



MINERAL INDUSTRY SURVEYS

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



Cecil D. Andrus, Secretary

For information call K. W. Palmer
Telephone: 202-634-1029

Iron and Steel Scrap, Monthly

IRON AND STEEL SCRAP IN AUGUST 1977

Returns from 74% of reporting consumers representing 88% of total scrap consumption, indicated that consumption of iron and steel scrap in August on a daily average basis was 8% above that in July, according to the Bureau of Mines, U.S. Department of the Interior. Compared with July data, daily average production and net receipts were both up 6% and 9%, respectively, and stocks at the end of the month were relatively unchanged.

Exports of ferrous scrap during the month were 22% below those for July 1977 and 29% below those for August 1976. Japan was the largest importer of U.S. scrap, taking 30% of the total exported in August 1977. The next largest importers were Greece and the Republic of Korea, which received 19% and 13%, respectively.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of August was \$61.50 per long ton, down 22% from the price of \$78.50 at the end of August 1976.

Pig iron production and consumption on a daily average basis during the month were both down 3% and 2%, respectively, from those of the previous month. Stocks of pig iron increased 1% during August compared with those at the end of July 1977.

Prepared in the Division of Ferrous Metals, October 17, 1977.

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

	AUGUST 1977 (PRELIMINARY) 1/		FINAL	
	MFRS. OF PIG IRON AND STEEL INGOTS & CASTINGS 2/ CASTINGS 3/	MFRS. OF IRON FOUNDRIES AND MISCELLANEOUS USERS	TOTAL FOR MONTH OF AUG 1977	TOTAL FOR MONTH OF JUL 1977 4/ AUG 1977 5/
SCRAP:				
RECEIPTS FROM DEALERS AND OTHER SOURCES	2,120,187	1,150,856	3,408,585	3,212,785
RECEIPTS FROM OTHER OWN COMPANY PLANTS	493,222	8,647	867,304	748,686
PRODUCTION RECIRCULATING SCRAP	3,403,294	77,439	3,970,345	3,760,606
PRODUCTION OBSOLETE SCRAP	207,954	1,413	9,848	219,215
CONSUMPTION	5,67,883	218,377	2,122,188	8,108,448
SHIPMENTS	445,351	1,573	20,181	467,105
STOCKS END OF MONTH	8,314,334	255,430	1,998,226	10,567,990
PIG IRON:				
RECEIPTS	542,337	4,189	203,900	750,426
PRODUCTION	6,837,584	--	--	6,837,584
CONSUMPTION	6,049,472	3,632	208,601	6,861,705
SHIPMENTS	721,333	--	367	721,700
STOCKS END OF MONTH	1,445,329	6,275	120,918	1,572,522
DIRECT-REDUCED OR PREREDUCED IRON:				
RECEIPTS	--	--	--	53,770
PRODUCTION	--	--	--	--
CONSUMPTION	--	--	--	53,434
SHIPMENTS	--	--	--	--
STOCKS END OF MONTH	--	--	--	3,550

1/ BASED ON RETURNS FROM 74% OF REPORTING CONSUMERS, REPRESENTING 88% 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 43% 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 AND RECEIPTS, PRODUCTION,
CONSUMPTION, SHIPMENTS AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP,
BY GRADE, AUGUST 1977 (PRELIMINARY) 2/
(SHORT TONS)

