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE RAW STEEL.														
BASED ON RETURNS FROM 93% OF REPORTING CONSUMERS, REPRESENTING 97% OF SCRAP CONSUMPTION.														

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

2/ BASED ON RETURNS FROM 93% OF REPORTING CONSUMERS, REPRESENTING 97% 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 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	RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.) SCRAP)		FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.) SCRAP)		FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.) SCRAP)		
SCRAP:													
CARBON STEEL-													
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	55,769	590	20,414	--	81,331	181	59,324						
CUT STRUCTURAL AND PLATE-----	15,918	1,272	2,424	--	20,343	91	20,123						
NO.1 HEAVY MELTING STEEL-----	8,528	20	8,008	--	17,648	1,079	23,092						
NO.2 HEAVY MELTING STEEL-----	8,692	--	2,075	--	10,787	--	16,310						
NO.1 AND ELECTRIC FURNACE BUNDLES---	2,277	--	207	--	2,318	--	2,280						
NO.2 AND ALL OTHER BUNDLES-----	211	--	--	--	167	--	1,242						
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	5,874	100	1,229	--	6,796	40	5,380						
RAILROAD RAILS-----	23	--	--	--	40	--	90						
TURNINGS AND BORINGS-----	6,302	277	2,522	--	6,874	1,032	4,613						
SLAG SCRAP (FE CONTENT 70 PERCENT)---	--	--	260	--	246	8	214						
SHREDDER OR FRAGMENTIZED-----	5,155	1,091	--	--	5,778	--	5,222						
NO. 1 BUSHING-----	1,593	785	--	--	2,244	--	4,068						
ALL OTHER CARBON STEEL SCRAP-----	31,786	2,131	27,194	--	64,600	--	37,819						
STAINLESS STEEL SCRAP-----													
ALLOY STEEL (EXCEPT STAINLESS)-----	1,680	78	2,571	--	3,805	434	5,060						
INGOT MOLD AND STOOLE SCRAP-----	4,809	925	11,502	--	17,406	292	24,080						
MACHINERY AND CUPOLA CAST IRON-----	88	--	--	--	270	349	1,036						
CAST IRON BORINGS-----	536	71	502	--	941	--	1,514						
MOTOR BLOCKS-----	6,548	--	2,722	--	7,897	--	5,839						
OTHER IRON SCRAP-----	63	--	--	--	62	--	84						
OTHER MIXED SCRAP-----	2,221	115	7,986	--	9,803	500	12,276						
	--	--	436	--	438	--	11						
TOTAL SCRAP-----	159,073	7,455	90,052	--	259,794	4,806	230,902						
TOTAL SCRAP THROUGH SEPTEMBER 1979---	1,578,154	92,817	781,955	1,927	2,422,121	29,060	230,902						
PIG IRON-----	4,604	--	--	--	3,854	--	5,561						
PIG IRON THROUGH SEPTEMBER 1979-----	35,655	--	--	--	35,290	76	5,561						

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

2/ BASED ON RETURNS FROM 76% OF REPORTING CONSUMERS, REPRESENTING 85% 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 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		RECYCLING SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLES, HOME SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)			OF BOTH PURCHASED AND HOME SCRAP	SHIPMENTS		
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	61,901	7,623		7,238	44		76,441	1,280		40,018
CUT STRUCTURAL AND PLATE-----	114,754	7,689		14,654	54		143,198	322		89,162
NO.1 HEAVY MELTING STEEL-----	14,527	11,294		6,385	--		26,331	2,410		59,239
NO.2 HEAVY MELTING STEEL-----	2,882	445		2,774	64		7,318	68		4,310
NO.1 AND ELECTRIC FURNACE BUNDLES---	12,648	8,855		5,224	39		29,466	--		14,031
NO.2 AND ALL OTHER BUNDLES-----	30,194	--		--	--		32,266	--		29,718
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	9,040	3,611		306	--		14,513	--		9,347
RAILROAD RAILS-----	10,374	--		24	--		10,196	24		11,154
TURNINGS AND BORINGS-----	33,894	13,229		1,318	120		42,839	1,750		89,517
SLAG SCRAP (FE CONTENT 70 PERCENT)---	4,958	--		46	--		3,743	46		18,088
SHREDDER OR FRAGMENTIZED-----	56,749	--		231	--		65,932	--		38,623
NO. 1 BUSHING-----	17,095	2,342		1,192	--		24,057	1,520		10,048
ALL OTHER CARBON STEEL SCRAP-----	79,589	51,697		14,985	4		129,566	410		121,464
STAINLESS STEEL SCRAP-----										
ALLOY STEEL (EXCEPT STAINLESS)---	281	--		575	2		798	46		1,597
INGOT MOLD AND STUOL SCRAP-----	5,785	5		435	81		5,775	269		9,384
MACHINERY AND CUPOLA CAST IRON -----	12,095	451		4,395	291		15,834	683		42,883
CAST IRON BORINGS-----	79,716	7,309		64,975	79		152,119	1,284		107,279
MOTOR BLOCKS-----	46,680	48,827		28,451	41		119,057	5,646		66,442
OTHER IRON SCRAP-----	52,425	1,572		27,662	25		80,908	456		58,243
OTHER MIXED SCRAP-----	71,673	7,258		207,605	1,151		282,901	10,834		146,320
	34,835	31,410		28,883	885		101,952	1,011		56,663
TOTAL SCRAP-----	752,115	203,617		417,358	2,880		1,365,210	28,059		1,023,530
TOTAL SCRAP THROUGH SEPTEMBER 1979----	7,968,332	2,214,860		4,577,460	25,536		14,595,186	263,395		1,023,530
PIG IRON-----										
	RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS
	217,403			--			220,108			107,410
PIG IRON THROUGH SEPTEMBER 1979-----										
	2,123,606			--			2,137,283			107,410
1/ BASED ON RETURNS FROM 70% OF REPORTING CONSUMERS, REPRESENTING 87% OF SCRAP CONSUMPTION.										

TABLE 9. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN SEPTEMBER 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 RAW STEEL AND CASTINGS 1/			MANUFACTURERS OF STEEL CASTINGS 2/		IRON FOUNDRIES AND MISCELLANEOUS USERS		TOTAL ALL TYPES	
	SCRAP	PIG IRON		SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON
BLAST FURNACE 3/-	328,008	--	--	--	--	--	--	328,008	--
BASIC OXYGEN PROCESS 4/-	2,056,398	5,404,325	--	--	--	--	--	2,056,398	5,404,325
OPEN-HEARTH FURNACE	792,013	902,918	6,351	469	--	--	--	798,364	903,387
ELECTRIC FURNACE	2,829,769	46,468	243,330	3,167	439,722	25,567	25,567	3,512,821	75,202
CUPOLA FURNACE	544	15,808	8,670	45	904,868	65,303	65,303	914,082	81,156
OTHER (INCLUDING AIR FURNACE) 5/	72,096	25,660	1,443	173	20,620	2,852	2,852	94,159	28,685
DIRECT CASTINGS 6/-	--	149,158	--	--	--	126,386	--	--	275,544
TOTAL	6,078,828	6,544,337	259,794	3,854	1,365,210	220,108	220,108	7,703,832	6,768,299

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

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

3/ INCLUDES CONSUMPTION IN ALL BLAST FURNACES PRODUCING PIG IRON.

4/ INCLUDES SCRAP AND PIG IRON PROCESSED IN METALLURGICAL BLAST CUPOLAS AND USED IN OXYGEN CONVERTERS.

5/ INCLUDES VACUUM MELTING FURNACES AND MISCELLANEOUS USES.

6/ INCLUDES INGOT MOLDS AND STOOLES.

FOREIGN TRADE

Exports of iron and steel scrap totaled 925,713 short tons in October compared with 716,850 tons in September. Exports of pig iron during October totaled 1,535 tons and 7,029 tons in September. Imports of scrap totaled 50,084 short tons in October compared with 47,468 tons in September. Of the scrap imported during October, 47,682 short tons came from Canada and 2,402 tons from other sources. Imports of pig iron totaled 10,413 short tons in October and 38,734 tons in September. In addition to the foregoing imports of pig iron during October, there were 3 tons of sponge iron, valued at \$2,651, imported from Canada.

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

Country	October 1979		Year to date	
	Short tons	Value	Short tons	Value
Canada-----	84,746	\$6,032,672	715,868	\$50,546,588
Germany, Federal Rep. of--	24,068	1,717,507	171,161	17,301,397
Greece-----	67,322	6,589,726	419,762	44,185,786
Indonesia-----	—	—	19,317	1,932,871
Italy-----	131,640	13,198,815	969,197	100,365,048
Japan-----	264,809	28,835,361	2,612,319	272,018,017
Korea, Republic of-----	83,234	9,435,692	1,190,289	128,787,879
Mexico-----	97,327	9,698,584	653,259	68,087,247
Singapore-----	—	—	60,244	5,643,609
Spain-----	93,562	8,138,421	1,184,157	108,078,061
Taiwan-----	20,711	3,735,152	506,350	54,672,034
Turkey-----	—	—	177,672	17,511,898
United Kingdom-----	235	45,646	12,525	1,642,289
Other countries-----	58,059	8,919,877	609,894	87,282,839
Total-----	925,713	96,347,453	9,302,014	958,055,563

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

Source: Bureau of the Census.

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

Grade of scrap	October 1979		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	214,113	\$21,517,295	2,287,230	\$230,471,748
No. 2 heavy melting steel scrap-----	98,405	9,579,021	929,864	86,629,954
No. 1 bundles-----	13,721	1,349,554	99,431	9,850,485
No. 2 bundles-----	57,543	3,895,597	547,820	39,440,629
Borings, shovelings and turnings-----	85,620	7,228,703	755,570	50,566,499
Stainless steel-----	7,806	4,882,347	88,551	50,736,098
Shredded steel scrap-----	254,186	25,377,331	2,544,867	263,715,737
Iron scrap (excluding borings and shovelings)-	46,220	4,307,086	484,098	47,844,220
All other steel scrap <u>1/</u> -----	148,099	18,210,519	1,564,583	178,800,193
Total-----	925,713	96,347,453	9,302,014	958,055,563
Ships, boats, and other vessels for breaking up (for scrapping)-----	235	28,859	46,682	2,896,598
Total-----	925,948	96,376,312	9,348,696	960,952,161

1/ Includes tinplate and terneplate.

Source: Bureau of the Census.