ITEM	RECEIPTS OF SCRAP		PRODUCTION OF HOME SCRAP		CONSUMPTION	
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RECIRCULATING SCRAP (INCLUDES MOLDS, STOOLS, FROM CURRENT OPERATIONS BUILDINGS, ETC.)	RECIRCULATING SCRAP (INCLUDES INGOT CHASED AND HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING SCRAP)	SHIPMENTS OF SCRAP	ENDING STOCKS
SCRAP:						
CARBON STEEL						
LOW-PHOSPHORUS PLATE AND PUNCHINGS--	45,405	774	2,879	1,196	36,906	4,192
CUT STRUCTURAL AND PLATE-----	19,430	12	22,203	10	53,845	--
NO. 1 HEAVY MELTING STEEL-----	4,344,401	253,839	1,512,217	7,675	1,915,735	2,461,027
NO. 2 HEAVY MELTING STEEL-----	174,130	4,596	97,572	165	276,026	2,569,450
NO. 1 AND ELECTRIC FURNACE BUNDLES-----	513,105	59,663	204,271	115	780,685	1,4780
NO. 2 AND ALL OTHER BUNDLES-----	145,642	1,855	27,457	--	171,724	15,532
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	1,710	--	5,615	--	8,296	--
RAILROAD RAILS-----	3,531	--	--	--	6,347	--
TURNINGS AND BORINGS-----	106,776	6,157	29,237	84	133,603	9,773
SLAG SCRAP (FE CONTENT 70 PERCENT)-----	125,195	2,969	249,597	--	370,591	12,620
SHREDDED OR FRAGMENTIZED-----	142,398	36,570	--	--	178,856	--
NO. 1 BUSHELLING-----	109,243	4,485	744	--	127,327	-52
ALL OTHER CARBON STEEL SCRAP-----	178,440	20,870	895,791	30,711	1,051,304	52,937
STAINLESS STEEL SCRAP	30,235	3,682	50,407	93	70,173	4,043
ALLOY STEEL (EXCEPT STAINLESS)-----	23,111	18,097	135,036	122	155,105	13,286
INGOT MOLD AND STOOL SCRAP-----	8,455	45,448	89,827	164,018	279,159	53,543
MACHINERY AND COPULA CAST IRON-----	743	--	--	--	1,040	--
CAST IRON BORINGS-----	21,278	10,564	26,553	2,739	64,253	11,601
MOTOR BLOCKS-----	333	--	--	--	812	--
OTHER IRON SCRAP-----	13,596	23,523	39,812	892	51,769	22,951
OTHER MIXED SCRAP-----	23,030	5,118	14,076	121	33,527	16,997
TOTAL SCRAP-----	2,120,137	498,222	3,403,294	207,954	5,767,883	445,351
TOTAL SCRAP THROUGH AUGUST 1977--	17,143,018	3,921,750	26,851,142	1,628,528	46,366,847	3,499,371
RECEIPTS						
PIG IRON-----	542,337	6,837,584	6,649,472	721,333	1,445,329	
PIG IRON THROUGH AUGUST 1977-----	4,122,536	55,402,955	54,126,682	5,326,410	1,445,329	

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

2/ BASED ON RETURNS FROM 89% 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, AUGUST 1977 (PRELIMINARY) 2/
(SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION		
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER COMPANY PLANTS	RECIRCULATING SCRAP (INCLUDES RESULTING MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, CURRENT OPERATIONS BUILDINGS, ETC.)	FROM OWN COMPANY PLANTS	RECIRCULATING SCRAP (INCLUDES INGOT CHASED AND HOME SCRAP FROM OLD EQUIPMENT, CIRCULATING SCRAP, ETC.)	SHIPMENTS OF SCRAP	CONSUMPTION OF BOTH PUR- CHASED AND HOME SCRAP	ENDING STOCKS	
SCRAP: CARBON STEEL									
LOW-PHOSPHOROUS PLATE AND PUNCHINGS ⁴	42,057	496	15,439	--	--	61,329	--	--	
CUT STRUCTURAL AND PLATE	10,179	1,718	1,526	--	--	15,793	66	17,136	
NO. 1 HEAVY MELTING STEEL	3,490	48	4,946	30	10,805	--	28,950	--	
NO. 2 HEAVY MELTING STEEL	4,269	--	1,105	--	4,406	--	4,174	--	
NO. 1 AND ELECTRIC FURNACE BUNDLES	5,930	--	249	--	5,357	--	5,396	--	
NO. 2 AND ALL OTHER BUNDLES	207	--	--	--	218	--	2,288	--	
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	4,599	--	1,415	--	5,463	72	5,177	--	
RAILROAD RAILS	--	--	--	--	35	--	246	--	
TURNINGS AND BORINGS	4,135	494	2,603	--	6,626	962	3,627	--	
SLAG SCRAP (FE CONTENT 70 PERCENT)	152	--	430	--	546	26	40	--	
SHREDDED OR FRAGMENTIZED	3,323	1,498	--	--	4,993	--	7,293	--	
NO. 1 BUSHHELMING	3,370	411	667	--	4,078	--	5,342	--	
ALL OTHER CARBON STEEL SCRAP	40,084	2,587	24,961	1,329	64,413	--	50,755	--	
STAINLESS STEEL SCRAP	1,823	458	1,847	--	3,487	219	4,701	--	
ALLOY STEEL (EXCEPT STAINLESS)	5,334	937	10,817	--	11,834	--	22,238	--	
INGOT MOLD AND STOOL SCRAP	562	--	38	--	416	16	645	--	
MACHINERY AND CUPOLA CAST IRON	426	--	432	--	1,033	--	2,415	--	
CAST IRON BORINGS	6,343	--	5,190	--	9,310	--	5,243	--	
MOTOR BLOCKS	70	--	--	--	45	--	186	--	
OTHER IRON SCRAP	3,189	--	5,536	54	7,953	212	21,562	--	
OTHER MIXED SCRAP	--	--	238	--	237	--	2	--	
TOTAL SCRAP	137,542	8,647	77,439	1,413	218,377	1,573	255,430	--	
TOTAL SCRAP THROUGH AUGUST 1977	1,197,988	78,192	638,966	8,991	1,889,710	12,838	255,410	--	
PIG IRON									
PIG IRON THROUGH AUGUST 1977	4,189	--	--	--	3,632	--	6,275	--	
^{1/} EXCLUDES COMPANIES THAT PRODUCE BOTH STEEL INGOTS AND CASTINGS.									
^{2/} BASED ON RETURNS FROM 76% OF REPORTING CONSUMERS, REPRESENTING 83% 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, AUGUST, 1977 (PRELIMINARY) 1/
(SHORT TONS)

ITEM	RECEIPTS OF SCRAP		PRODUCTION OF HOME SCRAP		CONSUMPTION	
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RECYCLING SCRAP RESULTING FROM CURRENT OPERATIONS	RECYCLING SCRAP (INCLUDES INGOT MOLDS, STOOLS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	SHIPPED SCRAP (INCLUDES RE- SHIPMENTS OF SCRAP SCRAP)	ENDING STOCKS
SCRAP:						
CARION STEEL-						
LJ4-PHOSPHORUS PLATE AND PUNCHINGS-----	317,670	6,145	6,555	47	342,416	92
CUT STRUCTURAL AND PLATE-----	114,686	8,461	8,965	72	134,314	215
NO. 1 HEAVY MELTING STEEL-----	8,484	10,223	5,498	--	21,884	3,591
NO. 2 HEAVY MELTING STEEL-----	4,985	214	1,962	52	7,760	44
NO. 1 AND ELECTRIC FURNACE BUNDLES-----	15,001	19,382	6,237	50	40,482	--
NO. 2 AND ALL OTHER BUNDLES-----	33,686	13,213	--	--	59,121	--
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----						
RAILROAD RAILS-----	5,668	--	1,470	--	6,931	--
TURNINGS AND BORINGS-----	7,545	--	24	--	8,944	24
SLAG SCRAP (FE CONTENT 70 PERCENT)-----	48,487	9,108	1,182	250	53,274	2,241
SHREDDED OR FRAGMENTIZED-----	7,393	1,916	36	--	8,003	36
NO. 1 BUSHELING-----	64,917	7,687	--	--	71,588	200
ALL OTHER CARBON STEEL SCRAP-----	35,317	9,443	1,003	--	51,299	--
5	79,728	83,709	8,294	7	200,239	875
STAINLESS STEEL SCRAP-----	203	187	634	2	1,009	40
ALLOY STEEL (EXCEPT STAINLESS)-----	5,645	3	272	107	4,527	61
INGOT MOLD AND STOOL SCRAP-----	105,011	--	11,760	307	201,859	351
MACHINERY AND CUPOLA CAST IRON -----	75,157	13,643	55,052	62	152,961	777
CAST IRON BORINGS-----	53,497	60,126	36,001	41	150,983	4,306
MOTOR BLOCKS-----	53,947	2,813	36,611	--	91,591	--
OTHER IRON SCRAP-----	77,681	59,710	279,425	8,466	343,966	6,980
OTHER MIXED SCRAP-----	37,148	10,452	28,011	385	169,037	348
TOTAL SCRAP-----	1,150,856	360,435	489,612	9,848	2,122,188	20,181
TOTAL SCRAP THROUGH AUGUST 1977-----	7,739,074	2,583,671	3,953,555	71,985	14,246,361	205,056
RECEIPTS						
PIG IRON-----						
PIG IRON THROUGH AUGUST 1977-----	203,900	--	--	208,601	367	120,918
1/ BASED ON RETURNS FROM 70% OF REPORTING CONSUMERS, REPRESENTING 63% OF SCRAP CONSUMPTION.						

TABLE 5. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN AUGUST 1977 (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		MANUFACTURERS OF STEEL CASTINGS 1/		IRON FOUNDRIES AND MISCELLANEOUS USERS			TOTAL ALL TYPES		
	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON	PIG IRON	
BLAST FURNACE 3/	339,616	--	--	--	--	--	--	339,616	--	
BASIC OXYGEN PROCESS 4/	2,198,561	5,539,568	--	--	--	--	--	2,198,561	5,539,568	
OPEN-HEARTH FURNACE	849,515	892,526	6,812	535	--	--	--	856,327	893,061	
ELECTRIC FURNACE	2,249,145	50,377	195,149	2,756	900,217	21,704	3,344,511	74,837		
CUPOLA FURNACE	26,077	14,697	14,442	52	1,180,059	85,492	1,220,578	100,241		
OTHER (INCLUDING AIR FURNACE) 5/	104,969	20,182	1,974	289	41,912	2,674	148,855	23,145		
DIRECT CASTINGS 6/	--	132,122	--	--	--	98,731	--	230,853		
TOTAL	5,767,883	6,649,472	218,377	3,632	2,122,188	208,601	8,108,448	6,861,705		

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.

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, JULY 1977 (FINAL) 2/
(SHORT TONS)

ITEM	RECEIPTS OF SCRAP		PRODUCTION OF HOME SCRAP		CONSUMPTION	
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER COMPANY PLANTS	FROM SCRAP RESULTING FROM CURRENT OPERATIONS	RECYCLATING OBsolete SCRAP (INCLUDES INGOT MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	OF BOTH PUR- CHASED AND HOME SCRAP (INCLUDES INGOT MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	SHIPMENTS OF SCRAP SCRAP
						ENDING STOCKS
SCRAP:						
CARBON STEEL-						
LOW-PHOSPHORUS PLATE AND PUNCHING S--	43,074	375	2,023	583	39,530	2,644
CUT STRUCTURAL AND PLATE-----	21,981	--	15,784	--	31,406	--
NO. 1 HEAVY MELTING STEEL-----	428,930	240,478	1,476,264	6,840	1,976,685	185,701
NO. 2 HEAVY MELTING STEEL-----	128,334	13,305	82,946	64	237,979	769
NO. 1 AND ELECTRIC FURNACE BUNDLES-----	493,445	46,113	209,459	19	725,238	1,997
NO. 2 AND ALL OTHER BUNDLES-----	154,251	3,440	22,517	--	164,128	5,163
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	1,318	--	5,928	--	8,184	--
RAILROAD RAILS-----	6,036	--	1	--	4,975	--
TURNINGS AND BORINGS-----	100,333	5,881	23,414	96	110,331	7,901
SLAG SCRAP (FE CONTENT 70 PERCENT)-----	123,875	2,378	226,192	--	352,367	9,322
SHREDDED OR FRAGMENTIZED-----	157,273	33,519	1,356	--	166,949	--
NO. 1 BUSHELING-----	114,440	847	447	--	116,587	1,003
ALL OTHER CARBON STEEL SCRAP-----	152,588	26,168	845,179	25,955	1,013,061	67,904
STAINLESS STEEL SCRAP-----	38,183	2,996	48,927	76	75,891	3,129
ALLOY STEEL (EXCEPT STAINLESS)-----	17,710	9,802	112,001	95	128,716	13,047
INGOT MOLD AND STOOL SCRAP-----	7,634	62,466	96,624	149,387	220,168	65,073
MACHINERY AND CUPOLA CAST IRON-----	174	--	--	--	727	--
CAST IRON BORINGS-----	26,347	8,576	35,420	3,974	60,441	10,039
MOTOR BLOCKS-----	627	--	12	--	1,007	42
OTHER IRON SCRAP-----	17,599	20,056	47,287	335	55,492	36,696
OTHER MIXED SCRAP-----	21,598	4,194	17,626	6	34,032	20,913
TOTAL SCRAP-----	2,055,750	480,594	3,269,407	187,430	5,523,894	4,31,343
TOTAL SCRAP THROUGH JULY 1977-----	15,222,831	3,429,528	23,447,848	1,420,574	40,598,964	3,054,020
RECEIPTS						
PIG IRON-----	518,974	--	7,015,526	--	6,797,210	697,602
PIG IRON THROUGH JULY 1977-----	3,580,199	--	48,565,371	--	47,477,210	4,605,077
1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS.						
2/ BASED ON RETURNS FROM 95% 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, JULY 1977 (FINAL) 2/
(SHORT TONS)

ITEM	RECEIPTS OF SCRAP		PRODUCTION OF HOME SCRAP		CONSUMPTION	
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER COMPANY PLANTS	RECIRCULATING SCRAP RESULTING FROM CURRENT OPERATIONS	RECIRCULATING OBSOLETE SCRAP (INCLUDES INGOT MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.)	HOME SCRAP CHASED AND FROM CURRENT OPERATIONS	SHIPPMENTS OF SCRAP INCLUDES RE- SHIPMENTS OF SCRAP STOCKS
SCRAP:						
CARBON STEEL:						
LOW-PHOSPHOROUS PLATE AND PUNCHINGS---	3,4268	526	11,808	--	46,893	--
CUT STRUCTURAL AND PLATE---	1,1728	1,559	1,117	--	14,082	56
NO. 1 HEAVY MELTING STEEL-----	6,614	94	2,588	13	9,279	--
NO. 2 HEAVY MELTING STEEL-----	3,749	--	1,560	--	4,557	--
NO. 1 AND ELECTRIC FURNACE BUNDLES-----	6,688	--	249	--	6,922	--
NO. 2 AND ALL OTHER BUNDLES-----	103	--	--	--	143	--
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	4,587	--	1,322	--	5,795	108
RAILROAD RAILS-----	172	374	--	--	376	--
TURNINGS AND BORINGS-----	3,231	11	2,076	--	3,890	281
SLAG SCRAP (FE CONTENT 70 PERCENT)---	3313	1,436	395	--	2,145	3,997
SHREDDED OR FRAGMENTIZED-----	1,452	582	--	--	2,993	30
NO. 1 BUSHELING-----	1,723	1,729	338	--	4,722	7,195
ALL OTHER CARBON STEEL SCRAP-----	36,342	526	19,436	2,909	52,944	5,572
						46,422
STAINLESS STEEL SCRAP-----	1,535	138	1,481	--	2,663	254
ALLOY STEEL (EXCEPT STAINLESS)-----	4,911	1,036	8,672	--	10,272	20,006
INGOT MOLD AND STOOL SCRAP-----	124	--	4	--	246	477
MACHINERY AND COPOLA CAST IRON-----	473	--	700	--	1,067	2,631
CAST IRON BORINGS-----	3,239	--	4,383	--	8,111	4,958
MOTOR BLOCKS-----	124	--	--	--	69	161
OTHER IRON SCRAP-----	1,781	--	3,692	7	5,247	217
OTHER MIXED SCRAP-----	--	--	357	--	357	1
TOTAL SCRAP-----	123,157	7,991	60,178	2,929	182,773	1,279
TOTAL SCRAP THROUGH JULY 1977-----	1,060,446	69,545	561,527	7,578	1,671,333	11,265
RECEIPTS						
PIG IRON-----	2,696	--	2,228	--	2,228	5,935
PIG IRON THROUGH JULY 1977-----	23,928	--	23,827	47	23,827	5,935

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 STEEL SCRAP, BY GRADE, JULY 1977 (FINAL) 1/
(SHORT TONS)

TABLE 9. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN JULY 1977 (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	SCRAP	PIG IRON	SCRAP	PIG IRON	
BLAST FURNACE 3/	343,232	--	--	--	--	--	343,232
BASIC OXYGEN PROCESS 4/	2,128,136	5,429,383	--	--	--	--	2,128,136
OPEN-HEARTH FURNACE	850,704	1,131,304	4,777	1,757	--	--	5,429,383
ELECTRIC FURNACE	2,087,869	44,842	160,962	815,691	18,705	855,481	1,131,479
CUPOLA FURNACE	28,006	18,568	15,248	52	967,711	70,011	3,064,522
OTHER (INCLUDING AIR FURNACE) 5/	85,947	25,120	1,786	244	36,440	2,299	88,631
DIRECT CASTINGS 6/	--	147,993	--	--	110,387	--	27,663
TOTAL	5,523,894	6,797,210	182,773	2,228	1,819,842	201,402	7,526,509
							7,000,840

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 MOLOS AND STOOLS.

FOREIGN TRADE

Exports of iron and steel scrap totaled 430,058 short tons in August compared with 553,670 tons in July. Exports of pig iron during August totaled 2,861 tons and 3,841 tons in July. Imports of scrap totaled 66,590 short tons in August compared with 35,059 tons in July. Of the scrap imported during August 54,428 short tons came from Canada and 12,162 tons from other sources. Imports of pig iron totaled 19,314 short tons in August and 21,844 tons in July. In addition to the foregoing imports of pig iron during August, there were 2 tons of sponge iron, valued at \$1,574 imported, all of which came from Canada.

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

Country	August 1977		Year to date	
	Short tons	Value	Short tons	Value
Argentina-----	--	--	48,282	\$3,120,366
Canada-----	26,917	\$1,365,720	364,958	17,004,859
China, People's Rep. of--	--	--	--	--
Greece-----	81,072	4,708,465	203,372	12,488,754
Italy-----	62	45,021	120,713	12,824,845
Japan-----	130,159	3,775,388	689,230	43,639,740
Korea, Republic of-----	57,620	4,176,343	1,034,922	65,247,605
Mexico-----	16,303	1,178,027	229,343	16,520,160
Pakistan-----	--	--	13,040	1,249,783
Spain-----	27,103	1,349,760	625,717	38,129,099
Sweden-----	22	28,421	1,710	1,345,507
Taiwan-----	42,716	3,797,962	209,877	19,752,097
Turkey-----	--	--	200,845	13,451,752
United Kingdom-----	264	43,690	49,620	5,724,517
Other countries-----	47,820	4,933,751	175,418	17,675,773
Total-----	430,058	25,402,548	3,967,047	268,174,857

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	August 1977		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	134,382	\$7,911,951	1,177,223	\$74,566,240
No. 2 heavy melting steel scrap-----	34,352	1,971,666	424,336	24,826,789
No. 1 bundles-----	74,928	703,799	98,291	2,224,070
No. 2 bundles-----	28,572	1,124,100	275,760	12,249,491
Borings, shoveling and turnings-----	17,352	570,818	295,233	11,616,797
Stainless steel-----	5,555	2,916,164	55,373	27,869,253
Shredded steel scrap-----	72,956	4,410,305	1,031,809	66,149,943
Iron scrap (excluding borings and shoveling)---	13,949	1,017,714	215,090	14,685,977
All other steel scrap 1/-	48,012	4,776,031	393,932	33,986,297
Total-----	430,058	25,402,548	3,967,047	268,174,857
Ships, boats, and other vessels for breaking up (for scrapping)-----	--	--	15,171	981,970
Total-----	430,058	25,402,548	3,982,218	269,156,827

1/ Includes tinplate and terneplate.